



March 12, 2009

WV Department of Administration
Purchasing Division
Building 15
2019 Washington Street, East
Charleston, WV 25305-0130
Attn: Accounts Payable Section

**Re: WVDEP RFQ to Provide Oversight/QAQC Services for the Removal of
Underground Storage Tanks (USTs)
RFQ Number DEP14601**

Please accept this quotation as URS Corporation's bid for the consideration of award of the contract to provide oversight/QAQC services for the removal of underground storage tanks (RFQ #DEP14601). For your review, we have submitted the resumes of sixteen (16) staff members as follows:

- Sotero Svingos
- Amanda Bayne
- John Liebig
- Dave Zwastetzky
- Chet Elewski
- Mike McCarthy
- Joel Keller
- Brad Carosone
- Jason Van Tassel
- Richard Moore
- Tom Dormer, Jr.
- Christopher Fisher
- Mark Holsing
- Bruce Skubon
- Dennis Roman
- Randy Crispino

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WV PURCHASING
DIVISION

All personnel assigned to this project will maintain current HAZWOPER training in accordance with the requirements of OSHA 29 CFR 1910.120. While not all proposed staff have direct experience in West Virginia, we trust you will concur that all have significant and relevant experience and all will prove to be very competent and capable individuals.

URS also requests that we be considered for Vendor Preference as reflected on the attached form.



URS appreciates your consideration to perform this work for the WV Department of Environmental Protection. As the responsible manager for this project, please contact me via phone at 304-757-6642 x103 (office) or 304-550-5459 (cell) or by e-mail at John_Smelko@urscorp.com, if you have any questions or require additional information.

Sincerely,
URS CORPORATION

A handwritten signature in black ink that reads "John J. Smelko".

John J. Smelko
Branch Manager – Scott Depot Office



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
 DEP14601

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 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 CHUCK BOWMAN
 304-558-2157

RFQ COPY
 TYPE NAME/ADDRESS HERE

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 ENVIRONMENTAL REMEDIATION
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/19/2009				

BID OPENING DATE: 03/12/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		946-20		
<p>OVERSIGHT/QAQC SERVICES</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WV DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING BIDS FROM QUALIFIED CONTRACTORS FOR A CONTRACT TO PROVIDE <u>OVERSIGHT/QAQC SERVICES FOR THE REMOVAL OF UNDERGROUND STORAGE TANKS (UST) AND ASSESSMENTS AT VARIOUS LOCATIONS IN WEST VIRGINIA PER THE FOLLOWING SPECIFICATIONS, BID REQUIREMENTS, TERMS & CONDITIONS, AND THE ATTACHED BID SCHEDULE.</u></p> <p>DUE TO THE EXPEDITIOUS MANNER IN WHICH THIS CONTRACT MUST BE EVALUATED, AWARDED, AND ADMINISTERED, THE AGENCY MUST REQUIRE THAT ALL SUBMISSIONS OF KEY PERSONNEL RESUMES BE INCLUDED WITH THE BID SUBMISSION. PLEASE REFER TO THE ATTACHED VENDOR CHECKLIST.</p> <p>FURTHERMORE; IT IS PREFERRED THAT ALL CERTIFICATES OF INSURANCE, LICENSES, ETC., REQUIRED PRIOR TO THE ISSUANCE OF THE PURCHASE ORDER/CONTRACT BE SUBMITTED BY THE SUCCESSFUL VENDOR(S) WITHIN 48 HOURS OF THE INITIAL REQUEST.</p> <p>A FORMAL QUESTION/COMMENT PERIOD WILL EXTEND UNTIL 4:00 PM, FRIDAY, FEBRUARY 28, 2009. ALL REQUESTS MUST BE DIRECTED TO THE BUYER IN WRITING PRIOR TO THE DEADLINE NOTED ABOVE. PLEASE SEE THE THE ATTACHED SPECIFICATIONS FOR DETAILED INSTRUCTIONS FOR QUESTION & COMMENT SUBMISSIONS.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>John J. Swelley</i>	TELEPHONE 304-757-0642	DATE 03/12/09
LE Branch Manager	FEIN 94-1716908	ADDRESS CHANGES TO BE NOTED ABOVE

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

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B: destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
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<p>PLEASE THOROUGHLY REVIEW THE FOLLOWING SPECIFICATIONS AND BID REQUIREMENTS AS WELL AS THE ATTACHED AGENCY RFQ SPECIFICATIONS WITH REGARD TO THE VENDOR BID SUBMISSION CHECKLIST.</p> <p>EXHIBIT 3:</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>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.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
LE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL.</p> <p>APPLICABLE LAW</p> <p>THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES AND REGULATIONS, AND THE INFORMATION PROVIDED IN</p>						

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<p>THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.</p> <p>ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000.</p> <p>EXHIBIT 10</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NOS. :</p> <p>NO. 1</p> <p>NO. 2</p> <p>NO. 3</p>						

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	NO. 4					
	NO. 5					
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>..... <i>John J. Smoller</i> SIGNATURE <i>V.R.S. Corporation</i> COMPANY <i>03/12/09</i> DATE</p> <p>REV. 11/96</p> <p>CONTRACTORS LICENSE</p> <p>WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.</p> <p>WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY</p>						

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<p>PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.</p> <p>BIDDER TO COMPLETE:</p> <p>CONTRACTORS NAME: <i>V.R.S. Corporation</i></p> <p>CONTRACTORS LICENSE NO.: <i>#WV003106</i></p> <p>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: CB-23</p> <p>RFQ. NO.: DEP14601</p>						

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LINE	QUANTITY	UOP	QAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
BID OPENING DATE: 03/12/2009 BID OPENING TIME: 1:30 PM PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: -----304-757-1677----- CONTACT PERSON (PLEASE PRINT CLEARLY): -----John J. Smelko----- Phone: 304-757-6642 X103 ***** THIS IS THE END OF RFQ DEP14601 ***** TOTAL:						

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DEP14601
RFQ SPECIFICATIONS

The West Virginia Department of Environmental Protection (DEP) is releasing this request for quotations (RFQ) to qualified vendors to conduct oversight of contractors during implementation of the removal of underground storage tanks (USTs) and assessments of leaking underground storage tanks (LUST) throughout the entire state of West Virginia. Contracts will be issued to up to three (3) vendors.

As part of this RFQ, a question and comment period will extend until 4pm on Friday, February 27, 2009. All questions or requests for clarification are to be sent in writing to the State Purchasing Division Buyer responsible for the advertisement of this Request for Quotation. **Vendors shall not contact the agency at any time during this advertisement.** Any new or clarifying information concerning the RFQ will result in an addendum being issued by the Buyer.

Please send all inquiries to: Chuck Bowman, Buyer Supervisor
West Virginia Purchasing Division
2019 Washington Street, East
PO Box 50130
Charleston, WV 25305
FAX: 304.558.4115
e-mail: charles.a.bowmanjr@wv.gov

Background of the Program

The West Virginia Department of Environmental Protection (WVDEP), Division of Land Restoration (DLR), Office of Environmental Remediation (OER) is responsible for oversight of Corrective Action at Leaking Underground Storage Tank (LUST) facilities. Under certain conditions WVDEP may use funds from the U.S. EPA to take action to protect human health and the environment when no owner or operator can be found or the owner/operator is not willing or able to take action. Sites that pose the greatest threat to health and the environment will be addressed to protect the citizens of West Virginia from the potential environmental harm caused by leaking underground storage tanks. It is the intent of this contract to have vendor to oversee limited site assessments and proper closure of abandoned petroleum leaking underground storage tank sites.

Scope of Work

On-site contractor is a contractor hired by WVDEP to perform tank removals and limited site assessment work. Vendor shall receive a copy of the on-site contractor assigned work directive and notice to proceed.

The vendor shall oversee the implementation of the removal of USTs and limited assessments performed by on-site contractors in accordance with their assigned work directives.

- A. Observe UST removal activities being performed by on-site contractor which include and may not be limited to:
- The removal and proper disposal of petroleum contaminated water, rinsate and / or product.
 - The transportation of petroleum contaminated water, rinsate and / or product to a disposal facility.
 - Purging vapors from the UST's to < 10% LEL.
 - Excavation and extraction of UST / piping from the ground.
 - Cutting openings and cleaning sludges from the UST.
 - Disposing / scrap cleaned UST's, disposal of tank cleaning sludges.
 - The proper stockpiling and confinement of petroleum contaminated soils.
 - Properly disposing of non-hazardous materials.
 - Backfilling excavations.
- B. Observe the collection and proper preservation of soil and water samples from the UST pit.
- C. Observe direct push activities and other assessment activities conducted by the on-site contractor.
- D. Observe all other activities by the on-site contractor according to their assigned work directives.
- E. Keep record of daily field activities which include but not limited to: field notes, site sketches, digital pictures, record of quantities used, and time sheets.
- F. Confirm by using a DEP provided sworn statement form that all work has been performed and that the job has been completed according to the specifications and time frames as stated in the on-site contractor's assigned work directive.
- G. Complete and submit a DEP provided on-site contractor evaluation form.

Requirements

The vendor shall furnish all necessary and appropriate personnel, materials, and services needed for, or incidental to, overseeing the UST removals and assessments.

The vendor selected to carry out this contract will:

- Have all field personnel complete the mandatory 40 hour health and safety training course, with annual refresher, in accordance with the requirements of the Occupational Safety and Health Administration 29 CFR 1910.120.
- ***Submit with bid the names and qualifications/resume of key personnel (actual personnel performing the oversight) that will be assigned to work on this project).***

Also submit the name and contact information for who is responsible and accountable for the vendor's overall operations shall be designated as a contact for WVDEP.

Individuals working for the vendor must have background work and experience in the following areas (must submit this information in their qualifications/resume along with their bid):

- 1) At least 5 years of experience in UST removals according to West Virginia State regulations and Federal regulations.
- 2) At least 5 years of petroleum environmental site assessments.
- 3) Knowledge of proper UST closure procedures in accordance with WVDEP closure policies, state and federal regulations.
- 4) Knowledge of 47CSR59 "Monitoring Well Regulations" and 47CSR60 "Monitoring Well Design Standards".

Bidding

Oversight Activities – A flat rate per hour will be the total charge to the state and will cover the full cost of all work hours including labor, travel and materials. The vendor will be contracted to provide "oversight" services on an "as needed" basis only.

Invoicing

The vendor will invoice DEP on a monthly basis. All invoices must be accompanied by a sworn statement detailing actual hours worked.

Vendor Registration

The apparent successful vendor must be registered prior to the award of an actual contract. To become a registered vendor you can call 304-558-2311 and obtain a Vendor registration and Disclosure Statement, Form WV-1.

Oversight

Work and services to be performed under this contract shall be subject to continuous monitoring and inspection by the State's authorized representatives.

Additional Information

Vendor shall be expected to oversee more than one project at a time. The contractor shall have sufficient staff to cover several work projects going on at the same time. Initially, DEP expects a high volume of projects to be performed in a limited amount of time.

Vendor/individual may not oversee a project in which their company is performing work as "on site primary or sub-contractor".

In accomplishing services to fulfill the requirements of this RFQ, the vendor/individual shall not create any adverse environmental effects, and shall be responsible for compliance with all

applicable local, state and federal environmental and occupational health and safety laws and regulations pertinent to the work.

WVDEP shall hold vendor harmless due to any negligence on part of the on-site contractor.

Ordering Procedure

- A. This is an indefinite quantity contract for QAQC services as specified in this RFQ for the period set forth herein. Delivery or performance shall be made in accordance with the provisions of this contract.
- B. Work will be ordered by WVDEP by issuance of a Work Directive which shall include the location of the project site and any and all other pertinent project information.
- C. A Work Directive may contain work directives for more than one site if the sites are in close proximity of each other.
- D. The Work Directive shall be awarded in the following manner:
 - To the first lowest awarded vendor.
 - The work directive will include an acceptance/refusal form that must be completed, signed and returned to the WVDEP by email or fax within specified time frames.
 - If the vendor accepts the work directive, then a work shall begin upon notice to proceed from DEP.
 - If the vendor refuses or does not return the acceptance/refusal form, the work directive will be offered to the 2nd awarded vendor and then to the next vendor in consecutive order of lowest bid until it is accepted and work is started.

Life of Contract

This contract becomes effective upon award and extends for a period of one (1) year or until such "reasonable time" thereafter as is necessary to obtain a new contract or renew the original contract. The "reasonable time" period shall not exceed twelve (12) months. During this "reasonable time" the vendor may terminate this contract for any reason upon giving the Director of Purchasing 30 days written notice.

This contract may be renewed upon the mutual written consent of the spending unit and vendor, submitted to the Director of Purchasing thirty (30) days prior to the expiration date. Such renewal shall be in accordance with the terms and conditions of the original contract and shall be limited to two (2) one (1) year periods.

Vendor Bid Submission CHECKLIST

RFQ# DEP14601

QA/QC & Assessment of Underground Storage Tanks (UST) and Leaking Underground Storage Tank (LUST) Removal

In an effort to aid the Department of Environmental Protection during the expedited evaluation and award period, the West Virginia Purchasing Division has developed the following vendor checklist for this advertisement. Please check-off the items below indicating your compliance.

Vendors MUST complete this checklist, sign, and date it for inclusion with their bid submittal. Failure to include this checklist and the additional requirements noted herein may result in disqualification of the vendor's bid.

- I have read & understand the scope of work as specified herein.
- I understand I may be required to oversee multiple project sites concurrently.
- I understand the method in which work directives will be issued as stated in the specifications.
- I have read & understand the mandatory requirements of the bid submission as specified herein.
- I have included the names and qualifications/resumes of key personnel who will be assigned to this project in accordance with the required criteria specified herein.
- I have or will have all field personnel complete the mandatory 40 hour health & safety training course in accordance with the requirements of OSHA 29 CFR 1910.120, prior to commencement of any issued work directive.
- I have entered my flat hourly billing rate inclusive of labor, travel, & materials in the space provided on the attached bid schedule.

Company Name: VRS Corporation

Signature: John J. Smelter

Date: 03/12/09

DEP14601
Bid Schedule

013

Company Name: URS Corporation

Address: #4 Mission Way, Suite 201

Scott Depot, WV 25560

The DEP reserves the right to request additional information and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1.0	500 hours	Oversight/QAQC Services	\$85.00/hr	\$42,500.00
TOTAL				\$42,500.00

Quantities listed above are for bid evaluation purposes only.

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

- 1. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: VRS Corporation Signed: John J. Lovell
Date: 03/12/09 Title: Branch Manager - Scott Depot Office

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

STATE OF WEST VIRGINIA
Purchasing Division

015

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: VRS Corporation

Authorized Signature: John J. Baeller Date: 03/12/09



Sotero L. Svingos, P.G.

Senior Geologist

Areas of Expertise

Soil/Groundwater Remediation
Geological Investigations
Environmental Site Assessments
UST Management
NEPA Compliance
Environmental Due Diligence

Years of Experience

With URS: 22 Years
With Other Firms: 8 Years

Education

BS/Geology/1981/Marshall
University

Registration/Certification

Professional Geologist – PA
Professional Geologist – TN
Underground Storage Tank Class B
Certification - WV certification
#B037

Overview

Mr. Svingos is a senior geologist who operates a field office near Huntington, West Virginia. Mr. Svingos has a wide variety of site investigation, monitoring, and remediation experience, and specializes in assessment and remediation of petroleum related impacts. He currently manages the remediation of several former bulk storage and petroleum retail facilities for a major oil company, and several of his sites include the initial approved application of certain innovative technologies in West Virginia.

Project Specific Experience

Mr. Svingos has experience in site assessments and remediation planning, ground water investigations, petroleum site investigation, remediation and closure. The following is representative of his experience:

Supervised the closure of five underground storage tanks for the West Virginia Department of Highways. Project included monitoring site activities of the contractor, soil and groundwater sampling, waste disposal documentation, and reporting. Remediation required at the site included the removal of approximately 5,200 y3 of petroleum contaminated soil which was landfarmed. Following a six month period of bioremediation, the biopile was sampled and a No Further Action for the DOH facility and biopile was issued by the WVDEP.

Conducted various phases of soil and groundwater assessments at numerous West Virginia Department of Highways maintenance facilities. Projects included soil and groundwater sampling for petroleum hydrocarbons, monitoring well installation, and recommendations for remediation.

Conducted soil and groundwater assessments at West Virginia Department of Highways maintenance facilities for chloride impacts from road salt storage systems. Assessments included soil sampling and installation and sampling of groundwater monitoring wells. Secondary Drinking Water Standards were used as an action level for chlorides in groundwater. Recommendations for remediation included soil removal, as well as risk assessment through the WVDEP Voluntary Remediation Program.

Supervised the closure of petroleum related USTs at over 25 West Virginia Department of Highways maintenance facilities. Projects included monitoring site activities under the WVDEP Class B Certification, soil sampling, waste disposal, and reporting to the WVDEP.

Conducted Phase I, Phase II, and FCC NEPA studies at proposed cellular tower locations in West Virginia. Conducted Phase I and II Environmental site assessments of a wide variety of commercial and industrial facilities in West Virginia and Kentucky.



Developed and implemented Phase I, II, and remediation work plans for 17 gas compressor stations and associated pipelines in cooperation with a state regulatory agency.

Participated in the environmental site assessment for real estate transfer of 228 natural gas wells, 23 gas measurement stations, and associated gathering systems. Field work involved review of each site and soil sampling of 37 sites for presence of petroleum hydrocarbons and mercury.

Supervised the environmental site assessment for approximately 1,000 feet of abandoned 8-inch subsurface petroleum product piping associated with a former refinery. Elements of the project included pipeline location, soil and groundwater assessment, and the installation of a soil vapor extraction system to mitigate soil and groundwater impacts. Activities also included the evacuation of residual product from the pipeline and subsequent pressure grouting for in-place abandonment.

Conducted soil and groundwater assessments at a liquid extraction plant for a natural gas transmission facility. Elements of the assessment included the installation and sampling of groundwater monitoring wells, the design and implementation of a soil sampling plan to assess extraction liquid containment areas, and soil and groundwater remedial recommendations.

Team leader for the environmental assessment of a natural gas production field. Responsibilities included gathering historical data, site reconnaissance, sampling, and report preparation.

Conducted site assessments for leaking UST (LUST) sites in accordance with the "Guidance Document for LUST Site Assessments and Corrective Actions". Project manager for characterization of leaking UST sites in Kentucky, Ohio, Tennessee, Virginia, and West Virginia in accordance with respective state corrective action guidance document requirements. Developed and implemented corrective action plans for the remediation of impacted groundwater and soil at sites in Kentucky, Ohio, Virginia, and West Virginia.

Performed site assessments and supervised UST closures for over 250 sites in one state. Prepared closure reports for submittal to the state's regulating agency.

Supervised installation of monitoring wells and subsurface soil boring to determine extent of petroleum contamination in soil and groundwater at a former bulk fuel facility. Responsibilities included subsurface soil sampling, groundwater sampling, slug testing to determine hydraulic conductivity of groundwater beneath the site, and report preparation.

Project manager for phytoremediation project at a former petroleum refinery. Elements of the project included the installation of 15,000 hybrid poplar trees over a 20 acre site to mitigate petroleum impacted soil and groundwater.

Participated in a soil and groundwater investigation for a former aviation gas and jet fuel tank farm at an airport.



Supervised installation of monitoring wells as part of a groundwater investigation for the presence of PCBs at a gas measurement facility. Responsibilities included subsurface soil sampling, groundwater sampling, and performing slug tests to determine hydraulic conductivity beneath the site. A report was submitted to the state's EPA Under the PCB Spill Cleanup Policy.

Conducted subsurface investigation at two retail facilities. Investigations involved the assessment of polynuclear aromatic hydrocarbons in soil and groundwater in cooperation with the Virginia Department of Environmental Quality.

Performed an environmental audit, including limited sampling, of four natural gas compressor stations. The audit was performed to assist in negotiations for sale of the properties. Key elements of the audit included safety issues, historical operations, SARA III reporting, air emissions, regulatory permitting, releases to the environment, SPCC plans, and construction materials.

Conducted surface soil sampling at a gas compressor station to determine the efficiency of remediation efforts.

Conducted monitor well sampling at gas compressor sites in three states to determine the extent of petroleum contamination in groundwater.

Developed a site specific health and safety plan for the remediation activities for the excavation of mercury contaminated soil at four sites. Directed the remedial activities of the contractor and performed confirmatory sampling following remediation.

Specialized Training

40-hour OSHA Health and Safety Training

8 Hour OSHA Supervisor Training

8 Hour American Red Cross Basic First Aid and CPR Training

Chronology

URS Corporation, Senior Geologist, 1985 – Present

Hydrologic Technician, U.S. Army Corps of Engineers (Hydraulics & Hydrology Branch), Huntington District, Huntington, West Virginia, 1983 – 1985

Geologist, John T. Boyd Co. Mining & Geological Engineers, Pittsburgh, Pennsylvania, 1978 – 1982



Areas of Expertise

- Geologic logging and water sampling
- Subsurface geological and hydrogeological interpretation

Years of Experience

With URS: 2 Years

With Other Firms: 3.5 Years

Education

B.S./Geology/2003/Pitt-Johnstown

Registration/Certification

N/A

Amanda L. Bayne

Project Geologist

Overview

Ms. Bayne has gained experience in geological logging and drafting during geotechnical and environmental investigations. She has gained diverse technical skills from projects involving ground water investigations and sampling, petroleum remedial investigations for industrial clients, and Phase I and II Environmental Site Assessments. Ms. Bayne is also wetland delineation and management trained. She has technical writing experience in preparing and reviewing environmental reports and records, field-based experience completing a wide range of environmental assessment and remediation activities, and experience in geologic characterization and interpretation.

Project Specific Experience

Subsurface Site Investigations relative to USTs and retail petroleum stations

Coordinated efforts and performed duties that encompassed subsurface and surface environmental investigations and remediation.

Obtained samples and information necessary for underground storage tank (UST) system removal, contaminated soil excavation, and general soil and water sampling using Pennsylvania Department of Environmental Protection (PaDEP) sampling protocol.

Prepared Pennsylvania UST Act 2 Site Characterization Reports (Phases I, II, and III), PaDEP UST Closure Reports, NPDES Discharge Monitoring Reports, Non-Use Aquifer Permit Applications, and PaDEP Groundwater Monitoring Reports utilizing CAP regulations and Act 2 Cleanup Standards.

Performed fate and transport analysis for several organic constituents as a requirement of site characterization and site conceptual model preparation. Models include Quick Domenico (QD) and SWload for streams.

Geotechnical and Environmental Subsurface Investigations

Supervised numerous subsurface investigations for various clients by means of installing monitoring and recovery wells and logging borings by use of hollow stem augers, air rotary, mud rotary, rock coring (NX, NQ, HQ) and direct push drill rigs. Work has occurred in multiple states across the US.



Drafted geologic cross sections and groundwater (potentiometric) contour maps from field work and boring logs.

Prepared reports for various clients detailing the subsurface investigations and field work activities.

Geophysical Surveys

Performed geophysical investigations including ground penetrating radar (GPR), electromagnetic surveys (utilizing an EM-31 and EM-61) and resistivity surveys for utilities markouts, underground storage tank locations and geologic interpretation.

Surface and Groundwater Investigations

Performed stream sampling of surface waters, monitoring wells, recovery wells, personal springs and personal water supplies for water quality determination for PaDEP and various clients.

Researched files containing applicable maps for watershed fieldwork utilizing ArcMap.

Measured stream flow by use of weirs, flumes and calculated cross-sectional area.

Analyzed water sample data with professional geologist for hydrologic assessment and remediation possibilities.

Prepared numerous groundwater (potentiometric) contour maps, geologic cross sections, fence diagrams and plume (isoconcentration of organics) maps.

Produced reports for government usage (EPA and PaDEP) summarizing findings from site characterization, remedial investigations, and Phase I, II and III investigations.

Laboratory samples were taken properly using decontaminated equipment, put into properly labeled bottles and field parameters (including pH, conductivity, oxidation-reduction potential, turbidity, dissolved oxygen, and temperature) were collected.

Phase II Subsurface Investigations

Logged test pits, trenches and borings and installed monitoring wells at numerous sites for various clients. Utilized a PID (photoionization detector) to screen intervals of soil for volatile organic compound detection.

Surveyed and measured (by triangulation) locations of soil borings and monitoring wells using laser levels and GPS coordinates.



Developed monitoring wells with a Monsoon submersible pump and disposable bailers.

Sampled monitoring wells with a low flow pump and flow through portable field measurement meter for water quality determination.

Performed slug tests and pumping tests on multiple wells. Used Aqetsolv V3.5 to interpret the data, while comparing aquifers to Bower-Rice and Hvorslev methods.

Drafted Phase II subsurface investigation reports including the preparation of geologic cross section and potentiometric contour maps.

Phase I Environmental Site Assessments – Various Locations

This project involved field work, database report acquisition, report writing, report review and client management for 73 sites across the United States. The final product was 73 P1 ESA and Baseline PCA reports. Ms. Bayne was responsible for preparing numerous Phase I ESA reports including writing the reports, researching the EDR reports and coordination with local government agencies.

Various Shell Lubricants Projects

Supervised and logged test pits, trenches and monitoring well installation.

Surveyed and measured (by triangulation) locations of soil borings and monitoring wells using laser levels and GPS coordinates.

Prepared and drafted sections of IRAPRS, RAPs, SCRs, RI/RA/CUP reports specific to sites, including maintaining databases, preparing geologic cross sections and potentiometric contour maps.

Task managed field activities for various sites including job set up, equipments rentals, laboratory bottle orders, and field book and log preparation for field staff.

Aided in the closure of a facility at the request of Shell and URS project managers. Wrote sections of the closure report and monitored onsite well abandonment and other closure activities. PADEP approved closure obtained.



Various BP Projects

Assisted in logging borings and monitoring wells, provided fire watch for various projects, as well as potential receptor surveys.

Professional Societies/Affiliates

Pennsylvania Geologic Society, 2005

Specialized Training

2008/8 Hour OSHA Supervisor Training (OSHA 29 CFR 1910.120 (e)(4), certificate 68537)

2008/Smith System Defensive Driving Course

2008/PADEP Vapor Intrusion Short Course

2008/PADEP Groundwater Fate and Transport Modeling Short Course

2008/AEG Understanding Groundwater Concepts Short Course

2008/NS/CSX Railway Safety and Training

2007/10 Hour Construction Safety & Health (OSHA #001284900)

2007/HAZWOPER 8 Hour Refresher

2005/Radiological Training (NUREG-1556)

2005/38 Hour ACoE Wetland Delineation & Management Training

2004/40 Hour HAZWOPER Certification [OSHA 29 CFR 1910.120(e)] with annual refreshers

Security Clearance

TWIC (Transportation Worker Identification Credentials) Issued by TSA/Expires 10Nov2013

Chronology

2007 to present: URS Corp, Inc., Pittsburgh, PA

2005 to 2007: GAI Consultants, Inc., Homestead, PA

2004 to 2004: GEC, Inc., Pittsburgh, PA

Contact Information

Amanda L. Bayne
URS Corporation
501 Holiday Drive, Suite 300
Foster Plaza 4
Pittsburgh, PA 15220
412-503-4623 (direct)
412-503-4701 (FAX)



John D. Liebig

Lead Execution Manager

Overview

Mr. Liebig has 14 years of professional experience conducting various aspects of geological and environmental investigations and remediation programs. He has gained diverse technical skills from projects involving ground water investigations, underground storage tanks, and remedial investigations for government and commercial/industrial clients.

Areas of Expertise

Underground Storage Tanks
Site Assessment
Risk Based Corrective Actions

Years of Experience

With URS: 5 Years
With Other Firms: 10 Years

Education

BS/1995/Geology/Clarion
University of Pennsylvania

Registration/Certification

N/A

Project Specific Experience

- Current Lead Execution Manager for BP Petroleum Program with various sites currently in the PA Act 2 and Act 32 programs. Responsibilities include characterizing UST related sites through the Act 2 and 32 programs and implementing a remedial design for each site. Management responsibilities include cost estimate preparation, client interaction, subcontractor procurement, project coordination and tracking, budget analysis and invoicing, and quality control.
- Provided environmental consulting services to a Class I railroad at several underground storage tank (UST) sites in Ohio and Pennsylvania by using applicable state risk-based corrective action rules. Responsible for identifying potential opportunities, proposal generation, client and regulatory interaction, coordinating and conducting field activities, report preparation, and invoicing for multiple projects within the framework of a national consulting contract.
- Assisted in remedial actions at a natural gas production and production fluid disposal facility by supervising removal and disposal of stream sediments, placement of a concrete stream bank stabilization structure, and installation of groundwater injection and groundwater collection trenches. In addition, injected chemical oxidizing agents into injection trenches and performed routine operation and maintenance on a groundwater collection system.
- Conducted site screening activities for future cellular telephone tower siting including field investigations for FCC and NEPA compliance, wetland, historical resource, wilderness area, wildlife preserve, critical habitat, Indian religious sites, and flood plain identification.
- Acted as the quality control officer in the implementation of all work plans including the construction execution plan, contractor quality control plans, security plan, spill and discharge control plan, decontamination plan, and traffic control plan for site closure of a 13-acre landfill. Assisted in quality control activities associated with liner deployment on a newly constructed



municipal waste disposal cell including inspection of seaming, liner repairs, and leachate collection trenches.

- Described and interpreted geologic information, soil and groundwater sampling, and monitoring well installation in various projects involving soil and groundwater investigations at industrial, commercial, and low level radiological sites. Supervised borehole installation via hollow stem augering/split spoon sampling, air rotary, pneumatic hammer, rock coring, sonic drilling, and geoprobe technologies. Conducted Phase I and II environmental site assessments consisting of records review, site investigation, interviews of current tenants, and sampling of soil, groundwater, and building materials. Supervised installation of groundwater monitoring systems in multiple aquifer scenarios.
- Taught undergraduate geology students the basis principles of geology by preparing lectures, answering questions, correcting exams and homework assignments, and determining grades. Assisted professors in individual research by completing mapping and computer tasks. Tutored students requiring additional assistance by staffing geology resource center.

Professional Societies/Affiliates

N/A

Awards

N/A

Languages

N/A

Specialized Training

2007/ American Petroleum Institute Safety Training

2007/ Smith System Defensive Driving Course

2005/OSHA HAZWOPER Site Supervisor Training

2004/OSHA 8-hour Refresher Course

1994/Occupational Safety and Health Administration (OSHA) 40-hour HAZWOPER

2003/Federal Railroad Administration Roadway Worker Protection Training

2003/Certified Mold Remediator, Indoor Air Quality Association

2001/Troxler Electronic Laboratories Nuclear Density Gauge Safety Training Program

1996/Bioremediation Engineering, University of Akron



Security Clearance

None

Publications

N/A

Chronology

09/04 - Present:	URS Corporation, Pittsburgh, PA
07/01 – 09/04	Earth Tech, Inc., Wexford, PA
07/95 - 05/01	Earth Sciences Consultants, Inc., Export, PA
01/96 - -4/96	University of Akron, Akron, OH



David Zwastetzky

Senior Geologist

Overview

Mr. Zwastetzky has over 14 years of professional experience conducting various aspects of geological and environmental investigations and remediation programs. He has gained diverse technical and managerial skills from projects involving ground water investigations, underground storage tanks, and remedial investigations for government, commercial, and industrial clients.

Areas of Expertise

- Subsurface geological and hydrogeological interpretation;
- Evaluation, selection, and implementation of remedial options;
- Dual phase extraction design and optimization (including location, sizing, and pumping cycles);
- Regulatory interpretations and applications (Act 2, Act 32);
- Project management; and
- Agency negotiations to optimize project resources.

Years of Experience

With URS: 5 Years

With Other Firms: 9 Years

Education

BS/1993/Geology and Planetary Science/University of Pittsburgh at Johnstown

Registration/Certification

N/A

Project Specific Experience

- Current Pennsylvania portfolio manager for Shell Oil Products US with various sites currently in the PA Act 2 and Act 32 programs. Sites consist of former refinery, former pipeline, lubrication facilities, and active terminals. Responsibilities include managing the sites through the Act 2 and 32 programs and implementing a remedial design for each site. Management responsibilities include cost estimate preparation, client interaction, subcontractor procurement, project coordination and tracking, budget analysis and invoicing, performance indicator tracking, and quality control.
- Served as the BP Retail Petroleum Portfolio Team Leader for Western Pennsylvania. Responsibilities included assisting the Portfolio Manager in the completion of all financial tasks, performance goals, health and safety compliance, field work coordination, training requirements, quality control, compliance with client specific requirements, provide general oversight of field work completion and report submittals, and provide technical review/guidance of various state required reports. Also serves as a point of contact for PADEP regarding sites within the southwest Pennsylvania region.
- Served as project manager for BP Retail Petroleum Program with various sites currently in the PA Act 2 and Act 32 programs. Responsibilities include characterizing UST related sites through the Act 2 and 32 programs and implementing a remedial design for each site. Management responsibilities include cost estimate preparation, client interaction, subcontractor procurement, project coordination and tracking, budget analysis and invoicing, and quality control.
- Served as technical lead, field operations leader, and/or project manager on various Navy projects including groundwater investigations, site screening and remedial investigations, and watershed study. Technical experience includes oversight of various drilling activities, logging of soil boring/well installations, soil and groundwater sample collection, and interpretation of geologic and hydrogeologic data including preparation of groundwater contour



maps and cross-sections. Prepared technical reports, quality assurance plans, and project summary reports.

- Program Manager for Exxon West Virginia Partnership. Responsibilities included the management of 50+ retail petroleum sites with the state of West Virginia. Guided petroleum impacted facilities through various phases of investigation and remediation. Project involved direct contact with client representative, budget projection and analysis, and routine project management of work conducted at various sites. Managed a staff of employees dedicated to the project.
- Worked as field geologist providing oversight of underground storage tank (UST) removals at various United States Postal Service (USPS) facilities in Pennsylvania. Tasks also associated with these projects included proper notification with PADEP, confirmation sample collection, preparation of UST closure report, health and safety oversight, and coordination with the client.
- Worked as lead geologist and project manager while employed at IT Corporation. Responsibilities included the management of 25+ retail petroleum sites with the state of Pennsylvania. Guided petroleum impacted facilities through various phases of investigation and remediation. Project involved direct contact with client representative, on-site geologist for various investigation/remediation tasks, budget projection and analysis, interpretation of state regulations (Act 2 and Act 32) and routine project management of work conducted at various sites.
- Project manager and lead geologist for PADEP UST removal in Marcus Hook, PA. Worked closely with PADEP representatives coordinating UST removal at former retail petroleum facility. Provided technical and health and safety oversight of UST removals, confirmation sample collection, prepared closure reports, and various management duties (status reports, invoicing, and PADEP required documentation).
- Project manager and geologist for various Praxair, Inc. sites. Projects included UST removal, industrial plant decommissioning, and site assessment and remediation.
- Conducted leak detection and repair air quality inspections at former Rouseville Pennzoil refinery in Oil City, PA.
- Assisted with air quality study at former MolyCorp site in Washington, PA. Study included collecting filter samples at air monitoring stations and perimeter dosimeter stations.
- Performed enhanced natural attenuation study at various petroleum related facilities using Oxygen Release Compound.



- Performed on-site surveys and POL inventories at various Army facilities for the 99th Regional Support Command. Information was collected to be incorporated into spill plans prepared for each facility.
- Researched and documented Department of Environmental Resources (DER) permit modules and geological and hydrogeological information for coal mining operations in Central Pennsylvania. Performed on-site field reconnaissance (i.e. – lithologic mapping, strike and dip), quarterly background water sampling, and overburden sample collection/analysis from air-rotary drilling activities. Conducted pump tests on installed monitoring wells. Applied structural methods to determine coal seam thickness and extent.

Professional Societies/Affiliates

N/A

Awards

N/A

Languages

N/A

Specialized Training

40-Hour HAZWOPER Training (OSHA 1910.120), November 1994.

8-Hour Annual Refresher Training (OSHA 1910.120), February 2008.

8-Hour Supervisory Training (OSHA 1910.120), November 1995.

URS Hazard Recognition Training, April 2007.

BP Fatigue Management Training, February 2005.

BP Authorization to Work/Permit to Work Training, March 2005.

URS Behavior Based Safety Training, June 2005.

Security Clearance

N/A

Publications

N/A

Chronology

2003 to present:	URS Corp, Inc., Pittsburgh, PA
2002 to 2003:	Tetra Tech NUS, Inc.
1994 to 2002:	IT Corporation
1994:	Musser Engineering,



Areas of Expertise

- Wetland Identification and Delineation
- Stream Habitat Assessments
- Benthic Macro invertebrate Sampling
- Aquatic Biological Surveys
- Environmental Inspection
- Phase I & II ESA
- Subsurface Site Investigations relative to UST's

Years of Experience

With URS: <1 Year

With Other Firms: 8 Years

Education

BA Environmental Science, 1998
Thiel College

Specialized Training

2005- 38 Hour Army Corps of Engineers Wetland Delineation & Management Training Program

2004- 40 Hour Hazardous Waste Operations and Emergency Response Training (HAZWOPER)

Chet Elewski

Environmental Scientist

Overview

Mr. Elewski has over nine years of experience conducting extensive environmental field surveys, investigations, site assessments, while specializing in wetland identification and delineation and stream habitat assessments. Mr. Elewski has gained working knowledge of Federal, State and local agency policies and procedures for permitting regarding utility project work. In addition, he has conducted Environmental Inspections of pipeline oriented projects and Subsurface Mine Stabilization Project Construction Monitoring. Also, Mr. Elewski has performed work related to subsurface site investigations regarding underground storage tanks (UST's).

Project Specific Experience

Utility Related Environmental Studies

Blue Ridge Pipeline, Environmental Scientist, Equitable Gathering, LLC, VA - Assisted Biologists with Threatened & Endangered species studies for fish, mussels and bats for a 35-mile FERC pipeline project in southwestern Virginia.

Confidential Client - Performed Construction Monitoring and aided in Environmental Inspection for a pipeline repair project for four exposed 26-in. natural gas transmission lines within two unnamed tributaries to Brush Creek in southwestern Pennsylvania. To repair these exposed natural gas lines, articulated concrete matting systems were installed to cover and protect the exposed lines and extend up both banks of the stream.

Tennessee Natural Gas - Assisted biologists with the field investigations for the potential adverse impacts to the Pennsylvania endangered Clubshell Mussel (*Pleurobema clava*) and other rare species on an exposed 26-inch natural gas pipeline repair project located within French Creek in northwest Pennsylvania.

Confidential Client - Environmental Scientist with a field crew that conducted wetland identification, delineations and functional assessments as well as stream assessments for a proposed 45-mile natural gas collection pipeline located in northeastern Pennsylvania. In addition, technical reports pertaining to the natural resource investigations were compiled as part of the permitting process.

Big Sandy Pipeline, Environmental Specialist and Survey Supervisor, Equitable Gathering, LLC, KY - Performed environmental survey and data gathering in regards to wetland delineation and stream classification for a 68-mile 20" high pressure natural gas transmission



pipeline project. Provided assistance for the threatened and endangered species Indiana Bat portal survey. Served as Survey Supervisor overseeing the daily/weekly field progress of a 16 man crew utilizing GPS equipment to install the pipeline centerline and ROW boundaries for the entire pipeline project encompassing four counties in Eastern Kentucky. Also, assisted the client in re-establishing fence line and property boundaries for post-construction activities using GPS equipment.

Millennium Pipeline Project, *Environmental Specialist*, Millennium Pipeline LLC, NY - Environmental Specialist performing wetland delineations and stream classifications for a 187-mile natural gas transmission pipeline spanning across New York State.

Ghent Power Plant CCP Storage Site Feasibility Study, *Environmental Specialist*, E-ON US, LLC, KY - Environmental Specialist performing a watershed study and environmental survey of a proposed location for a fly ash landfill located in north central Kentucky.

Dominion East Ohio Pipeline Corridor Study, *Environmental Specialist*, Dominion Resources Services Inc., OH - Environmental Specialist performing wetland delineations and stream classifications for a natural gas production and storage project located in north eastern Ohio.

Ohio Storage Expansion Project, *Environmental Specialist*, Columbia Gas Transmission Corporation, OH - Environmental Specialist performing wetland delineations and stream classifications for a natural gas production and storage project located in central Ohio.

Dominion Mid-Atlantic Project Compressor Stations, *Environmental Inspector*, Dominion Resources Services Inc., PA, WV - Environmental Inspector for Compressor Station construction sites in Chambersburg PA and Pine Grove WV.

Keystone Pipeline Project, *Environmental Inspector*, Reliant Energy, PA - Environmental Inspector for a 16 mile 10" HDPE water discharge line from the Reliant Keystone Power Plant to the Allegheny River. Also assisted in wetland delineation and stream classification for permitting of this project.

Field Inspection and Construction Monitoring

Reesdale Power Station and Hatfield's Ferry Power Station Mine Stabilizations, *Field Inspector*, Allegheny Energy, PA - Field Inspector on a subsurface mine stabilization project for future plant expansion and fly ash landfill

Percy Mine Fire, *Field Inspector*, Pennsylvania Department of Environmental Protection, PA - Field Inspector for a subsurface mine stabilization project involving filling mine voids to extinguish a 30-year mine fire in Percy PA.

Edwardsport IGCC Power Plant Mine Stabilization *Field Inspector*, Duke Energy, IN - Field Inspector for subsurface mine



stabilization project for a future IGCC Plant construction project located in southwest Indiana.

Subsurface Site Investigations relative to UST's

Coordinated efforts and performed duties that encompassed subsurface and surface environmental investigations and remediation.

Obtained samples and information necessary for underground storage tank (UST) system removal, contaminated soil excavation, and general soil and water sampling using Pennsylvania Department of Environmental Protection (PaDEP) sampling protocol.

Prepared Pennsylvania UST Act 2 Site Characterization Reports (Phases I, II, and III), PaDEP UST Closure Reports, Ohio BUSTR Closure Reports, NPDES Discharge Monitoring Reports, Non-Use Aquifer Permit Applications, and PaDEP Groundwater Monitoring Reports.

Responsible for gathering data and preparing reports for Quarterly Remedial Action Status reports submitted to the regional PaDEP office concerning client sites.

Chronology

9/08-Present:	URS Corporation, Pittsburgh, PA
2004-2008:	GAI Consultants, Homestead, PA
2001-2003:	American Environmental Associates, Inc., Erie, PA
1999-2001:	RAR Engineering Group, New Castle, PA



Michael P. McCarthy
Project Superintendent
Professional Classification: P-2

Education/Training

Delaware County Community College, Philadelphia, PA, Environmental Sciences Courses
Pennsylvania State University, McKeesport Branch, Environmental Resources Courses
Westminster College, Business Studies
40-Hour OSHA Health and Safety Trained (Hazwoper)
10-Hour OSHA Construction Safety Trained
8-Hour OSHA Hazardous Waste Supervisor Trained
USACE Construction Quality Management for Contractors
OSHA 29 CFR 1926 Subpart P Excavation Safety Trained
Troxler Nuclear Density Certified - #070783
CPR / First Aid Trained
Permit-Required Confined Space Trained
Certified Underground Storage Tank Remover (UST) - Pa
USACE Basic Radiation Safety Trained
OSHA Standard 1910.178 Powered Industrial Trucks Certified
Bondstrand Installer Certified, Series 5000, Dia 1-3", Ameron International
Defensive Driving Course Certified (URS)

Career Summary

Mr. McCarthy has over 23 years of hazardous waste site remediation and construction experience. He has managed a wide variety of large and small remediation projects as a Site Manager and/or a Site Safety and Health Officer for PADEP, USACE and other Federal agencies. He has direct experience in Site Management and Health & Safety for USACE projects in the New York, Tulsa, & New Jersey Districts. He has extensive regional experience in HTRW remediation projects and regulatory requirements including PA, IL, IN, MI, NY, WV, TX, and NJ. Mr. McCarthy has extensive experience in PCB, lead, hydrocarbon and mercury contamination remediation projects, underground storage tank removal/closure, multi-layer liner and cap construction, landfill closure, chemical plant decontamination, wastewater treatment plant construction, leachate collection system installation, drum remediation, soil thermal desorption, building demolition and facility construction. Also experienced with heavy equipment operations as well as transportation and disposal of various waste streams.

Project Experience

- **PADEP - Mount Union Creosote Project - Project Superintendent** in charge of creosote contaminated soil removal at a former wood treatment facility, located in Mount Union, PA. The property is now owned by the Mount Union School District, and the contaminated soils are located throughout the Athletic running track and surrounding areas. Activities included clearing and grubbing for a soil stockpile, construction of a timber bridge to access the interior of the running track, excavation of known sources of contaminated soils, confirmatory sampling, investigative test pits, additional soil sampling and analysis, transportation and disposal of 21,603 tons of creosote contaminated soils, backfill of excavations, and revegetation of all affected areas. Contamination

extended into nearby residential property, Removal of seven - 80 ft. tall evergreen trees was required to facilitate excavation of the soil, new trees were planted on the properties and the disturbed areas re-vegetated. Supplemental site characterization work consisted of groundwater monitoring well installation and sampling.

- **PADEP - Avtex Mercury & Adjunct Site Project - Project Superintendent** in charge of mercury contaminated soil/slag removal at 32 separate sites. The sites were located throughout Meadville, Crawford County, PA. Activities included excavation of 24,290 total tons of soil/slag from haul roads, private driveways, farms and roads, transportation and disposal of contaminated material, confirmatory sampling, backfill to grade and site restoration.
- **PADEP - Tri-State Oil Company - Task Superintendent / Health and Safety Officer** in charge of UST removal at a former oil-fuel distribution facility in Hanover Township, Washington County, PA. Activities included removal of 14 underground storage tanks and 2 above ground storage tanks, tanks range from 1,000 – 20,000 gal. in size, excavation and disposal of soils, decontamination and dismantling of tanks, confirmation sampling, backfilling to grade, In addition a total of 53 containers of unknown waste was characterized and disposed according to waste type. A total of 120 tons was salvaged for recycling.
- **PADEP - R.O. Murphy Project - Project Superintendent** in charge of remediation at a storage facility for heavy equipment. Activities comprised of a container survey / inventory, waste characterization of large quantities of unknown material, excavation, removal of 7 underground storage tanks (UST's), decontamination of tanks and disposal of 1,154 tons of petroleum-contaminated soil, 12,581 gallons of petroleum-contaminated water, processed and disposed of 50 tons of scrap steel, 43 tons of PCB-contaminated soil, and 89 tons of non-hazardous special waste, excavations were backfilled using a on-site borrow location and all disturbed areas restored.
- **PADEP - Hydetown Handy Mart Site - Project Superintendent** in charge of UST removal at a former service station in Hydetown, Crawford County, PA. Activities included excavation, transfer of tank liquid, removal of 4 underground storage tanks removal of ~180 tons of contaminated soil, cleaning and dismantling the tanks, transportation and disposal of contaminated soil, confirmation sampling and backfill to grade. Tank closure notification, Notification of Contaminated and UST Closure Reports submitted to PADEP.
- **PADEP - Beech Grove Drum Site - Project Superintendent** in charge of cleanup at a privately owned piece of property, operating a hazardous waste facility without a permit, located in Horton Township, Elk County, PA. Activities included investigative sampling and analysis, excavation, transportation and disposal of drums containing paint wastes. Exploratory test pits and sampling was conducted to confirm no additional remediation was required. Excavation was backfilled using onsite borrow material, disturbed areas were graded and vegetated
- **PADEP - TKS Country Store Site - Project Superintendent** in charge of UST removal at a former service station in Codorus Township, York County, PA. Activities included excavation and removal of two- 10,000 gal. underground storage tanks, cleaning and dismantling of the tanks, confirmation sampling, backfill excavation to grade and repave surface.
- **USACE Kansas City PRAC, New York District, Claremont Polychemical Superfund Site, Old Bethpage, NY. - Superintendent** in charge of Phase-II Construction of Design/Construct groundwater treatment facility. Activities include installation of injection and monitoring wells,

trenching and installation of HDEP pipe, construction of a Pre-fab building & equipment installation. Responsible for numerous Union and non-union work crews, material and equipment procurement, subcontracts, cost tracking and client presentations. **Phase 1, Construction activities, served as Lead Health & Safety Officer** during soil remediation activities using thermal desorption. Project consisted of excavating approximately 3,900 cubic yards of contaminated soils from a closed Chemical Facility. Soil was treated on site by means of a mobile thermal desorption plant. Treated soils were lab analyzed and placed back into the excavation. Other Health and safety duties included over-sight of sub-contractors activities, which include: asbestos removal and plant decontamination. Plant decontaminated consisted of various wet and dry decon methods throughout a 35,000 square foot, one story building. Responsibilities included coordinating with Federal, State and local agencies that all applicable work was completed and specifications were complied with during remediation activities.

- **Pharmaceutical Manufacturing / Production Facility, Indiana - Site Superintendent** in charge of excavation, removal, decontamination, and disposal of over 90 - 20,000 gal. underground storage tanks (USTs) Specific duties included oversight of all work activities, coordinating with client, Federal, State and local Regulatory agencies. Directed subcontractors to ensure all applicable work plans and specifications were complied with during work activities. All USTs were inspected and evaluated for probability and environmental impact of leakage, prioritized by compliance deadline, and assessed for recommended remedial alternatives, provided permit notification assistance, environmental sampling, analysis, and reporting, contaminated soil management, decontamination and salvage operations and closure documentation.
- **Private Client Site, Annapolis, MD, Site Superintendent / Health and Safety Officer** responsible for decontamination and abandonment of 10 -9 ft. dia. dry wells for a light manufacturer of electronic equipment. Activities included high pressure steam cleaning, residual soil sampling, and abandonment of dry wells using compacted soil and/or grout, regrading and re-vegetating disturbed areas. Closure activities included construction of an asphalt cap that served as the facility parking lot. Extensive client interaction.
- **Private Client Site, Lone Pine Landfill Superfund site, Freehold, NJ, Superintendent** principally responsible for subcontractor over-sight during construction of a 216,000 gpd Zimpo PACT (Powdered Activated Carbon Treatment) Plant. The plant utilized carbon in treating heavily contaminated groundwater from a 60 acre landfill prior to discharge. Responsibilities included construction quality and control tracking during construction. Other responsibilities included start-up of plant activities and Operation & Maintenance (O&M) for a 1 year period.
- **USACE Tulsa District PRAC, Reese Air Force Base, Lubbock, Texas, Site Safety and Health Officer** responsible for crews safety during excavating, removal, and or upgrade of 21 underground storage tanks, decontamination and demolition if tanks were removed and transportation & disposal of contaminated soils. Managed safety meetings, inspections, training and monitoring during various work tasks. Provided supervision for remedial activities and equipment operations as well as interface with Federal and State Officials.
- **USACE Tulsa District PRAC, Former Hitchcock Naval Air Station, Hitchcock, Texas, Site Safety and Health Officer / Construction Quality Control Manager** responsible for all aspects of safety and quality control during excavation, removal, transportation and disposal of PCB contaminated material. Activities included air monitoring during excavation activities, Client interface, and waste shipment and tracking, building demolition and disposal.

- **USACE Philadelphia District Managed, USEPA Superfund Site, Helen Kramer Landfill, Paulsboro, NJ. Site Safety and Health Officer**, was one of three site safety officers responsible for task specific operations during the installation of an above ground 12" double walled HDPE force main leading to the on-site wastewater treatment plant (WWTP). Lead Entry Supervisor in-charge of all confined space entries performed by crews inside of concrete lift stations to abandon old lines and connect new lines. Provided and coordinated logistical activities involving Level B activities, monitored health and safety during confined space entries as well as perform air monitoring duties to evaluate worker exposure. Provided safety over sight of work crews during installation of geotextile fabric, clay, drainage pipe & fabric, topsoil and sod cover.
- **Babcock and Wilcox Company, Apollo, PA, Task Superintendent / Safety Officer** - member of a project team that performed a hydrogeologic assessment of a mixed waste contamination at a former nuclear material processing facility in southwestern Pennsylvania. Completed a site specific radiological training program prior to initiating the field investigation. Field responsibilities included oversight of subcontractors during the drilling / well installation, sampling, and well pump test.
- **Private Client Facility, Columbus Ohio, Site Superintendent** in charge of a plant demolition / retrofit conversion. Project consisted of demolition of various portions of an electroplating plant assembly line, process tanks and equipment so that new technology and equipment could be installed. Operating engineers and union laborers using hydraulic shears and grapples were used to dismantle and dispose of over 200,000 tons of plant equipment. Responsibilities included management of work crews, and tracking of materials for recycling or scrap disposal.
- **DOW Chemical Company, B4700 Block Closure, Freeport TX, Shift Superintendent** responsible for the coordination and oversight of subcontractors' activities during a dredging and dewatering of a holding pond during a wastewater treatment plant closure and demolition. Supervised the mobilization, set up and testing of filter press equipment (6 tractor trailer mounted rigs) and productivity. Principally responsible for daily activities during a 12 hour work shift supervising a field crew of 14-17 subcontract personnel.
- **Environmental Scientist/Task Manager**, Conducted Site Investigations at potential hazardous waste facilities for U.S. EPA Region III in accordance with CERCLA legislation (Superfund). Authored technical reports presenting contaminants involved, potential path of migration, and public receptors at risk, with recommendation for facility-specific corrective measures. Responsible to rank sites for the National Priorities List (NPL), supervised interdisciplinary teams during field investigation efforts.

Experience

URS Corporation

Project Superintendent, 1991-Present

Remcor, Inc.

Environmental Specialist, 1990-1991

NUS Corporation

Environmental Scientist / Task Manager, 1984-1990

Equipment Manager / Laborer, 1981-83



Joel M. Keller

Environmental Technician

Areas of Expertise

- Field investigations;
- Monitoring well installation;
- Soil, groundwater, and vapor sampling;
- Nutrient and sulfate injections;
- Remedial Systems Installation, operation and maintenance.

Years of Experience

With URS: 3 Year

With Other Firms: 7 Years

Education

M.A. Geography and Regional Planning, California University of Pennsylvania, California, PA

B.S. Environmental Resources, California University of Pennsylvania, California, PA

Registration/Certification

- PA DEP Underground Storage Tank Certified Inspector/ 2007;
- Certified HDPE Pipe Installer/2002;

Field Skills

- Surface water, groundwater, soil and vapor sampling.
- Monitoring well construction/installation
- Measurement and collection of stream flow data using a pygmy type flow meter.
- Experienced surveying with Nikon DTM-750 Total station.
- Trimble Global Positioning System.
- Hand level, Theodolite, Transit and Brunton compass.

Overview

Mr. Keller has conducted numerous site investigations to characterize facilities for impacts to soil, groundwater, and soil gas. He installs groundwater monitoring wells, collects soil samples, conducts aquifer response tests (slug tests and pumping tests), performs site surveys, conducts well repairs, and supervises enhanced fluid recovery (EFR) interim remedial response measures. He has installed several remediation systems, including pump and treat, soil vapor extraction, dual phase extraction, and free product recovery systems.

Project Specific Experience

Shell Oil Project:

- Surface water, groundwater, soil and vapor sampling;
- Install remediation systems and conduct operation and maintenance on those systems.
- Monitoring well and soil vapor point installation;
- Conduct aquifer response tests to evaluate hydraulic conductivity, soil vapor, and dual phase extraction;
- Conduct site surveys;

BP Multi-Site Agreement:

- Surface water, groundwater, soil and vapor sampling;
- Monitoring well installation;
- Conduct aquifer response tests to evaluate hydraulic conductivity;
- Conduct site surveys;
- Conduct nutrient/sulfate injections;
- Supervise EFR events for interim remedial response actions;
- Install remediation systems and conduct operation and maintenance on those systems.
- Supervise underground storage tank (UST) removal projects.
- Coordinate subcontractors/logistics for several UST removals.

Bridge Scour Project:

- Identify and collect geomorphic data consisting of stream channel characteristics and hydraulic features found at or around bridge substructure.
- Conduct surveys of bridge geometry and stream channel.
- Collect location data for the bridge structure using GPS.
- Compile and process field data for annual reports.

Specialized Training

40 Hour HAZWOPER H&S Training/1998;

8 Hour HAZWOPER Refresher Training/ 9/2006;



Computer Skills

- Excel, Word, WordPerfect
- NS700 Total Station Processing software
- GIS

BP Health & Safety Protocols.

Security Clearance

None

Chronology

May 2000 to 2005 - Staff Scientist – Hydrosystems Management, Inc. – Washington, PA

March 1998 to April 2000 - Hydrologic Technician – United States Geological Survey – Pittsburgh, PA

August 1996 to August 1997 - Graduate Assistant – California University of Pennsylvania – California, PA

Contact Information

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Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, Pennsylvania 15220
Telephone: 412-503-4700
Fax: 412-503-4701
E-Mail Joel_Keller@urscorp.com

EDUCATION

- University of Pittsburgh at Johnstown:
BS-Geology

AREAS OF EXPERTISE

- Environmental Database Management
- Drilling Oversight
- Reporting

PROFESSIONAL HISTORY

URS Corporation
Geologist / Hydrogeologist,
2004-Present

A+A Consultants Inc.
Geologist, 2003-2004

TRAINING

40 hour Health and Safety
Training (OSHA)

8 hour Health and Safety
Supervisory Training (OSHA)

8 hour Confined Space
Training

REPRESENTATIVE EXPERIENCE

Mr. Carosone has 1-year experience with many aspects of environmental geology including site assessments, site characterizations, hydrogeological investigations, geophysical investigations, geotechnical modeling, data interpretation and reporting, and site remediation. Mr. Carosone also has project experience with innovative remedial designs for environmental systems, monitored natural attenuation evaluations, as well as database management and reporting.

- Project Geologist for several LUST sites throughout PA and NY. Activities included site characterizations, innovative remedial technology screening, pilot testing, and remedial implementation including, soil vapor extraction, sparging, pump and treat, dual-phase extraction, LNAPL removal, in-situ chemical oxidation, and enhanced bioremediation.
- Geologist for a Focussed Geoprobe investigation in NY to delineate the limits of a dissolved chlorinated constituent and BTEX plume in the groundwater over a 10 acre area. Activities included supervision of the installation of 36 test borings. Completed soil and discrete interval groundwater sampling in unconfined and confined water bearing zones. Logged soil characteristics and identified aquifer confining layers.
- Served as site Geologist for a operation and maintenance for a SVE (soil/vapor extraction) System at a PA LUST site. Also performed groundwater sampling to evaluate the natural attenuation of a MTBE plume threatening a public water supply well.
- Served as Geologist for deep bedrock drilling and monitoring well installation at an LUST site in York, PA. Activities included supervision of the installation and development of 6 bedrock monitoring wells. Logged soil and rock characteristics.
- Management of a residential water treatment system adjacent to a LUST site in PA. Activities included bi-monthly monitoring, data evaluation and reporting.



Jason C. Van Tassel

Environmental Technician/Staff Geoscientist

Areas of Expertise

Environmental Consulting
Geotechnical Consulting

Years of Experience

With URS: 1 Year
With Other Firms: 7 Years

Education

B.A., Geology - 2000
Mercyhurst College

Overview

With over 8 years of consulting experience, Mr. Van Tassel is responsible for managing and directing field personnel, providing oversight during site characterization investigations, system installation, pilot testing, system vapor and liquid sampling, and treatment system upgrades at various sites. He is responsible for providing oversight of subcontractors during site investigation and underground storage tank (UST) closure activities at active and inactive gasoline service stations. He is also responsible for managing, coordinating, and profiling of waste removal from various sites. Mr. Van Tassel has been responsible for performing system operation and maintenance as well as providing recommendations for remedial system upgrades and improvements to optimize system performance and function.

Mr. Van Tassel also has experience working for a geotechnical engineering consulting firm. His duties included monitoring and testing concrete, engineered fill placement and compaction, asphalt placement and compaction. He has extensive experience in pavement management, asphalt recycling and slope stability projects. Mr. Van Tassel has also been responsible for coordinating and training field technicians, subsurface exploration, surveying, deep foundation installation, and soil and rock classification.

Mr. Van Tassel has successfully implemented these activities with various clients, regulatory agencies, and subcontractors to ensure minimal business interruptions, compliance with applicable safety and environmental regulations.

Project Specific Experience

Site Investigation Report

Local Government Office Building, Northwestern Pennsylvania:

Mr. Van Tassel was responsible for preparing a site investigation report for an office building where personnel experienced odors from potential vapor intrusion. He performed and provided oversight of fieldwork including groundwater, surface, subsurface soil sampling and soil gas sampling; Geoprobe borings; soil vapor implant installations; monitoring well installations, and surveying.

Groundwater Remediation

Retail Gas Station, Jacksonville, Maryland

Mr. Van Tassel's duties on this project included the operation and maintenance of various groundwater remediation treatment systems/trailers as well as skid mounted SVE Flame-ox and Cat-ox burners used for the destruction of the recovered volatile vapors. Mr. Van Tassel was also responsible for water management and discharge sampling as well as the operation and maintenance of an on-site bioreactor unit.



Groundwater Remediation

Former Petroleum Refineries, Northwestern Pennsylvania:

Mr. Van Tassel's duties include managing and directing field technicians as well as administrative personnel in a wide variety of tasks including data collection and entry as well as providing spread sheet design for tabulating the collected data for quarterly progress reports. Assist the project manager with managing the various projects and scheduling technicians to perform the necessary work to be completed on the sites. These duties include vapor and liquid sampling at the various sites in accordance with permit regulations. He coordinates and manages waste removal from the various sites, and provides input on monthly reports as well as quarterly reports. Mr. Van Tassel's previous duties on the sites included performing daily operation and maintenance, checks of numerous remediation/treatment systems, monitoring system performance and repairing or replacing faulty equipment, daily gauge and bail events and site wide gauging as well as Enhanced Fluid Recovery (EFR) events. Duties also included pilot testing of proposed sites using EFR methods for liquid phase product recovery and/or vapor phase product recovery.

Strip Mall Construction

Avon Commons Shopping Center, Avon, Ohio

Mr. Van Tassel assisted the project engineer with site duties as Senior Engineering Technician. His site duties included coordinating, training, and managing numerous technicians during the construction phase of the shopping center. Mr. Van Tassel's primary responsibility was to read and understand blue prints and site specifications for the purpose of coordinating and managing the technicians during daily construction activities. Daily construction activities included concrete testing and placement, reinforcing steel grading and placement, engineered fill placement and compaction, asphalt placement and compaction and completing daily field reports.

Runway Expansion

Cleveland Hopkins International Air Port, Brookville, Ohio

Mr. Van Tassel's duties on this project included slope stability monitoring equipment installation, data collection, data tabulation, and reporting for runway expansion activities. Mr. Van Tassel's onsite activities were to gather slope inclinometer readings from slope tubes installed during drilling operations. He utilized slope profiling programs to graph the slopes profile and was responsible for analyzing and interpreting the various graphs for movement due to instability of the slope during construction activities.



Specialized Training

ACI-Level I

Nuclear Testing Equipment Certification

Asphalt Pavement Preservation Certification-Ohio LTAP Center

NICET-Level I Construction

NICET-Level I Generalist

NICET-Level II Exploration

Certified Fire Fighter

Medic First Aid & CPR Certification

OSHA 40-Hour Hazardous Waste Operations and Emergency Response

OSHA 8-Hour Annual Refresher

OSHA 8-Hour Confined Space Safety Training

Publications

Shoreline Transportation of Sediment Survey

- Created a slide show presentation of the findings for the annual GSA meeting - 1997
- Published in the GSA Bulletin -1997

Chronology

2007 – Present URS Corporation

2004 – 2007 Rybricon Environmental Consulting, Inc.

2000 – 2004 EDP Consultants, Inc.

Contact Information

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Guys Mills, PA 16327

Ph: 814-789-4716

Cell: 412-722-4735

Email: Jason_van_tassel@urscorp.com

Education/Training

Edinboro University of Pennsylvania: BS, Geology – 2000
40 hour Health and Safety Training (OSHA Hazwoper)
8 hour Hazwoper Refresher
8 hour Health and Safety Supervisory Training (OSHA)

Career Summary

Mr. Moore has over 8 years experience with many aspects of environmental geology including site assessments, site characterizations, hydrogeological investigations, geophysical investigations, geotechnical modeling, data interpretation and reporting, and site remediation. Mr. Moore serves in a Task Management role for various investigation and remediation projects, including serving as an on-site Health and Safety Supervisor. Mr. Moore also has experience with innovative remedial designs for groundwater extraction and treatment systems, monitored natural attenuation evaluations, as well as underground storage tank removal and assessment.

Project Experience

- **Private Client - Fallston, MD - Geologist** for a site characterization and remedy implementation at a former LUST site near Fallston, MD that included a MTBE plume which impacted upwards of 160 potable wells in a high profile area. Remedy includes operation of a SVE system, area potable well sampling, and installation of 160 point-of-exposure carbon treatment systems.
- **Private Client - Wilmington, DE - Task Manager/Geologist** for a operation and maintenance for a sparge system to aid in the natural attenuation of MTBE to be protective of the City of Wilmington public supply wells.
- **Private Client - Waldorf, MD - Task Manager/Geologist** for design and implementation of a pump and treat, Sparge, and SVE remediation system at an active retail gasoline station in Waldorf, MD. The system included ten sparge points, eighteen SVE wells, five LNAPL/groundwater recovery wells, and 11,000 feet of piping.
- **Private Client - Multiple Sites - Task Manager, Field Supervisor and Project Geologist** of several LUST sites throughout PA, MD, VA, and DE. Activities included site characterizations, innovative remedial technology screening, pilot testing, and remedial implementation including, soil vapor extraction, sparging, pump and treat, dual-phase extraction, LNAPL removal, in-situ chemical oxidation, and enhanced bioremediation.
- **Private Client - Multiple Sites - Risk assessor** for several LUST sites in Virginia. Activities included site assessments, site characterizations, hydrogeological investigations, and subsequent risk assessment reports detailing the risk to human health and the environment. Several closure letters were issued by the Commonwealth of Virginia as a result.

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- **PADEP - Kell's Korner Site - Task and Site Supervisor** residential water treatment system maintenance and sampling adjacent to a **PA LUST Site**. Activities include bi-monthly monitoring, data evaluation, and reporting.
 - **PADEP - Albert's Corner Site - Task and Site Supervisor** for the in-situ chemical oxidation remediation of an active gasoline station in Northeast PA. Responsibilities included subcontractor management, field application, data evaluation, and reporting.
 - **PADEP - Former Hovis Sunoco Site - Geologist** for a operation and maintenance for a **SVE (soil/vapor extraction) System** at a **PA LUST site**. Also performed groundwater sampling to evaluate the natural attenuation of a MTBE plume threatening a public water supply well.
 - **PADEP - Former Hunsberger Site Geologist** for deep bedrock drilling and monitoring well installation at an **LUST Site** in York, PA. Activities included supervision of the installation and development of 8 bedrock monitoring wells. Also, supervised the implimentation of an in-situ oxygen infusion remediation system.

EXPERIENCE

URS Corporation

Project Geologist, 2004-Present

Geologic Services Corporation

Geologist, 2000-2004

PROFESSIONAL REGISTRATIONS

Maryland Potable Water Sampling Certification

PA Professional Geologist – May 2007

AREAS OF EXPERTISE

- Project Management
- Demolition/
Decommissioning
- Site Management
- Groundwater Treatment
Systems
- Tank Clean-up &
Removal

**PROFESSIONAL
REGISTRATIONS**

State of Pennsylvania

Certified UST Remover

Licensed Asbestos
Contractor Supervisor

Licensed Asbestos
Building Inspector

PROFESSIONAL HISTORY

URS Corporation

Project Superintendent,
1993-Present

IT Corporation

Operations Supervisor,
1984-1993

TRAINING

Certified Welder

Hazardous Waste Supervisor

Certified Technician –
Ultra-High Water Blasting,

Emergency Response

Hazardous Chemical
Handling

REPRESENTATIVE EXPERIENCE

Mr. Dormer has over 20 years' experience as a Site Manager of small and large remediation / environmental projects. Expertise in PCB, lead and hydrocarbon decontamination, residual solid waste handling and disposal, aboveground and underground storage tank removal/closure, dioxin remediation, drum remediation, pond and landfill closure, soil vapor extraction systems, thermal desorption, asbestos abatement, and chemical plant decontamination and demolition. He is also experienced in heavy equipment operation, transportation and disposal, cost estimating, proposal writing and client presentations. Mr Dormer is often responsible for staffing and managing URS' environmental field projects. His other project responsibilities include conducting all site activities in a safe and professional manner, and completing projects on schedule and within budget. His project duties typically consist of equipment and materials procurement, subcontractor management, cost tracking, and preparing all on-site project reporting.

- **Building Demolition, Ellwood Mill Products, 2007:**
URS performed demolition operations on three buildings located at the Ellwood Mill Products facility. The buildings were concrete / steel column and beam construction placed on slabs and spread footers. The three demolished buildings were: the Power House, a two story structure 50' wide by 100' long, the Boiler House, which was a five story structure 80' wide by 100' long and the associated 150-foot brick stack, and a Lean-To Building consisting of a single story structure approximately 30' wide by 380' long. Prior to demolition, all asbestos containing material and regulated material was removed and disposed. During demolition operations, brick and concrete was segregated from construction debris to reduce costs. The brick and concrete, approximately 5,960 tons, was utilized as clean fill material and the construction debris (2,270 tons) was shipped to a permitted C & D landfill. Maintaining the project schedule was a key element for this project, which URS successfully accomplished. The client was following the demolition operations with a major facility expansion.

Hazardous Categorization
Confined Space Entry
First Aid/CPR
Certified UST Remover –
PA
Licensed Asbestos
Contractor Supervisor
Licensed Asbestos Building
Inspector

- **Building Demolition, Confidential Client, 2006:**
URS performed an Environmental Assessment of the demolition area to identify and inventory regulated materials that could affect the demolition operation. Based on the assessment, URS removed the regulated materials identified during the Environmental Assessment including, drums, fluorescent lights and ballast, batteries, fire extinguishers, compressed gas cylinders, and asbestos containing material. Also prior to demolition, utilities were terminated or rerouted. Demolition operations were performed in two stages. Preliminary demolition consisted of removing all interior installations not critical to the integrity of the main structure. This included removal of “curtain walls”, doors, wooden partitions, utilities, and steel beams. Following preliminary demolition procedures, demolition operations of the main structure utilizing excavators equipped with a concrete pulverizer, grapple, or hydraulic hammer was performed. The concrete and masonry was processed then used as backfill material. During the demolition operations, ferrous and nonferrous material was segregated for recycle. The final step was backfilling the site utilizing on-site concrete and masonry supplemented with imported fill material.
- **PADEP Mays-Hickman Road Site, Robinson Township, PA** - Site Manager for the removal and off-site disposal of SVOC contaminated carbon waste and impacted soils. As Site Manager, Mr. Dormer was responsible for the implementation of the site H&S and Work Plans that required the excavation of SVOC contaminated material from a historic dump site. URS placed and compacted >1,600 tons of crushed stone, extended a culvert pipe and place 100 tons of riprap to construct an access road to facilitate loading. Approximately 29,000 tons of residual waste, 80 tons on hazardous waste and 200 tires were loaded for off site disposal. URS installed erosion and sedimentation controls including lined diversion channels, basins and silt fence.
- **PADEP Classic Auto Restoration Services of Pittsburgh (CARS), Elrama, PA** - Site Manager for the recovery, chaterization, and bulking of various

unknown containers and liquids remain at this abandoned auto parts plating facility. As Site Manager, Mr. Dormer was responsible for the recovery of over 2,000 gallons of plating liquids stored in open vats, some with a pH < 1.0. There were 198 55-gallon drums and approximately 115 miscellaneous sized containers that were eventually recovered, safely opened, and field characterized. The wastes included both acids and caustics, various cyanides, flammable liquids, and even thorium wastes. The liquids were bulked according to like waste classifications and then prepared for disposal. Following removal the remaining tanks and vats were decontaminated, cut up and removed from the building. All of this work was performed in a high profile residential setting without disruption to the surrounding neighbors.

- **PADEP American Industrial Chrome Building Demolition, Swissvale, PA** - The American Industrial Chromium Site was an abandoned two-story block building located in Allegheny County. Previous investigations determined that the building concrete blocks and soils under the building were known to have elevated levels of Chromium and other inorganic regulated substances. The building was constructed of three separate bays. Demolition debris was sampled according to the bay and the building was demolished and segregated per bay. The concrete floor of the building was segregated, characterized and disposed in the same manner as the debris. Twelve (12) various sized tanks/vessels were uncovered beneath the floor slab. The tanks contained a combination of liquids, sludges and debris. Liquids from the tanks were consolidated and characterized for offsite disposal. Debris from the tanks was incorporated into the building debris for disposal. A total of 375.11 tons of non-hazardous debris, 524.59 tons of hazardous debris and 5,855 gallons of hazardous liquid was shipped off site and disposed according to their waste characterization. Dust suppression was performed during all phases of intrusive work.
- **Design-Construct of a Wastewater Treatment Plant for The Minute Maid Packaging Facility located in Paw Paw, MI.** Site Manager for the design,

construction, and start-up of a 500,000 gpm wastewater treatment plant to replace the present land application technology. The system consisted of a primary anaerobic treatment process to remove the majority of the BOD, followed with a secondary aerobic process that further reduced the wastewater strength to permit limits. The secondary process equipment includes an integral aeration chamber, clarifier, and sand filter. A 5,600 pre-fabricated treatment building was constructed that housed a full-service chemical laboratory, a complete sludge handling system (centrifuge), and a fully automated PLC system that allowed for only part-time on-site operation of the system. URS also participated with the client in negotiations with the state of Michigan to obtain favorable NPDES effluent levels. This \$7.0 million dollar, 18-month project was completed on time & under budget, and allowed the client to discharge fully treated effluent water well in advance of their Consent Order mandated date.

- **U.S. EPA Emergency Response Cleanup (ERCS) – Kent, Ohio** – Disposal Coordinator in charge sample collection, waste profile application, transportation and disposal of 23 different waste streams.
- **Pennsylvania Department of Environmental Protection (DEP) Little Rio Grande Creek Site located in Bucks County, PA** Project Superintendent in charge of contaminated soil removal and off-site disposal. Project consisted of excavation, transportation and disposal of approximately 13,400 tons of lead contaminated soil from an abandoned industrial site and neighboring residential areas. Soil sampling and analysis were performed throughout the project to determine the extent of excavation required to achieve different cleanup standards between commercial and residential properties. Final contract value of this project total approximately \$2.0 million and was completed in five months.
- **Superfund Site, E. Farmingdale, NY.** - Superintendent in charge of Design/Construct groundwater treatment project. Activities included installation of injection and monitoring wells, trenching and installing double-wall HDPE pipe through four

commercial properties and one public street, construction of pre-fab building, equipment installation and connections to wells.

- **St. Louis Airport, St. Louis, MO** – Superintendent in charge of construction of rain water retention basin in support of a low-level radiation remediation project. Project activities included excavation/removal of low-level radiation contaminated soil to grade, installation of underdrain, HDPE liner, protective liner, rip rap, catch basins and manholes.
- **Pentagon Building, Arlington VA** - Superintendent in charge of lead and asbestos abatement. Responsibilities included oversight of abatement subcontractors, waste shipment/tracking and architectural structure demolition.
- **Pennsylvania Department of Environmental Protection (PADEP)** – Asbestos and abandoned drum removal from closed roofing product manufacturing plant. Project activities included removal of over 3,500 tons of buried asbestos paper sludge, removal of asbestos from tanks, vessels and piping. Located over 200 abandoned drums and containers throughout the property. Drums were collected and logged. Contents were field tested for hazard categorization and compatibility prior to bulking and overpacking for off-site disposal.
- **Plastic Manufacturer, Florence, Kentucky** – Depolymerization plant decontamination and demolition. Project consisted of draining and flushing of product lines, tanks and vessels of depoly plant, cold cutting and removing overhead piping and leaving pipe rack in place, demolition of entire plant by means of hydraulic shears and grapples, lowering of 80' cracking columns, removal of 200 tons of solid lead from a cracker tank, demolition of all concrete floors, pits, sumps and drains, backfill, grading and paving of former plant area.
- **Pharmaceutical Manufacturer, Indianapolis, Indiana** – Project superintendent in charge of aboveground storage tank demolition. Project consisted of cleaning and demolishing 1 – 800,000-gallon and 2 –

500,000-gallon fuel storage tanks. Approximately 30,000 tons of petroleum contaminated soil was also removed.

- **U.S. Army Corps of Engineers, Baltimore District** – Project superintendent in charge of contaminated soil thermal desorption. Project consisted of excavation of petroleum contaminated soil from a closed gas station. Approximately 5,000 tons of soil were treated on site by means of a mobile thermal desorption plant. Treated soil was placed back into the excavation.
- **Helen Cramer Landfill Superfund Site, Glassboro, New Jersey** – Project superintendent in charge of landfill repair. Project consisted of repair of south face of landfill that had eroded away, and installation of aboveground leachate collection system. Face repairs were made by installing new layers of geotextile fabric, clay, drainage fabric, topsoil and grass sod. Leachate collection system consisted of welded 12” HDPE. Concrete manholes were installed at strategic intervals to be utilized as lift stations.
- **Former Tire Textile Manufacturing Plant, Bowling Green, Kentucky** – Site manager in charge of PCB decontamination for plant closure. Project consisted of various wet and dry decon methods throughout a 650,000 square foot building under a condensed schedule with 82 personnel working 2 – 12 hour shifts. Decon methods included insulation removal, chemical wipedown, dismantling, and vacuuming of dust and debris from 30,000 linear feet of subfloor tunnels.
- **Chemical Recycling Company, Buffalo, New York** – Site manager in charge of buried and abandoned drum removal. Project consisted of unearthing, removal, inventory and overpack 160 drums that were buried in concrete pits under slag and debris. Approximately 1,100 other abandoned drums found on site were inventoried, field tested, segregated according to hazard categories and transported off site for disposal and fuel blending.
- **Petroleum Manufacturer, Lake Charles, Louisiana** – Site manager in charge of pond closures. Project

consisted of dredging, steam stripping and centrifuging refinery wastes from two ponds totaling 14 acres in area. Pond bottoms were stabilized and aerated mechanically. Centrifuge cake was placed back into one former pond area and capped.

- **Aircraft Engine Manufacturer, Hartford, Connecticut** - Site Manager in charge of decontamination of 48 various size extrusion presses. Project consisted of constructing waterproof containment around each press. Presses were decontaminated by use of ultra high pressure water blaster (30,000 psi). Decon water was collected, filtered, sampled and analyzed prior to permitted disposal into local POTW.
- **Closed Municipal Landfill, Batavia, New York** – Site Manager in charge of buried drum removal. Project consisted of excavation, removal, inventory, characterization and overpacking of approximately 600 buried drums of unknown solid and liquid materials. Compatible materials were bulked together into either lined rolloff boxes or liquid holding tanks, reducing the number of waste streams to five.
- **U.S. Navy, Naval Environmental Engineering Support Action (NEESA)** – Site manager in charge of PCB contaminated soil removal. Project consisted of excavation, transportation and disposal of approximately 2,200 tons of contaminated soil.
- **U.S. Army Corps of Engineers (USACE), various districts** – Project superintendent in charge of underground storage tank removals, contaminated soil removal, and PCB transformer removal.
- **Chemical Manufacturer, Mobile, Alabama** - Project Superintendent in charge of pond closure. Project consisted of mechanical removal of 1,000 tons of rock and 5,000 cubic yards of soil, sand and liner from a closed clarifying pond by means of heavy equipment and a conveyor system. Rock was batch treated with chemicals, aerated and reused. Contaminated soil was shipped off site for disposal.

AREAS OF EXPERTISE

- 14 years of professional experience in health and safety, construction safety, industrial hygiene, asbestos abatement, and OSHA regulatory requirements
- 9 years of experience serving as Health and Safety Officer on remediation projects at hazardous waste sites
- Radiation safety training and experience

EDUCATION

B.S., 1985, Safety Sciences
Indiana University of
Pennsylvania, PA

PROFESSIONAL CERTIFICATIONS

First Aid and CPR

PROFESSIONAL HISTORY

URS Corporation

Site Safety and Health
Officer/Construction Quality
Control System Manager,
1991 to present

Comprehensive Safety Compliance

Industrial Hygienist,
1986 – 1991

REPRESENTATIVE EXPERIENCE

Mr. Fisher has over 14 years experience in health and safety, construction safety, industrial hygiene, asbestos abatement, and OSHA regulatory requirements.

- Camp Crowder, USACE Kansas City PRAC, MO. Site Superintendent/Quality Control Systems Manager (QCSM)/Site Safety and Health Officer (SSHO) during the interim remedial action taken for the remediation of a hazardous waste pit contaminated with trichloroethylene (TCE) and polychlorinated biphenyls (PCBs). Activities included the disposal of frac tank liquids contaminated with TCE and PCB oil and frac tank decontamination. A 12-ft diameter steel drainage pipe was pile driven through the base of a railroad bed and gabion baskets were installed to divert rain water and control erosion. A high density polyethylene (HDPE) liner cover was placed over the hazardous waste pit, sealed to extraction well casings and covered with clean fill. The work site was then final graded to divert water and control erosion and hydroseeded.
- Brookhaven National Laboratories, Dames and Moore, NY. SSHO/Temporary Site Superintendent during the removal, staging, segmentation and transportation of concrete duct sections from a Graphite Research Reactor. Duct sections ranged in weight from 150,000 lbs to 300,000 lbs. Prior to removal, a fixative was applied on the interior of the 180-ft length of duct work to contain loose radiological contamination. Diamond wire saws were used to cut duct sections free from supporting structures. Five duct sections were removed utilizing a 500-ton hydraulic crane and seven sections were removed utilizing a 600-ton lattice boom CC 2500 Demag Crawler Crane. One duct section was placed on a heavy hauler and transported to a staging area where it was off-loaded utilizing two cranes. Two other duct sections were positioned in the staging area utilizing two cranes. Duct sections were classified as permit-required confined spaces during remediation activities. Duct section removals were classified as critical lifts.
- Lake Ontario Ordnance Works, USACE Baltimore District, NY. SSHO/Field Supervisor during the remediation of buried TNT pipes and chemical waste

**Phoenix Safety Associates,
Ltd.**

Site Safety and Health
Officer, 1985 – 1986

TRAINING

OSHA 40-Hour Hazardous
Waste Training and
yearly updates

U.S. Army Corps of
Engineers (USACE)
Basic Radiation Safety

24-hour DOE Radiation
Worker II

sewer pipes and attached lift stations. Ten thousand ft of the TNT pipeline was flushed and video taped before being sealed in place. Eight hundred ft of the TNT pipeline was excavated, decontaminated and transported for disposal. The entire length of chemical waste sewer pipe, and attached lift stations, were flushed and video taped before being sealed in place. Wash liquids were contained during flushing operations and pumped into 20 frac tanks. Flushed liquids contained in the frac tanks were transferred into tanker trucks for disposal. All removed concrete pipes and associated debris was disposed of in accordance with local, state and federal regulations. Frac tanks and lift stations were decontaminated as permit-required confined spaces. Excavations were performed in accordance with OSHA regulations.

- West Point Military Academy, USACE Baltimore District, NY. SSHO/Field Supervisor during the removal, decontamination, disposal and replacement of 14 underground storage tanks (USTs) and 29 aboveground storage tanks (ASTs). Fuel pumped from the tanks was transferred to a central UST located at the Stadium. All tanks were purged of flammable vapors then segmented utilizing cold cutting methods. Tank carcasses were then decontaminated and disposed of as construction debris.
- White Sands Missile Range, USACE Tulsa District, MN. Field Supervisor/SSHO/QCSM during numerous Solid Waste Management Units (SWMUs) tasks. Tasks included: the excavation of buried unexploded ordnances (UXOs); sewage treatment plant waste excavation and disposal; debris pit remediation; investigated, identified and disposed of unknown chemical waste piles (Level B personal protective equipment (PPE)); characterized, decontaminated and disposed of over 1,000 55-gallon drums and fourteen 20-cubic yard containers of hazardous and non-hazardous materials; constructed a multiple canister, carbon adsorption soil vapor extraction and treatment system; installed deep wells used for soil treatment; and, repaired HDPE liners and sewer manholes.
- Longhorn Army Ammunition Plant, USACE Tulsa

District, TX. SSHO/Field Supervisor during: the construction of waste water treatment plants; excavation of TCE contaminated soils containing pyrotechnic flares and UXOs; incineration of soil using a thermal desorber; decontamination of 18 frac tanks, 70 roll-off boxes and over 2,000 55-gallon drums of drilling fluids and cuttings; installation of 44 monitoring wells and four vertical extraction wells; and, investigation studies for effluent discharge into the bayou. The construction of two waste water treatment plants involved working at elevated heights, entering permit-required confined spaces, excavating, trenching and crane lifts to place machinery and construct buildings. Excavated soils were screened to remove all pyrotechnics and UXOs before being pulverized and processed by thermal desorbers. Treated soils were then used to backfill the excavated areas. The excavator was fitted with 1 ½ inch thick Plexiglas.

- Fort Polk, USACE Tulsa District, LA. SSHO/Field Supervisor during remediation of soils contaminated with lead and a second site containing buried UXOs. One thousand cubic-yards of lead contaminated soil was removed and backfilled with clean topsoil. A two acre earthen cap was placed, graded, bermed and hydroseeded to prevent future erosion. A fence was then installed around the earthen cap. At the second site, buried UXOs were exposed, investigated and removed from five burn pits. The burn pits were then located via satellite and 1,600 cubic-yards of clean back fill was placed over the pits to bring them up to grade. Responsible for drafting the Final Report for submission to the client.
- Sandia National Laboratories, Sandia, NM. SSHO/Field Supervisor during the excavation of Sandia's Hazardous Waste Landfill. Landfill materials included radioactive wastes, biological and medical wastes, UXOs, toxic/hazardous chemicals and construction debris. Excavated materials were segregated by hand in Level B PPE. Excavation equipment was constructed to withstand explosions. Essential personnel observed excavations from inside explosion proof sheds.
- Pentagon Renovation, USACE Baltimore District, VA. SSHO of a 350 employee work force for the hazardous

material abatement and demolition of Wedge I and the basement of the Pentagon. Wedge I included over 993,000 square ft of office space. Hazardous materials abated included asbestos-containing materials (ACM), lead-based paint (LBP), PCB contaminated light ballasts, mercury light tubes and switches and radioactive smoke alarms. Water service to Wedge I had to be shut off during demolition. Water isolation was accomplished by freezing a block of ice inside the 12 in diameter steel water pipe. Liquid nitrogen passed through a sleeve attached to the water pipe. When the ice block was formed, a section of pipe was removed downstream from the ice block using a torch. Flanges were then welded onto the pipe ends and end caps were attached. A material handling system was developed to remove building materials from the wedge. Loading platforms were installed on floors 2 through 4 to elevate the working surface to the bottom of each windowsill. A temporary material-handling elevator was erected outside of the windows. Materials could then be loaded transferred from each floor out a window into the material elevator, down to the truck loading platform and into trucks.

- Little Rio Grande, Pennsylvania Department of Environmental Protection (PADEP), PA. SSHO/QCSM during the excavation and disposal of more than 12,000 tons of lead contaminated soils from commercial and residential sites. Challenges included the establishment of entrance and egress routes for truck traffic in a very limited space. Excavations and traffic control activities were performed in compliance with applicable OSHA regulations.
- Hitchcock Naval Air Station, USACE Tulsa District, TX. SSHO/QCSM during the evaluation and remediation of a PCB contaminated hanger pad, surrounding soils and electric transformers. Soils and liquids contaminated with jet fuel were also remediated. The PCB contaminated hanger pad was sampled using a concrete auger and cores were sent to a laboratory for analysis. Soil underneath the cores and around the hanger pad were also sampled and analyzed for PCB content. A PCB contamination grid was plotted to establish the extent of PCB contamination in the

concrete and surrounding soils. A sampling grid was also established to determine the extent of jet fuel contamination in stock piled soils removed from the storage tank and the surrounding soil. Results from both of these grids were then used to determine the extent of remediation activities. PCB contamination was ground from the surface of the concrete and contaminated soils were excavated for disposal. Frac tanks used to contain contaminated liquids were decontaminated as permit-required confined spaces. All PCB and jet fuel contaminated materials were disposed of in accordance with local, state and federal regulations.

- Lone Pine Landfill, USACE Kansas City District, NJ. SSHO during the isolation/containment of the landfill from the ground water aquifer and the construction of a treatment plant to treat landfill liquids and gases. Phase I involved: the clearing and grubbing of the 35 acre landfill site; the disposal of two ASTs and remediation of two USTs in place; the excavation of buried unknown chemical drums (Level B PPE); the installation of a bentonite slurry wall; the installation of a clay cap that was tied into a Clay Max® and HDPE liner; the installation of vapor and leachate collection wells; and, the final grading and hydroseeding of the landfill. Phase II involved the construction of a treatment plant to treat the liquids and vapors from the landfill and connection of the effluent discharge line to the city sewer system. Monitored for off-site contaminant migration utilizing EPA TO-14 and total suspended particulate (TSP) methods. A meteorological tower was used to collect weather data. Personnel were monitored for exposures utilizing real-time and 8-hour time-weighted average (TWA) methods. Personnel monitoring, trenches, excavations, elevated work and permit-required confined space entry activities were performed in compliance with applicable OSHA regulations.
- Roebing Steel Superfund Site, USACE Kansas City District, NJ. SSHO during: the removal and disposal of two USTs, five ASTs, two tanker cars, more than 580 55-gallon drums of mixed waste materials; the remediation of 194 yd³ of chemical waste piles, 210 yd³ of asbestos waste and 221 PCB-contaminated electrical transformers. Monitored for off-site contaminant

migration utilizing EPA TO-14 and TSP methods. A meteorological tower was used to collect weather data. Personnel were monitored utilizing real-time and 8-hour time-weighted average (TWA) methods. Personnel monitoring, trenches, excavations, elevated work and permit-required confined space entry activities were performed in compliance with applicable OSHA regulations.

- Claremont Superfund Site, USACE Kansas City District, NY. SSHO during removal of ACM and lead materials and the construction and assembly of the waste water treatment plant building and treatment plant machinery. Treatment plant machinery was placed utilizing a 500-ton hydraulic crane. Leachate extraction wells were drilled, installed and connected to the treatment plant. Trenches were excavated to facilitate the installation of underground electrical, water, sewage and effluent discharge lines. Aboveground electrical utility lines were disconnected and removed.
- Tacony Warehouse, USACE Baltimore District, PA. SSHO during the installation of 10 ground water wells. These wells were designed and installed to evaluate the applicability of in-situ treatment of the water by zero-valent iron. During the pump tests well liquids were pumped into frac tanks. After liquids from the frac tanks had been pumped into tanker trucks for disposal, the frac tanks were entered and cleaned as permit-required confined spaces prior to release back to the vendor.
- Helen Kramer Landfill, USACE Kansas City District, NJ. SSHO during the installation of ground water monitoring wells in the concrete perimeter wall. Diamond augers were used to bore through the concrete and rebar.
- Fort Meade, USACE Baltimore District, MD. SSHO during the disposal of liquids collected during the operation of a free product recovery system, decontaminated frac tanks containing petroleum contaminated liquids, collected liquid samples for laboratory analysis and remediated a medical waste disposal site and a fire training pit.
- Fort Drum, USACE Baltimore District, NY. Confined

Space Entry Supervisor/ Coordinator during permit-required confined space entries into ASTs and unknown drum investigations and characterizations.

- Havertown Superfund Site, USACE Baltimore District, PA. SSHO during the excavation, trench box placement, interceptor pipe installation and backfilling operations.
- Cameron Station, USACE Baltimore District, VA. SSHO during the excavation and soil incineration of petroleum contaminated soils using thermal desorber units.

Industrial hygienist at numerous fossil fuel and hydro-electric generating stations, steel mills, by-products plants, coke plants and manufacturing plants. Performed personnel and area monitoring for noise, indoor air quality, airborne metals and organic vapors, total dust, respirable dusts, crystalline silica, nuisance particulate, coke oven emissions and heat stress.

- SSHO for two Superfund Sites: Cleve Reber Site, LA, and Summit National Site, OH.



Areas of Expertise

- Planning, implementation and management of environmental site assessment and remediation programs
- Interpretation of complex geologic and hydrogeologic conditions at hazardous waste and petroleum release sites
- Design, installation and operation of remediation systems and innovative remedial technologies
- Remedial Investigation / Feasibility Studies in Florida, Minnesota, New Jersey, Nebraska, Ohio, Pennsylvania, and Texas, and RCRA Facility Investigations in New Jersey, Ohio and Pennsylvania
- Management of voluntary cleanup programs under Pennsylvania Act 2 and Ohio Voluntary Action Programs and mandatory programs under Pennsylvania Act 32, the New Jersey Industrial Sites Reuse Act and Ohio Bureau of Underground Storage Tank Regulations
- Management and implementation of Environmental Compliance Reviews and Environmental Due Diligence Assessments for acquisition or divestiture
- Participated in completion of Environmental Impact Statements, Environmental Assessment, and Categorical Exclusions for transportation industry clients

Education

B.S./1985/Geology and Planetary Science/University of Pittsburgh

Mark S. Holsing, P.G.

Senior Environmental Scientist

Overview

Mr. Holsing has 23 years of experience in successfully applying his technical expertise in geology, hydrogeology, contaminant fate and transport, and environmental sampling and analysis for private (industrial and commercial) and public sector clients. He provides external and internal environmental consulting services in the areas of environmental due diligence assessments, site characterization programs, remedial design, baseline risk assessments, waste characterization and management, multi-media environmental permitting, and regulatory compliance reviews.

Mr. Holsing has experience in many phases of environmental program and project work, including:

- project management,
- project scheduling and budgeting
- agency negotiation
- multi-disciplinary project team assembly, coordination, and management
- evaluation of environmental business risk
- project health and safety programs
- project quality assurance/quality control programs

Project Specific Experience

Site Remediation Program; Former Refinery, Reno, Pennsylvania

Provided operation and maintenance services for a petroleum product recovery system and design and installation of dual phase extraction system at a former refinery site in Pennsylvania. Managed operation and maintenance of a pre-existing hydrocarbon skimmer system, including quarterly monitoring and regulatory reporting. Performed a field pilot study to support remedial design for a dual-phase extraction (DPE) system and demonstrated the feasibility of this technology to remove gasoline at a separate portion of the former refinery site. Prepared the remedial design and bid package for full scale implementation of DPE technology, and provided construction oversight of DPE system equipment installation. Remedial Design included preparation of a Request for Exemption from Plan Approval for air emissions from the DPE system; received exemption from regulator. Prepared Notice of Intent to Discharge under state General Permit PAG-5 for aqueous effluent from DPE system. The DPE system is currently operational.

Site Assessment and Remediation Programs; National Petroleum Marketer, Various Locations in Pennsylvania, Virginia, and West Virginia

Senior Consultant responsible for design, installation, retrofit, operations and/or maintenance of a variety of *in situ* and *ex situ* soil and groundwater remediation and treatment systems for petroleum hydrocarbon releases.



Years of Experience

With URS: 1 Year

With Other Firms: 22 Years

Registration/Certification

1995/PG/PA/PG-001238-G

2008/LRS/WV/#221

Professional Societies/Affiliates

AGWSE Division - National Ground Water Association

Specialized Training

40-Hour OSHA Health and Safety Training (29 CFR 1910.120) 1986

8-hr OSHA Refresher Training, June 2008

8-hr OSHA Supervisor Training 1990
AutoCAD and AutoCAD 3D,
Community College of Allegheny County, May 1991

Project Scheduling Training with Symantec Timeline, 1992

Project Management Training; ENSR, 1993

INTERACT Personal Conflict Resolution Training, 1994

Chronology

2007, Senior Environmental Scientist, URS Corporation, Pittsburgh, PA

2005-2007, Manager, Waste Management Services, Skelly and Loy, Inc., Monroeville, PA

1998-2005, Project Manager, Delta Environmental Consultants, Inc., Pittsburgh, PA

1985-1998, Senior Technical Specialist, ENSR, Pittsburgh, PA

Experienced with dual phase extraction, air sparge / soil vapor extraction systems, *in situ* oxidation and oxygen diffusion systems, and *in situ* bioremediation systems, from conceptual design to decommissioning.

Petroleum Storage Tank Release Site Closure; Forest Hills, Pennsylvania

Project Manager for a Site Assessment and Remediation program conducted under Pennsylvania Act 2 at a former retail petroleum property that had been purchased by a third party. The presence of seven unregistered and previously unknown underground storage tanks was discovered during completion of soil remediation. Closure was facilitated by assisting the former and current owners in negotiation of a closure strategy for the tanks and through careful management of tank removal and restoration of the property. Complicating the cleanup was the fact that the tanks occupied the majority of the parking lot maintained by the third party owner and represented a safety concern for the general public in this highly visible and accessible property. Completed soil and groundwater assessment, prepared the Site Characterization Report and the Final Report. Gained closure and Relief from Further Liability for the client in September 2000.

Site Assessment and Remediation Programs; National Petroleum Refiner, Various Locations in Pennsylvania

Project Manager for assessment and remediation programs at active retail petroleum sites in PA. Closure was sought under Pennsylvania Act 2 regulations using each of the three attainment scenarios. Projects included performance of site characterization, preparation of a baseline risk assessment and ecological assessment, fate and transport modeling, Site Specific Standard development, and regulatory reporting and negotiations.

Brownfield Redevelopment Project; McMurray, Pennsylvania

Project Manager responsible for completion of environmental due diligence and site closure activities for an underground storage tank release site in Washington County, Pennsylvania. Completed site characterization and prepared combined Site Characterization Report/Final Report for site closure under Act 2, Site Specific Standard scenario. Obtained regulatory closure and Relief From Further Liability for client in January 2006.

Site Characterization Program; Former Wood Treating, Coke Production, and Coke By-Products Recovery Facility, Kearny, New Jersey

Project Geologist responsible for site characterization at an abandoned creosote wood treating / coke production / sulfuric acid production / coke by-products recovery facility. Tasks included soil boring, monitoring well, and piezometer installations, hydrogeologic assessment, including tidal influence studies and evaluation of multiple aquifers, waste material delineation and characterization, and remedial alternatives evaluation.



Bruce A. Skubon

Graduate Geologist

Areas of Expertise

Groundwater Monitoring
Soil and Groundwater
Characterization
Phase I/II Environmental Site
Assessments
Groundwater & Soil Remediation
Geographic Information Systems

Years of Experience

With URS: 2.5 Years
With Other Firms: .5 Years

Education

The University of Toledo
B.S., Environmental Science, 2002.

Post-Graduate Studies,
The University of Toledo,
Geology, 2003-2005.

Overview

Bruce Skubon joined URS in August 2006 as a Graduate Geologist. He has training related to environmental science and field geology. His work experience includes the areas of soil and groundwater characterization, Phase I/II environmental site assessments at various industrial and commercial sites, and different types of groundwater monitoring programs. Mr. Skubon assisted with an environmental remediation project for a Fortune 500 client. He has worked on several sites with strict health and safety requirements. His GIS skills used to access, manipulate, and present spatial information are valued on assessment projects. Proficient in ESRI ArcGIS 9.2 software and extensions.

Project Specific Experience

Staff Geoscientist, Former Erie Rail Yard, Susquehanna, PA

- Performed oversight of soil boring installation by Geoprobe for over 150 borings and collected soil samples for site characterization. Work also included the use of field portable X-ray fluorescence (XRF) for real-time screening of soil samples. Utilized GIS/GPS technologies and software to accurately locate and map soil borings.

Staff Geoscientist, BP Inc., Akron, Ohio

- Performed oversight of soil boring installation by Geoprobe and the drilling and installation of monitoring well using hollow stem augering techniques at several retail sites under BP safety program. Work also included the collection of soil and groundwater samples for site characterization.

Staff Geoscientist, Williams Power Generation Site, Hazleton, PA

- Oversight of Phase II assessment that included soil boring installation by Geoprobe and hand augering and the drilling and installation of monitoring well using air rotary techniques and collection of soil and groundwater samples. Assisted with report preparation.

Staff Geoscientist, Harrisburg International Airport, Middletown, PA

- Conducted soil borings and sampling for environmental and geotechnical purposes with use of Geoprobe and auger drilling rig. Collected soil samples for environmental chemical and geotechnical testing. Assist in preparing project summary report.

Staff Geoscientist, Myers Garage Site, Plainfield, PA

- Conducted soil borings to delineate site contamination with use of portable hand-held Geoprobe. Conducted oversight of monitoring well drilling and installation by air rotary techniques. Responsibilities also



included hand-dig excavation and sampling of lead impacted soil, installation of soil vapor points, residential well sampling, and monitoring well sampling.

Staff Geoscientist, Hershey Landfill Site, Hershey, PA

- Conducted soil borings to delineate site contamination with use of portable hand-held Geoprobe. Utilized GIS/GPS technologies and software randomly distribute, accurately locate, and map soil borings.

Staff Geoscientist, Tomstown TCE Site, Tomstown, PA

- Conducted oversight of monitoring well drilling and installation by air rotary and hollow stem auger techniques. Responsibilities also included oversight of rock coring, residential well sampling, and monitoring well sampling. Worked closely with personnel of PADEP during project.

Professional Societies/Affiliates

Geological Society of America (GSA)
National Ground Water Association (NGWA)
International Association of Hydrogeologists (IAH)

Certifications

OSHA (29CFR 1910.120) 40-Hour Health and Safety Training, 2002
OSHA 8-Hour Refresher Training, 2006-2008
API Service Station Contractor Safety Qualification Program, 2008
American Red Cross First Aid, 2009

Chronology

08/06 - Current: URS Corp, Harrisburg, PA
08/02 - 05/05: The University of Toledo, Toledo, OH
05/02 - 08/02: Hull & Associates, Inc., Toledo, OH

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Dennis A. Roman, P.G.

Senior Geologist/Project Manager

Overview

As a senior geologist and project manager with over 18 years experience, Mr. Roman has been involved with numerous projects of differing levels of difficulty. His broad experiences with many of these projects have become a valuable tool during efforts where proactive approaches were required. Mr. Roman is a practicing Registered Professional Geologist with the state of Pennsylvania.

Areas of Expertise

Water Resource Planning
Hydrogeologic Investigations
Environmental Site Investigations
Geotechnical Investigations

Years of Experience

With URS: 6 Years
With Other Firms: 18 Years

Education

Millersville University
B.S., Geology, 1991

- Investigations of hydrogeologic, environmental, and geotechnical nature.
- The coordination, implementation and management of project assignments related to water resources, hydrogeologic, environmental, and geotechnical issues. Specific responsibilities included: planning and supervision of subsurface exploration programs for groundwater investigations and foundation studies; proposal preparation and cost estimating; on-site and in-house materials management, research of geologic literature; preparation of project specifications and contract documents; implementation of site specific health and safety plans; interpretation of aerial photography as part of the site selection criteria of municipal wells; field and laboratory classification of soil and rock; mapping of geologically environmentally sensitive features within a potential zone of influence; in-situ permeability testing of soil and rock, (slug tests, long term drawdown tests, and packer tests); analysis of project data acquisitions; and preparation of reports and recommendations.
- Nature of several projects included efforts pertaining to: groundwater monitoring programs within several physiographic provinces of eastern and mid-western United States; well loss claims; well site selection and fracture trace analyses for municipalities throughout Pennsylvania; watershed management and wellhead protection program support; source water protection, groundwater withdrawal permitting within the Susquehanna River Basin Commission (SRBC) and Delaware River Basin Commission (DRBC), Phase I Hazardous, Toxic and Radioactive Waste (HTRW) studies along the Monongahela River; environmental site investigations (PA Act 2, RCRA, and CERCLA); flood stage analyses; and geophysical studies, including seismic surveys, side scan sonar, resistivity profiles, down-hole televising, and vibration studies.
- Additional project experience includes investigations related to: bridge and highway design; bridge scour reports; dam design and replacement; slope stability; mine subsidence and sinkholes; coal and non-coal surface mine permitting; mineral reserve analyses; beneficial use permits; landfill designs and closures; UST investigations, soil-gas surveys, and third party oversights.
- Project communication often included efforts with key personnel from Federal agencies, State agencies, and private industry, including Environmental Protection Agency (EPA), Federal Emergency



Dennis A. Roman, P.G.

Management Agency (FEMA), Pennsylvania Department of Environmental Protection (PADEP), Department of General Services (DGS), SRBC, DRBC, Pennsylvania Department of Transportation (PENNDOT), and the Pennsylvania Turnpike Commission (PTC).

Affiliations

Pennsylvania Council of Professional Geologist (PCPG-Corporate)

Certifications

Licensed Professional Geologist: Pennsylvania, No. PG-001726-G (1995)

Licensed Professional Geologist: Kentucky, No. 2064 (1994)(Expired)

PENNDOT, Level II Certification, (1996)

16-Hour Confined Space Entry Program, (1996)

8-Hour Hazardous Waste Site Supervisor's Certification – OSHA, (1993)

CPR/First Aid Certification, Annual Re-certifications, (1990)

AMTRAK Contractor Employee Safety Training, No. 6229, (1989)

OSHA Approved Annual 8-Hour Hazardous Materials Operations Refresher Courses, (1989-1998)

40-Hour Hazardous Materials Health and Safety Training – OSHA, (1988)

Chronology

2003 – Present/URS Corporation, Senior Geologist Project Manager

September 2000 – October 2003/Cincinnati Insurance Companies, Representative

November 1988 – September 2000/Gannett Fleming, Inc., Project Geologist/Hydrogeologist

June 1987 – November 1988/Earthtech, Inc., Geologic Technician

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Dennis_Roman@urscorp.com



Randy Crispino

Environmental Scientist

Areas of Expertise

Ambient Air Monitoring Programs
Soil and Soil Vapor Sampling
Boring and Well Installation
Micropile Installation/Inspection

Years of Experience

With URS: 9 Years
With Other Firms: 1 Year

Education

Drexel University, B.S.,
Environmental Science, 2003

Overview

Mr. Crispino has over 10 years experience as a geoscientist and he has been involved in various geotechnical and environmental Phase I and II Site Investigations. He has also been involved in construction projects where he has coordinated site safety, environmental oversight, performed air and soil monitoring/sampling, and has provided contractor oversight on various projects.

Project Specific Experience

Former Manufactured Gas Plant (MGP) Experience

- For the last six years Mr. Crispino has been involved in several site characterization investigations and remediation of former MGP sites located in Pennsylvania. Mr. Crispino's involvement has included health and safety plan preparations, report preparation, on-site ambient air and soil vapor sampling, strategic planning and implementation of field investigations, public relations, oversight of field activities; including setup and sampling of post-excavation samples following remedial site activities; and interim and final reporting. These projects have been carried out under Pennsylvania's Land Development program (Act 2).

International Business Machines

- Mr. Crispino has been involved with managing this project for the last 2 years and has been responsible for completing an AST closure, Site and off-site soil vapor closure reports, and numerous semi-annual groundwater sampling reports for submittal to New York State Department of Environmental Conservation (NYSDEC).

Williams Gas Pipeline-Transco

- Conducted numerous Phase II site investigation projects involving well and soil boring installation/sampling, exploratory test pits, and geophysical surveys.

Field Skills

- Hydrogeologic testing of wells using electronic data loggers;
- Rotary sonic drilling;
- Soil, groundwater, and surface-water sampling;
- GeoProbe subsurface soil collection;
- General oversight of field activities;
- Oversight of a large scale micropile installation/inspection team;
- Accomplished various projects involving soil vapor sampling and installation, groundwater well sampling and installation;
- Proficient using photo-ionization detectors, specific multi-gas monitors, dosimeters, dust monitors, and water & air quality instruments;



Randy Crispino

- Electronic database manager for a complex due-diligence project;
- Worked as on-site supervisor in installation of landfill cells;
- Performed numerous laboratory tests on soil samples for geotechnical engineering purposes;
- Assisted in a facility demolition analysis for a prominent chemical company;
- Very familiar with a wide range of soil laboratory procedures.

Communications/Computer Skills

Mr. Crispino has a wide variety of experience with different software, including expert use of basic office software, such as Word, Excel, and PowerPoint, and scientific software such as WRPLOT, Surfer, AutoCAD, and TransCAD. Mr. Crispino has also used a variety of software to compile boring and well logs (such as GiNT).

Certifications

OSHA (29CFR 1910.120) 40-Hour Health and Safety Training, 2003
Troxler™ Nuclear Gauge Certificated
DOT Hazardous Material Training, 2007
OSHA 8-Hour Supervisor Training, 2008
OSHA 8-Hour Refresher Training, 2008
Red Cross First Aid Training, 2009
Process Safety Management (PSM) Training, 2009

Chronology

2003 – Present/URS Corporation, Environmental Scientist
2001-2002/URS Corporation, Environmental Intern
2000/Philadelphia Water Department – Industrial Waste Unit,
Environmental Intern

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