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Header 2

List View

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 254223

SO Doc Code: CRFQ

Procurement Type: Central Master Agreement

SO Dept: 0313

Vendor ID: 000000235125

SO Doc ID: DEP1700000013

Legal Name: ARCADIS US INC

Published Date: 2/3/17

Alias/DBA:

Close Date: 2/14/17

Total Bid: \$331,388.00

Close Time: 13:30

Response Date: 02/14/2017

Status: Closed

Response Time: 10:08

Solicitation Description: Addendum 1- Op., Maint. and Monitoring Vienna PCE Site

Total of Header Attachments: 2

Total of All Attachments: 2



Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder : 254223

Solicitation Description : Addendum 1- Op., Maint. and Monitoring Vienna PCE Site

Proc Type : Central Master Agreement

Date issued	Solicitation Closes	Solicitation Response	Version
	2017-02-14 13:30:00	SR 0313 ESR02141700000003817	1

VENDOR

000000235125

ARCADIS US INC

Solicitation Number: CRFQ 0313 DEP1700000013

Total Bid : \$331,388.00

Response Date: 2017-02-14

Response Time: 10:08:55

Comments:

FOR INFORMATION CONTACT THE BUYER

Jessica S Chambers
(304) 558-0246
jessica.s.chambers@wv.gov

Signature on File

FEIN #

DATE

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	See pricing page for item listing				\$331,388.00

Comm Code	Manufacturer	Specification	Model #
77121707			

Extended Description :	All references in the Specifications, Exhibits, and Drawings to brand or manufacturer specific items are included only to establish a quality level for materials, products or equipment provided to fulfill the Contract, and thus should be considered to be followed by the words, or equal.
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Jessica S. Chambers, Buyer
Office of the Bid Clerk
Department of Administration
Purchasing Division
2019 Washington Street E
Charleston, WV 25304

Arcadis U.S., Inc.
300 Metro Center Boulevard
Suite 250
Warwick
Rhode Island 02886
Tel 401 738 3887
Fax 401 732 1686
www.arcadis.com

Subject:
Proposal for Operation, Maintenance and Monitoring of the Vienna PCE
Site Solicitation No. CRFQ 0313 DEP1700000013

ENVIRONMENT

Date:
February 14, 2017

Dear Ms. Chambers:

Contact:
Ira Buchanan

Arcadis US, Inc. (Arcadis) is pleased to present The State of West Virginia with this scope of services related to the operation, maintenance, and monitoring (OMM) of the groundwater treatment system at the Vienna Superfund Site (Site) located in Vienna, West Virginia.

Phone:
276.284.2831

Email:
Ira.buchanan@arcadis.com

Key reasons to retain Arcadis for this important work include:

More than 50 years of OMM and system optimization

Our ref:
66043062.0001

Arcadis has more than 50 years of experience in performing OMM for our clients, during which we have adjusted to the applicable compliance and regulatory updates. Arcadis achieves continuous improvement and technical excellence in project execution and reporting using Arcadis Quality Procedures (QPs), Standard Operating Procedures (SOPs), and Best Practices (BPs). QPs are developed to provide efficiency, reduction of errors and omissions, and avoidance of health and safety incidents in routine work. SOPs and BPs are more specialized documents for specific tasks, such as conducting groundwater sampling, collecting asbestos samples, or measuring airborne contaminant concentrations. Applicable QPs, SOPs, and/or BPs are selected and identified during project planning based on risk, technical complexity and/or client/regulatory requirements and implemented by project teams at various phases of the project to verify that Arcadis work products and deliverables are consistent with the Arcadis QP.

Arcadis will use appropriate data management tools along with current existing site documents (e.g., OMM Manual and project specific SOPs) to provide safe, regulatory compliant, and cost effective services. We will manage OMM data using established, commercially-available database/spreadsheet packages tools developed specifically for the collection and management of environmental data (i.e., oriented toward compliance, reporting, schedule, metrics, and overall site goals).

Technical Knowledge and Innovation:

Our Technical Knowledge and Innovation (TKI) group leads the industry in providing unparalleled technical expertise to our clients. TKI is a highly-evolved network of professionals that have technically-oriented functional roles designed to translate our technical excellence into business value for our clients. TKI support is available to assist with any project to provide the best technical solutions and help clients meet their objectives cost-effectively.

Health & Safety Focus and Performance:

Arcadis has developed a robust safety program and a zero-incident culture on our project sites. We incorporate our safety principles into the planning and execution of all our projects. The company employee modification rate for 2016 is 0.67, which is below the national average. Arcadis' Health and Safety Program is described in more detail later in this proposal.

This proposal presents our proposed project approach and a project cost for completion of the OMM work as described below.

BACKGROUND AND TECHNICAL OBJECTIVES

Objectives

The West Virginia Purchasing Division is soliciting bids on behalf of The West Virginia Department of Environmental Protection to establish an open-end contract for the operation and maintenance of the groundwater remediation system at the Vienna Perchloroethylene (PCE) Superfund site in Vienna, West Virginia per the specifications and terms and conditions as included in the Request for Quotation.

PROJECT APPROACH

Arcadis will perform OMM activities at the Site using a combination of field-based technicians and office-based project management staff. In the field, Arcadis will provide one lead operator. As necessary, Arcadis will supplement the project field staff with additional Arcadis technicians to perform more labor-intensive tasks, such as groundwater monitoring or major system cleaning or maintenance tasks.

Arcadis OMM philosophy revolves around the issue of cost control while maintaining compliance and health and safety. We recognize that it is paramount that costs be controlled and, to the extent possible, driven downward. Arcadis objectives for the OMM program for this project are as follows:

- **Maintain Basic OMM Services** – Provide basic OMM services using a low-cost profile, be fully compliant, be safe, and be efficient. These activities are mission critical and considered more of expectation than an objective.

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- **Create Value** – Apply strategic thinking to seek out solutions that save money and reduce liability. This would include both short- and long-term value opportunities and potential capital improvements that would yield a positive return on investment, and annual cost reductions through productivity gains, cost reductions, and cost avoidances.
- **Institutional Memory** – Create and exploit a “single line of sight” to establish continuity and a consistent OMM approach. Continually evaluate project team members and integrate new team members where appropriate.
- **Best Practice** – Take advantage of Arcadis experience in the OMM marketplace, and integrate “best-in-class” practices into the management of these sites.
- **Best Team Approach** – OMM projects often involve challenges that require higher-level engineering, scientific, and regulatory support. For this work, we have resources who can provide innovative and technically sound solutions, as well as advise on how best to communicate with federal, state, and local regulators. These individuals provide the necessary expertise while not burdening the project cost structure with full-time engagement. Arcadis applies a “best-team” approach that engages the best and most cost-effective resources to complete our clients’ projects regardless of company affiliation or geographic location without jeopardizing project safety or compliance standards. We have proven this commitment via our teaming arrangements on many OMM projects.

Arcadis will take a strong local field-focused approach to this project focusing on proven, practical field solutions and enhancements that relate directly to our overriding project objectives of safety, compliance and cost efficiency. This approach begins with staffing with Arcadis’ highly skilled and well trained lead operators who, by training and culture, will make the site their own. Our high-performance operators are expected to be “a jack of all trades,” responsible for all facets of the system OMM and general facility management. Our operators take great pride and a strong sense of ownership in the sites that they manage. Similarly, our proposed management team consists of OMM professionals whose singular career focus is design and operation of remedial treatment systems. The proposed management team knows how to manage OMM work because all team members have extensive field experience. This understanding of real-world conditions allows our project management team to connect seamlessly with our OMM operator and technicians at the site.

ASSUMPTIONS

Arcadis will provide OMM services outlined in the RFQ on a unit price basis. All reporting, and project management will be performed on a time and materials basis as requested by the RFQ.

FIRM QUALIFICATIONS

Arcadis recently reshaped our business model to drive commercial efficiencies to meet market demands. Our response was the development of Arcadis FieldTech Solutions (AFS) to complement our core complex environmental remediation service by offering a tailored low-cost delivery option that provides exactly what our clients need. AFS performs contracted services (not consulting), undertaking routine, straightforward tasks over an extended period of time and delivered with our continued commitment to compliant and safe operations. The AFS operating and delivery model elements include consistent, safe,

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and low-cost delivery of routine, non-complex service, provided by appropriately-trained, professional and non/professional (tradeskill) teams.

Our AFS team of dedicated experts specialize in streamlined, low-cost services that provide competitive pricing for routine, non-complex remediation activities, while maintaining compliance and safety protocols expected from Arcadis. Environmental Compliance activities where AFS can help lower costs include OMM. AFS focuses on cost control while maintaining comprehensive regulatory compliance and executing an industry-leading safety program. Average savings are between ten and twenty percent annually. By leveraging local resources with experienced project teams, AFS delivers immediate and long-term cost-savings.

AFS equates to Safe and Dependable Delivery / Exceptional Price

Remediation System Operation and Maintenance

Air Sparging/Soil Vapor Extraction

Arcadis staff is experienced in developing/designing, implementing, and/or operating soil vapor mitigation systems. We perform vapor intrusion assessments, vapor intrusion sampling including sub-slab environments, ambient air and outdoor air sampling, sub-slab vapor mitigation design, system installation and construction, operation, maintenance and monitoring. Settings have been varied and include a school, a daycare, residences, commercial businesses, and industrial facilities, among other settings. Actions have included sampling and assessment, with no further action, to large-scale systems with industrial blowers, activated carbon units, a moisture separator, chiller, heat exchanger, roof top vapor conveyance piping network, and continuous monitoring of flow and pressure transducers to adjust air balance valves in the suction piping to achieve targeted operational performance of the sub-slab depressurization system.

Arcadis is a leader in applying a strategic, multi-disciplinary approach to the vapor intrusion pathway including assessment, measurement and mitigation. We pride ourselves on our ability to efficiently conduct all aspects including investigation and characterization, data evaluation, risk assessment, mitigation, remediation, and regulatory negotiations.

Within Arcadis, vapor intrusion is a technical sub-discipline specialty with dedicated staff and resources aligned to address this issue nationwide. The technical sub-discipline lead and staff ensure that Arcadis stays up to date on the latest information and changes regarding vapor intrusion regulatory policy and research. In addition, the technical sub-discipline ensures that field methods are consistently applied across sites nationwide. Arcadis' in-depth understanding of the vapor intrusion pathway allows us to take an innovative and site-specific approach to design the best strategy at each site.

Arcadis routinely works with our clients to assess the potential for volatile compounds (i.e., VOCs, mercury, naphthalene, polychlorinated biphenyls [PCBs]) detected in soil and groundwater to volatilize and impact indoor air quality. In situations where mitigation or remedial measures may be warranted or required, Arcadis works with the stakeholders to develop the most appropriate mitigation measure for the site. Using a combination of sound regulatory strategy, proven investigative techniques, and specialized

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engineering expertise, Arcadis engineers and scientists work with our clients to achieve their mitigation or remediation goals.

Arcadis has extensive experience designing, implementing and monitoring both passive and active mitigation systems. Arcadis has constructed over 760 sub-slab depressurization systems at sites across the United States. Arcadis is currently conducting one of the largest vapor intrusion evaluation and mitigation projects in the nation. The site is over two square miles in areal extent, and more than 1,200 residential and commercial properties are located within the study area.

Groundwater Monitoring

Arcadis has extensive experience related to groundwater monitoring for investigation purposes, remedial monitoring as well as post-remediation monitoring and reporting. Arcadis manages all aspects of groundwater sampling/monitoring, providing well installation, sample collection, data analysis, statistical evaluation, and reporting. Arcadis recognizes that groundwater quality issues represent some of our clients' largest and longest-lasting financial liabilities and takes a value-oriented business approach to long term monitoring on behalf of our clients. Our services consider all relevant business-related and technical aspects of a monitoring program. We tailor a monitoring strategy that shares our clients' objectives, focusing on cost control while maintaining comprehensive regulatory compliance and an industry leading safety program.

In our opinion, information management, coupled with strong communications, is the compliance backbone of monitoring projects and will drive the overall success of a program. A practical, usable information management tool, which is flexible to specific site needs, is necessary to achieve these goals. As such, for each long-term monitoring project we perform, Arcadis can incorporate a centralized data management system, along with routine program compliance reviews, to achieve compliance. In addition, Arcadis offers the technical skills and experience necessary to evaluate existing monitoring approaches and systems to provide the most cost efficient approaches for long-term groundwater monitoring.

REFERENCES

We have provided two client references for your use

Rayonier/Southern Wood Piedmont

Client Contact: Warren Snyder (904)321.5558

Within this portfolio there are six treatment systems ranging from 15 gallons per minute to 80 gallons per minute. Technologies included in these treatment systems are oil/water separators, clarifiers, multi-media filters, soil vapor extraction, and carbon adsorption. Arcadis has extensive experience in operating all of these technologies. Arcadis has also mobilized expert staff in these technologies to provide hands on training for these units. In addition, Arcadis has subcontracted manufacturers to mobilize to the site and provide training on their equipment.

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Derailment in Mt. Carbon, Confidential Client
Client Contact: Matt Atkins (770)819.2849

The Site is bound to the north and east (along its southeast-to-northwest trending river bank) by the Kanawha River. Armstrong Creek bounds the east side of the Site along the south-to-north trending creek bank. West Virginia Route 61 bounds the west side of the Site. The land use in the general vicinity of the Site is primarily residential. The Village of Boomer is situated on the eastern side of the Kanawha River. A residential subdivision, associated with the Town of Mount Carbon, is located on the southeastern side of Armstrong Creek.

Arcadis performed Emergency Response and remediation activities in response to the derailment of Train K08014 (loaded crude oil train) on February 16, 2015. The train derailed near milepost (MP) CA 424. A total of 27 railcars (cars 2 through 28) containing Bakken crude oil derailed, and the cargo ignited. Of the 27 railcars, 19 were involved in the ensuing fire. There were releases from a total of 20 cars ranging in volume from 0.5 gallon to the entire contents. The release was primarily limited to the railroad tracks, the area immediately surrounding the railroad tracks, and a downgradient residential property. Arcadis successfully mitigated the release of product to the nearby water way through the installation of a series of recovery sumps and interceptor trenches, as well as installation of a 416-foot metal sheet pile wall and two separate Aquablok® groundwater containment walls. Remediation techniques employed include, excavation, vacuum extraction, and installation of RCM and filter matting. The project was entered into the Voluntary Remediation and Redevelopment Program in December 2016 and will ultimately receive a risk based closure.

PROJECT TEAM

Arcadis has developed a strong team, with the requisite experience and certification to carry out the OMM for the West Virginia Vienna Superfund Site. Our team will be managed by Ira Buchanan with a two-man field team including John Nelson and Keith Carr. Resumes for John and Keith and their certifications are provided in Attachment 1.

PRICING PAGES

The completed Pricing Pages for this work is included as Attachment 2.

SIGNED FORMS

Attachment 3 to this document includes signed forms and acknowledgements. Original documents can be provided as needed.

TERMS AND CONDITIONS

Arcadis would amend item 13. Payment, on page 15 of the CRFQ (terms and conditions), by adding:

The State of West Virginia agrees to pay Vendor's undisputed invoices within thirty (30) days after receipt of each invoice.

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HEALTH & SAFETY

ARCADIS' HEALTH AND SAFETY PROGRAM

Arcadis empowers its staff to "Stop Work" any time they do not feel it is safe to proceed. This empowerment is highly supported with education, tools, processes, resources, equipment and procedures that allow Arcadis staff to identify, assess and control hazards in the workplace and at home. More importantly, all Arcadis staff are stewards of Health & Safety, robustly led by the senior leaders and managers of the company who help drive the commitment to health and safety in all that we do every day.

A Real Commitment, A Daily Issue: Safety

ARCADIS

Arcadis understands that health and safety hazards exist in all aspects of our business, and that our employees, subcontractors, clients and stakeholders set a high expectation that we will provide protection from those hazards. To meet these expectations, Arcadis has a robust and comprehensive H&S program that is driven by our senior management. The program is designed to be proactive and emphasizes eliminating hazards first and then controlling them if they cannot be eliminated to minimize the potential risk for losses.

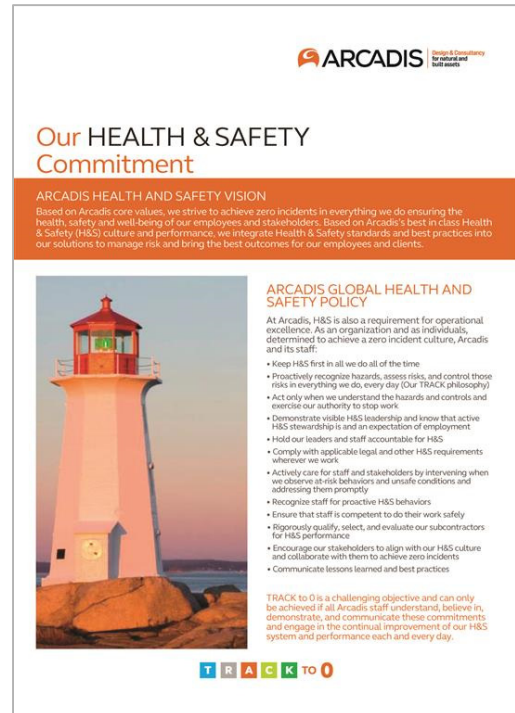
Arcadis drives business on four pillars: H&S, Technical Excellence, Operational Excellence and Client Focus. Because of this, H&S is a fundamental core value at Arcadis. The assimilation of this value by all employees into our culture at work and at home, and in the solutions we provide our clients, continues to expand worldwide throughout Arcadis.

Globally, Arcadis has an H&S management system that is modeled after internationally recognized systems such as the Occupation Health and Safety Assessment Series (OHSAS) 18001 H&S management system. It was formally initiated when the Arcadis global Executive Board approved the H&S vision and policy statement that forms the basis for the management system. Our H&S vision is presented in the figure on the right and is the focal point of the global program.

In the U.S., Arcadis' H&S program includes standards, processes and elements that meet OSHA and other H&S requirements as applicable. These proactive tools, along with risk tools that provide a component of behavior-based safety, go beyond compliance in our efforts to protect our staff from work-related injuries and illness.

Arcadis continues to look for innovative ways to conduct our business, which includes H&S. We will continue to strive to be better at protecting our staff, subcontractors, clients and the communities within which we work and live.

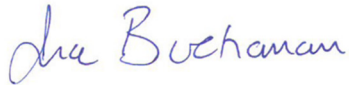
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Jessica S. Chambers
February 14, 2017

Sincerely,

Arcadis U.S., Inc.



Ira Buchanan, LRS
Certified Project Manager

Attachments:

- 1 – Team Resumes and Certifications
- 2 – Pricing Pages
- 3 – Signed Forms and Acknowledgements

This proposal and its contents shall not be duplicated, used or disclosed — in whole or in part — for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of — or in connection with — the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.

ATTACHMENT 1

Team Resumes and Certifications



JOHN NELSON

AFS TASK LEADER 3

EDUCATION

BA Fine Arts, Concord University,
2011

YEARS OF EXPERIENCE

Total – 8 years

With Arcadis – 8 years

PROFESSIONAL QUALIFICATIONS

40hr. HAZWOPER

8hr. HAZWOPER Refresher

8hr. HAZWOPER Supervisor

OSHA 10hr. Construction Safety

OSHA 30hr. Construction Safety

Competent Person

CSX Roadway Worker Protection

DOT Hazardous Materials

DOT Security/Awareness Training

IATA Dangerous Goods

Transportation

LPS Initial 8hrs.

Mr. Nelson has more than eight years of experience conducting operations of groundwater remediation projects, field management, and task management. He has performed remediation and investigative activities including geoprobings, soil and water sampling, carbon injection, O&M, velocity testing, Phase I and Phase II investigations, SPCC audits, and natural gas sampling in the eastern United States. As an Arcadis Field Services Task Leader III, Mr. Nelson also conducts employee and event scheduling, project organization, Health and Safety stewardship, and regulatory reporting.

Project Experience

Field Investigation

BP Products North America, Inc.

Worked in multiple field investigations and environmental remediation activities including east coast retail portfolios in OH. Scope includes Operations & Maintenance systems installation, groundwater monitoring, groundwater sampling, soil sampling, site assessments, monitoring well installations, field management, development of health and safety standards, and reporting.

Field Investigation/Remediation

Chevron Environmental Management Company, WV

Participated in multiple field investigations and environmental remediation activities including east coast retail portfolios in WV. Scope includes Operations & Maintenance systems, groundwater monitoring, groundwater sampling, soil sampling, tank excavations, site assessments, monitoring well installations, field management, development of health and safety standards, task management, reporting.

On-Site Field Work

Confidential Manufacturer

Remediation team member for large scale on-site in-situ remediation efforts. Responsible for the planning and execution of remedial activities for a multi-faceted ongoing groundwater remediation project. Additional responsibilities include developing schedules, calculating amendment/reagent volumes, and construction of gravity feed systems for injected subsurface amendments. On-site field work consists of ensuring

Project Experience Continued

the accuracy of mixed amendment components to be injected into injection wells. Other responsibilities include assessment and documentation of site conditions. Due to the sensitive material handled at the site, each worker must understand and be able to follow strict client requirements, as well as federal, state and local regulations. ARCADIS has demonstrated the ability to follow procedures and regulations in order to comply with site requirements.

Multiple Field Investigations

Confidential Company

Participated in multiple field investigations and environmental remediation activities including east coast retail portfolios in WV, NC, PA, OH, and VA and Virginia Carolina Chemical portfolios in NC, SC, VA, GA, IL and AL. Scope includes site assessments, groundwater samplings, soil sampling, O&M operations, groundwater monitoring well installations, site characterizations, air monitoring, excavations, development of H&S standards, field management and reporting.

Groundwater Monitoring

Marathon Oil, WV, VA, PA, OH

Worked on multiple field events including groundwater monitoring, groundwater sampling, contact sampling, O&M system maintenance, site assessments, H&S development, and field event coordination in WV, PA, OH, and KY.

Site Maintenance

Marathon Oil, OH

Perform site maintenance, Carbon Injections, DOT transportation, groundwater monitoring well sampling

Sampling and Investigation

Confidential Rail Company, WV

Groundwater Sampling, O&M, Free product Recovery, UECA Site Investigation

Derailment Response

Confidential Rail Company, WV, VA

Initial and follow-up response and field coordination of derailment response activities, Site investigation, Reporting

Field Management

Celanese Corporation, VA

Field management of RCRA Site Investigation including oversight of field activities including Groundwater Monitoring Well Installations, Groundwater and Surface Water Sampling, Soil Sampling, Client Relations, Field Event Coordination, Health and Safety Supervision, and Reporting.

W. KEITH CARR

SENIOR FIELD TECHNICIAN

YEARS OF EXPERIENCE

Total – 18 years

With Arcadis – 8 years

PROFESSIONAL QUALIFICATIONS

40hr. HAZWOPER

8hr. HAZWOPER Refresher

8hr. HAZWOPER Supervisor

OSHA 10hr. Construction Safety

WV Certified Monitoring Well

Driller

WV Class B UST Certification

Competent Person

CSX Roadway Worker Protection

DOT Hazardous Materials

DOT Security/Awareness Training

IATA Dangerous Goods

Transportation

LPS Initial 8hrs.

Mr. Carr has 18 years of field experience in the environmental service field including eight years with Arcadis providing services to a full cross section of industries.

Project Experience

Operation and Maintenance

West Virginia Department of Environmental Protection

Responsible for operation and maintenance of three sites.

Installation of Soil Vapor Extraction System

Confidential Client, Gladys, Virginia

Assisted in all aspects of system installation

Geoprobe Activities

Radford, Virginia

Conducted Geoprobe activities at the Radford Arsenal Ammunitions Plant (RAAP).

Free Product Recovery

Confidential Railway Company

Performed free product recovery at a Bldf., WV facility.

Groundwater Monitoring

Radford, Virginia

Performed quarterly groundwater monitoring at the Radford Arsenal Ammunitions Plant (RAAP).

Excavation Activities

Radford, Virginia

Excavation of lead contaminated soil including soil confirmation sampling, manifesting, and truck loading.



Compliance Solutions

"Today's Training... Tomorrow's Solution"

10515 E 40th Ave, Suite 116, Denver Colorado 80239 800-711-2706

Student Affiliation:

Arcadis-US

200702297

Certificate of Completion

This is to certify that

John Nelson

has successfully completed the training requirements for

40 Hour HAZWOPER

29 CFR 1910.120(e)

Presented

Friday, September 05, 2008

Compliance Solutions Occupational Trainers, Inc.

Certificate Number: 754786094

Neval Gupta
Vice President

William Boyle
Instructor

CERTIFICATE OF TRAINING

John Nelson

has completed: HazWoper Refresher (Event/Classroom)

In accordance with 29 CFR 1910.120

on 6/10/2016

Instructor Name: Andrew McDonald

Professional Development Hours: 3

Continuing Education Units: .3



A handwritten signature in black ink that reads "Patricia A. Vollertsen".

Patricia A Vollertsen
H&S Training and Program Development

Certificate of Training
This Document Certifies That
Keith Carr

HAS SUCCESSFULLY COMPLETED THE OSHA REQUIRED
40 HOUR
HEALTH AND SAFETY TRAINING
COMPLYING WITH OSHA STANDARD
29 CFR 1910 . 120



**INTERNATIONAL
INC**

Petrick P. Thornton GETASP
PROGRAM DIRECTOR

CERTIFICATE #: 1921
8/14/97
DATE OF COMPLETION

8 Hr HAZWOPER Refresher
29 CFR 1910.120(e)(8)
has been successfully completed by
William Carr

DATE: 08/26/2016



Authorized Instructor

T.R.Consulting, Inc.
5351 Setters Way
CO Sprgs CO 80919
(719) 359-8467



ATTACHMENT 2

Pricing Pages



EXHIBIT "A"
PRICING PAGE
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Operation, Maintenance, and Monitoring of Vienna PCE

Item	Specification	Description	(Or Equal)Brand Bid	Unit of Measure	Unit Cost	Est.Qty	Extended Cost
1	4.1.2	Sampling of groundwater monitoring wells		Per Well	380	39	14820.00
2	4.1.2	Sampling of AS/SVE monitoring wells		Per Well	490	26	12740.00
3	4.2.2	Project Manager (for tasks not listed)		Hour	90	750	67500.00
4	4.2.3	System Operator (for tasks not listed)		Hour	75	1,100	82500.00
5	4.2.8	Report Writing		Hour	70	500	35000.00
6	4.2.3	Check/record readings from all instruments, meters, and gauges		Each	180	52	9360.00
7	4.2.3	Check overall plant operations		Each	90	52	4680.00
8	4.2.3	Check Operator Interface Terminal/Programmable Logic Controller for alarm conditions (per event)		Each	36	52	1872.00
9	4.2.3	Check all valve positions		Each	90	52	4680.00
10	4.2.3	Check oil levels on all blowers and air compressors		Each	36	52	1872.00
11	4.2.3	Check differential pressure across inline air inlet filters (SVE blowers)		Each	36	52	1872.00

EXHIBIT "A"
PRICING PAGE
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Operation, Maintenance, and Monitoring of Vienna PCE

12	4.2.3	Check differential pressure across bag filters Treatment Unit 3		Each	36	52	1872.00
13	4.2.3	Check differential pressure across liquid-phase Granular Activated Carbon vessels Treatment Unit 3		Each	36	52	1872.00
14	4.2.3	Check DD range (coalescing) and PDX (particulate) filter service indicators on air compressors		Each	36	52	1872.00
15	4.2.3	Check oil temperature on all equipment		Each	18	52	936.00
16	4.2.3	Log system flow rates air sparge system, vacuum system, groundwater		Each	360	52	18720.00
17	4.2.3	Clean inside and outside of unit building		Each	90	52	4680.00
18	4.2.3	Start system for maintenance and readiness		Each	45	52	2340.00
19	4.2.3	Check air compressors for possible leaks		Each	45	52	2340.00
20	4.2.3	Check off-gas treatment vessels and stacks for moisture collection, and drain as necessary		Each	90	12	1080.00

EXHIBIT "A"
PRICING PAGE
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Operation, Maintenance, and Monitoring of Vienna PCE

21	4.2.3	Check SVE sumps and drains (pump out) as necessary		Each	170	12	2040.00
22	4.2.3	Grease SVE blower drive shaft bearings with National Lubricating Grease Institute (NLGI) #2		Each	170	12	2040.00
23	4.2.3	Inspect air filter, oil cooler, condenser, and air cooler, and clean as necessary (air compressors)		Each	170	12	2040.00
24	4.2.3	Inspect the condensate trap and clean flow valve as necessary (air compressors)		Each	170	12	2040.00
25	4.2.3	Check tension and condition of belts and adjust as necessary (SVE blower and air compressor)		Each	170	12	2040.00
26	4.2.3	Restart computers		Each	90	12	1080.00
27	4.2.3	Turn all valves		Each	690	4	2760.00
28	4.2.3	Grease all motors with NLGI #2 (SVE blower and air compressors)		Each	210	4	840.00
29	4.2.3	Lubricate air conditioner fan motors		Each	210	4	840.00
30	4.2.3	Change gear-box oil (SVE blowers)-every 1,000 hours		Each	610	2	1220.00

EXHIBIT "A"
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Operation, Maintenance, and Monitoring of Vienna PCE

31	4.2.3	Lubricate exhaust fan motors with SAE20 non- detergent oil		Each	305	2	610.00
32	4.2.3	Lubricate roll up doors		Each	155	2	310.00
33	4.2.3	Change eye wash liquid		Each	305	2	610.00
34	4.2.3	Clean / drain moisture separator (SVE)		Each	460	2	920.00
35	4.2.3	Grease fittings on SVE blowers		Each	300	1	300.00
36	4.2.3	Grease transfer pump motors with NLGI #2, disassemble and inspect and clean impeller housing as needed		Each	1200	1	1200.00
37	4.2.3	Have safety relief valves tested on air compressors (separator tank)		Each	800	1	800.00
38	4.2.3	Perform comprehensive test on air compressors by certified service technician		Each	2000	1	2000.00
39	4.2.3	Replace DD and PDX, oil/air filters on air compressors		Each	900	1	900.00
40	4.2.3	Change oil in air compressors (separator tank)		Each	400	1	400.00
41	4.2.3	Clean air compressors		Each	600	1	600.00
42	4.2.3	Inspect fire extinguishers		Each	300	1	300.00
43	4.2.3	Change bag filters when DP reaches 12 psig		Each	200	1	200.00

EXHIBIT "A"
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Operation, Maintenance, and Monitoring of Vienna PCE

44	4.2.3	Change out or backwash liquid phase when GAC media becomes spent		Each	12000	1	12000.00
45	4.2.3	Check EW-1 well vault for leaks		Each	200	1	200.00
46	4.2.3	Check pull boxes for leaks		Each	400	1	400.00
47	4.2.3	Clean or replace blower inlet air filers		Each	350	1	350.00
48	4.2.3	Clean AC intake filter		Each	200	1	200.00
49	4.2.3	Empty condensate collection drums at TU2		Each	300	1	300.00
50	4.2.3	Pull and check extraction well pump for bio-fouling		Each	1100	1	1100.00
51	4.2.3	Shock chlorinate extraction well as needed		Each	900	1	900.00
52	4.2.3	Clean transformers		Each	300	1	300.00
53	4.2.3	Clean exhaust fan blades and motor		Each	350	1	350.00
54	4.2.3	Clean or replace SVE blower filter element		Each	500	1	500.00
55	4.2.6	Oil filter for air sparge systems		Each	90	2	180.00
56	4.2.6	Air filter for air sparge systems		Each	47	2	94.00
57	4.2.6	Belts for air sparge systems		Each	88	2	176.00
58	4.2.6	Solenoid Valve for Air Sparge Systems	*H2K Model 8210G94	Each	254	2	508.00

EXHIBIT "A"
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Operation, Maintenance, and Monitoring of Vienna PCE

59	4.2.6	Flow meter for Air Sparge Systems	*King Instruments Model 7450	Each	485	2	970.00
60	4.2.6	Demister pad for SVE Systems	*H2K Model 4x23-SST	Each	354	2	708.00
61	4.2.6	Vacuum Gauge (0-60" wc vacuum) for SVE Systems	*H2K model 611.10	Each	63	2	126.00
62	4.2.6	32-inch level switch assembly for SVE Systems	*H2K	Each	464	2	928.00
63	4.2.6	Differential pressure gauge for SVE Systems	*H2K model 2-5003NPT	Each	125	2	250.00
64	4.2.6	2"B+ venturi for SVE Systems	*H2K	Each	395	2	790.00
65	4.2.6	Belt set for SVE Systems		Each	80	2	160.00
66	4.2.6	Filter element for SVE Systems	*H2K model 235P	Each	218	2	436.00
67	4.2.6	Oil for SVE Systems		Per Gallon	40	20	800.00
68	4.2.6	Screen 18x18 mesh for VC Vessels	*H2K model SST	Each	147	2	294.00
69	4.2.6	23" Gasket for VC Vessels	*H2K	Each	59	2	118.00
70	4.2.6	Mechanical shaft seal Transfer pumps	*H2K model CT-SEAL	Each	110	2	220.00
71	4.2.6	Oil-food grade for air sparge systems		Per Gallon	130	20	2600.00
72	4.2.6	SST Lateral for TU 3 liquid phase carbon	*H2K model LC-007SSTLAT	Each	183	2	366.00
73	4.2.6	SST Hub for TU 3 liquid phase carbon	*H2K model LC-007SSTHUB	Each	2318	2	4636.00

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Operation, Maintenance, and Monitoring of Vienna PCE

74	4.2.6	Manway gasket for TU 3 liquid phase carbon	*H2K model 12x16GAS	Each	55	2	110.00
75	4.2.6	25 micron bag filter for TU 3 Bag Filters	*H2K model KE25	Each	9	2	18.00
76	4.2.6	O-ring for bag filter housing lid for TU 3 Bag Filters	*H2K model KK-ORING 2	Each	31	2	62.00
77	4.2.6	Differential pressure switch (4-80 PSI) TU3 Bag Filters	*Barksdale model DPD1T-GH80SS	Each	440	2	880.00
78	4.2.6	Filter basket for TU3 Bag Filter		Each	330	2	660.00
						TOTAL BID AMOUNT	331388.00

Quantities listed are for bidding purposes only. Actual quantities may differ.

EXHIBIT "A"
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Operation, Maintenance, and Monitoring of Vienna PCE

* All references in the Specifications and Attachments to brand or manufacturer specific items are included only to establish a quality level for materials, products or equipment provided to fulfill the Contract, and thus should be considered to be followed by the words, "or equal".

Company Name: Arcadis U.S., Inc.
Contact: Ira Buchanan
Street Address: 111-D Sanders Lane
City, State, and Zip: Bluefield, VA 24605
Phone Number: 276.284.2831
Fax Number: 276.322.3946

ATTACHMENT 3

Signed Forms and Acknowledgements





Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Request for Quotation
34 – Service - Prof

Proc Folder: 254223

Doc Description: Addendum 1- Op., Maint. and Monitoring Vienna PCE Site

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2017-02-03	2017-02-14 13:30:00	CRFQ 0313 DEP1700000013	2

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

Arcadis U.S., Inc.

111-D Sanders Lane

Bluefield, VA 24605

T: 276.322.3879 x 23802

Direct: 276.284.2831

FOR INFORMATION CONTACT THE BUYER

Jessica S Chambers

(304) 558-0246

jessica.s.chambers@wv.gov

Signature X

FEIN # 57-0373224

DATE February 10, 2017

All offers subject to all terms and conditions contained in this solicitation

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Ira Buchanan
 (Name, Title)
Ira Buchanan, LRS , Certified Project Manager 3
 (Printed Name and Title)
111-D Sanders Lane, Bluefield, VA 24605
 (Address) Direct: 276.284.2831
T: 276.322.3879 x 23802 | M: 276.730.4692 | F: 276.322.3946
 (Phone Number) / (Fax Number)
ira.buchanan@arcadis.com
 (email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Arcadis U.S., Inc.
 (Company)
Ira Buchanan
 (Authorized Signature) (Representative Name, Title)
Ira Buchanan, LRS , Certified Project Manager 3
 (Printed Name and Title of Authorized Representative)
February 13, 2017
 (Date)
Direct: 276.284.2831
T: 276.322.3879 x 23802 | M: 276.730.4692 | F: 276.322.3946
 (Phone Number) (Fax Number)

REQUEST FOR QUOTATION
Operation and Maintenance of the groundwater remediation system at the Vienna
Perchloroethylene (PCE) Superfund site

10.2.3 Any other remedies available in law or equity.

11. MISCELLANEOUS:

11.1 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Ira Buchanan

Telephone Number: 276.284.2831

Fax Number: 276.322.3946

Email Address: ira.buchanan@arcadis.com

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Arcadis U.S., Inc.

Authorized Signature: [Signature] Date: 02/13/17

State of Virginia

County of Lazear, to-wit:

Taken, subscribed, and sworn to before me this 13th day of February, 2017.

My Commission expires March 31, 2017.

AFFIX SEAL HERE

NOTARY PUBLIC

M. Jane Perdue Adams

Purchasing Affidavit (Revised 08/01/2015)

*I was commissioned a notary public
as M. Jane Perdue*

M. JANE PERDUE
NOTARY PUBLIC
REG. #7556275
COMMONWEALTH OF VIRGINIA
MY COMMISSION EXPIRES MARCH 31, 2017

WV-10
Approved / Revised
12/16/15

State of West Virginia

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 Vendor Preference, if applicable.

1. **Application is made for 2.5% 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;
☐ Bidder is a resident vendor partnership, association, or corporation with at least eighty percent of ownership interest of bidder held by another entity that meets the applicable four year residency requirement; **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% 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% vendor preference for the reason checked:**
☐ Bidder is a nonresident vendor that employs a minimum of one hundred state residents, or a nonresident vendor which has an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia and employs a minimum of one hundred state residents, and for purposes of producing or distributing the commodities or completing the project which is the subject of the bidder's bid and continuously over the entire term of the project, on average at least seventy-five percent of the bidder's employees or the bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years and the vendor's bid; **or**,
4. **Application is made for 5% 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% 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% 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.
7. **Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with *West Virginia Code* §5A-3-59 and *West Virginia Code of State Rules*.**
☐ Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

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) rescind the contract or purchase order; 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.

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: Arcadis U.S., Inc.

Signed: *Ann Bezkann*

Date: February 10, 2017

Title: Certified Project Manager 3

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

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ 0313 DEP1700000013

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

☒ Addendum No. 1	☐ Addendum No. 6
☐ Addendum No. 2	☐ Addendum No. 7
☐ Addendum No. 3	☐ Addendum No. 8
☐ Addendum No. 4	☐ Addendum No. 9
☐ Addendum No. 5	☐ Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further 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.

Arcadis U.S., Inc.

Company

Ann Buchanan

Authorized Signature

February 10, 2017

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
 Revised 6/8/2012

EXHIBIT "A"
PRICING PAGE
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Operation, Maintenance, and Monitoring of Vienna PCE

Item	Specification	Description	(Or Equal)Brand Bid	Unit of Measure	Unit Cost	Est.Qty	Extended Cost
1	4.1.2	Sampling of groundwater monitoring wells		Per Well	380	39	14820.00
2	4.1.2	Sampling of AS/SVE monitoring wells		Per Well	490	26	12740.00
3	4.2.2	Project Manager (for tasks not listed)		Hour	90	750	67500.00
4	4.2.3	System Operator (for tasks not listed)		Hour	75	1,100	82500.00
5	4.2.8	Report Writing		Hour	70	500	35000.00
6	4.2.3	Check/record readings from all instruments, meters, and gauges		Each	180	52	9360.00
7	4.2.3	Check overall plant operations		Each	90	52	4680.00
8	4.2.3	Check Operator Interface Terminal/Programmable Logic Controller for alarm conditions (per event)		Each	36	52	1872.00
9	4.2.3	Check all valve positions		Each	90	52	4680.00
10	4.2.3	Check oil levels on all blowers and air compressors		Each	36	52	1872.00
11	4.2.3	Check differential pressure across inline air inlet filters (SVE blowers)		Each	36	52	1872.00

EXHIBIT "A"
PRICING PAGE
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Operation, Maintenance, and Monitoring of Vienna PCE

12	4.2.3	Check differential pressure across bag filters Treatment Unit 3		Each	36	52	1872.00
13	4.2.3	Check differential pressure across liquid-phase Granular Activated Carbon vessels Treatment Unit 3		Each	36	52	1872.00
14	4.2.3	Check DD range (coalescing) and PDX (particulate) filter service indicators on air compressors		Each	36	52	1872.00
15	4.2.3	Check oil temperature on all equipment		Each	18	52	936.00
16	4.2.3	Log system flow rates air sparge system, vacuum system, groundwater		Each	360	52	18720.00
17	4.2.3	Clean inside and outside of unit building		Each	90	52	4680.00
18	4.2.3	Start system for maintenance and readiness		Each	45	52	2340.00
19	4.2.3	Check air compressors for possible leaks		Each	45	52	2340.00
20	4.2.3	Check off-gas treatment vessels and stacks for moisture collection, and drain as necessary		Each	90	12	1080.00

EXHIBIT "A"
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Operation, Maintenance, and Monitoring of Vienna PCE

21	4.2.3	Check SVE sumps and drains (pump out) as necessary		Each	170	12	2040.00
22	4.2.3	Grease SVE blower drive shaft bearings with National Lubricating Grease Institute (NLGI) #2		Each	170	12	2040.00
23	4.2.3	Inspect air filter, oil cooler, condenser, and air cooler, and clean as necessary (air compressors)		Each	170	12	2040.00
24	4.2.3	Inspect the condensate trap and clean flow valve as necessary (air compressors)		Each	170	12	2040.00
25	4.2.3	Check tension and condition of belts and adjust as necessary (SVE blower and air compressor)		Each	170	12	2040.00
26	4.2.3	Restart computers		Each	90	12	1080.00
27	4.2.3	Turn all valves		Each	690	4	2760.00
28	4.2.3	Grease all motors with NLGI #2 (SVE blower and air compressors)		Each	210	4	840.00
29	4.2.3	Lubricate air conditioner fan motors		Each	210	4	840.00
30	4.2.3	Change gear-box oil (SVE blowers)-every 1,000 hours		Each	610	2	1220.00

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Operation, Maintenance, and Monitoring of Vienna PCE

31	4.2.3	Lubricate exhaust fan motors with SAE20 non- detergent oil		Each	305	2	610.00
32	4.2.3	Lubricate roll up doors		Each	155	2	310.00
33	4.2.3	Change eye wash liquid		Each	305	2	610.00
34	4.2.3	Clean / drain moisture separator (SVE)		Each	460	2	920.00
35	4.2.3	Grease fittings on SVE blowers		Each	300	1	300.00
36	4.2.3	Grease transfer pump motors with NLGI #2, disassemble and inspect and clean impeller housing as needed		Each	1200	1	1200.00
37	4.2.3	Have safety relief valves tested on air compressors (separator tank)		Each	800	1	800.00
38	4.2.3	Perform comprehensive test on air compressors by certified service technician		Each	2000	1	2000.00
39	4.2.3	Replace DD and PDX, oil/air filters on air compressors		Each	900	1	900.00
40	4.2.3	Change oil in air compressors (separator tank)		Each	400	1	400.00
41	4.2.3	Clean air compressors		Each	600	1	600.00
42	4.2.3	Inspect fire extinguishers		Each	300	1	300.00
43	4.2.3	Change bag filters when DP reaches 12 psig		Each	200	1	200.00

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50	4.2.3	Pull and check extraction well pump for bio-fouling		Each	1100	1	1100.00
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56	4.2.6	Air filter for air sparge systems		Each	47	2	94.00
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61	4.2.6	Vacuum Gauge (0-60" wc vacuum) for SVE Systems	*H2K model 611.10	Each	63	2	126.00
62	4.2.6	32-inch level switch assembly for SVE Systems	*H2K	Each	464	2	928.00
63	4.2.6	Differential pressure gauge for SVE Systems	*H2K model 2-5003NPT	Each	125	2	250.00
64	4.2.6	2"B+ venturi for SVE Systems	*H2K	Each	395	2	790.00
65	4.2.6	Belt set for SVE Systems		Each	80	2	160.00
66	4.2.6	Filter element for SVE Systems	*H2K model 235P	Each	218	2	436.00
67	4.2.6	Oil for SVE Systems		Per Gallon	40	20	800.00
68	4.2.6	Screen 18x18 mesh for VC Vessels	*H2K model SST	Each	147	2	294.00
69	4.2.6	23" Gasket for VC Vessels	*H2K	Each	59	2	118.00
70	4.2.6	Mechanical shaft seal Transfer pumps	*H2K model CT-SEAL	Each	110	2	220.00
71	4.2.6	Oil-food grade for air sparge systems		Per Gallon	130	20	2600.00
72	4.2.6	SST Lateral for TU 3 liquid phase carbon	*H2K model LC-007SSTLAT	Each	183	2	366.00
73	4.2.6	SST Hub for TU 3 liquid phase carbon	*H2K model LC-007SSTHUB	Each	2318	2	4636.00

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74	4.2.6	Manway gasket for TU 3 liquid phase carbon	*H2K model 12x16GAS	Each	55	2	110.00
75	4.2.6	25 micron bag filter for TU 3 Bag Filters	*H2K model KE25	Each	9	2	18.00
76	4.2.6	O-ring for bag filter housing lid for TU 3 Bag Filters	*H2K model KK-ORING 2	Each	31	2	62.00
77	4.2.6	Differential pressure switch (4-80 PSI) TU3 Bag Filters	*Barksdale model DPD1T-GH80SS	Each	440	2	880.00
78	4.2.6	Filter basket for TU3 Bag Filter		Each	330	2	660.00
						TOTAL BID AMOUNT	331388.00

Quantities listed are for bidding purposes only. Actual quantities may differ.

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* All references in the Specifications and Attachments to brand or manufacturer specific items are included only to establish a quality level for materials, products or equipment provided to fulfill the Contract, and thus should be considered to be followed by the words, "or equal".

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