State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
EHS90111	1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
ROBERTA WAGNER
304-558-0067

VENDOR
*829115053 304-776-6717
ENVIROPROBE INTEGRATED SOLUTIO
630 CROSS LANES DR

NITRO WV 25143

SHIP TO
HEALTH AND HUMAN RESOURCES
BPH ENVIRO HLTH SERVICES
CAPITOL AND WASHINGTON STREETS
1 DAVIS SQUARE, SUITE 200
CHARLESTON, WV
25301-1798 304-558-2981

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/13/2009				

BID OPENING DATE: 03/19/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001		

EXPRESSION OF INTEREST

ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

EXPRESSION OF INTEREST (EOI) FROM QUALIFIED FIRMS TO PROVIDE ARCHITECTURAL/ENGINEERING SERVICES FOR THE SOURCE WATER PROTECTION TECHNICAL HELP PROGRAM (SWPTHP) AS DESCRIBED IN THE ATTACHED SPECIFICATIONS.

CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.

BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT MAY BE DEEMED NULL AND VOID, AND TERMINATED WITHOUT FURTHER ORDER.

RECEIVED
2009 MAR 19 AM 11:30
WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 304 776-6717 DATE 3/18/09

TITLE PRESIDENT FEIN 75-3209842 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
EHS90111	2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
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304-558-0067

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25301-1798 304-558-2981

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/13/2009				

BID OPENING DATE: 03/19/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
	****** THIS IS THE END OF RFQ EHS90111 ****** TOTAL:					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 3047766777 DATE 3/18/09

TITLE President FEIN 75-3209892 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

RFQ No. EHS90111

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:
West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:
If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the ***West Virginia Code***. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the ***West Virginia Code*** and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the ***West Virginia Code*** may take place before their work on the public improvement is begun.

ANTITRUST:
In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:
Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:
The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.

Under penalty of law for false swearing (***West Virginia Code*** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: EnviroProbe Integrated Solutions, Inc.

Authorized Signature: Ronda J. Mone Date: 3/18/09

ENVIROPROBE
INTEGRATED SOLUTIONS, INC.
DRILLING ⌖ ENGINEERING ⌖ ENVIRONMENTAL PROFESSIONALS

March 18, 2009

Roberta Wagner
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

Re: Expression of Interest and Statement of Qualifications
Requisition #EHS90111 – Kearneysville and Philippi

Dear Ms. Wagner:

EnviroProbe Integrated Solutions, Inc. (EnviroProbe) is pleased to submit this letter and attached Expression of Interest to the West Virginia Bureau of Public Health, Office of Environmental Health Services, Environmental Engineering Division. This letter of qualification is submitted in response to Requisition Number EHS90111.

EnviroProbe is a woman-owned small business employing a team of engineers, geologists, toxicologists, scientists, field technicians, and drillers.

In the attached prospectus, we have addressed the items required by the requisition. EnviroProbe holds a valid "Certificate of Authorization" from the West Virginia Board of Professional Engineers to offer engineering services in West Virginia. We are excited about this opportunity and will strive to exceed your expectations on this project.

Yours truly,

Roderic E. Moore, P.E., LRS - President

Attachments – Original and 6 convenience copies

630 Cross Lanes Drive
Nitro, West Virginia 25143
Telephone: (304) 776-6717
Fax: (304) 776-6769

EXPRESSION OF INTEREST
AND
STATEMENT OF QUALIFICATIONS
Source Water Protection Technical Help Program (SWPTHP)
Requisition No. EHS90111
Kearneysville and Philippi

Prepared for:

West Virginia Bureau for Public Health
Office of Environmental Health Services
Environmental Engineering Division
1 Davis Square, Charleston, WV 25301

Submitted to:

Roberta Wagner
Purchasing Division

Prepared by:

ENVIROPROBE
INTEGRATED SOLUTIONS, INC.
DRILLING ◆ ENGINEERING ◆ ENVIRONMENTAL PROFESSIONALS
630 Cross Lanes Drive
Nitro, West Virginia 25143
Phone: (304) 776-6717, Fax: (304) 776-6769
www.enviroprobeinc.com

03-18-09

Roderic E. Moore, P.E. LRS - President
remoore@enviroprobeinc.com

Date

ENVIROPROBE
INTEGRATED SOLUTIONS, INC.
DRILLING ✣ ENGINEERING ✣ ENVIRONMENTAL PROFESSIONALS

EXPRESSION OF INTEREST
AND
STATEMENT OF QUALIFICATIONS
Source Water Protection Technical Help Program (SWPTHP)
Requisition No. EHS90111 – Kearneysville and Philippi

630 Cross Lanes Drive
Nitro, West Virginia 25143

ENVIROPROBE
INTEGRATED SOLUTIONS, INC.
DRILLING + ENGINEERING + ENVIRONMENTAL PROFESSIONALS

EXPRESSION OF INTEREST
AND
STATEMENT OF QUALIFICATIONS
Source Water Protection Technical Help Program (SWPTHP)
Requisition No. EHS90111 – Kearneysville and Philippi

1.0 PURPOSE AND PROJECT UNDERSTANDING

The Acquisition and Contract Administration Section of the Purchasing Division (State) is soliciting Expressions of Interest (EOI) for the Department of Health and Human Resources (DHHR), Office of Environmental Health Services (OEHS), Environmental Engineering Division (Agency). The mission of the project is to provide sufficient information to enable Vendors to satisfy a need for technical assistance to assist community water systems in developing local source water protection programs to protect public health and safety.

This information is necessary and required under the 1996 Federal Safe Drinking Water Act (SDWA). The State developed the Source Water Assessment and Protection (SWAP) program to assess the susceptibility of public drinking water sources to pollution. The Source Water Protection Technical Help Program (SWPTHP) is a federally funded contract administered by the DHHR, Bureau of Public Health (BPH) to provide contracted services to public water systems seeking assistance in developing and implementing local source water protection programs.

The EnviroProbe team, comprised of staff member from EnviroProbe and that of Potesta & Associates, Inc. (Potesta), fully understands this project. Personnel on the EnviroProbe team have been involved with several previous SWAP projects. Roderic Moore, P.E., LRS, Dana Elkins, Terence Moran, P.E. (Potesta), Clyde Emigh, P.E. (Potesta), and others have participated in SWAP projects. Dana Elkins was actively involved in SWAP program development while employed by DHHR-OEHS from 1999-2002. Mr. Emigh is a former long-time Philippi District DHHR engineer, who is now employed by Potesta. He brings a wealth of knowledge regarding public water systems and source water, particularly for those public water systems covered by the Philippi district. Mr. Moran has managed several SWAP projects for OEHS in the recent past.

Mr. Elkins was responsible for developing the source water access database for the SWAP unit and was also responsible for training staff from the West Virginia Rural Water Association, private sector contractors, and college interns, on performing SWAP assessment on surface and groundwater public drinking water systems PDWS. Training included field identification of potential contaminant sources (PCS); collecting spatial data for PCS's using Trimble GPS; photographing-cataloging PCS's; and merging the data into the source water access database. Mr. Elkins was responsible for creating a single GIS from assessment data to be used by OEHS staff as an integral part of the SWAP.

1.1 Understanding of General Requirements

If selected, EnviroProbe will implement the activities associated with the State SWAP Program in the Kearneysville, WV and Philippi, WV districts. EnviroProbe will work with the Agency in an effort to encompass all of the water sources (groundwater and surface water) operated by the systems. The community public water supply (CPWS) systems are divided into two classes as follows:

1. Groundwater
    a. Small
    b. Medium
    c. Large
2. Surface Water
    a. Small
    b. Medium
    c. Large

EnviroProbe's efforts will be based on several criteria and required tasks defined by the project and Agency.

1.2 Groundwater CPWS

EnviroProbe will focus on the 5-year capture zones as defined by the BPH SWAP program. The 5-year capture zones for the small, medium, and large groundwater systems correspond to the following:

Small:	<500 acres
Medium:	500 to 1,000 acres
Large:	>1,000 acres

There are a total of 14 community groundwater systems in the two areas (7 – Kearneysville and 7 – Philippi).

1.3 Surface Water CPWS

In lieu of the entire watershed, EnviroProbe's inventory efforts for surface water CPWS will be focused on the SWAP Zone of Critical Concern (ZCC) as defined by the BPH SWAP. The ZCC is the corridor along the streams, lakes, and reservoirs within the watershed areas the warrants additional inventory and management due to the proximity to the source water and the susceptibility to potential contaminants from Potential Contaminant Sources (PCS).

EnviroProbe understands the ZCC delineations for free flowing streams, lakes, and reservoirs within the Watershed Delineation Area (WSDA). The surface water project areas are also divided into small, medium, and large categories based on the following criteria:

Small:	<1,000 acres
Medium:	1,000 to 8,000 acres
Large:	>8,000 acres

There are a total of 54 community surface water systems in the two areas (17 – Kearneysville and 37 - Philippi).

2.0 QUALIFICATIONS AND KEY PERSONNEL

A broad range of disciplines is required to meet the multi-faceted challenges of this project. EnviroProbe's team will provide the full range of services necessary for the following:

1. Project Management Communication,
2. Project Meetings,
3. PCS Surveys,
4. Plan Development (Management, Contingency)
5. Site-Specific Report Preparation

EnviroProbe has included a Project Organization Chart (Figure 1 in **Appendix A**), showing the lines of communication and hierarchy for project management.

The EnviroProbe team is comprised of a multi-disciplinary group of professionals that includes engineers, geologists/hydrogeologists, environmental scientists, environmental toxicologists, GIS professionals, CADD designers, Licensed Remediation Specialists, scientists, and surveying/GPS professionals.

2.1 Project Team Members/Key Personnel

In **Table 1**, EnviroProbe is providing a listing and brief description including resumes (**Appendix B**) of personnel to be assigned to this project.

Table 1. Key Personnel and Duties

No.	Name	Company	Position	Duties
1	Roderic Moore, P.E.	EnviroProbe	Program Manager	Point of contact, assignment of staff, coordination with Potesta
2	Dana Elkins	EnviroProbe	Project Manager	SWAP Project Manager. Responsible for adherence to schedule and QA/QC of project
3	Terence Moran, P.E.	Potesta	Backup PM and QA/QC	Back-up SWAP Project Manager and in charge of ensuring project QA/QC
4	Neil Capper	EnviroProbe	Team Leader SWAP Specialist	Management of SWAP Specialists. Responsible for contacting officials, leading public meetings, data entry, QA/QC, and preparation of plans and reports
5	Jarrett Smith, P.E.	Potesta		
6	Clyde Emigh, P.E.	Potesta		
7	Ryan McGlothen, P.E.	Potesta		
8	Chris Henderson	EnviroProbe	SWAP Specialist	Field visits, data entry, preparation of plans and reports
9	Chris Jackson	Potesta		
10	Lash McGhee	EnviroProbe		
11	Wes McDonald	Potesta		
12	Ryan Robinson	Potesta	IT SWAP Specialist	Work with Project Manager in updating database, GIS and mapping consistency.
13	Ronda Moore	EnviroProbe	Logistics and Technical Writing	Coordination and planning with SWAP Team Leaders, scheduling meetings with team and points of contact, technical writing, data entry, and preparation of plans and reports.
14-27	Others as needed	EnviroProbe and Potesta	6 – SWAP Specialists 2 – Technical Writers 3 – Graphics and CADD Designers 2 – Hydro-geologists 1 – Aquatic Toxicologist	

The EnviroProbe team, comprised of staff members from EnviroProbe and Potesta, fully understands this project. Personnel on the EnviroProbe team have been involved with several previous SWAP projects. Roderic Moore, P.E., LRS, Dana Elkins, Terence Moran, P.E. (Potesta), Clyde Emigh, P.E. (Potesta), and others have participated in SWAP projects. Dana Elkins was actively involved in SWAP

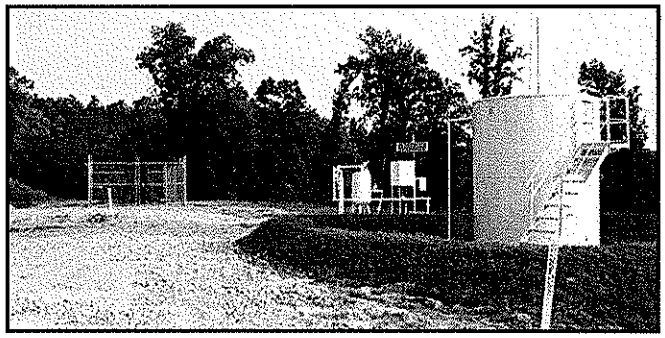
program development while employed by DHHR-OEHS from 1999-2002. Mr. Emigh is a former long-time Philippi District DHHR engineer, who is now employed by Potesta. He brings a wealth of knowledge regarding public water systems and source water, particularly for those public water systems covered by the Philippi district. Mr. Moran has managed several SWAP projects for OEHS in the recent past.

3.0 PAST PERFORMANCE AND EXPERIENCE

EnviroProbe is presenting a discussion of projects recently completed by our team that demonstrates our ability to complete this project successfully. Each of these projects required strong project management, communication skills, detailed planning, and adherence to project schedules.

3.1 Chesapeake Energy – Site Inspection and SPCC Plans

Chesapeake operates over 8,000 oil and natural gas facilities in Kentucky, Tennessee, West Virginia, Pennsylvania, New York. EnviroProbe was tasked with inspecting these facilities, documenting well location equipment, stormwater run-off pathways, spill control and countermeasure controls, and preparing Spill Prevention Control and Countermeasure (SPCC) plans. The facilities included producing wells, compressor stations, tank batteries, and electronic measuring sites.



Our services included identifying the sites, collecting information for each facility based on records and interviews, driving to each of the facilities, photographing the site, recording GPS readings, measuring, sketching, and inspecting the facility, checking for obvious leaks or releases, and collecting detailed and pre-determined information about each facility. All information was recorded on prepared field inspection forms and entered into a company database.

EnviroProbe worked with the corporate environmental department in Oklahoma and Charleston, WV as well as the Field Offices staff, well tenders, and area environmental specialists to complete this project.

This project was completed under budget and within the proposed schedule. The

EnviroProbe Principal-in-Charge, Mr. Roderic E. Moore, P.E. and the Project Manager, Mr. Dana Elkins will serve major roles in this SWAP project.

Our performance in terms of cost control, quality of services, and compliance with schedules can be confirmed by contacting:

Mr. Jim Mottesheard
Chesapeake Energy
Telephone: (304) 353-5142
Email: jim.mottesheard@chk.com

3.2 Source Water Assessment and Protection Program Services

Our project partner, Potesta was retained by the WVDHHR/BPH-OEHS to provide services associated with source water assessment and protections. Those services provided by Potesta included:

- Reviewing a Microsoft Access database created by OEHS (Dana Elkins of EnviroProbe was instrumental in development of this database while employed by DHHR).
- Coordinating site visits and interviews with public water systems (PWS)
- Identifying potential contaminant sources (PCS) while in the field or by record review
- Locating PCS and other features using GPS
- Downloading GPS data into the Access database
- Reviewing regulatory file information
- Entering water quality data into the Access database
- Preparing summary reports for 18 surface water sources in Frame Work Group D and 20 surface water sources in Frame Work Group E.

After completion of this grouping, Potesta was retained to provide similar services for 42 additional small community public water systems in southern West Virginia.

Potesta was also retained to provide SWAP Program Symposiums which included the following:

- Working with OEHS on identifying pertinent information to present
- Preparing a PowerPoint presentation
- Identifying symposium sites and selecting dates

- Assisting in notifying potential attendees
- Presenting the symposiums which were held at five locations in West Virginia

These projects were completed under budget and schedules were met. The Potesta SWAP Project Manager for those projects (Mr. Terence Moran, P.E) will be involved in a similar role for the EnviroProbe team, with a particular responsibility for overall QA/QC and consistency.

Potesta's performance in terms of cost control, quality of services, and compliance with schedules can be confirmed by contacting:

Mr. Scott Rhodeheaver
WV DHHR, BPH-OEHS
Telephone: (304) 558-2981
Email: scottrodeheaver@wvdhhr.org

3.3 U.S. Army Corps of Engineers, USEPA, and WVDEP

EnviroProbe worked with the USACE Huntington District, WVDEP, and U.S. EPA Region 3 during an in-kind shared services contract. The project involved site identification, work plan preparation, coordination with USACE-EPA-WVDEP Project Managers, environmental drilling, sampling, testing, and report preparation at over 60 orphaned/abandoned leaking underground storage tanks (LUST) sites in West Virginia.

EnviroProbe was tasked with accumulating the available site information, preparing a detailed work plan for review by the three agencies, coordinating and scheduling the field work with USACE, EPA, and WVDEP staff, drilling and collecting soil and groundwater samples, submitting samples for laboratory analysis, and preparation of a site map and assessment report for each site. Project management by EnviroProbe staff, particularly as is related to coordination between the three agencies was critical to this successful project.

Our performance in terms of cost control, quality of services, and compliance with schedules can be confirmed by contacting:

Ms. Lisa Humphreys
US Army Corps of Engineers
Telephone: (304) 399-5953
Email: lisa.a.humphreys@usace.army.mil

4.0 TECHNICAL APPROACH AND DELIVERABLES

4.1 Project Management and Communication

EnviroProbe's SWAP Program Manager, Mr. Roderic E. Moore, P.E. will function as the primary point of contact with the BPH PM. Mr. Moore, as the owner and President of the company is available 24 hours per day, 7 days per week. He possesses a cell phone with direct email (i.e., Blackberry) and will provide all other means of communication available to the BPH PM. The same contact information will be provided for EnviroProbe's Team Leader SWAP Specialists and SWAP Specialists.

EnviroProbe has prepared weekly and monthly project status reports on several projects. We anticipate contacting the Agency PM on a weekly basis to provide updates on the project activities, discuss any problems or hurdles encountered, and project invoice status. By the 5th day of each month, EnviroProbe will prepare and submit a monthly summary report until the project is completed. EnviroProbe will work closely with the BPH PM and SWAP Project Manager to establish the requirements of the weekly and monthly summary. As the project continues, the content of the weekly and monthly summary reports will be adjusted.

4.2 Contract Meeting

EnviroProbe's Program Manager and SWAP Project Manager will attend a meeting or meetings with the Agency to finalize the scope of services, including the schedule and fee in anticipation of contract execution.

4.3 Project Kickoff Meeting

EnviroProbe's team will meet with the Agency Project Manager to:

- Review EnviroProbe's proposed schedule for completing the finalized scope of services
- Introduce EnviroProbe's Team Lead SWAP Specialists and our IT SWAP Specialist. In addition, EnviroProbe will provide contact information including telephone numbers and email addresses at this time as required by the contract.
- EnviroProbe anticipates the Agency will provide the Access database at this time. The database, as we understand it, will include the known SWAP PCS', plus state and federal databases.

4.3.1 Internal SWAP Awareness Meetings

EnviroProbe will provide in-house SWAP Awareness training to our team, including Team Leader SWAP Specialists, SWAP Specialists, IT SWAP Specialist, and Logistical Specialist/Technical Writer. There are certain staff members that have not participate in earlier SWAP projects.

4.4 Prototype Development

EnviroProbe's team includes members that we anticipate participating in a SWPTHP project for the St. Albans and Wheeling Districts. As such, our team will be developing a prototype project for community public water systems (CPWS), including a minimum of one groundwater system and one surface water system. At least two of the proposed EnviroProbe Team Leader SWAP Specialists will be participating in these prototypes. The prototype projects will be inclusive of the tasks described below.

We believe the experience and information gleaned from the prototype development for the St. Albans and Wheeling Districts will be invaluable for efficient implementation of this project. The result will be enhancing productivity and consistency for the Kearneysville and Philippi Districts.

4.5 Completion CPWS Projects

After participating in and finalizing the prototype projects, EnviroProbe's Project Manager will divide the remaining CPWS' among the Team Leader SWAP Specialists. The subtasks described below will be carried out for each of the remaining CPWS'.

4.5.1 Project Initiation Meetings

EnviroProbe personnel will initiate, coordinate, and conduct project initiation meetings for each CPWS. EnviroProbe will prepare and deliver short project presentations and then discuss the SWAP program project and provide updates, recommendations, and information on upcoming milestones. This meeting (one per CPWS) will serve as the formal beginning of the project. The primary purpose will be to:

- Discuss the SWAP program and need for the project
- Establish local points of contact
- Establish lines of communication within the area
- Gather preliminary information on the area and potential PCS's

- Present a proposed project timeline
- Discuss the need for this effort, the deliverable (i.e., report or product) and the anticipated outcome
- Present and discuss the Project Management and Project Contingency Plans to the stakeholders
- Review the existing PCS listing (provided by the OEHS) with representatives of the CPWS and other stakeholders
- Edit the list based on information gathered during the meeting
- Address questions from attendees

Prior to this meeting, EnviroProbe is prepared to obtain/download various updated lists of regulated PCS's that will include, but not be limited to:

Federal databases

- National Priorities List (NPL)
- Comprehensive Environmental Response and Liability Information System (CERCLIS) list
- RCRIS databases
- Emergency Response Notification System (ERNS) list
- No Further Remedial Action Planned (NFRAP) Sites list

State databases

- Registered Underground Storage Tank (UST) facility information list
- Leaking Underground Storage Tank report (LUST) list
- Hazardous Waste Site report (HWS) list
- Solid Waste Facility (SWF) information list
- NPDES Permits (industrial)
- NPDES Permits (construction activities)
- Mine Permits
- Wastewater facilities (permitted)
- Air Permits
- Solid Waste Permits
- Underground Injection Control (UIC) Permits

Other Sources

- Historical Sanborn Fire Insurance Maps
- Historical aerial photographs
- Historical City Directories
- Local water well records
- Local Environmental/Remediation Wells
- Public water supply well records

EnviroProbe will review the available information and modify the OEHS PCS list prior to the initial meeting.

4.5.2 PCS Survey of Areas

EnviroProbe will perform the PCS survey of each area attempting to identify regulated and non-regulated PCS's within the wellhead (groundwater systems) and ZCC (surface water systems) areas. Prior to sending personnel to the field, EnviroProbe will provide internal training to ensure the project expectations are met during the data collection phase. We have all necessary equipment and experience personnel to perform this project. Using the database of known PCS's provided from the BPH, EnviroProbe will attempt to further develop it by researching more recent records.

EnviroProbe will develop field survey forms for use by our personnel to ensure consistency and collection of appropriate data. Information gained from the initial planning and development and the site surveys will be added to the database. EnviroProbe will document locations using GPS and photograph PCS sources added since the original source water report was completed. In addition, those PCS' that were on the original database, but not found during this survey, will be listed. EnviroProbe will prepare necessary mapping and reports as required by the project specifications.

4.5.3 CPWS Management Plan

EnviroProbe prepare a project management plan that will identify and document ways to protect the source water within each area. We will present steps to reduce the likelihood of future contamination. The plan will at a minimum include:

- List of local officials and private citizens willing to lead or assist in local source water protections efforts
- Identify management techniques to be utilized such as local regulations or ordnances, property easements, public education techniques, Best Management Practices (BMPs)
- Comparison of the original SWAP reports with the current report to compare conclusions and recommendations as well as efforts already initiated. Discuss successes and failures since the last report.
- List of contacts and resources
- Other issues identified during the project

4.5.4 Project Contingency Plan Development

Each CPWS needs to be aware of potential problems (both anticipated and unanticipated). EnviroProbe will work the each CPWS and the BPH to develop an extensive Contingency Plan that can be used for planning and for reaction to unexpected events. The plan will consider:

- Water supply characteristics such as:
  - Source capacity
  - Geology
  - Factors affecting water quality and quantity (i.e., lock and dams, accidents, terrorists' activities/events, major spills/releases, natural disasters, etc.)
- Identification of alternate supplies in the event one or more of the existing supplies becomes unusable
- List of contacts and resources in the case of emergencies. This includes the Emergency Coordinator, primary contacts and a corresponding backups
- Secondary threats to water quality and/or quantity. This may include transportation routes, listing of materials transported via highway, rail, or river and list of emergency contacts for these entities.
- Other issues identified during the project

4.5.5 Follow-Up Meetings

EnviroProbe will conduct one follow-up meeting for each CPWS. Prior to the meeting, EnviroProbe will invite CPWS representatives, stakeholders, others considered to be resources to the effort, and other parties having an interest in the project.

During the meetings, EnviroProbe will present preliminary PCS maps, and discuss the Project Management and Project Contingency Plans. Input from those in attendance will be recorded and reviewed to modify the PCS maps where possible.

4.5.6 Site Specific Report Preparation

EnviroProbe will prepare a site-specific report for each CPWS area. The report will be inclusive of all site activities from the award of the contract to the end. The discussion will include at a minimum:

- Project introduction
- Summary of project meetings
- Attendees to the meetings

- PCS inventory development, revision (new, deleted PCS's, justification), and rankings
- PCS Section including:
  - New non-regulated PCSs
  - Regulated data points (including those not found but listed originally)
  - Unused or improperly abandoned water wells or monitoring wells
  - Abandoned USTs
  - New sources added since the original report
- Maps at scale showing information clearly and legibly
- Modifications made to the original SWAP report (discussion of prior and current conclusions and recommendations)
- Project Management Plan for future use by the CPWS personnel
- Activities that should be pursued by the CPWSs such as:
  - Prioritized list of best management practices (BMPs)
  - Funding sources to implement BMPs
  - Local ordinances (existing and proposed)
- Prioritization of management techniques and BMPs that should be pursued
- Presentation of the Contingency Plan for the CPWS as discussed above

EnviroProbe will prepare drafts of the reports for review by the Agency. Based on your comments, EnviroProbe will finalize the reports and provide four hardcopies and an electronic copy. The database containing all projects completed will be submitted electronically.

4.5.7 Project Closure Meetings

As a result of the implementation of the project tasks, including the input from the stakeholders and interested parties in the CPWS, EnviroProbe will present the results of the study. EnviroProbe will discuss how the CPWS can use the report for their benefit. Conclusions and recommendations will be presented and discussed. Priority PCS's (based on a ranking system) will be presented and discussed. Other PCS's other less concern, based on the ranking system, will be discussed in less detail.

4.6 Requisite Project Equipment

To implement the project successfully, EnviroProbe understands specific minimum requirements for equipment and software include the following:

1. All necessary and appropriate equipment shall be readily available to the SWAP personnel at all times,
2. All costs related to this equipment shall be borne by EnviroProbe

3. All EnviroProbe staff shall have internet access capable of sending and receiving e-mail with large attachments,
4. EnviroProbe currently owns or will acquire the following equipment and software:
    a. Numerous computers with Microsoft Windows 2000 or later
    b. Computers capable of running all necessary software and peripherals as defined by the software manufacturer
    c. Wide Area Augmentation System (WAAS) capable global positioning system (GPS)
    d. Environmental Systems Research Institute (ESRI) ArcGIS 9.2 or later and GIS MS Access 2000 or later
    e. Large scale color plotter

EnviroProbe currently has ALL necessary equipment and software in-house and the experience and expertise to provide all services required under this contract.

In addition to that listed above, EnviroProbe maintains a fleet of company vehicles with four-wheel drive, all-terrain vehicles (ATVs), digital cameras, cellular telephones, laptop computers, survey equipment, hand-held GPS units, dash-board navigation systems, boats, and other ancillary equipment necessary to complete the project.

4.7 Deliverable Review, Revisions, and Acceptance

EnviroProbe understands that the BPH has a minimum time necessary to review and comment on draft deliverables. We also understand that certain modifications and revisions may be required and that payment to EnviroProbe will not occur until after acceptance of the deliverable.

5.0 PROJECT SCHEDULE

EnviroProbe proposes the schedule presented on the attached **Table 2**. The table also lists the key personnel for completing the scope of services as generally described in the Technical Approach above.

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Table 2. Proposed Project Schedule

Week	Task	SWAP PM	Team Leader #1	Team Leader #2	Team Leader #3	SWAP Specialist Team #1	SWAP Specialist Team #2	SWAP Specialist Team #3	IT SWAP Specialist	Backup SWAP PM (Funding Alternatives and Cost Estimates)	Comments
1	2–Project Kickoff Meeting	X	X	X	X				X		
2-9	3–"Prototype Development"	X	X	X	X				X	X	
10-43	4–Completion of Remaining CPWS	X	X	X	X	X	X	X	X	X	EnviroProbe's SWAP Specialist Teams will complete Tasks described in Section 4.5.1 through 4.5.7 for the remaining CPWS' in this timeframe. Efforts will be made to group various CPWS' so that all reports will not be submitted at one time. The additional SWAP Specialist Team will be added if necessary by week 30.
44-50		X	X	X	X	X	X	X	X	X	In this timeframe, all remaining reports will be revised and finalized by the SWAP Specialist.

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APPENDIX A

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APPENDIX B

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ENVIROPROBE
INTEGRATED SOLUTIONS, INC.
DRILLING + ENGINEERING + ENVIRONMENTAL PROFESSIONALS

Roderic E. Moore, P.E., L.R.S.
President
Certified Well Driller
Class B UST Remover
remoore@enviroprobeinc.com

AREAS OF SPECIALIZATION

Roderic E. Moore, P.E., LRS is president of EnviroProbe Integrated Solutions, Inc. (EnviroProbe), a professional engineering, environmental consulting, and drilling/direct-push firm.

He possesses extensive experience providing solutions to variety of complex engineering and environmental projects for various private, retail/commercial, and industrial clients, as well as state and federal government agencies.

ENVIRONMENTAL ENGINEERING AND MANAGEMENT

Mr. Moore offers a combination of project management, technical expertise and leadership experience in the environmental, engineering, regulatory compliance, and health and safety industry. His related experience and expertise is comprised of over 15 years completing engineering and environmental projects which have included:

- Regulatory Compliance
- Solid/Hazardous Waste Management
- Storm/Wastewater Management & Treatment
- Phase I/II Environmental Site Assessments
- "Brownfield" Voluntary Remediation
- Waste Minimization and Management
- Staff Training and Development
- SPCC Plans and Spill Response
- Expert Testimony
- Health and Safety Planning
- Remediation Design/Implementation
- Risk-based Corrective Action
- Risk Assessments
- Health and Safety Plan Monitoring
- Soil - Groundwater Remediation
- Environmental Compliance Audits
- Groundwater Protection Plans
- Permitting and Regulatory Liaison

EDUCATION AND REGISTRATION

- **M.S.Civil and Environmental Engineering**, West Virginia University - December 1994
- **B.S. Civil Engineering**, West Virginia University - May 1992

- West Virginia State Board of Registration for Professional Engineers (P.E. Reg. No. 16390)
- Licensed Remediation Specialist (LRS #41), WV Department of Environmental Protection
- Class B Underground Storage Tank Remover (#B654), WVDEP
- West Virginia Certified Well Driller (CWD #0154); WVDEP
- 40 Hour OSHA Hazardous Waste and Emergency Response (Current 8-hour Refresher)

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President
Certified Well Driller
Class B UST Remover
remoore@enviroprobeinc.com

- OSHA Confined Space Entry Training (entrant and attendant)
- ASFE Fundamentals of Professional Practice course

EMPLOYMENT HISTORY

March 2006 - Present	EnviroProbe Integrated Solutions, Inc.
March 1997 - March 2006	Potesta & Associates, Inc.
January 1996- March 1997	Terradon Corporation
September 1994 - January 1996	Omega Environmental Services, Inc.
January 1994 - August 1994	Rucker & Associates, Inc.
1992 – 1993	West Virginia University, *Graduate Research Assistant,*
Summer 1992	Stilson and Associates, Inc.
Summers 1990 – 1991	West Virginia Department of Transportation

PROFESSIONAL ORGANIZATIONS/AFFILIATIONS

- American Society of Civil Engineers
- National Ground Water Association
- Air and Waste Management Association
- Water Environment Federation
- Hazardous Materials Control Resources Institute

PROFESSIONAL EXPERIENCE

EPA BROWNFIELD AND WVDEP LICENSED REMEDIATION SPECIALIST

Mr. Moore has been the Licensed Remediation Specialist, WVDEP Project Manager of record, or Project Manager for the following Brownfield/Voluntary Remediation Program (VRP) sites in West Virginia:

- VRP – WV Central Credit Union Site – Vienna, WV
- Brownfield Cleanup Grant – City of Clarksburg – Adamston Flat Glass – Clarksburg, WV (LRS and Risk Assessor Sub-Consultant)
- Brownfield Petroleum Assessment Grant – City of Charleston – Charleston, WV (ESA and Geoprobe Direct Push Subcontractor)
- VRP - Charleston Sanitary Board, Copenhaver Park Former Sludge Facility – Charleston, WV
- VRP - Proposed Wal-Mart – Glen Dale, WV
- VRP - Blenko Glass - Milton, WV
- VRP - City of Parkersburg - Former CSX Site – Parkersburg, WV
- VRP - Former G-M Properties Site (Roman Catholic Diocese of Wheeling-Charleston) - Charleston, WV

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President
Certified Well Driller
Class B UST Remover
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- WVDEP - Former Fostoria Glass – Moundsville, WV
- VRP - Poor Charlie & Company, Inc., Cremer Iron & Metal – Parkersburg, WV
- VRP - Amherst Industries, Former Pt. Pleasant Marine (Parcel 1) – Pt. Pleasant, WV
- VRP - Amherst Industries, Former Pt. Pleasant Marine (Parcel 2) – Pt. Pleasant, WV
- VRP - Amherst Industries, Amherst Dock Facility – Chelyan, WV
- VRP - Poor Charlie & Company, Inc., Riverside - Glasgow, WV
- WVDEP - PPG/Former Marshall Army Landfill - New Martinsville, WV
- WVDEP - Former WV Plastics (Baby World) – Grafton, WV
- VRP - Poor Charlie & Company, Inc., Campbell's Creek - Charleston, WV
- VRP - Poor Charlie & Company, Inc., Sattes – Nitro, WV
- VRP - T.L. Diamond & Company and E.I. DuPont de Nemours & Company, Spelter Smelter Facility – Spelter, WV
- VRP - Meyer Darragh Buckler Bebenek & Eck, Tanker Truck Spill Site – West Hamlin, WV
- VRP - Desco, Inc. – Weirton, WV
- VRP – Former Pack Lumber Site – Marmet, WV

These multi-disciplinary projects involved environmental site assessment, risk assessment, remediation work plan preparation/design, remediation work plan implementation, and follow-up reporting and/or monitoring.

ENVIRONMENTAL SITE ASSESSMENTS, RISK ASSESSMENTS, AND REMEDIATION

Leaking Underground Storage Tank (UST) Sites:
.....Numerous commercial properties (non-retail petroleum)
..... Numerous single-site UST Owners
.....SuperAmerica
.....Limbocker Oil Company
..... Petroleum Products, Inc. – One Stop
.....Go-Mart, Inc.
..... Triumph Energy Corporation
..... WV-American Water Company
.....Marathon Petroleum Company, LLC
..... Amherst Industries, Inc.
.....Englefield Oil Company
.....Phase II ESAs for Property Transactions
..... Auto Dealerships
..... West Virginia Department of Environmental Protection

Phase I ESAs – Property Transactions:
.....Banks
..... Sellers

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President
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Class B UST Remover
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.....Buyers
.....Architectural and Engineering firms
.....Developers
..... City Governments
..... County Governments

Phase II ESAs:

..... UST/LUST sites
..... Chemical industry
..... Commercial property
.....Residential property
..... City-owned property
.....County-owned property
..... Manufacturing facilities
.....Industrial facilities
..... Industrial waste facilities
..... Brownfield/Voluntary Remediation sites

SPILL CLEANUP AND EMERGENCY RESPONSE

.....Trucking Companies
..... Insurance Providers
.....Coal Companies
..... Chemical Industry
..... Retail Petroleum
..... Bulk Petroleum Facilities

CERCLA/RCRA/SUPERFUND

.....Fike/Artel Chemical Site – Nitro, WV
..... Burke Parsons Bowlby – Spencer, WV
.....Burke Parsons Bowlby – Goshen, VA
.....Monsanto/Solutia – Nitro, WV
..... Columbia Gas Transmission – Charleston, WV
.....Raleigh Junk Company – Sattes, WV
.....Raleigh Junk Company - Parkersburg, WV
..... Raleigh Junk Company – Charleston, WV
.....Twin City Iron & Metal – Bristol, VA

ENERGY AND RESOURCE EXTRACTION

..... Columbia Gas Transmission
..... Massey Coal Services
..... International Coal Group
..... Arch Coal

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President
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..... GASCO, Inc.

PERMITTING AND COMPLIANCE

NPDES Permitting:
..... Construction activities
..... Industrial/manufacturing activities
..... Remediation activities

Compliance Audits:
.....Numerous clients

Spill Prevention, Control and Countermeasure (SPCC) Plans:
..... Bulk Storage Facilities
..... Numerous clients storing petroleum products
..... Boggs Aviation – Spencer, WV
..... Amherst Industries, Inc.

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ENVIROPROBE
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Dana A. Elkins
Sr. Geologist/GIS Specialist
daelkins@enviroprobeinc.com

AREAS OF SPECIALIZATION

Mr. Elkins is a Sr. Geologist and Geographical Information Systems (GIS) Specialist for EnviroProbe Integrated Solutions, Inc. (EnviroProbe). EnviroProbe is a woman-owned drilling/direct-push, professional engineering, and environmental consulting firm. EnviroProbe is a growing firm comprised of one Professional Engineer, environmental professionals, Geologist/GIS Specialist, drillers, and field service technicians.

Mr. Elkins has worked in the mining and engineering/environmental consulting industries as well as state government (WV Bureau for Public Health – Office of Environmental Health Service, Source Water Protection Program).

ENVIRONMENTAL ASSESSMENT, REMEDIATION AND MANAGEMENT

Mr. Elkins offers a combination of project management, technical expertise and leadership experience in the mineral extraction and environmental consulting industry. He possesses extensive experience providing solutions to variety of complex environmental projects for various private, retail/commercial, and industrial clients, as well as state and federal government agencies. His related experience and expertise is comprised of nearly 14 years completing numerous projects which have included:

- Groundwater Protection Plans
- Solid/Hazardous Waste Management
- Storm/Wastewater Management & Treatment
- Phase I/II Environmental Site Assessments
- "Brownfield" Voluntary Remediation
- GIS and related applications
- Database development and application
- SPCC Plans and Spill Response
- Surveying and mapping
- Watershed delineation and mapping
- Remediation Planning
- Site layout and roadway design
- Staff Training and Development
- Health and Safety Plan Monitoring
- Soil - Groundwater Remediation
- Environmental Compliance Audits
- Groundwater fate and transport modeling
- Permitting and Regulatory Liaison

EDUCATION AND REGISTRATION

- **B.S. Geology**, Marshall University - 1993
- 40 Hour OSHA Hazardous Waste and Emergency Response (Current 8-hour Refresher)
- 40 Hour MSHA Surface and Underground
- Actively participate in ongoing professional development

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Dana A. Elkins
Sr. Geologist/GIS Specialist
daelkins@enviroprobeinc.com

EMPLOYMENT HISTORY

September 2006 - Present	EnviroProbe Integrated Solutions, Inc.
2003 - September 2006	Potesta & Associates, Inc.
2002 – 2003	Snap Creek Mining, Inc.
1999 – 2002	WV Bureau for Public Health Office of Environmental Health Services, Source Water Protection Program
1997 - 1999	Christopher Consultants, Ltd.
1994 - 1997	Guyandotte Consultants, Inc.
1991 - 1994	Ark Land Company

PROFESSIONAL ORGANIZATIONS/AFFILIATIONS

- National Ground Water Association

PROFESSIONAL EXPERIENCE

ARCVIEW AND GIS MAPPING PROJECTS

- Developed multi-well database and performed Capture Zone Analysis for the U.S. Army Corps of Engineers. Project involved fate and transport modeling using GMS Software in support of an evaluation of an existing groundwater remediation system to show it was Operating Properly & Successfully (OP&S).
- Developed mapping in support of pending litigation related to flooding.
- Developed mapping in support of pending litigation related to air deposition of contaminants from industrial facilities.
- Implemented GPS programs, trained field staff using Trimble GeoExplorer and Trimble Pocket Global Positioning System (GPS). Training included data collection methods, environmental assessments, and mapping
- Generated mapping for mine subsidence and hydrologic conditions in support of mine permitting. Also mapped geology for the permitted mine area.
- Built GIS data layers of Zones of Special Concern and Wellhead Protection Areas for public water supplies in West Virginia.
- Delineated watershed areas for surface water systems.
- Developed the West Virginia Source Water Information System (WVSWIS), Microsoft Access module which incorporated GPS data, digital photographs, and other site specific information into a single GIS using Microsoft SQL and ArcSDE to store spatial data in a geodatabase model.
- Trained field staff to perform environmental assessments, use of GPS, notebook PCs, and Microsoft Access module.
- Delineated Zones of Critical Concern (ZCC) for WV Bureau of Health based on 5-hour

travel time at 90% of high flow using GIS.
- Created and maintained a database for the locations of public water supply facilities, including water intakes, wells, and springs.
- Created mine planning and reserve maps. Mapped and reported coal reserves. Generated mine-specific maps of roof and floor geology. Calculated overburden ratios for surface mines.
- Created and maintained spatial database on coal reserve holdings and managed core hole database for quantitative and qualitative coal modeling.
- Managed drilling program for large surface coal mine, including obtaining property exploration permits, scheduling road construction and working with drilling company.
- Planned large-scaled GPS project for survey control and mine construction.
- Determined reclamation cost estimates for old deep mines.
- Coordinated with field surveyors on several designs on a railroad crossing, several valley fills, mine punch-outs and road construction.
- Worked with PLS and performed boundary surveys.
- Worked with design team to design roads and travel ways to meet WVDOT specifications.
- Generated detailed topographic maps based on survey notes and SCR-33 electronic data collector using Carlson's SurvCADD 200 field to finish features.

ENVIRONMENTAL SITE ASSESSMENTS, RISK ASSESSMENTS, AND REMEDIATION

Mr. Elkins has performed or performed tasks in support of the following project types related to environmental assessment and remediation:

- *Leaking Underground Storage Tank (UST) Sites*
- *Phase I ESAs – Property Transactions*
- *Phase II ESAs*
- *Spill Cleanup and Emergency Response*
- *CERCLA/ Superfund*
- *Energy and Resource Extraction*
- *Permitting and Compliance*

VOLUNTARY REMEDIATION AND REDEVELOPMENT (WVDEP "BROWNFIELD")

Mr. Elkins performed various site assessment and data management on behalf of Licensed Remediation Specialists, for various Brownfield/Voluntary Remediation Program (VRP) sites in West Virginia.

These multi-disciplinary projects involved environmental site assessment, risk assessment, remediation work plan preparation/design, remediation work plan implementation, and follow-up reporting and/or monitoring.

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Neil A. Capper
Environmental Scientist
Certified Asbestos Inspector
nacapper@enviroprobeinc.com

AREAS OF SPECIALIZATION

Mr. Capper is an Environmental Toxicologist/Scientist for EnviroProbe Integrated Solutions, Inc. (EnviroProbe). EnviroProbe is a woman-owned professional engineering, environmental consulting, and drilling/direct-push firm. Mr. Capper has worked in the environmental consulting industry prior to, during, and following his higher education.

ENVIRONMENTAL ASSESSMENT, REMEDIATION AND MANAGEMENT

Mr. Capper offers a combination of project management, technical expertise and leadership experience in the environmental consulting industry. He possesses experience with a variety of environmental projects for various private, retail/commercial, and industrial clients, as well as state and federal government agencies. His related experience and expertise is comprised of completing numerous projects which have included:

- Phase I/II Environmental Site Assessments
- Solid/Hazardous Waste Management
- Watershed assessments
- Asbestos Inspections
- Phase I Environmental Site Assessments
- Phase II Environmental Site Assessments
- "Brownfield" Voluntary Remediation
- GIS and related applications
- LUST Site Assessments
- SPCC Plans and Spill Response
- Soil - Groundwater Remediation
- Remediation Planning
- Stream habitat assessments
- Air monitoring
- Asbestos Abatement Monitoring
- Health and Safety Plan Monitoring
- Environmental Compliance Audits
- Permitting and Regulatory Liaison
- LUST Corrective Action Plans
- Surveying and mapping

EDUCATION AND REGISTRATION

- **M.S. Environmental Toxicology**. 2006. Clemson University. Pendleton, SC
- **B.S. Marine Science (Minors in Environmental Science and Chemistry)**. 2004 Coastal Carolina University. Conway, SC
- 40 Hour OSHA Hazardous Waste and Emergency Response (Current 8-hour Refresher)
- WV Asbestos Inspector

EMPLOYMENT HISTORY

June 2007 - Present	EnviroProbe Integrated Solutions, Inc.
September 2006 – June 2007	Triad Environmental Consulting, Inc.
August 2004 – May 2006	Graduate Research Assistant – Clemson University
August 2003 – May 2004	Laboratory Assistant – Coastal Carolina University

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Neil A. Capper
Environmental Scientist
Certified Asbestos Inspector
nacapper@enviroprobeinc.com

PROFESSIONAL ORGANIZATIONS/AFFILIATIONS

- Licensed Lead Inspector and Lead Risk Assessor
- Licensed Asbestos Inspector

PROFESSIONAL EXPERIENCE

ENVIRONMENTAL SITE ASSESSMENTS, RISK ASSESSMENTS, AND REMEDIATION

- *Leaking Underground Storage Tank (UST) Sites*
- *Phase I ESAs – Property Transactions*
- *Phase II ESAs – Primary Site Assessments, Free Product Recovery and Reporting, Corrective Action Plans*
- *Spill Cleanup and Emergency Response*
- *Permitting and Compliance*

WATERSHED WATER QUALITY MONITORING

- *Live organism cultures*
- *Stream electro-shocking and fish/organism sampling and identification*
- *Stream habitat assessments*
- *Water and sediment sampling*
- *Installation and maintenance of automatic samplers*

ASBESTOS INSPECTIONS AND ABATEMENT

- *Asbestos Sampling and Report Preparation*
- *Air Monitoring following OSHA and NIOSH Guidelines*
- *Asbestos Abatement Monitoring and Reporting*

VOLUNTARY REMEDIATION AND REDEVELOPMENT (WVDEP "BROWNFIELD")

Mr. Capper performed various site assessment and data management on behalf of a Licensed Remediation Specialist, for various Brownfield/Voluntary Remediation Program (VRP) sites in West Virginia.

These multi-disciplinary projects involved environmental site assessment, risk assessment, remediation work plan preparation/design, remediation work plan implementation, and follow-up reporting and/or monitoring.

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Ronda J. Moore
Vice President
Contract Specialist
rjmoore@enviroprobeinc.com

AREAS OF SPECIALIZATION

Ronda Moore is the Vice President and Contract Specialist for EnviroProbe Integrated Solutions, Inc. (EnviroProbe). EnviroProbe is a drilling/direct-push, professional engineering, and environmental consulting firm.

FINANCIAL SERVICES AND CONTRACTS

Ms. Moore is responsible for the financial services/accounting staff and contract adiministration at EnviroProbe. She is experienced and responsible also for contract administration, human resources, insurance, and other administrative tasks.

EDUCATION AND REGISTRATION

- Bachelor of Science, Business Administration (Accounting Major, Economics Minor)
  - Glenville State College (Glenville, WV), 1988

EMPLOYMENT HISTORY

March 2007 - Present	EnviroProbe Integrated Solutions, Inc.
1996 – 2007	Putnam General Hospital
Chief Financial Officer	
Chief Operating Officer	
Interim Chief Executive Officer	
Controller	
1994 – 1996	Columbia River Park Hospital- Controller
1992 – 1994	Rucker & Associates, Inc. - Controller

PROFESSIONAL ORGANIZATIONS/AFFILIATIONS

- Leadership Putnam County 2003
- President, Putnam Area Kiwanis 2004-2005
- Vice President, Putnam Area Kiwanis 2003-2004
- Board Member, Big Brothers, Big Sisters of Kanawha/Putnam Area
- Member, American College of Healthcare Executives
- Member, Healthcare Financial Management Association

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ENVIROPROBE
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Roy C. Henderson
Sr. Environmental Technician
Certified Well Drilling
Certified Asbestos Inspector

AREAS OF SPECIALIZATION

Mr. Henderson is a Sr. Engineering/Environmental Technician for EnviroProbe Integrated Solutions, Inc. (EnviroProbe). EnviroProbe is a woman-owned drilling/direct-push, professional engineering, and environmental consulting firm.

ENVIRONMENTAL SERVICES

Mr. Henderson offers significant experience in various engineering and environmental projects. Specifically, Mr. Henderson has direct experience with proper sampling of environmental media, asbestos inspections, design/build of soil and groundwater remediation systems, construction management, Phase I and II Environmental Site Assessments, NPDES Stormwater and Groundwater Protection Plans, air monitoring, leaking underground storage tank (LUST) corrective action, Quality Assurance/Quality Control (QA/QC), and drilling in numerous geologic types using Geoprobe® direct-push technology and rotary drilling rigs. His related experience and expertise includes:

- Groundwater Protection Plans
- Asbestos Inspections
- Solid/Hazardous Waste Management
- "Brownfield" Voluntary Remediation
- SPCC Plans and Spill Response
- Well purging and sampling
- Construction Monitoring
- Chemical Process Controls
- Soil/Groundwater Remediation System O&M
- Mobile Remediation Trailer O&M
- Phase I/II Environmental Site Assessments
- Health and Safety Plan Monitoring
- Soil - Groundwater Remediation
- Environmental Compliance Audits
- Drilling and Direct-push Sampling
- Monitoring Well Installation

EDUCATION AND REGISTRATION

- B.A. Environmental Technology – Glenville State College, 1997
- Environmental Technology – Calhoun-Gilmer Career Center, 1995
- High School Diploma, Gilmer County High School
- 40 Hour OSHA Hazardous Waste and Emergency Response (Current 8-hour Refresher)
- 8 Hour OSHA Supervisor Training for Hazardous Waste Activities
- Certified Asbestos Inspector – West Virginia
- WVDEP Certified Well Driller (WV00271)
- Nuclear Density Gauge Safety Certification
- Fork Truck Certification

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Roy C. Henderson
Sr. Environmental Technician

EMPLOYMENT HISTORY

November 2007 - Present	EnviroProbe Integrated Solutions, Inc.
1998 – 2007	Potesta & Associates, Inc., Charleston, WV
1997 - 1998	REI Consulting, Inc., Beaver, WV
1997 (Intern)	NRCS, Glenville, WV
1996 (Intern)	Terradon Corporation, Nitro, WV

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Lash N. McGhee
Field Technician
Certified Monitoring Well Driller
Class B UST Remover

AREAS OF SPECIALIZATION

Lash McGhee is an Environmental Technician for EnviroProbe Integrated Solutions, Inc. (EnviroProbe). EnviroProbe is a woman-owned drilling/direct-push, professional engineering, and environmental consulting firm.

ENVIRONMENTAL SERVICES

Mr. McGhee began his career in the chemical manufacturing industry in 1976 before entry into the environmental services and petroleum construction industry in 1988. Mr. McGhee offers significant experience in various engineering and environmental projects. Specifically, Mr. McGhee has direct experience with proper sampling of environmental media, asbestos inspections, design/build of soil and groundwater remediation systems, construction management, Phase I and II Environmental Site Assessments, NPDES Stormwater and Groundwater Protection Plans, air monitoring, leaking underground storage tank (LUST) corrective action, Quality Assurance/Quality Control (QA/QC), and drilling in numerous geologic types using Geoprobe® direct-push technology and rotary drilling rigs. His related experience and expertise have include:

- Groundwater Protection Plans
- Solid/Hazardous Waste Management
- "Brownfield" Voluntary Remediation
- SPCC Plans and Spill Response
- Well purging and sampling
- Construction Monitoring
- Chemical Process Controls
- Soil/Groundwater Remediation System O&M
- Phase I/II Environmental Site Assessments
- Health and Safety Plan Monitoring
- Soil - Groundwater Remediation
- Environmental Compliance Audits
- Drilling and Direct-push Sampling
- Monitoring Well Installation

EDUCATION AND REGISTRATION

- High School Diploma, George Washington High School, 1973
- 40 Hour OSHA Hazardous Waste and Emergency Response (Current 8-hour Refresher)
- 8 Hour OSHA Supervisor Training for Hazardous Waste Activities
- WVDEP Underground Storage Tank Class A and B (#604) certification
- WVDEP Certified Well Driller (WV00008)
- Fork Truck Certification

ENVIROPROBE
INTEGRATED SOLUTIONS, INC.
DRILLING + ENGINEERING + ENVIRONMENTAL PROFESSIONALS

Lash N. McGhee
Field Technician

EMPLOYMENT HISTORY

May 2007 - Present	EnviroProbe Integrated Solutions, Inc.
2002 – 2006	Kemron Environmental Services, Inc. – Poca, WV
1997 – 2001	NESCO/NEC Inc. – South Charleston, WV
1988 – 1997	National Petroleum Testing Consultants – So. Charleston, WV
1976 – 1985	FMC Corporation – South Charleston, WV

630 Cross Lanes Drive
Nitro, West Virginia 25143
Telephone: (304) 776-6717
Fax: (304) 776-6769

TERENCE C. MORAN, P. E.

Senior Engineer

PROFESSIONAL REGISTRATION

Professional Engineer - West Virginia
Professional Engineer - Virginia

EDUCATION

M. S. Civil Engineering, 1989
West Virginia University

B. S. Civil Engineering, 1987
West Virginia University

EMPLOYMENT HISTORY

1999-Present Potesta & Associates, Inc.
1989-1999 GAI Consultants, Inc.
1987-1989 West Virginia University
1985-1987 West Virginia Division of Highways (summers)

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

National Society of Professional Engineers

AREAS OF SPECIALIZATION

Water supply projects, sanitary and industrial wastewater projects, abandoned mine lands projects, solid waste disposal facility design and permitting, and preacquisition site assessments of large (natural resources) properties.

PROFESSIONAL EXPERIENCE

- Project Manager/Project Engineer for more than 40 water supply projects involving design, permitting and construction of water treatment facilities, water line extensions, water storage tanks, booster stations, chlorine boosters, pressure reducing valve stations, service connections and providing fire flow demands. Tasks include client/contract management; mapping development; hydraulic design; geotechnical investigations; preparation of drawings, specifications, and cost estimates; preparation of Bureau of Public Health, Public Lands Corporation, United States Army Corps of Engineers, West Virginia Division of Highways, and NPDES permit applications; and construction observation/administration tasks such as full-time observation of construction, review of contractor submittals, review of contractor pay requests, and preparation of record drawings.

- Project Manager/Project Engineer for more than 20 private and public sanitary and industrial wastewater projects involving evaluation, design, permitting and construction of sanitary/industrial wastewater collection and treatment systems, including pretreatment facilities and outfall diffuser systems. Tasks include client/contract management; mapping development; hydraulic design; geotechnical investigations; preparation of drawings, specifications, and cost estimates; preparation of Bureau of Public Health, Public Lands Corporation, United States Army Corps of Engineers, West Virginia Division of Highways, and NPDES permit applications; and construction observation/administration tasks such as full-time observation of construction, review of contractor submittals, review of contractor pay requests, and preparation of record drawings.

- Project Manager/Project Engineer for the design and development of reclamation plans and feasibility studies for more than 60 abandoned mine land projects for the WVDEP, Office of Abandoned Mine Lands and Reclamation, and the Commonwealth of Virginia, Abandoned Mine Lands Program. Tasks include client/contract management; mapping development; hydrologic evaluations; reclamation design; subsidence evaluation and abatement; AMD evaluation and abatement; hydraulic design; geotechnical investigations; preparation of drawings, specifications, and cost estimates; preparation of Public Lands Corporation, United States Army Corps of Engineers, West Virginia Division of Highways, and NPDES permit applications.

- Project Manager/Engineer for more than 60 private and public solid waste disposal facility projects involving evaluation, design, permitting and construction of disposal cells, closures, and leachate management facilities. Tasks include client/contract management; mapping development; hydraulic design; geotechnical investigations; preparation of drawings, specifications, and cost estimates; preparation of solid waste and NPDES permit applications; and construction observation/administration tasks such as full-time observation of construction, review of contractor submittals, review of contractor pay requests, and preparation of record drawings.

- Environmental site assessments, including record searches and field investigations, for numerous sites in West Virginia, Ohio, and North Carolina. Specialization in large acreage tracts, including coal properties. Typical acreages have ranged from 1,000 acres to 65,000 acres and included assessment of AMD and properties including mine portals, mine shops and coal preparation plants.

PATRICK A. TAYLOR, P. E.

Senior Engineer

PROFESSIONAL REGISTRATION

Registered Professional Engineer, WV Board of Professional Engineers

EDUCATIONAL BACKGROUND

M.S. Marshall University - Engineering Management, 2006

B.S. University of Florida (Gainesville) - Civil Engineering, 1988

Administration - United States Air Force Technical School

EMPLOYMENT HISTORY

2007-Present Potesta & Associates, Inc.
2000-2007 WV Dept. Of Health and Human Resources
1997-2000 Summit Engineering, Inc. , Charleston, WV
1997 Pyramid Consultants, Inc., Elkview, WV
1995-1997 Haworth, Meyer and Boleyn, Inc., South Charleston, WV
1989-1995 GAI Consultants, Inc., Pittsburgh, PA and Charleston, WV
1979-1983 United States Air Force

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers
The Society of American Military Engineers

AREAS OF SPECIALIZATION

Water and wastewater project management/funding coordination, hydrologic and hydraulic engineering, fluid mechanics, and sediment transport; site development design; conceptual and final designs for chemical, utility, and municipal solid waste disposal sites; abandoned mine lands reclamation projects; environmental permitting; construction plans and specifications.

PROFESSIONAL EXPERIENCE

Site Development and Stormwater Management

- Preliminary design of a stormwater management system and grading plans for a regional mall. Evaluation of several drainage alternatives and pond designs for a site containing numerous wetlands.

- Preliminary design of a stormwater management system and grading plans for a regional mall.

- Analysis and design of stormwater management for six separate sites, two of them shopping centers, including storm channels, surface and subsurface stormwater detention facilities, culverts, and pipe sizing design.

- Preparation of construction specifications for railroad line construction, including erosion and sediment control, culvert installation and subgrade compaction.
  – Vaughan Railroad.

- Storm water analysis on existing and future developments of residential watershed in Charleston, West Virginia. Preliminary design of channels, culverts, and flood detention structures. Preparation of design report in which various alternative hydraulic structures were compared with respect to cost and constructability.
  – City of Charleston

Coal Mining, Permitting and Abandoned Mine Lands Reclamation

- Analysis and design of stormwater channels, culverts, energy dissipation systems, and dewatering underdrain systems for two landslide and two coal refuse regrading projects.
  – West Virginia Department of Environmental Protection

- Primary engineer for Bear Run project, consisting of regrading of three coarse coal refuse piles, and re-establishing eight fine coal refuse impoundments with breached embankments into wetland areas, each connected by a designed stream channel in Gilmer County, West Virginia. Project included preparation of conceptual report based on field reconnaissance for Bear Run abandoned mine reclamation project; and evaluation of several hydrologic reclamation

alternatives to include wetland and channel locations and re-establishment of impoundments. Project also included hydrology and final design of grading plans to include slope stability, and hydraulic structures to include channels, culverts, impoundments and spillways, dewatering underdrains, and energy dissipation systems, and quantity and cost analysis.
  - West Virginia Department of Environmental Protection, Abandoned Mine Lands Reclamation (WVDEP-AML) (Ducks Unlimited Award Winner)

- Performed technical support/review in the preparation of surface and underground coal mine permits, including mine planning, incidental boundary revisions, hydraulic/hydrologic design, fill design and geologic analysis. (Two permits were for 1,400 and 1,700-acre surface mines.)

- Managed office/technical support staff on various coal-related projects, including the design, plan and permit preparation, cost estimates, hydrologic/hydraulic design, valley fill design/quantification and slope stability and belt-line layout.

- Performed mineral appraisals for the West Virginia Division of Highways to determine potential impacts to coal reserves and mining due to construction of new roadways.

Hydrology and Hydraulics

- Complete hydrologic/hydraulic design of two coal refuse slurry impoundments, including design/permit preparation for sedimentation ponds, collection/diversion channels, slurry pond decant systems, under drain systems, filter diaphragm systems and emergency spillways.

- Participated in utility relocation planning for two local flood protection projects for Petersburg and Moorefield, West Virginia to include utility relocation design and quantity and cost estimation.

- Analysis and design of diesel-generated electric pump system for decant of slurry water for coal refuse impoundment.

- Design, installation, monitoring and analysis of data from a stream gage for a water supply study of a power generating plant owned by an independent power company.

- Drainage structure designs for various Pennsylvania Department of Transportation projects to include hydrologic analysis, storm channel and detention pond design.

Water and Wastewater Projects

- **State Permitting Program:** Direct and indirect supervision of professional engineers and administrative staff responsible for review and issuance of public water and wastewater, public swimming pool, agricultural waste construction permits and water vending machine permits.

- **Drinking Water Treatment Revolving Fund and State Tribal Assistance Grant Programs:** Direct and indirect supervision of professional engineers

and administrative staff overseeing loan and grant administration, including technical and financial review, project selection, coordination with appropriate federal and state agencies (environmental and funding) and public water systems; coordination of bid advertising, loan closing, construction administration (processing of invoices, change orders, etc.), and water system adherence to loan conditions. Program responsible for preparation of program grant applications and reporting to EPA, including annual reports, disadvantaged business enterprise reports, and intended use plans. Program responsible for oversight of 2% Technical Assistance grant with the West Virginia Rural Water Association which provides continuing education to water treatment plant operators and oversight of the 4% Administrative set-aside to Water Development Authority in financial management of the Drinking Water Treatment Revolving Fund.

- **Capacity Development Program:** Indirect supervision of program manager and professional staff that assess, report on and provide assistance on the technical, financial and management capabilities of public water systems. Responsible for the oversight of program adherence to capacity development strategy, Governor's Report, and annual reports to the EPA.

- **West Virginia Infrastructure and Jobs Development Council:** Oversight of water technical review committee for infrastructure water projects and member of sewer committee, and sitting member of the Funding and Infrastructure Council. Oversight of technical assistance/review for infrastructure water projects and wastewater preliminary applications; representing Bureau of Public Health in committee and council meetings. Sitting member of consolidation committee.

- Project engineer on seven waterline extension projects, including two WVDEP-AML projects in central and southern West Virginia. Projects contained waterline, tank and booster station design, preparation of contract bid documents, and construction management.

- Developed 201 Facilities Plan for $28 million wastewater collection and treatment project in Logan County.

Landfills

- For municipal and industrial landfills, performed engineering for various proposed and existing landfills to include design for leachate impoundments, expansions and new permits comprising of plans and specifications and coordination of field activities associated with earth moving for construction.

- Key participant in engineering management of solid waste landfill in Monongalia County, West Virginia, including analysis of technical and economic alternatives of the storage and expansion capacity of landfill and feasibility study of solid waste alternatives to include recycling, transfer station, composting facility and expansion to a composite liner system.

- Design of leachate impoundment for landfill, including specifications and drawings. Coordinated field activities associated with earth moving for construction of HDPE composite liner system.

- Analysis and design of capping system and appurtenant hydraulic structures for landfill, and preparation of grading plans, detail drawings, specifications, cost analysis, and application for closure. Alternative synthetic liner systems were evaluated in the capping system design, including analysis of slope stability.

- Design of two solid and one industrial waste landfills, including analysis of sedimentation controls and hydrologic analysis, design of liner system, sediment and leachate ponds, decant structures, sedimentation channels, grading and underdrain system. Also provided drawings and specifications for design and permitting package.

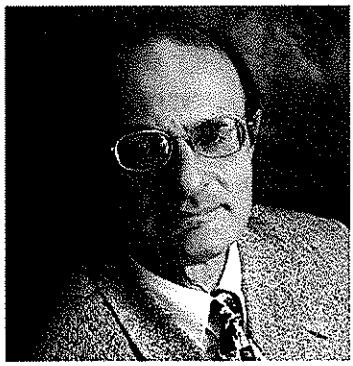
- Analysis of infiltration characteristics of cover materials for closure of an industrial sludge basin using HELP model computer system.
  – American Cyanamid

Natural Gas Pipeline

- Preparation of environmental management and construction plans/reports to comply with the FERC regulations, including environmental design.

VINCENT J. AMMIRATO, P. E.

Senior Engineer



PROFESSIONAL REGISTRATION/CERTIFICATION

Professional Engineer - West Virginia, Ohio, Pennsylvania, Virginia and Georgia

OSHA 30 Training

EDUCATIONAL BACKGROUND

B. S. Civil Engineering, 1970
Rose-Hulman Institute of Technology
Terra Haute, Indiana

EMPLOYMENT HISTORY

2000-Present	Potesta & Associates, Inc.
1973-2000	Columbia Gas Transmission Corporation
1969-1974	Consumers Power Company

AREAS OF SPECIALIZATION

Conceptual and final design of gas compressor and treatment plants, gas engine and dehydration emission control systems, environmental permitting and programs, Spill Prevention Control and Countermeasure (SPCC) Plans. Thirty years experience in the natural gas industry.

PROFESSIONAL EXPERIENCE

- Provided detailed engineering design for more than 20 natural gas compressor unit installations (additions and new station construction) including preparing scopes of work, construction estimates, equipment specifications and selection, site and plant layout. Responsibilities included all phases of planning, design, and project management. Designs were performed for engine/compressor unit cooling, lubrication, fuel gas, hydraulic, exhaust and air intake systems. Plant piping designs were performed for acoustic pulsation damping., vibration reduction and pipe flex analysis, flow and pressure drop calculations. Design calculations were performed for building and equipment foundations, structural steel and pressure piping and vessels. Equipment specifications and selection included heat exchanger, air intake and exhaust systems, main and auxiliary buildings, HVAC, control valves, air compressors and driers.

- Provided detailed engineering design for natural gas dehydration and treatment facilities. Responsibilities included equipment specification and selection, site planning, construction budgeting and scheduling.

- Permitted new and modified air sources in 14 states, including engines, turbines, heaters, generators, gas processing plants and emission control devices. Permits were for major and minor applications, PSD review, BAT, RACT, MACT and LEAR reviews and Title V. Also, responsibilities included preparing permit assessments allowing the operating company to install or modify equipment that would meet construction schedules and budgets.

- Installation of emission control equipment on existing natural gas compressor engines to comply with RACT requirements under Title I of the Clean Air Act Amendment of 1990. Project elements were determining regulatory requirements, determining existing equipment emission rates, obtaining air permits, and selecting and installing emission control equipment. Responsibilities included assessing all existing gas engines located in non-attainment areas, establishing and managing the program budget, working with state regulatory agencies, contracting and managing installation of equipment and compliance testing. This program resulted in installation of Nox emission control systems on 15 engines.

- Installation of emission control equipment on existing natural gas dehydration units to comply with MACT requirements under Title III of the Clean Air Act Amendment of 1990. Project Required evaluation of all dehydration plants in

the operation selection and construction of control equipment, obtaining air permits, establishing and managing a construction budget and schedule. Results of the program were installation of 20 systems for the control of hazardous air pollution.

- Developed an integrated environmental compliance management program for permit compliance, including testing, regulatory analysis, monitoring, record keeping, report writing, equipment and emission inventories and permit compliance testing. Additionally, a computer database program was developed to maintain and collect equipment specifications, operating and emission data and for notifying, tracking and reporting permit compliance tasks requirements for completion.

- Performed regulatory review of new and pending regulations with potential to affect the natural gas industry and developed an assessment of its impact on company operations. Significant amount of work was conducted on review of Nox and MACT emission control requirements. Work included preparing and submitting comments and meeting with state and federal regulatory agencies.

- Established a program for Columbia Gas to join USEPA's Natural Gas STAR program. This required developing, assessing and reporting on methods of achieving reductions of methane emissions. As a result of the effort, the USEPA selected Columbia as winner of the "Partner of the Year" award in its first year of participation.

- Evaluated underground and aboveground storage tanks for compliance with state and federal regulations and implementing corrective measures when needed. Project Scoipe covered inventorying and assessing over 2,400 tanks located in five states.

- Provided expert witness testimony involving foundation stability.

- Prepared hydraulic and hydrologic analysis and design for townhouse development in St. Albans, WV.

- Prepared hydraulic and hydrologic analysis for pending court case involving landslide damage to landowner's property.

- Hydraulic and hydrologic analysis for NPDES Permit for 327-acre site development required for a new highway and high school.

- Design of sanitary water system for recreational housing development and motel to be located in Tucker County, West Virginia.

- Prepare analysis of underground gasoline pipe failure for pending court case.

- Conduct Phase I Environmental Site Assessment for vacation home housing development in Greenbrier County.

- Prepared insurance damage assessment for medical office building resulting from a fire.

- Prepared insurance damage assessment for medical office building following a hot water boiler failure.

- Conducted a site assessment of a sports complex that was being purchased by a high school for use as a gymnasium.

- Prepared construction and right-of-way drawing in accordance with the West Virginia Division of Highways Standards and Specifications for 0.625 miles of access road for an industrial park located in Wood County, WV.

- Served as Project Manager for CQA of a sanitary landfill located in Brooke County, WV.

- Structural design for repair to retaining wall using rock tie-back anchors. A section of a 200-foot long steel soldier beam and concrete lagging retaining wall had exhibited signs of movement. A system of rock tie-back anchor was designed and installed to secure the wall.

- Project Manager/Project Engineer for wastewater projects involving evaluation of treatment systems, facility design, permitting and construction of sanitary wastewater collection and treatment systems, including pretreatment, wastewater treatment plants (WWTP), sludge management and effluent outfalls. Tasks included client/contract management, mapping development, hydraulic design, geotechnical investigations, site and facility layout, preparation of drawings, specifications, and cost estimates. Permitting activities included preparation of permit applications for West Virginia Department of Environmental Protection NPDES WWTP discharge and construction permits, State of West Virginia Office of Environmental Health Services, Public Lands Corporation, U.S. Army Corp of Engineers, West Virginia Department of Highways and Rail Road Crossing. Reviewed contractor submittals, and contractor pay requests and preparation of record drawings. Project specific details on wastewater projects are listed below:

  - Old Standard Subdivision – A new residential subdivision located in Jefferson County, West Virginia included 7,300 feet of force main and 4370 feet of gravity main, a WWTP and 1,380 feet of effluent line to an outfall at the Shenandoah River. The WWTP for this project is based on an activated sludge membrane bioreactor (MBR) process designed to meet Chesapeake Bay Standards. The plant is designed to treat a daily average flow of 50,000 gallons per day (gpd) and is expandable to 250,000 gpd.

  - Charles Town Races & Slots – A new WWTP to provide service at the race track and gaming facility in Jefferson County, West Virginia. The WWTP for this project is based on a sequencing batch reactors (SBR) process supplied by Aqua-Aerobics Systems, Inc. Tertiary filtration and chemical treatment (ferric chloride and polymer) is provided to meet Chesapeake Bay standards for nutrient removal. Initial design flow is for 250,000 gpd which is expandable to 325,000 gpd. An effluent line to an outfall to at Flowing Springs Run was provided from the WWTP.

- Highland Farms Subdivision – A new residential subdivision located in Jefferson County, West Virginia included 3,700 feet of gravity main, a WWTP and 1,091 feet of effluent line to an outfall at the Shenandoah River. The WWTP for this project is based on an activated sludge membrane bioreactor (MBR) process designed to meet Chesapeake Bay Standards. The plant is designed to treat a daily average flow of 250,000 gpd and is expandable to 500,000 gpd.

- Tackley Mill Development – A new residential/commercial development located in Jefferson County, West Virginia including a WWTP and approximately 2.3 miles of effluent force main to an outfall on Elk Branch. The WWTP for this project is based on an activated sludge membrane bioreactor (MBR) process designed to meet Chesapeake Bay Standards. The plant is designed to treat a daily average flow of 706,000 gpd and is capable of being expanded to 1,000,000 gpd. The WWTP will be constructed in phases of 250,000 gpd, 500,000 gpd and 706,000 gpd.

- Coolfont Village Development – A new residential/commercial development located in Morgan County, West Virginia including a WWTP and approximately 106 feet of effluent gravity main to an outfall on Sir John's Run. The WWTP for this project is based on an activated sludge membrane bioreactor (MBR) process designed to meet Chesapeake Bay Standards. The plant is designed to treat a daily average flow of 440,000 gpd. The WWTP will be constructed in phases of 100,000 gpd, 250,000 gpd and 440,000 gpd.

- Developed, prepared and certified over 100 Spill Prevention Containment and Countermeasure Plan for the following industrial sectors:

  - Natural Gas Compressor Stations
  - Natural Gas Storage Fields
  - Bulk Oil Storage Facilities
  - Coal Mining Operations
  - Coal Processing Facilities
  - Wood Processing Operations
  - Industrial Manufacturing Plants
  - Asphalt Batch Plants

- Project Manager/Project Engineer for site development plans for public housing complexes for the Charleston Housing Authority in Charleston, West Virginia. The project involved preparation of site grading plans, storm water management, retaining walls, utility plans and profiles, access roadway, construction drawings and specifications. Housing complexes developed include:

  - Renaissance Townhomes
  - Patrick Street
  - Jarrett Terrace
  - Orchard Manor

- Project Manager/Project Engineer for site development plans for three new residence halls and a new dining hall for Marshall University in Huntington, West Virginia. The project involved preparation of site grading plans, storm water management, utility plans and profiles, construction drawings and specifications.

RYAN W. ROBINSON

Project Scientist

EDUCATION

B. A. Criminal Justice
Marshall University

CERTIFICATIONS

Microsoft Certified Professional

EMPLOYMENT HISTORY

1999-Present Potesta & Associates, Inc.
1997-1999 H & C Technology

AREAS OF SPECIALIZATION

Geographic Information Systems (GIS) and applications; databases; site layout; watershed delineations.

PROFESSIONAL EXPERIENCE

- Created and managed a multi-user, multifunctional GIS, including purchase and set-up of all hardware and software.
- Delineated watershed areas for surface water systems.
- Utilized national databases to generate baseline mapping including National Wetlands Inventory (NWI) and soils for project planning.
- Performed Phase I Environmental Site Assessments.
- Created and maintained GIS databases for a variety of projects.
- Created three-dimensional terrain models using ArcView *3-D Analyst*.
- Assisted with the layout of power line for wind energy project using GIS, Digital Orthophoto Quadrangles (DOQ) topographic mapping and Global Positioning System (GPS) data.
- Created groundwater potentiometric surface mapping for U. S. Army Corps of Engineers project, RCRA Corrective Action Project and various LUSTand Voluntary Remediation Projects.
- Created groundwater and soil contamination mapping using *Equis* environmental data management software sample data.
- Displayed undermined areas in relation to proposed development by georeferencing available mine workings maps using GIS.
- Created mapping for site inventory and ranking for USEPA Brownfields Assessment project for mine-scarred lands.
- Created topographic contour mapping using Digital Elevation Models (DEM).
- Developed multilayer GIS mapping for wind energy project applications in accordance with West Virginia Public Service Commission guidelines.

JARRETT SMITH, P. E.

Engineer I

EDUCATION

B. S. Civil Engineering, 2002
West Virginia University
Institute of Technology

A. S. General Science, 2000
West Virginia University

EMPLOYMENT HISTORY

2003-Present Potesta & Associates, Inc.
2001-2002 WV Department of Transportation
District 3 - Design/Field Inspector

PROFESSIONAL REGISTRATION

Professional Engineer, WV Board of Professional Engineers

CERTIFICATIONS

40-Hour Hazardous Waste Training
Troxler Nuclear Density Equipment Operator, 2008

PROFESSIONAL AFFILIATIONS

National Society of Professional Engineers

AREAS OF SPECIALIZATION

Involved in many areas of civil engineering. Project responsibilities include civil site design, hydrologic and hydraulic design; grading plans; water line plans; sewer line plans, roadway layout, utility design, and stormwater management plans.

PROFESSIONAL EXPERIENCE

- Detailed design, preparation of construction drawings, technical specifications, cost estimate, contractor's bid documents, review and recommendation of contractors' bids, and review of shop drawings.
  - Tucker County Industrial Park - water and sewer line extension
  - Allegheny energy Supply's Fort Martin Power Station - fly ash landfill expansion project
  - ZMM-Bradshaw High School project
  - Dunlap Builders - West Run Road Student Housing
- Involved in RCRA/Superfund process. Typical scope of work of projects included the development of detailed site specific quality assurance/quality control plans, health and safety plans, and review of analytical data. Created digital mapping with Arcview GIS 3.2a™ software and created contour/concentration maps using Surfer 8.0™ software for use in evaluation and remediation purposes for a RCRA Corrective Action site located along the Kanawha River.
- Civil/Site Design: Tasks include development of grading plans, cut/fill analysis, utility design/layout, engineer's cost estimates, preparation of permit applications, consulting with clients, architects, regulatory agencies, and municipalities.
  - Pison Development - 10 apartment complex projects
  - Double C Enterprise - Kenna Ridge Business Park
  - Tricor Development - Hurricane Market Place Parcels A and B
  - Green Eagle Development - four residential site development projects
  - Ervin Development - Woodstock commercial site development project
  - MDG Develpment - Oakland Subdivision (including low flow sewer analysis)
- Stormwater Management Design: Tasks include hydrological analysis, hydraulic evaluations of open and closed channel flow systems, storm sewer design, velocity dissipation analysis and design, stormwater retention/detention design, waer quality analysis and design, and sediment control structure design. Programs utilized during projects included Haestad Method Programs and SedCad Software.
  - Echo, Inc. - Tupper's Creek site development
  - Pison Development - six projects
  - Kenna Ridge Business Park
  - Hurricane Market Place

- Woodstock commercial site development
- Green Eagle - three projects
- O-N Mineral process pond
- RJ Recycling, LLC - Riverside Yard sediment/oil control ponds
- Dunlap Builders, Inc. - West Run Student Housing project

- Floodplain Management: Tasks included development of hydraulic modeling of watersheds for existing and proposed conditions using HEC-RAS and HEC-HMS to determine flood levels and the impact on the properties of local residents, overseeing of cross sectional surveying and mapping development. Project's scope included fill within the floodplain, new residential and commercial development within the floodplain, obtaining the original computer model of floodplain data from the United States Army Corps of Engineers, and coordination with local floodplain manager.

  - Pison Development - Mineral Manor apartment complex project
  - Copper Beech townhouse development project
  - Jo's Globe Distribution expansion project
  - Blue Ridge Builders - Cheat Landing Development

- Sewer/water distribution and collection system design and upgrades: Tasks included hydraulic calculations, storage tank sizing, pump station design, layout and selection of water/sewer line extensions, preparation of design drawings, specifications, and engineer's cost estimates.

  - Tucker County Industrial Park
  - City of Philippi, Barbour County
  - ZMM - Bradshaw High School project

- Environmental site assessments, including record searches and field investigations for numerous sites in West Virginia. Specialization in large acreage tracts, including coal properties. Typical acreages have ranged from 1,000 to 65,000 acres, and include assessment of acid mine drainage and properties including mine portals, mine shops, and coal preparation plants.

  - 17,500-Acre mining property in Fayette County, WV
  - 43,000-Acre mining property in Kanawha/Clay Counties, WV

- Supervisor and operator of Earthsoft's EQUIS database projects. Managed large amounts of analytical data related to a RCRA Corrective Action Facility, utilizing Earthsoft's Environmental Quality Information Systems (EquIS). Tasks included coordination amont various laboratories on the format and quality of the electronic data deliverables (EDDs) received. Importing and merging of received EDDs for use in warehousing and qualifying analytical data within EquIS Chemistry™ for site assessments, risk assessments, site characterization, and remediation projects. Performed data review and validation in accordance to quantifiable sections of the EPA Functional Guidelines and CLP programs using EarthSoft's Data Qualification Module™ (DQM). Managed environmental geology data and created geologic cross-sections, contours, solid modeling, boring logs, and reports using EquIS Geology™ RockWorks99™, and logPlot98™, and Surfer 8.0™. Presented multi-data crosstab reports using EquIS CrossTab Report Writer interface. Built multiple layer maps,

contaminant maps, and query-specific analytical data presentation through EquIS Arcview Interface.

- Involved in RCRA/Superfund process. Typical scope of work of projects included the development of detailed site-specific quality assurance/quality control plans, health and safety plans, and review of analytical data.

JOHN WESLEY MCDONALD III

Staff Scientist I

EDUCATION

B.S. Animal/Veterinary Science, West Virginia University, Morgantown, WV

B.A. Education (teaching certification in Chemistry and Physics), Glenville State College, Glenville, WV

B.A. Chemistry, West Virginia University, Morgantown, WV

Graduate level studies in Health and Safety and Industrial Hygiene

EMPLOYMENT HISTORY

2003-Present Potesta & Associates, Inc.
2002-2003 Valley High School, Smithers, WV.
2001-2002 REIC Laboratories
1997-2001 Dow/Union Carbide South Charleston, WV
1997 Meadow Bridge High School, Meadow Bridge,WV
1991-1997 Whitewater Professional
1987-1991 U. S. Army

AREAS OF SPECIALIZATION

Third party analytical data validation; Environmental Quality Information System (EQUIS) database management; Geographic Information Systems (GIS) and applications; construction observation; Phase I Environmental Site Assessments; air permit preparation; analytical analysis; and teaching.

PROFESSIONAL EXPERIENCE

- Performed construction monitoring duties for the construction of a new landfill cell at the Nicholas County Landfill.
- Observed geotechnical drilling and logged soil and rock core samples for evaluating site development alternatives and foundation stability of construction sites at Kenna Business Park in Kenna, West Virginia, and Beaver Creek Compressor station in Garrett, Kentucky.
- Prepared Quality Control Plans for various United States Army Corps of Engineers projects.
- Prepared Health and Safety Plans for various United States Army Corps of Engineers projects.
- Prepared a Remedial Action Report pertaining to a soil excavation and bioremediation project for the United States Army Corps of Engineers.
- Conducted Phase I Environmental Site Assessments of proposed construction sites.
- Performed air permitting activities including Regulation 13 and Title V permit application preparation.
- Prepared mapping via GIS and ARCVIEW to model environmental data and to illustrate proposed work sites.
- Performed third party validation of analytical data (volatile organic compounds/semivolatile organic compounds by gas chromatography/mass spectroscopy, and polychlorinated dibenzodioxins/furans by high resolution mass spectroscopy) according to USEPA criteria.
- Performed electrofishing in support of various fish surveys in Kentucky and West Virginia.
- Performed stream habitat assessment utilizing EPA Rapid Bioassessment Protocol.

- Conducted polymerization experiments as part of a research and development team for Union Carbide Corporation/DOW Chemical.
- Analyzed water and soil samples by gas chromatography/mass spectroscopy for volatile organic compounds while employed by REIC Laboratories of Beaver, West Virginia.
- Collected water samples and performed chemical analysis with various instruments.

CHRIS C. JACKSON

Scientist I

EDUCATION

B.S. Environmental Science with Geology Concentration
Marshall University, 2000

M.S. Environmental Science,
Marshall University,
expected 2005

TRAINING

WV Licensed Asbestos Inspector
OSHA 40-Hour HAZWOPR Training
First Aid and Safety Training
Troxler - Density
Compaction/Radiation Training
Carl Koontz Associates, Opacity

EMPLOYMENT HISTORY

1999-Present Potesta & Associates, Inc.
1998-1999 Lowe's Home Improvement
1995-1996 Sheldon Burgess Community Center (summers)

AREAS OF SPECIALIZATION

Conducting Phase I and Phase II site assessments. Remediation report writing and sampling. Conducting asbestos inspections and report writing. Surveying, construction observation, and field work. Biological sampling, water chemistry sampling, GeoProbe sampling, field testing of materials.

PROFESSIONAL EXPERIENCE

- Performed site investigations and report writing of numerous Phase I site investigations to assess potential environmental concerns.
  - Numerous clients
  - Progress Energy, Inc. (various mine properties in Kentucky)
  - Kanawha River Terminals (KRT), Wayne County, WV
  - John Henry Tunnel Project, Summers County, WV
  - Evergreen Mining Company, Webster County, WV
  - The Elkhorn Coal Company, Prestonsburg, KY
  - THZ Enterprises, Berkeley County, WV
  - Panhandle Builders, Berkeley County, WV
- Phase II Site Assessments and sampling on numerous potentially hazardous sites, which include monitoring well installation/split-spoon sampling, Geoprobe® boring sampling, and groundwater sampling/monitoring.
  - Numerous clients
- Assisted in installation, startup and operation of dual-phase extraction treatment system in Chelyan, West Virginia.
- Performed building inspections, proposals, report writing of more than 50 asbestos inspections in general accordance with the procedures contained in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) standard, Title 40 Code of Federal Regulations Series 61, Subpart M and West Virginia Title 64 Code of State Regulations Series 63, "Asbestos Containing Materials (ACM)".
  - Numerous clients
  - West Virginia Department of Highways - WVDOH (statewide)
  - Logan General Hospital Properties, Logan, WV
  - URS Corporation, Inc., Charleston, WV
  - Spelter Iron Smelting Plant, Clarksburg, WV
  - American Red Cross, Charleston, WV
- Determined asbestos proposal and demolition costs on several structures on the Blue Creek and Alloy mine properties.
  - Arch Coal, Inc., Kanawha and Fayette Counties, WV

- Prepared written Corrective Action Plans (CAPs) for recommending and comparing applicable remediation technologies.
  - Go-Mart, Inc., Fairmont, WV
- Prepared quarterly groundwater monitoring reports.
  - Go-Mart, Inc., Numerous locations in WV
- Lead paint inspections on business/facilities renovating, remodeling or demolishing.
  - Numerous clients
- Diesel spill investigations and sampling.
  - Independence Coal Co., Boone County, WV
  - Elk Run Coal Co., Boone County, WV
- Monitored the removal of underground storage tanks (USTs) and soil screening and sampling.
  - Numerous clients
- Performed Environmental Compliance Assessments (ECAs) for mining properties.
  - Arch Coal, Inc., Logan County, WV
- Wetland delineation surveys for pipeline proposals and relocations.
  - Columbia Gas (numerous locations in WV, KY and OH)
- Opacity testing for Visual Emissions, Method 9.
  - Numerous clients
- Conducted leak detection and repair (LDAR) inspections for volatile organic carbons utilizing a flame iodization detector (FID) and visual confirmation techniques.
  - Parks Corporation, Lesage, WV
  - Dominion Gas, Clarksburg, WV
- Water well surveys, including the sampling of wells, springs, and cisterns and interacting with close proximity landowners/residences.
  - DuPont/URS Corp./Washington Works, Washington, WV
  - Desco Facility, former Colliers Industries, Colliers, WV

- Construction observation of Cabell County Water Line Extension project, Contract No. 6, in Cabell County, West Virginia.
  - West Virginia-American Water Company
- Construction observation of Cabell County Water Line Extension project, Contract No. 7, in Cabell county, West Virginia.
  - West Virginia-American Water Company
- GeoProbe and soil sampling of various contaminated industrial sites.
  - Numerous clients
- Surveying for property transactions and proposed utility pipelines, highways, landfills, and developments.
  - Various clients
- Benthic sample collection in streams impacted by coal slurry spill, Martin County, Kentucky.
  - Fish population sampling in streams impacted by coal slurry spill, Martin County, Kentucky.
- Water and sediment sampling in streams impacted by coal slurry spill, Martin County, Kentucky.
  - Martin County Coal Company

EMMA O. NOLAN

Scientist

EDUCATION

M.W.R. Master of Water Resources
University of New Mexico

B. S. Biology; minor in Chemistry,
New Mexico State University

EMPLOYMENT HISTORY

2008-Present Potesta & Associates, Inc.

2006-2008 Louisiana Department of Environmental Quality, Shreveport, LA

2002-2005 U. S. Geological Survey, Albuquerque, NM and Raleigh, NC

2000-2002 Clint Independent School District, El Paso, TX

CERTIFICATIONS

40-Hour OSHA HAZWOPER
West Virginia-accredited asbestos inspector

PUBLICATIONS

Langman, J. B. and Nolan, E. O., 2005. "Streamflow and Water-Quality Trends of the Rio Chama and Rio Grande, Northern and Central New Mexico, Water Years 1985 to 2002"; U. S. Geological Survey Scientific Investigations Report 2005-5118

PROFESSIONAL MEMBERSHIPS

Association of Water Professionals
American Water Resource Association

AREAS OF SPECIALIZATION

ArcGIS and computer modeling; water and air sampling; database management; statistical analysis; environmental science in general.

PROFESSIONAL EXPERIENCE

- Examined cumulative impacts using ArcView, Spatial Analyst, 3-D Analyst and Basins 4 to determine cumulative impacts (mining, oil and gas, and timbering) for various projects (area and linear footage of streams), soil mapping, and other project mapping needs such as viewshed analysis, creating, integrating, and maintaining data and/or maps that can be combined with geographically referenced data and can relate different types of data such as socioeconomic, land use, land cover, and other environmental data.
- Conducted site reconnaissance and assessment as part of a team to locate sources of selenium at a large mining facility located in Lincoln and Boone Counties, West Virginia. Over 500 water samples were collected over the course of the project. The coordinates of each sampling point were determined using a handheld GPS unit.
- Initiated and currently maintain a confidential Access database containing environmental data and calculations for a large energy company.
- Assisted with general field work including benthic macroinvertebrate and detritus leaf material collection and sediment respiration.
- Composed a Phase I Environmental Site Assessment for a property development company including deed and property history search and final report.
- Completed an application in accordance with the West Virginia Voluntary Remediation and Reclamation Act. Tasks included property records review and a site assessment of the leaking underground storage tank (LUST) facility.
- Managed the air and asbestos inspection program for the Northwest Regional Office of the Louisiana Department of Environmental Quality. Duties included scheduling and preparing inspections prior to site visit. Performed facility compliance inspections at schools, natural gas plants, compressor stations, refineries, tank farms, power plants, lumber mills, and various other industrial facilities. Additional inspections included fielding citizen complaints and responding to environmental emergencies. Completed projects included an inspection report, photographs, field interview form, and enforcement protocol documents if necessary.
- Designed environmental education activities for students in the Bosque Ecosystem Monitoring Program (BEMP). Activities and field work with or without a student group included rain gauge measurement; chemistry of ground water through observation wells; surface and ground water levels; insect, leaf litter, and woody debris surveys; and GPS surveys to determine ground water flow.
- Performed field and lab water testing, data and statistical analysis, and computer aided watershed delineations. Performed QA/QC on the regional Bio-TDB dataset for the New Mexico Regional Water Resources Division of the U. S. Geological Survey.

GARY BRIDGETTE

Technician

EDUCATION

Carver Vocational School, Charleston, WV

West Virginia State College, Institute, WV

TRAINING

OSHA 40-Hour HAZWOPR Training
First Aid and Safety Training
Certified Welder

EMPLOYMENT HISTORY

2003-Present Potesta & Associates, Inc.
1997-2002 Williams Union Boiler
1991-1996 Plasma Processing Corporation
1989-1991 Aluminum Metalworks
1986-1989 Martec, Inc.
1972-1986 Putnam Fabricating Co.

AREAS OF SPECIALIZATION

Sampling, construction observation, and field work.

PROFESSIONAL EXPERIENCE

- General construction and maintenance on a wide variety of projects.
- Equipment operation, including fork truck, drill press, cutting shears, crane, overhead crane, brake press and punch press.
- Construction observation and support for large-scale brownfields remediation project.