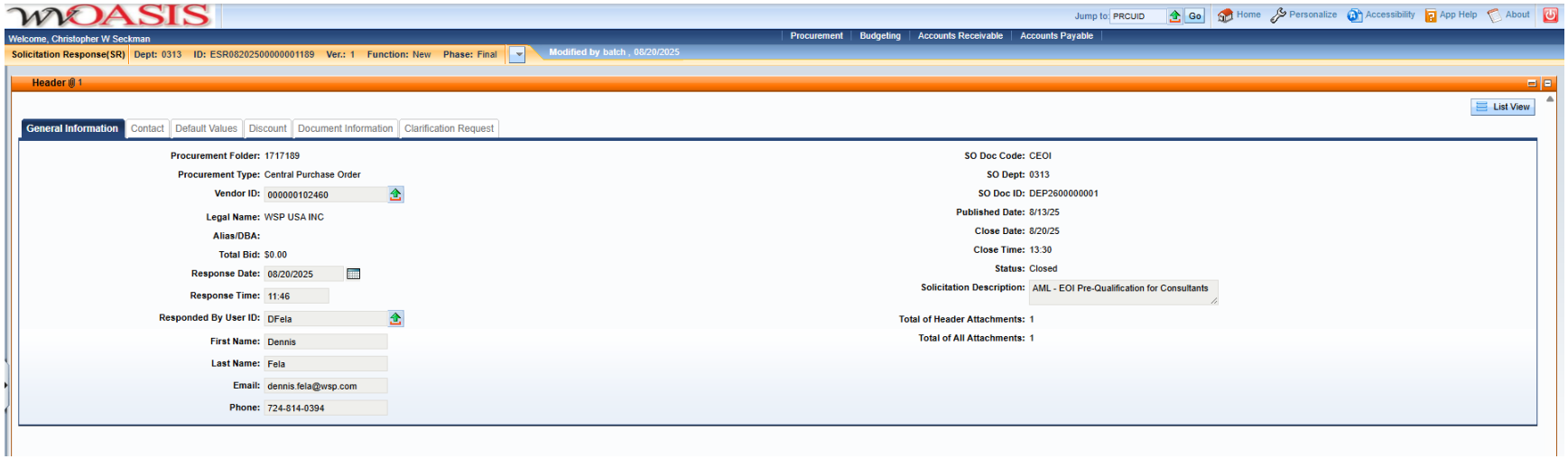
The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.


WVOASIS
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About
Welcome, Christopher W Seckman
Procurement
Budgeting
Accounts Receivable
Accounts Payable
Solicitation Response(SR) Dept: 0313 ID: ESR08202500000001189 Ver.: 1 Function: New Phase: Final
Modified by batch , 08/20/2025
Header @ 1
List View
General Information
Contact
Default Values
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Document Information
Clarification Request
Procurement Folder: 1717189
Procurement Type: Central Purchase Order
Vendor ID: 000000102460
Legal Name: WSP USA INC
Alias/DBA:
Total Bid: $0.00
Response Date: 08/20/2025
Response Time: 11:46
Responded By User ID: DFela
First Name: Dennis
Last Name: Fela
Email: dennis.fela@wsp.com
Phone: 724-814-0394
SO Doc Code: CEOI
SO Dept: 0313
SO Doc ID: DEP2600000001
Published Date: 8/13/25
Close Date: 8/20/25
Close Time: 13:30
Status: Closed
Solicitation Description: AML - EOI Pre-Qualification for Consultants
Total of Header Attachments: 1
Total of All Attachments: 1

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

State of West Virginia
Solicitation Response

Proc Folder:	1717189
Solicitation Description:	AML - EOI Pre-Qualification for Consultants
Proc Type:	Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2025-08-20 13:30	SR 0313 ESR08202500000001189	1

VENDOR

000000102460
WSP USA INC

Solicitation Number: CEOI 0313 DEP2600000001

Total Bid: 0 **Response Date:** 2025-08-20 **Response Time:** 11:46:16

Comments:

FOR INFORMATION CONTACT THE BUYER
Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X **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	EOI Engineering Design Services				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments: Please find WSP's Expression of Interest for the AML EOI Pre-Qualificataions

Extended Description:

EOI Engineering Design Services

EXPRESSION OF INTEREST

State of West Virginia

AML - EOI PRE-QUALIFICATION FOR CONSULTANTS

Solicitation No.: CEOI 0313 DEP2600000001

Due: August 20, 2025 (via wvOASIS)

Vendor Name: WSP USA Inc.

01

Cover Letter

August 20, 2025

WSP USA Inc.
5500 Brooktree Road, Suite 102
Wexford, Pennsylvania
United States

wsp.com

Josh Hager, Buyer
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

RE: Expression of Interest - AML - EOI Pre-Qualification for Consultants
Solicitation No. CEOI 0313 DEP2600000001

Dear Selection Committee:

Enclosed with this cover letter is the Expression of Interest (EOI) detailing the qualifications and experience of WSP USA Inc. (WSP) to be prequalified as a consultant to support the Abandoned Mine Lands (AML) program directed by the West Virginia Department of Environmental Protection.

WSP has conducted extensive mine closure and reclamation work for government agencies and industry in the US, and around the world, specializing in providing the comprehensive set of professional geotechnical, environmental, geophysical and civil design and support services that the AML Program requires. Additionally, WSP is a recognized national leader in geotechnical, environmental, and mining engineering. We understand mining operations and have supported mine closure, reclamation, and operation, maintenance, and monitoring for post closure requirements.

WSP utilizes this knowledge on AML sites to provide legacy mine site remediation and reclamation. We have contracts supporting state agencies, federal agencies, and legacy mine liability owners and stakeholders. WSP has been responsible for the closure of some of the largest and most historic mine sites in the US.

WSP has assembled a multidisciplinary team of engineers and scientists capable of responding to the range of design services likely to be completed under this procurement. Several team members have a significant history specifically with AML Programs as well as other abandoned mine remediation programs and frequently provide on-call engineering services to other state agencies and private mining operators.

Our proposal highlights the qualifications of our project team members and demonstrates our ability to address the managerial and technical requirements needed for any engineering task assignments that the AML Program may assign under this contract. It is our goal to provide the AML Program with an integrated group of professionals who possess the project experience to successfully meet the AML Program's quality and schedule expectations.

Our qualifications package is built around the services requested:

- Compliance with the Infrastructure Investment Jobs Act (IIJA)
- Planning Work
- Realty Work
- Design Work
- Construction oversight work

Please contact the undersigned if you have any questions concerning our EOI pre-qualification package.

Sincerely,

WSP USA Inc.

Glen Rieger, Vice President
Local Business Operations
+1 412-375-0280
glen.rieger@wsp.com

Dennis Fela, PE, Vice President
Program Manager
+1 724-814-0394
dennis.fela@wsp.com

02

WVDEP EOI Form

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

State of West Virginia
Centralized Expression of Interest

Proc Folder: 1717189 **Doc Description:** AML - EOI Pre-Qualification for Consultants **Proc Type:** Central Purchase Order			**Reason for Modification:**
Date Issued	**Solicitation Closes**	**Solicitation No**	**Version**
2025-08-01	2025-08-20 13:30	CEOI 0313 DEP2600000001	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name : WSP USA Inc.

Address :

Street : 11 Stanwix St, Suite 950

City : Pittsburgh

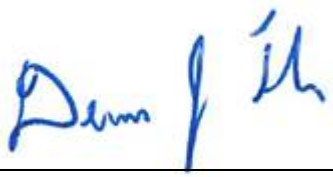
State : PA **Country :** USA **Zip :** 15222

Principal Contact : Dennis Fela, PE

Vendor Contact Phone: +1 724-814-0394 **Extension:**

FOR INFORMATION CONTACT THE BUYER

Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor Signature X  11-1531569 **FEIN#** August 20, 2025 **DATE**

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

ADDITIONAL INFORMATION

The Acquisitions and Contract Administration Section of the Purchasing Division is soliciting vendors to prequalify to provide proposals on Expression(s) of Interest(s) ("EOI") for the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) from qualified firms to provide architectural/ engineering services pursuant to HB 3429.

The purpose of the project is to solicit pre-qualifications for the purpose of making available a list of pre-qualified Consultants.

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI Engineering Design Services		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:
EOI Engineering Design Services

SCHEDULE OF EVENTS

Line	Event	Event Date

03

Addendum Acknowledgement Form

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 0313 DEP2600000001

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. 2
- ☐ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5
- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ 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.

WSP USA Inc.
Company

Authorized Signature

August 20, 2025
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

04

Exceptions and Clarifications To The General Terms and Conditions

Exceptions and Clarifications
To The
General Terms and Conditions revised 8/24/2023

Section	Original Contract Term	Proposed Change to Contract Term	Justification
Section 8, Insurance	**Professional/Malpractice/Errors and Omission Insurance** in at least an amount of:1,000,000.00 per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.	**Professional/Malpractice/Errors and Omission Insurance** in at least an amount of:1,000,000.00 per ~~occurrence~~ claim. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.	Professional liability insurance is on a "claims-made" basis, not "occurrence-based"
Section 28, Warranty	28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.	28. WARRANTY: The Vendor expressly warrants that the goods ~~and/or services~~ covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship. For professional services, Vendor will perform such services in a manner consistent with that level of care and skill ordinarily exercised by other reputable professionals practicing contemporaneously, under similar conditions, in the same locality, subject to the time limits and financial, physical, or other constraints applicable to the services.	Professional services cannot meet the guarantees stated in (b) and (c) because the warranties are uninsurable under a professional liability policy and inapplicable to this industry. However, WSP can commit to this warranty for any goods furnished under the Contract. The appropriate warranty for professional services is WSP can meet a standard of care of generally accepted standards.

05

AML Consultant Qualification Questionnaire

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT QUALIFICATION QUESTIONNAIRE Attachment "A"

PROJECT NAME:	DATE (DAY, MONTH, YEAR):	FEIN:
AML - EOI Pre-Qualification for Consultants	20 August, 2025	11-1531569

1. FIRM NAME	2. HOME OFFICE BUSINESS ADDRESS	3. FORMER FIRM NAME
WSP USA Inc.	11 Stanwix St, Suite 950 Pittsburgh, PA 15222	Parsons Brinckerhoff, Inc. (11/1/2011 - 5/1/2017)

4. HOME OFFICE TELEPHONE	5. ESTABLISHED (YEAR)	6. TYPE OWNERSHIP	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise)
+1 202-783-3092	1933	Individual **X Corporation** Partnership Joint Venture	[ ] YES **[X] NO**

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE

- WSP, 11 Stanwix St, Suite 950, Pittsburgh, PA / +1 412-375-0280 / Glen Rieger, Vice President / 88
- WSP, 5500 Brooktree Road, Suite 102, Wexford PA / +1 724-814-0394 / Dennis Fela, PE, Vice President / 28

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS
Joseph J. Sczurko, Jr., Executive Vice President Sofia M. Berger, Senior Vice President, Business Line Executive Tom Rutkowski Senior Vice President, Mining Region Director	Glen Rieger, Vice President, Pittsburgh, PA, +1 412-375-0280 Dennis Fela, PE, Vice President, Wexford, PA, +1 724-814-0394 Kurt Meissner, Vice President, Pittsburgh, PA, +1 703-853-7981

9. PERSONNEL BY DISCIPLINE

2,407	ADMINISTRATIVE	9	ECOLOGISTS	14	LANDSCAPE ARCHITECTS	682	STRUCTURAL ENGINEERS
138	ARCHITECTS	10	ECONOMISTS	143	MECHANICAL ENGINEERS	118	SURVEYORS
97	BIOLOGISTS	164	ELECTRICAL ENGINEERS	49	MINING ENGINEERS	276	TRAFFIC ENGINEERS
124	CADD OPERATORS	650	ENVIRONMENTALISTS	118	PHOTOGRAMMETRISTS	468	WATER RESOURCES ENGINEERS
22	CHEMICAL ENGINEERS	30	ESTIMATORS	48	PLANNERS: URBAN/REGIONAL		
1,408	CIVIL ENGINEERS	614	GEOLOGISTS	64	SANITARY ENGINEERS	3,770	OTHER
582	CONSTRUCTION INSPECTORS	16	HISTORIANS	457	SOILS ENGINEERS		
124	DESIGNERS	82	HYDROLOGISTS	99	SPECIFICATION WRITERS		
124	DRAFTSMEN					**12,907**	**TOTAL PERSONNEL IN USA**

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS (RPEs) IN PRIMARY OFFICE: 8 (Pittsburgh & Wexford)
***RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.**

10. HAS THIS JOINT VENTURE WORKED TOGETHER BEFORE?	[ ] YES [X] NO (not applicable)

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Qualification Questionnaire".		
NAME AND ADDRESS: Enviroprobe Integrated Solutions 630 Cross Lanes Drive Nitro, WV 25143	SPECIALTY: Geotechnical Drilling	WORKED WITH BEFORE [X] Yes No
NAME AND ADDRESS: Boart Longyear 300 Grayson Rd Wytheville, VA 24382	SPECIALTY: Geotechnical Drilling	WORKED WITH BEFORE [X] Yes No
NAME AND ADDRESS: Encompass Energy Services LLC 205 Capitol Street Suite 1503 Charleston, WV 25301	SPECIALTY: Survey (WV PLS)	WORKED WITH BEFORE [X] Yes No
NAME AND ADDRESS: Geotechnics Inc. 544 Braddock Avenue East Pittsburgh, PA 15112	SPECIALTY: Laboratory Testing	WORKED WITH BEFORE [X] Yes No
NAME AND ADDRESS: MEISTEROX LLC 1919 Boaz Ave St. Louis	SPECIALTY: Underground Coal Mine Fire Characterization and Mitigation	WORKED WITH BEFORE [X] Yes No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE _____Yes No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE _____Yes No

12. AML EXPERIENCE SUMMARY QUESTIONS

A. Is your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

X YES Description and Number of Projects:

WSP's mine remediation and reclamation team brings together many disciplines required for successful abandoned mine land (AML) mitigation solutions taking a holistic view to help clients achieve resilient closure outcomes. WSP provides strategic, technical and execution experience, based on years of hands-on project work with mine closure, covering all aspects and lifecycle phases: from closure maturity and gap assessments, conceptual planning and cost estimating, through to detailed design, closure execution and implementation of the post-closure land use, project management and post-closure monitoring and maintenance.

We have completed over 100 mine closure projects in the USA (over 400 worldwide), ranging from small mines to some of the largest and consequential open-pit mine sites, addressing waste rock, tailings, acid mine drainage, and impaired ecosystems, and surface impacts from abandoned underground mines. Our mine reclamation projects have included all types – from coal to oil shale, non-metallic minerals, iron mines, and polymetallic sulfide mines. Our experience has included resolving water intrusion and acid rock drainage, slope and surface stability issues pertaining to abandoned underground workings, highwalls, waste piles, and mine openings, as well as removal of abandoned mine infrastructure. We have performed these projects for a wide variety of clients including US Environmental Protection Agency (USEPA), US Army Corps of Engineers, US Bureau of Land Management, National Park Service, US Fish and Wildlife Service, various state agencies, and for private clients who hold responsibility for legacy site liability. Our projects have been completed under federal, state, and local regulatory requirements for mine site closure and reclamation.

Some examples include:

- **Allison Phase IV Geotechnical Exploration Program and Undermining Hazard Assessment (2017 and 2022-2023)**, New Mexico AML Program: WSP, working under an on-call geotechnical contract, recently completed work on the Allison Mine Phase IV Subsidence Mitigation Project for the AML Program at the abandoned Allison underground coal mine near Gallup, New Mexico. This work began as a geotechnical emergency and hazard mitigation project in 2017. The objectives of the Phase IV geotechnical exploration program were to refine WSP's previous undermining hazard assessment for the village by collecting extensive seismic refraction data, test pitting, and drilling additional geotechnical boreholes to assess the condition of near surface mine workings and determine the characteristics and thickness of the rock above the mine workings. All WSP efforts on the Phase IV task were completed on schedule and under budget. WSP completed the scope of work between December 2022 and March 2023. Project Value: $365,000 (including subcontracted drilling and excavation costs).
- **Madrid Mining Landscape Community Plan and Green Stormwater Infrastructure, New Mexico AML Program**: The award-winning consensus planning effort has been a multidisciplinary effort by landscape architects, engineers, physical scientists, and facilitators to develop mitigation strategies for environmental and public safety hazards related to the historic coal mining. WSP initially served as the project's scientific and policy advisor, providing expertise in abandoned mine reclamation, site assessment, and environmental regulations. After years of stormwater bringing coal waste off the steep gob piles east of the village into the basements of businesses and homes, the planning and implementation of soft and hard stormwater controls is beginning to have positive effects on the unincorporated village.
- **BLM Utah State Office, Abandoned Mine Land Decision Making Manual and Risk-Based Ranking Strategy**: WSP lead a project to author the Mine Land Decision Making Manual and Risk-Based Ranking Strategy which stemmed from our screening level risk assessment work evaluating 281 mines sites in three mining districts in Utah. The team comprised of WSP, ECM, and BLM risk assessors developed this risk prioritization method that takes a Multiple Lines of Evidence (MLOE) approach to identifying the highest risk mine sites within a mining district allowing BLM to more easily plan and manage cleanup activities. We initially worked with the BLM Utah State Office to develop this methodology/manual. The manual is now being used by BLM in several

12. AML EXPERIENCE SUMMARY QUESTIONS

other states.

- **Navajo Nation Phase 2 Expanded Trust, Claim 28 and Phase 2 Trust Abandoned Uranium Mines (AUM), Blue Gap, Arizona:** WSP completed the Claim 28 water study, investigating impacts of this AUM on surface water and groundwater under the removal site evaluation program. The site is geologically complex and logistically challenging due to its remote location. The study includes drilling, monitoring well/lysimeter installation, geological survey, surface and borehole geophysics, extensive water and solid media sampling and analysis-including vadose zone water sampling, site-specific human health, and ecological risk assessments program the drilling. This initial water study is intended to be the model for future water studies on the Navajo Nation. USEPA and Navajo Nation EPA provide regulatory oversight of this project. WSP is providing Superfund related environmental services to a Navajo Nation trustee for a groundwater study and risk assessment at an abandoned uranium mine on Navajo Nation lands.
- **Former Anaconda Copper Mine Site, Yerington, NV (2020 – Present): WSP is completing a** CERCLA RI/FS for a former copper mine (legacy liability) site located in the high desert of central Nevada. The Anaconda mine was one of the largest copper mines in the US. RI/FS activities include investigation and sampling; data management and checking; evaluation and interpretation, and documentation of the investigations and studies. Several parties are performing work at this complex Site and WSP is helping our client orchestrate those multiple parts into a result–oriented, cohesive project focused on reaching a CERCLA–protective remedial action for the Site. The State of Nevada is overseeing the work with input from local Native American Tribes and the public. WSP has also provided engineering and construction services to address priority issues with tailings pile consolidation and capping. WSP is continuing on groundwater aquifer assessment, modeling, and impact mitigation efforts.

[ ] NO

B. Is your firm experienced in Soil Analysis?

X YES Description and Number of Projects:

WSP has decades of experience investigating abandoned mine lands throughout the USA including characterizing materials, evaluating geotechnical conditions through drilling and geophysical methods, performing stability and settlement evaluations, and evaluating geologic hazards. WSP's experience with soil analyses at Abandoned Mine Lands (AML) sites ranges from geotechnical studies related to slope stability and subsidence mitigation to evaluating soil suitability for revegetation and cover designs. Our team conducts on-site investigations, collecting materials for geotechnical and chemical analysis, and integrates these results into a feasibility study to evaluate the best (risk-based, compliant) closure approach. WSP has completed soil analysis projects for over 100 properties in the USA.

Some examples include:

- **Allison Mine, Phase IV Geotechnical Exploration and Undermining Hazard Assessment, New Mexico AML Program (**2017-ongoing): WSP is currently the geotechnical on-call consultant for the New Mexico AML and has been providing professional engineering services since 2017. WSP has completed several intrusive and non-intrusive investigations associated with former underground coal mining in Allison, NM. This work has included drilling and geophysical investigations associated with sinkholes impacting the community. WSP has designed and carried out construction oversight for backfill and grouting programs. In recent years, WSP has completed subsidence and hazard assessments utilizing drilling and grouting data to develop a Leapfrog model to assist with visualization of the geological features relative to the historic underground workings.
- **Confidential client, Landslide Mitigation and Road Cut, Blue Creek, West Virginia (2022)** WSP provided engineering and design for mitigation of a landslide and re-establishment of roadway. Support included the mapping of the landslide, development and execution of a subsurface exploration, surface water drainage design, rock cut slope design, and support during construction. The landslide affected the

12. AML EXPERIENCE SUMMARY QUESTIONS

lower portion of the slope and roadway. The upper portion of the slope was comprised of exposed bedrock and had previously dropped large boulders on to the access road below. The subsurface exploration consisted of advancing 16 geotechnical boreholes to varying depths to identify the slip plane and subsurface conditions. Mitigation options were considered including a soldier pile and lagging retaining wall, an earthen buttress with drainage improvements, rock fall catchment barriers, rock cuts, and scaling.

- **Confidential client, Mine Fire Pipeline Re-route, Mingo County, West Virginia (2023-2025)**
  WSP designed a one-mile open-cut re-route of a large diameter natural gas pipeline affected by mine fire induced subsidence. The design included open rock cuts, mine fire mitigation, and mine barriers. WSP performed a subsurface geotechnical investigation tailored to the proposed rock cut locations. WSP performed rock cut design, global stability analysis, geologic field mapping to obtain geospatial data, Light Detecting and Ranging (LiDAR), aerial photography, and infrared remote sensing analysis. Additional work was required to develop slope stability analyses for proposed fill stockpiles and access road construction. Geologic field mapping to obtain geospatial data for subsidence features, mine fire vents, mine openings, landslides, and rockfalls. WSP performed emergency response, re-route feasibility analysis, and mitigation design services to a pipeline leak that was caused by rapid subsidence as a result of actively burning deep coal mine fires.
- **Confidential client, Closure Pre-feasibility Study, Multiple Sites, Utah (2017-2020):** WSP completed comprehensive, three-year pre-feasibility studies to develop closure strategies for the waste rock dumps and tailings impoundments for a large copper mine. The study scopes involved and integrated site-wide evaluation of hydro geochemistry to achieve geochemical risk management objectives, engineering designs and cost estimates for closure, and advance cover design strategies to revegetate tailings and waste rock to meet post mining land use criteria cover.
- **Confidential Client, 1,100-acre phosphate chemical facility, Florida (1992-Ongoing):** Design and permitting services to assist with implementation of the remediation and closure of a 1,100-acre phosphate chemical facility. Ongoing compliance work includes water quality monitoring, toxicity testing, dam safety inspections, and support of capping/cover design and construction Specific environmental support requires routine monitoring and maintenance of groundwater wells and of two permitted release points Scheduled submissions of ground and surface water quality to regulatory agencies Capping of the stack and commissioning of a new pond water treatment plant completed by the client in 2016 Maintain and operate the treatment plant.
- **ABB, Former Henry's Knob – Kyanite Mine Closure and Reclamation, South Carolina (2005-Ongoing).** WSP was contracted to complete the closure activities for the Henry Knob Mine. The work included performing an investigation of existing conditions, completing cover systems for tailings areas, preparing a comprehensive water model to assess acid mine drainage (AMD) issues, and conducting long-term monitoring of groundwater and surface water in accordance with the closure plan. Project scope included site characterization, risk-based closure, modeling, OM&M, and adaptive management of former mine site and tailings management facility (TMF). ***Project was named the recipient of the 2017 USEPA Region 4 Excellence in Site Reuse Award which recognizes those projects that have gone above and beyond redeveloping a Superfund site.***
- **McKinley Coal Mine Final Closure, New Mexico, USA:** WSP was responsible for closure of the McKinley Mine, a long-producing surface coal mine in the US Southwest, involved not only the large earthwork effort but also significant effort during the post-closure period to advance the project through monitoring-maintenance and final bond release. The McKinley Mine is regulated by the Office of Surface Mining, Reclamation and Enforcement (OSMRE) and the state of New Mexico with addition oversight by the Navajo Nation, BIA, BLM and USEPA. Our scope of work included mine closure; coal mine reclamation; soil substitute suitability analysis and revegetation success monitoring; permitting; project management; construction management; hydrologic design; and bond release.
- **Final Closure Coal Mine Reclamation Support, Oklahoma, USA:** WSP worked with client Travelers Casualty and Surety Company of America (Travelers) to provide engineering services in support of surety negotiations for the Farrell-Cooper Coal Company Surety Reclamation with the Oklahoma Department of Mining (ODM) and for future development of Conceptual Reclamation Plans for 10 permit areas. WSP services included background analysis of existing information and aerial photography, meetings with ODM and Farrell-Copper, conceptual designs and cost estimates based on existing conditions and/or possible alternative reclamation plans and existing information

12. AML EXPERIENCE SUMMARY QUESTIONS

and field conditions for various reclamation components, i.e., spoil grading/backfilling; topsoil spreading and revegetation.

- **Helen Mine Closure Planning and Implementation, Pennsylvania, USA:** WSP has prior experience at Helen Mine. In April 2003, WSP's Pittsburgh Office prepared and submitted the Application for Bituminous Underground Mine, Coal Preparation and/or Coal Refuse Disposal Area Permit for Valley Camp Coal Company (a/k/a Helen Mine) under contract to Shell Oil Products US.
- **Miscellaneous Mine Site Studies for Industrial Clients, Pennsylvania USA:** WSP has supported a variety of mining/mineral processing clients with their Pennsylvania sites in the past 10 years. Our support has ranged from industrial facility engineering and permitting to closure and reclamation. These include: MEPCO, Marshall Portal Mine, Micropile Foundations (2014 – 2016); ArcelorMittal, Micropile foundations, 2014-2015; Sierta Redcone, LLC, Redcone Mine, Well Abandonment (2022 – 2023).

[ ] NO

C. Is your firm experienced in hydrology and hydraulics?

X YES Description and Number of Projects:

Estimating the possible outcomes of future water quantity and quality at mine sites is a critical component of mine water management. WSP is experienced in Hydrologic and Hydraulic (H&H) analysis and design at abandoned mine sites and mine closure projects. We use a variety of tools and techniques to perform quantitative predictive hydrologic analyses to determine surface water design flows to inform site remediation decisions. At many sites we have employed advanced stream monitoring programs to calculate site-specific streamflows to be used in remediation planning.

Advanced hydraulic modeling expertise includes generating 1D, 2D, 3D, and physical models to predict hydraulic parameters under various hydrologic conditions, utilizing software such as HEC RAS, SSA, SRH2D, Flow3D Hydro and TUFLOW. The team designs surface water conveyance features and conducts scour analyses, floodplain studies, dam break analyses, and river hydraulics assessments to support infrastructure and environmental projects.

To support mine water management, as well as our plant designs, we use dynamic simulation tools (such as GoldSim™) and other leading-edge software to build water balances and water quality models. Our use of advanced modeling software, and our knowledge of treatment technologies, result in cost-effective solutions that meet challenging regulatory requirements.

Some examples include:

- **West Virginia Cooperating Technical Partner (CTP) Program Support, West Virginia (Statewide/Multiple Locations, Ongoing Contract):** WSP provided H&H modeling to support regulatory floodplain determinations throughout West Virginia, performed hydraulic survey and field reconnaissance, and was responsible for public outreach. Since 2003, WSP has developed over 8,600 miles of updated flood plain studies. Specific tasks included floodplain mapping in highly populated areas significantly impacted by devastating flooding in 2016 which resulted in disaster declarations across 18 West Virginia counties. The resulting studies encompassed over 60 miles of updated detailed flood studies in six counties. WSP has also performed multiple Federal Emergency Management Agency (FEMA) Risk MAP studies throughout the state, which have included full engineering analyses (survey, hydrology, and hydraulic modeling for 115 detailed study miles and 1,660 approximate study miles) and floodplain mapping, preliminary product development, and post-preliminary processing for 166 FIRM panels covering 19 communities.
- **Beatson Mine Remediation, Latouche Island, Alaska:** WSP performed a multi-year study of the H&H conditions of this former abandoned mine site to help inform remediation decisions. A large stream monitoring network was established and with local meteorological data, was used to develop basin hydrology and a site water balance. To further understand the Site water balance, a precipitation gauge was installed and a diversion of the primary Site watercourse, Copper Creek, was constructed and operated. The H&H analyses and findings were also used in the development of a detailed Hydrogeochemical Conceptual Model (HGCM) with multiple

12. AML EXPERIENCE SUMMARY QUESTIONS

evaluations of geochemistry, water quality, and geotechnical engineering to develop the Preferred Alternative for remediation.

- **Blackbird Mine CERCLA RI/FS and Remediation, Lemhi County, Idaho:** WSP has served as the prime professional engineer and environmental management consultant for BMSG. Across various Task Orders, WSP has provided hydrotechnical (i.e. hydrologic, hydraulic, and fluvial geomorphic) engineering, civil design, geotechnical engineering, construction management, quality control, and performance monitoring. One representative Task Order, ***the Blackbird Creek Instream Stabilization project was awarded the ACEC 2019 Engineering Excellence Award Best-in-State Silver.*** This project addressed remediation of historical mine sediments in a targeted nine-mile reach of Blackbird Creek. WSP designed bank armoring, 80 grade control structures and 61 bendway weirs to stabilize the fine-grained mine tailings deposits contaminated with heavy metals present in the stream bedload and floodplain overbank areas. The overall design approach changed the morphology of Blackbird Creek from a high energy, incised, and erosion / scour-prone regime to a lower energy, shallow flow, non-erosion/scour-prone regime no longer mobilizing and delivering potentially contaminated sediments to downstream reaches.

[ ] NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

X YES Description and Number of Projects:

WSP has a Data Intelligence Group (DIG) that includes professional application developers, geospatial analysts, graphic illustrators, geodatabase administrators, CADD designers, and project managers who provide tailored tools to collect and manage geospatial data efficiently and accurately. DIG is skilled in database development and management, data visualizations, field data collection and management (GPS, mobile mapping) and GPS/GNSS expertise. The geospatial services staff in DIG utilizes a series of tools (software, hardware and processes) including various products from ESRI (ArcEditor, ArcInfo, ArcGIS Server, Field Maps and Survey 123 mobile apps), Autodesk (AutoCAD and Civil 3D) and Bentley (MicroStation, Map, GeoMedia, Geopak).

The DIG team can provide customized mobile data collection solutions that integrate with ArcGIS Online (AGOL), a secure, web-based, geospatial information management solution for managing and integrating a range of data from different sources and providing project teams (internal and external) with quick and easy access to information in a visual manner. WSP also utilizes other mapping and earth science software applications including Leapfrog Geo, Vulcan, MineSight, PCI Geomatica, Post Flight Terra 3D, CartoPac, and EQuIS.

WSP has in-house pilots holding their remote pilot airman certificate issued by the Federal Aviation Administration (FAA) and are fully versed in FAA Small Unmanned Aircraft Rule (Part 107). Our technology includes access to single-multi rotors (vertical and non-vertical imaging, small site surveys, inspections, monitoring) and fixed wing airframes (large areas) provide sensor capability providing images ranging in resolution from 12MP to 100+ MP. These are also available in infrared or thermal, and LiDAR scanners are also available. Processing platforms include primarily Pix4d or Bentley Context Capture for processing and any additional work is done in AutoCAD Civil 3D or MicroStation.

Some examples include:

- **Continental Cement Company, Surface Mine, Hanibal, MO:** WSP used sUAS methodology to fly, control and map the surface mine that is owned by the Continental Cement Company. Project included sUAS imagery aerial photography, geodetic control using GPS survey methods, base mapping at 1” = 40’ scale with 1’ contours and high resolution orthophotos of the site. Data was delivered as AutoCAD Civil3D format files.
- **Keating Mine Site, Acushnet, MA:** WSP completed a sUAS LiDAR survey of the Keating Mine operation. Imagery and a high density point cloud was acquired and used to map the site at a 1”=40’ scale with 1’ contours with color digital orthophotos. All mapping data was

12. AML EXPERIENCE SUMMARY QUESTIONS

formatted and provided as an AutoCAD Civil3D file. Color digital orthophotos have also been provided in GeoTiff and SID formats.

[ ] NO

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

X YES Description and Number of Projects:

WSP has performed numerous waterline designs including both domestic and potable uses. Our expertise includes wellhead protection and planning, aquifer evaluations, wellhead design, reservoir/tank design, pump station design, potable water treatment, and water main design. Our clients for these designs have included state and local municipalities, industrial facilities, and mining sites. Additionally, WSP brings extensive experience in investigating and evaluating mining-impacted aquifers, demonstrated through long-term, multidisciplinary projects.

Some examples include:

- **ABB, Former Henry's Knob – Kyanite Mine Closure and Reclamation, South Carolina (2005-Ongoing).** From 1947 to 1970, an open pit mine was operated at Henry Knob in the Piedmont region of South Carolina for the extraction of kyanite, an aluminum silicon oxide used in the manufacture of high temperature, refractory materials. When the kyanite mining operation ceased, the open pit mine reverted to a seven-acre pit with a one-acre acidic pond. Groundwater and surface water impacts in the vicinity of the site include acidity and elevated concentrations of cobalt and manganese because of acid mine drainage. WSP completed an Engineering Evaluation/Cost Analysis (EE/CA) to address groundwater being used as potable water in the vicinity of the former mine (containing anomalous manganese and cobalt concentrations). The EE/CA resulted in the installation of residential wellhead treatment systems installed at 19 residences under a Non-Time Critical Removal Action (NTCRA). WSP worked with each resident to plan and complete the installation of the wellhead treatment systems. As part of the technical approach for long-term remedy for the Site, WSP has developed an "adaptive management" approach wherein media-specific criteria (such as inorganic concentrations or pH) are implemented in steps and evaluated to formulate the long-term remedy for the Site. Both USEPA and SCDHEC have agreed to this approach. Remedial measures for stabilization of the tailings impoundments, including rehabilitation of impoundment dams, control of surface water, and establishment of vegetation to mitigate erosion, reduce infiltration of precipitation through the tailings and reduce the generation of AMD (source control), are begin designed and implemented first and evaluated for improvements to downgradient surface and groundwater quality. Based on this evaluation, implementation of a groundwater remedy may or may not be necessary. This stepwise, "adaptive management" approach allows for design and implementation of technically appropriate and cost-effective remedial actions.
- **Navajo Phase 2 Expanded Trust, Navajo Nation, 2019 to Ongoing:** WSP is evaluating potential impacts to surface water and groundwater at two abandoned uranium mines on the Navajo Nation. The work is being conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The water studies include comprehensive studies of the extent of potential mining impacts on soil, sediment, and water, including potential groundwater contamination. They also include human health and ecological risk assessments. Site contaminants include radionuclides and heavy metals. The studies require an understanding of complex geochemical processes and hydrogeological conditions associated with surface and underground mining to determine whether the source of groundwater contamination is due to historical mining activities.
- **Well 1 Water System Design, Auburn, Washington:** WSP designed improvements to the city's Well 1. Phase 1 of the project consisted of the installation of a new transmission main, more than 1 mile long, to connect to the city's existing corrosion control facility. Phase 2 consisted of the design of the new Well 1 facility which included a new well house with a new 2,200-gallon-per-minute pump, hypochlorite injection, and a diesel generator. The project also included the civil design of the Well 1 facility and the installation of a monitoring well.

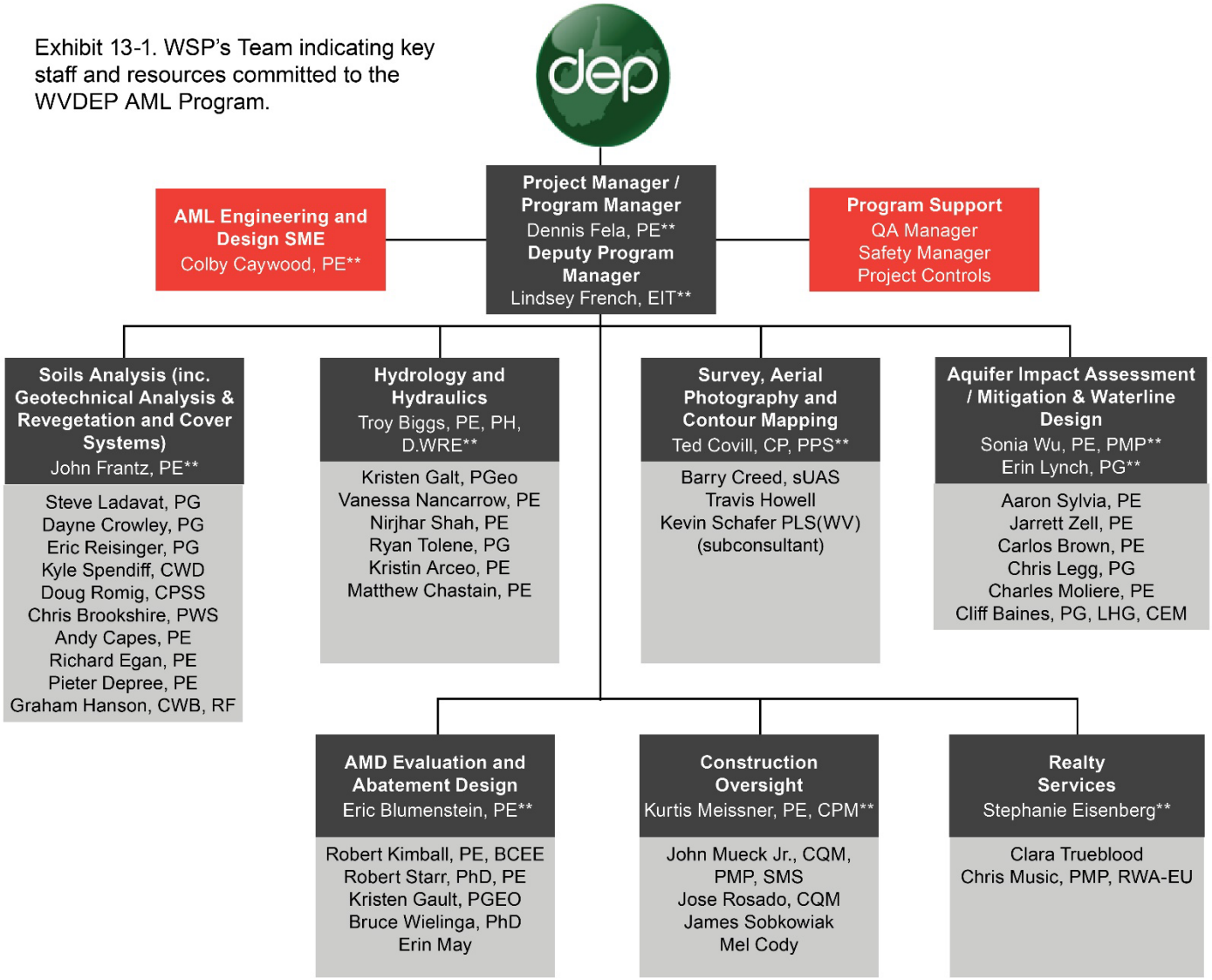
12. AML EXPERIENCE SUMMARY QUESTIONS

- **Water & Sewer Design Basic Ordering Agreement (BOA), WSSC, Montgomery and Price George's Counties, Maryland:** WSP supported the WSSC Pipeline Design Division (PDD) under a multi-year, IDIQ Contract for the evaluation, engineering and design of water distribution system and water meter improvements throughout Prince George's and Montgomery Counties in Maryland. The three-year contract was completed in 2018 and was extended by WSSC to 2021. WSP completed 17 projects (Task Orders) including more than 23 miles of water main replacement, 24 large meter vaults, and the replacement and relocation of distribution mains ranging in size from 4 inches to 16 inches in diameter. Under the option term of the contract, WSP's work consisted of designing and preparing contract documents (plans and specifications) for bidding and construction for the removal and replacement of existing water supply mains, replacing and retrofitting existing water mains, connections to the existing system, design services (utility locating, survey work, geotechnical investigation and corrosion investigation), and transfer of all services onto the new water mains. Project areas included suburban, residential, and urban commercial, and included rail crossings and work in state highways.
- **WSSC General Engineering Services and Staff Augmentation BOA for Water and Wastewater Treatment, Pump Stations, Storage Tanks, WSSC Water, Laurel, Maryland:** WSP provided construction management for improvement projects at water and wastewater treatment plants, water storage, and pump stations. WSP provided staff augmentation for Facility Condition Assessment (FCA). Our team created internal procedures for the management of water and wastewater projects and developed and implemented an online Project Manager (PM)/CM manual. We provided e-Builder training, planning and feasibility studies for building and site development, engineering and shop drawing review for all disciplines, space planning and floor renovation, engineering studies for pipe bursting, pump station design, traffic control plans, constructability review and claims analysis.
- **Distribution Water Main Replacement and Rehabilitation Design at Various Locations Projects 1172, 1241, and 1245, City of Baltimore, Baltimore, Maryland:** WSP was selected by the City of Baltimore (City) to evaluate, engineer, design, and develop contract documents for 13.7 miles of water line replacement ranging in size from 4- to 20-inches. The project included the development of construction plans and specifications for the removal and replacement of existing water supply mains, connection to the existing system, and transfer of all services onto the new water main. Methods of installation included open-cut trenching as well as trenchless technologies. Plans included traffic control, erosion and sedimentation control, and easement plans.
- **Water Main Replacement and Relocation Design, City of Atlanta, Atlanta, Georgia:** WSP's work consists of various water main replacements and relocation design work at sites located across the entire City of Atlanta and beyond the City limits. In addition to pipe replacement/relocation design work, WSP is responsible for coordinating permit and construction work with various City agencies. WSP has completed over 75 projects during the last 5 years with 50 projects under construction.

[ ] NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN
(Furnish complete data but keep to essentials)

Exhibit 13-1. WSP's Team indicating key staff and resources committed to the WVDEP AML Program.



** Indicates Key Staff - Brief resumes included in EOI Sumittal.

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Dennis Fela, PE - Project Manager / Program Manager	25	27	NA

BRIEF EXPLANATION OF RESPONSIBILITIES:
Dennis will be our primary point of contact and project manager for AML projects in West Virginia. He is a principal geotechnical engineer with 27 years of experience in engineering analysis, geotechnical design and project management. His experience includes landslide and rockfall mitigation, foundation design, geotechnical site assessments, subsidence assessments, settlement analyses, retaining structure design, geotechnical instrumentation layout and installation, construction management, site development, water resource permitting and forensic engineering. Dennis also serves as manager of WSP's Wexford, PA office, located just outside of Pittsburgh.

His mining industry experience includes planning, design, permitting, construction observation, and inspection of mine facilities including closure and reclamation reclamation phases. His experience includes mine facilities, surface infrastructure, slurry impoundments, and reclamation. He has led mitigation and redevelopment of AMLs including developing remediation plans, developing grading plans, designing drainage control plans that convey storm water runoff into stable channels, developing erosion and sedimentation control plans, designing foundations, and development of geotechnical data reports. Representative project experience includes:

- **Goff Compressor Station, AML Site Development, Harrison County West Virgina.** Project manager and Engineer of Record for geotechnical support of development of compressor station on 15 acres of formerly mined lands. There had been extensive mining of the site including surface, highwall, and deep mining resulting in broad mine spoil and exposed highwalls. The work included rock cut mapping, subsurface investigation, design of fill and cut slopes, proactive mitigation measures for mine spoil settlement, special foundation considerations for settlement sensitives structures, and support during construction.
- **Coal Processing Facilities, Compliance Review Inspections/Audits, Multiple Virginia and West Virginia - Project** manager of a team that performed a broad-spectrum review of several coal refuse disposal facilities located in West Virginia and Virginia. The work included conducting a visit to each facility during which an inspection of the major facility features was performed. Conducted interviews with facility operators and design engineers. Reviewed of the facility's permit documents, construction drawings, and as-built records and an evaluation of the facility's condition and operational procedures. Prepared summary reports to the mine owners recommending improvements to the overall process of constructing, operating and maintaining the impoundment and conformance of the facilities to MSHA and state regulations.:
- **Pipeline Re-route/Coal Mine Fire, Mingo County, West Virginia**. Investigated coal mine fire induced subsidence that resulted in an integrity threat for a high-pressure natural gas pipeline in West Virginia. Project involved desktop review, field assessments, and subsurface investigation into the burning coal seams. Provided construction mitigation feasibility study to the client providing several alternatives for mitigation and estimated construction costs. The project client decided to initiate a pipeline re-route around the affected areas. Work included temporary and permanent mine portal barriers, large rock cut slopes, material placement on slope, and access road construction.
- **Blue Creek Road Rock Cut, Kanawha County, West Virginia**. Engineer of Record for mitigation of a landslide affecting Kanawha County's Blue Creek Road in West Virginia. Project involved rock cut mapping, subsurface investigation, and design of rock cut slope for access road and slope above Blue Creek Road. Migration included engineered rock cut slope with benching, fill placement, and surface and subsurface water controls. Rock cut slopes extended from Blue Creek Road upslope approximately 300 feet in elevation.

EDUCATION (Degree, Year, Specialization):
- MS, Civil/Geotechnical Engineering, 2005
- BS, Civil Engineering, 1998

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
▪ N/A	▪ Professional Engineer (PA, OH, WV)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN**
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.):	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Colby Caywood, PE - AML Engineering & Design SME	15	27	15

BRIEF EXPLANATION OF RESPONSIBILITIES:

Colby will provide technical direction and oversight for AML engineering and design projects. Senior engineer and project manager with more than 27 years of experience specializing in water management with a focus on mining. Providing project management and technical expertise on mine water projects including feasibility studies and alternatives analyses, developing designs and cost estimates and providing bidding and construction support. Technical skills include H&H analysis and design, stormwater management and drainage design, water conveyance and supply projects including pump stations and storage facilities for mine sites, municipal potable water and industrial facilities.

Colby has prepared complete construction packages for water system designs and modifications for municipal and private clients. Design experience includes permitting, pump design, piping, valves and appurtenances, controls, aquifer storage and recovery systems and waste discharge systems. Colby has extensive experience preparing stormwater pollution prevention plans for industrial and construction sites, as well as temporary erosion and sediment control plans. Representative project experience includes:

- **West Virginia Department of Environmental Protection – Kanawha Development Project.** WSP just initiated the Kanawha Development Project which is a progressive design-build project that focuses on restoration of land associated with coal mining activities. Working closely with DEP, and our partner contractor Sunesis, Colby will oversee the design and implementation of demolition and land restoration activities. The project will include permitting and stakeholder engagement prior to developing the design. The design will primarily consist of detail for demolition of coal silos, regrading of disturbed land, debris management and removal, reconfiguration of drainage features and final restoration and revegetation.
- **Blackbird Mine, Collection and Pumping System Design, Salmon, Idaho**: Project engineer designed a collection and conveyance of contaminated water. The design included a pumping well with a submersible pump and underground piping vault and wellhead. The design included pipelines to an existing treatment system. The design difficulties included cold weather conditions and a short-fuse design schedule.
- **Teck Washington, Pend Oreille Mine, Closure Design, Washington (January 2025 through present):** Project Manager and Engineer of Record for evaluation and closure recommendations and design for several mine openings including vertical raises and main portals. Prepared engineering design drawings for construction including plugs, bat-friendly bulkhead designs, and structural grates with instrumentation ports for future water sampling. The work will also include demolition support of mine-related infrastructure and construction oversight.
- **Triumph Mine Remediation Support, Idaho (January 2025 through present):** Project Manager and Engineer of Record for design of an infiltration pond system to manage flows from the Triumph Mine Portal. Provided design and construction support services. Additional past support included preparation of an alternatives analysis and subsequent design package to provide repairs for an existing tailings cover. The cover repair included import of topsoil, site grading, installation of stormwater management features, and revegetation.
- **Beatson Mine, Remediation and Closure, Valdez-Cordova, Alaska:** Project manager for a large, multidisciplinary mine remediation project. Responsible for progressing the project through the site characterization, risk assessment, alternatives analysis and interim action design phases. WSP is providing advisory services for the pre-feasibility study of the reclamation project.

EDUCATION (Degree, Year, Specialization):
- MS, Civil Engineering, 1999
- BS, Civil Engineering, 1997

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
▪ N/A	▪ Professional Engineer: ***WV #27124*** ▪ Also PE in WA, AK, ID

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN**
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.):	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Lindsey French, EIT – Deputy Program Manager	5	5	0

BRIEF EXPLANATION OF RESPONSIBILITIES:
Lindsey will support our AML contract with technical advice, management support, and QA reviews for project deliverables. Lindsey is an experienced engineer and project and portfolio manager. Her experience includes five years of work in surface and underground mine operations. Subsequently, Lindsey became a project manager for five years with the Wyoming AML Program overseeing abandoned mine land reclamation designs and the program inventory database. Lindsey is a project and portfolio manager at WSP focusing on mine closure with experience in mine closure designs for surface water management. Representative project experience includes:

- **Yanacocha Mine Closure Prefeasibility Studies**. Conducted hydrology and hydraulics (H&H) analyses to evaluate post-closure site water management alternatives. Recommended design strategies that minimize long-term water treatment costs by mitigating acid drainage risks from mine waste piles. Following approval of design recommendations, developed detailed engineering designs for the surface water conveyance system, including pump stations, pressurized piping networks, and open-channel flow infrastructure to support post-closure water management.
- **Galore Creek Surface Water Management Support.** Project Manager for a WSP led multi-year study assessing potential surface and groundwater impacts from mining activities. Managed team conducting iterative modeling efforts to evaluate hydrologic responses and collaborated with the client to develop optimized water management strategies aimed at protecting surrounding ecosystems and minimizing long-term environmental risks.
- **Galore Creek Conceptual Closure Plan.** Project Manager for the WSP team advancing preliminary closure evaluations for development of a formal conceptual closure plan and closure cost estimate which will be maintained throughout the project life to capture closure risks and opportunities and support long-term environmental stewardship.
- **Hanna, Wyoming Abandoned Mine Void Fill Grouting**. Managed subsidence mitigation for the historic coal mining town of Hanna, where abandoned underground mine workings have caused ongoing subsidence and infrastructure damage. Conducted updated investigations following the failure of previous sand fill efforts, which were compromised by interconnected groundwater and mine workings. Implemented cementitious void-fill grouting beneath residential and municipal structures to stabilize subsurface conditions and reduce future hazards to public safety.
- **Glenrock, Wyoming Abandoned Mine Void Fill Grouting.** Parts of the historic coal mining town of Glenrock are undermined by historic coal mining activity causing ongoing subsidence and infrastructure damage. Previous mitigation efforts to prevent subsidence failed due to inadequate grout placement. Cementitious void fill grouting was performed under residential structures to reduce further hazards from mine subsidence induced damage.
- **Wyoming AML Inventory Database Development.** The Wyoming AML database development and migration to a GIS based management and collection system started in 2021. The existing database was streamlined and migrated from a tabular SQL database to a geospatial database capable of storing and receiving inventory data reflective of the eAMLIS database.
- **Horse Creek Mine Quarry Regrading and Reclamation.** Led site repairs on a previously reclaimed limestone quarry, focusing on regrading to reduce sediment deposition in downstream waterways. Addressed erosion and vegetation damage caused by failed surface water channels and rilling on steep slopes, enhancing long-term site stability.
- **Historic Carissa Mine Restoration.** Led restoration efforts for deteriorated mine buildings at a historic state park, enhancing visitor safety and preserving cultural heritage. Oversaw structural repairs and site improvements to support public education on historic mining practices and promote long-term stewardship of the site.

EDUCATION (Degree, Year, Specialization):
- B.S., Mining and Minerals Engineering, Virginia Tech, 2008

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
▪ SME, Environmental Division	▪ EIT, 2008, Virginia

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN**
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.):	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Frantz, John E., PE - Soil Analysis	3	10	N/A

BRIEF EXPLANATION OF RESPONSIBILITIES:

John will be the technical director for soil / geotechnical studies. He has more than 10 years of experience in the management, development, and execution of ground stability, mine waste disposal, and mine planning, development, rehabilitation, and reclamation projects. He has led preparation of technical reports, developed conceptual stability models and hydrologic models to support open-pit mine and/or mine waste disposal expansion applications, evaluated ground stability related to oil/gas right-of-way maintenance and/or quarry development, prepared water withdrawal applications for projects under the jurisdiction of the Susquehanna River Basin Commission, and performed geologic reserve assessments.

John is in our Wexford, PA office. John has experience designing and conducting subsurface soil and rock investigations, designing ground stability mitigations, conducting dam stability modeling, and designing earth dam rehabilitation. He has performed projects driven by MSHA, NRCS, FERC, WVDEP, PADEP, PA DGS, and PA FBC. He has OSHA 10-hr training and nuclear radiation operation and safety officer training. Representative project experience includes:

- **West Virginia Department of Environmental Protection – Kanawha Development Project.** WSP just initiated the Kanawha Development Project which is a progressive design-build project that focuses on restoration of land associated with coal mining activities. John will provide geotechnical engineering. The project will include permitting and stakeholder engagement prior to developing the design. The design will primarily consist of detail around: demolition of coal silos, regrading of disturbed land, debris management and removal, reconfiguration of drainage features and final restoration and revegetation.
- **Confidential Mining Clients, Multiple Projects, Multiple Locations, 2015 to 2023:** Provided engineering support for various projects around the facility including ongoing construction monitoring of various site projects including drainage features, manual and automated instrumentation, and refuse impoundment embankment construction, design of new stormwater control features, evaluation of existing stormwater controls, and evaluation of site dewatering features. The project work included development and execution of geotechnical subsurface explorations and laboratory testing programs, monitoring of manual and automated piezometers for water level monitoring, evaluation of impoundment closure and regrading of existing impoundment embankments, several H&H analyses of the site and different portions of the site, and stability analyses of existing and new embankments.
- **Confidential Oil/Gas Clients, Multiple Projects, Multiple Locations, 2023 to 2025:** Technical lead for the completion of ground stability analyses and landslide mitigation designs. Specific work included: subsurface investigations, soil/rock sample classification and laboratory testing program development, ground stability modeling, and mitigation and drainage design.
- **PA DMVA, Marquette Lake Dam Rehabilitation, Central Pennsylvania:** The Marquette Lake Dam rehabilitation project was to bring the existing embankment dam into compliance with current regulatory requirements. The scope of work included conducting a subsurface investigation, stability analyses associated with maintaining the crest elevation while flattening of the downstream slope and adding a new internal drain, H&H analyses of the watershed, design of a new auxiliary spillway, and replacement of a bridge over the tributary stream to the lake with a revised traffic pattern to allow for public access.

EDUCATION (Degree, Year, Specialization):
- BS, 2015, Civil Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:	REGISTRATION (Type, Year, State):
▪ American Society Civil Engineers	▪ Professional Engineer, 2019, PA No. PE090714 ▪ MSHA Certified Impoundment Inspector Trainer, 2017

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN**
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.):	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Troy Biggs, PE, PH, D.WRE - Hydrology and Hydraulics	0	21	0

BRIEF EXPLANATION OF RESPONSIBILITIES:
Troy will be the technical director for H&H tasks. Troy is a Principal Water Resources Engineer skilled in watershed assessment, stream restoration and stability analysis, hydraulic modeling, floodplain training, MS-4 permit services, floodplain analysis, green infrastructure design, and water resources engineering design. He has served as a project manager and technical design lead engineer in preparation of construction plans and specifications. Located in our Herdon, Virginia office.

He has experience in grant funding, feasibility analysis, public meetings, design, permitting, stakeholder engagement, and construction oversight and support services. He is a Project Manager/Water Resources Engineering technical lead, working with multiple staff, and specializing in H&H modeling and water resources design using HEC RAS, HEC HMS, AutoCAD, and GIS mapping tools.

In addition to executing designs and serving as an EOR, Troy has managed dozens of water resources engineering design projects ranging from stream restoration, storm sewer rehabilitation, dam inspections, and stormwater management BMP retrofits as well as providing construction oversight services and project closeout, and as-built approval.

Representative project experience includes:

- **West Virginia Cooperating Technical Partner (CTP) Program Support, West Virginia (Statewide/Multiple Locations, Ongoing Contract):** Senior Technical Expert, providing H&H subject matter expertise. WSP provided H&H modeling to support regulatory floodplain determinations through West Virginia, performed hydraulic survey and field reconnaissance, and was responsible for public outreach.
- **NRCS, Stream Restoration Designs in Support of the West Virginia Natural Resources Conservation Service, $306K, 2017:** Engineer of Record for assessment and design of three large river systems including Cullers Run (350 LF, Drainage Area of 10 sq. miles), South Fork of South Branch of the Potomac River (1,000 LF, Drainage Area of 330 sq. miles), and North Mill Creek (multiple locations (3,000 LF, Drainage Areas from 10 – 35 sq. miles). Reviewed the historical movement of these large river segments and conducted and determined stable geomorphic sections. Developed preliminary design reports and collaborated with farmers to develop innovative cost saving design solutions to stay within the limited construction budgets. Provided H&H analysis as well as sediment transport analysis dealing with capacity and competence. The final submittal package included 100% CD development, permitting with US Army Corps of Engineers (USACE) and state agencies, quantities and cost estimate, specifications, and FEMA no rise analysis and permitting. He provided construction oversight services including survey stakeout, contractor coordination, and redline as-built approval.
- **US Department of the Interior – Fish & Wildlife Service (USFWS), Prime Hook Tidal Marsh Restoration, Milton, Delaware, 2014 to 2016:** Role and responsibilities. In response to the pronounced salinity and vegetation changes to the Refuge, the US Fish and Wildlife Service modeled the potential scenarios for restoring a sustainable, resilient coastal ecosystem and hired WSP to carry out the construction. The scope of work for the Prime Hook Salt Marsh Restoration project involves restoring damaged tidal marsh through dredging of the channels in the marsh, modifying two existing water control structures, removal of road surface, and barrier beach planting.

EDUCATION (Degree, Year, Specialization):
- MCE, Civil-Hydrosystems Engineering, 2004
- BS, Civil Engineering, Virginia 2000
- Wildland Hydrology –Rosgen Natural Channel Design Levels I, II III, and IV
- Numerous stream restoration and H&H trainings through USACE, USFWS, FHWA, and state entities.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:
- Diplomate (D.WRE), American Academy of Water Resources Engineers
- American Institute of Hydrology
- Association of State Floodplain Managers

REGISTRATION (Type, Year, State):
- Professional Engineer, VA No. 0402 041116-PE; ***WV No. 18913***
- Professional Hydrologist, NTW No. 07-H-1702
- Certified Floodplain Manager

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN**
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.):	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Ted Covill, CP, PPS - Aerial Photography and Contour Mapping	0	45	0

BRIEF EXPLANATION OF RESPONSIBILITIES:

Ted will coordinate and direct survey and contour mapping tasks. He is a Certified Photogrammetrist and Professional Photogrammetric Surveyor, highly skilled in various aspects such as flight layout, control network planning, aerotriangulation analysis, UAS mission planning, LiDAR (aerial & mobile) including UAS LiDAR surveys, digital orthophotography and stereo compilation. Ted's experience in the mapping field spans 40+ years. He has been involved in more than 2,000 municipal, county and state design and GIS mapping projects.

Representative project experience includes:

- **Project Manager – Hanibal, MO Surface Mine:** WSP used sUAS methodology to fly, control and map the surface mine that is owned by the Continental Cement company. Project included sUAS imagery aerial photography, geodetic control using GPS survey methods, base mapping at 1" = 40' scale with 1' contours and high resolution orthophotos of the site. Data was delivered as AutoCAD Civil3D format files.
- **Project Manager – North Carolina Department of Transportation (NCDOT):** Ted is the project manager for WSP's fourth on-call contract with the NCDOT. Projects vary in scale from 1"=20' to 1"=200' scale. The projects involve field classification, property texting, photogrammetric mapping and digital orthophotography. The data is provided in MicroStation format.
- **Project Manager – Keating Mine Site:** Ted Managed the sUAS LiDAR survey of the Keating Mine operation in Acushnet, MA. Imagery and a high density point cloud was acquired and used to map the site at a 1"=40' scale with 1' contours with color digital orthophotos. All mapping data was formatted and provided as an AutoCAD Civil3D file. Color digital orthophotos have also been provided in GeoTiff and SID formats.
- **Project Manager – PacifiCorp:** Ted Managed the aerial LiDAR and digital ortho photography for multiple sites through the northwestern United States. The areas ranged in size from six square miles to 52 square miles. The LiDAR was acquired with an Optech LiDAR sensor, and the point density was 12 points per square meter and the point cloud data was classified to bare earth. The imagery was collected using a PhaseOne Camera at a resolution of 7cm and was used to produce digital ortho photos at a resolution of 3" and was provide as a raster DTM. WSP also provided at an interval of 2' and provided in AutoCAD format.
- **Project Manager - Lycoming Landfill, Montgomery, PA:** Ted has managed multiple contracts over a period of 10 years for the mapping and digital orthophotography of Lycoming Landfill. Mapping included 7cm resolution aerial imagery that was used to produce mapping at a scale of 1"=40' with contours at an interval of 2'. Hard copy mylar plot along AutoCAD Civil3D format files. Digital orthophotos were provide as GeoTiff and SID format files. Hard copy photo enlargements of the orthophotographs were provided on photo grade paper and mounted on gator board.
- **Project Manager – New Jersey Meadowlands, NJ:** Managed the digital imagery captured by digital sensors, LiDAR and geodetic survey to create 1" = 100' scale mapping with 1' contours. Using the DEM produced by the LiDAR, managed our Photogrammetrists that captured mass points and break lines to generate a DTM for 1' contours. Also produced color digital orthos at a 0.25'-pixel resolution. All mapping was delineated in a geodatabase and orthos in GeoTiff and SID formats.

EDUCATION (Degree, Year, Specialization):

- AS Computer Science, University of Rhode Island

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:	REGISTRATION (Type, Year, State):
▪ American Society of Photogrammetry and Remote Sensing	▪ ASPRS Certified Photogrammetrist, Certification #R861, Year
▪ Geospatial Information & Technology Association (GITA)	▪ PPS, Professional Photogrammetric Surveyor, South Carolina #23282
▪ Massachusetts Association of Land Surveyors and Civil Engineers	▪ PPS, Professional Photogrammetric Surveyor, Oregon #80804RPP
▪ New York State Association of Professional Land Surveyors	▪ Surveyor Photogrammetrist, Virginia, Registration #0408000046
▪ Connecticut Association of Land Surveyors CALS)	▪ FAA Part 107 sUAS Airman Certificate

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN**
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.):	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Sonia Wu, PE, PMP - Waterline Design	0	0	18

BRIEF EXPLANATION OF RESPONSIBILITIES:

Yudu (Sonia) Wu, located in Baltimore, MD, will lead waterline engineering and design tasks. She is a lead water resource engineer with experience in water and wastewater engineering, stormwater management, drainage, stream restoration, floodplain, site development, and asset management. She has comprehensive knowledge of the principles and practices of design and project management in water resource engineering.

Sonia leads the team and manages design projects such as drainage design, best management practice (BMP) retrofit, stream restoration, floodplain studies, water and wastewater utilities replacement and construction, and upgrading of treatment plants and pumping stations; or management projects intended to deliver organizational or program benefits and improvements. She works on both design-bid-build and design-build projects.

Sonia is proficient in AutoCAD Civil 3D for alignment, profile, cross-section, corridor, grading, pipe network, and pressure pipe network. She is skilled with Bentley OpenRoads (Power Inroads ss4) for alignment, profile, cross-section, corridor, and terrain design. Sonia is also proficient in Bentley GeoPak, ArcGIS and ArcSDE, and SQL server; HEC RAS 1D and 2D Modeling; HY-8, Hydraulic Toolbox; HydroCAD, HEC HMS, Flow Master, Culvert Master, WaterCAD.

Representative project experience includes:

- **NAVFAC Medical Projects IDIQ, Virginia Beach, Virginia, 2017 – Present:** Water resource engineer supported the civil team in designing the existing water main and wastewater pipe relocation due to the proposed facility owned by the Washington Suburban Sanitary Commission. Sonia provided calculations in support of the design.
- **Water Main Design Services BOA, Gaithersburg, Maryland, 2018 – Present:** Task manager managing multiple design projects for a 3-mile water main and a 13-meter vault replacement and relocation with a tight project schedule, bringing various projects from different design stages to bid-ready submittal. Sonia coordinated and collaborated with the client's task managers regarding schedule, project progress, permitting and comments, and monthly status reports. She identified and streamlined the permit and easement process on the critical path of design scheduling. She actively coordinated with permit agencies and the client land survey section to ensure application approvals. Sonia oversaw sub-consultants on surveying, geo-tech, and cost estimate tasks; provided technical support to the design team to ensure deliverables met project milestones; performed quality assurance/quality control and communicated with the design team and sub-consultants to enforce deliverable quality.
- **Washington Suburban Sanitary Commission General Engineering Services BOA, Prince George's and Montgomery Counties, Maryland, 2015 - 2023:** Lead engineer worked with the WSSC Engineering and Environmental Services Division to use the Lanham Station Road Water Main Replacement Project as a pilot to compare construction methods, including relocation, relay same trench replacement, and pipe bursting. Sonia identified and analyzed the advantages and disadvantages of pipe bursting compared to conventional open-cut methods. The project included approximately 3 miles of PVC water main replacement ranging in diameter from 6 to 12 inches using the three construction techniques.

EDUCATION (Degree, Year, Specialization):

- Master's Degree, Geography & Environmental Engineering, 2007

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:	REGISTRATION (Type, Year, State):
▪ N/A	▪ Professional Engineer, CA – 78697; MD - 46963 ▪ Project Management Professional, MD - 1826714

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN**
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.):	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Erin Lynch, PG – Aquifer Impact Assessment / Mitigation	20	40	20

BRIEF EXPLANATION OF RESPONSIBILITIES:

Erin will provide technical directions for aquifer/ groundwater studies and can also support NEPA consultations. Erin is a professional geologist and specializes in geology, hydrogeology and environmental investigations under CERCLA and state programs. She serves as a technical lead and manager of large, complex, and often politically challenging projects. She has also worked extensively with the USEPA in their emergency response and removal programs, with the BLM in both removal and remedial programs, and with the Forest Service. Representative project experience includes:

- **BLM Utah State Office, AML Decision Making Manual and Risk-Based Ranking Strategy, Author:** She served as project manager and technical lead. The manual and strategy stemmed from screening level risk assessments evaluating 281 mines sites in three mining districts in Utah. Erin worked closely with WSP, ECM, and BLM risk assessors to develop this risk prioritization method. We used a Multiple Lines of Evidence (MLOE) approach to identifying the highest risk mine sites within a mining district allowing BLM to more easily prioritize, plan, and manage cleanup activities. The manual is now being used by BLM in several other states.
- **Navajo Nation Phase 2 Expanded Trust, Claim 28 and Phase 2 Trust Abandoned Uranium Mines (AUM), Blue Gap, Arizona**: Lead geologist and project manager on the Claim 28 water study investigating impacts of this AUM on surface water and groundwater under the removal site evaluation program. Erin serves as a subject matter expert and technical team leader. The study includes drilling, monitoring well/lysimeter installation, geological survey, surface and borehole geophysics, water and solid media sampling and analysis-including vadose zone water sampling, and site-specific human health and ecological risk assessments. The study is intended to be the model for future water studies on the Navajo Nation. USEPA and Navajo Nation EPA provide regulatory oversight.
- **BLM, Bonita Peak Mining District (BPMD) NPL Site, CERCLA SI, Five Year Reviews, San Juan, Colorado: Geologist.** Completed Data Gap Analysis, administrative record support, and planning document and field sampling effort. BLM sites are within this NPL site. Acid-rock drainage from the numerous mines in the BPMD result in significant loading of metals to surrounding streams. Led a multi- disciplinary team to prepare RSEs, including CSMs and screening level risk reviews, provide SME support, and 5-year reviews for multiple mines located on BLM-managed land within the BPMD. Provided SME support for hydrogeologic issues.
- **Formosa Mine, Lane County, Oregon:** Hydrogeologist. Responsible for a geologic and hydrologic evaluation as part of the preliminary assessment. The mine causes substantial acid mine drainage that has impacted two local creeks, degrading one of them for 13 miles downstream from the mine.
- **North and South Maybe Mines Potentially Responsible Party (PRP) Oversight and Enforcement Support, Southeast Idaho:** Lead hydrogeologist. Managed complex review of field activities to characterize excessive selenium uptake from two former phosphate mines (one with a 1.5-mile mine pit) located in Caribou-Targhee National Forest, where livestock deaths have been associated with the phosphate ore-bearing rock units and mine waste rock. The livestock deaths and recreational activities in the area have made this a high-profile site. Erin managed enforcement support for the Forest Service regarding the PRE-led RI/FS. Erin provided oversight and confirmation split sampling of field activities, and high-level risk assessment and FS study support. Throughout the project, Erin and the team have supported the Forest Service in their interactions with other stakeholders, as well as the responsible party.

EDUCATION (Degree, Year, Specialization):

- Master's Degree, Geology, Michigan State University, 1992
- Bachelor's Degree, Geology, Michigan State University, 1985

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:	REGISTRATION (Type, Year, State):
N/A	Professional Geologist, AZ – 67843; UT - 10854749-2250 Registered Geologist, OR - G2285

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN**
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Eric Blumenstein, PE - AMD Evaluation and Abatement Design	19	19	0

BRIEF EXPLANATION OF RESPONSIBILITIES:
Eric will serve as the AMD Water Treatment subject matter expert. Eric Blumenstein has experience with passive and active water treatment systems for active and closed mine sites. Passive treatment experience includes evaluating data, developing process flow streams, conducting alternatives evaluations, and designing bench, pilot / demonstration scale, and full-scale systems. Eric brings extensive experience treating water influenced by mining operations, including characterization, process development, water treatment plant detailed design, engineering services during construction, commissioning support, and operational support. Representative project experience includes:

- **Climax Molybdenum, Molybdenum Water Treatment Plant, Colorado:** Project engineer/ project manager during design and Project Director throughout construction. Led multidisciplinary detailed design for a 14,000-gpm molybdenum removal mine tailings treatment plant. The plant will allow for additional ore processing and extend mine life and be used for closure water management. System feed water comes from a tailings facility via pumps on a floating barge, and system effluent is sent to a high-density sludge lime precipitation water treatment facility. The plant consists of a 100' x 105' process building and two 160' diameter clarifiers with an underground access corridor to sludge pumps. Construction occurred over 2022 – 2024. Plant starts in Q1 2025.
- **Quinsam Coal Mine – Closure Water Management.** WSP developed an innovative sustainable passive water treatment technology to remove sulphate from seepage water at a coal mine in British Columbia. The demonstration scale system has been operational at the site for over five years and is based on successful bench and pilot scale work. WSP prepared an operations and maintenance manual and a sampling and analysis plan and provided training to site personnel for operations of the system.
- **Kinross Gold, Moro da Mina Closure Planning, Brazil:** Lead process/project engineer for mine water management closure planning at an operating gold mine. Tasks included pre-feasibility and feasibility studies of water treatment of over six drainages. Multiple pilot studies were designed, procured, installed, and operated over the project duration and was incorporated into closure planning. Efforts included management of surface water runoff.
- **California State Parks, Empire Mine, Magenta Drain Closure Water Treatment, California:** Senior engineer. Provided bench scale and full-scale design support for a hybrid active/passive water treatment system. Full-scale treatment system consists of an iron oxidizing pond, constructed wetlands, and manganese removal beds. The system includes pumps and pipelines to recirculate water during start-up and if needed during operations. The design flow rate is up to 600 gpm and the full-scale system is operating successfully.
- **Freeport McMoRan Inc., Iron King Closure Water Treatment, Arizona:** On-site treatability testing, and development of process flow for a hybrid passive active water treatment system designed to treat metal-laden AMD at a closed mine site. Subsequent detailed design, construction, and operational support of the full-scale passive treatment system occurred in 2010. The full-scale system consists of a piping from two adit bulkheads, a biochemical reactor, an aerobic polishing wetland, an infiltration area, a recirculating pump system, and a remote monitoring system. Provided operation and maintenance (O&M) support over the following decade.
- **Dominion Power, Clover Water Treatment Plant, Virginia:** Start-up support of chemical precipitation, clarification, and multimedia filtration plant to treat up to 0.5 MGD of landfill leachate and coal pond runoff for direct river discharge under an NPDES permit. The plant is designed to treat manganese, pH, and TSS.

EDUCATION (Degree, Year, Specialization):
- Master's Degree, Environmental Science and Engineering, 2006
- Bachelor's Degree, Engineering - Environmental Specialty, 2003

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:
- N/A

REGISTRATION (Type, Year, State):
- Professional Engineer, CO – 43746; MO - 2017039796
- MSHA Mine Safety And Health Administration Surface Miner Refresher

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN**
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Kurtis Meissner, PE, CPM - Construction Oversight	10	34	10

BRIEF EXPLANATION OF RESPONSIBILITIES:

Kurt will lead AML construction projects. He has 34 years of experience leading design and construction teams on design-build and design-bid-build pursuits in various roles, including EOR, Owner's Engineer, General Contractor and Construction Manager. He has been the technical lead on large, complex projects involving mine water treatment plants, e-waste recycling facilities, pipeline demolition in support of mine closure, spillway inspections and repairs/replacements, and other work. He is in Pittsburgh, PA office.

He understands the importance of working collaboratively with an Owner to ensure each project meets its objectives safely, on-time and on-budget. Kurt's approach to design-build projects begins by facilitating design charettes with various stakeholders to define project requirements and goals; fostering strong communication across the design discipline leads to ensure a coordinated design result that is free from conflicts; engaging construction personnel during the design phase to perform constructability reviews (or performing such himself); and ultimately liaising between contractors and engineers to efficiently address any issues that arise before they impact the project budget or schedule.
Representative project experience includes:

- **West Virginia DEP – Kanawha Development Project (2025 – Present).** Project Manager. Responsible for all aspects of WVDEPs first Progressive Design-Build project. Phase 1 includes a firm fixed price for initial design efforts through 60%. Scope elements include coal silo demolition and disposal; remove/modify electrical utility infrastructure; tram way structures & large debris removal and tram way stabilization; storm system replacement and pond removal/revegetation; and outfall inlet and pipe investigation. Upon completing Phase 1 deliverables, Phase 2 will be negotiated which is the completion of the designs and the implementation of the completed designs.
- **Henderson Mill HDS Water Treatment Plant:** Technical project manager. Responsibilities include ensuring all technical aspects of the design group are meeting the needs of the client, construction and ensuring the client is satisfied and well informed of the progress of all ongoing design efforts. This involves ensuring prompt and accurate request for information (RFI) responses, submittal reviews and development and issuance of field design changes by the Engineers of Record.
- **Climax Mine Water Treatment Plant Expansion:** Technical project manager. Responsibilities included quality assurance (QA) reviews for technical aspects of the design group and ensuring the client is satisfied and well informed of the progress of all ongoing design efforts. This involves ensuring prompt and accurate RFI responses, submittal reviews and development and issuance of field design changes by the Engineers of Record.
- **Igneo Technologies, Electronic Waste Recycling Plant Design and Construction:** Construction/procurement integrator who performed constructability reviews and developed statements of work for installation contractors. Worked seamlessly with construction and procurement to eliminate scope gaps between on-site contractors, building suppliers/erectors and equipment suppliers, which included participating in scoping calls with prospective contractors. Assisted engineering resolving ambiguity in the project documents to ensure contractors had the salient project elements included in their costs. Was eventually requested to lead the design for a ~$10M 20,000 SF administration building. Facilitated a design charrette to document Client requirements, developed conceptual layouts and prepared associated cost estimates.

EDUCATION (Degree, Year, Specialization):
- BS, Mechanical Engineering, 1990

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:	REGISTRATION (Type, Year, State):
▪ N/A	▪ Professional Engineer, VA, No. 0402031785 ▪ Certified Project Manager, Int.'l Accreditors for Continuing Ed. and Training

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN**
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.):	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Stephanie Eisenberg – Realty Services	0	18	0

BRIEF EXPLANATION OF RESPONSIBILITIES:

Stephanie will lead property access tasks for AML projects. She has 18 years' experience as a communications and public involvement professional, developing, managing and implementing outreach strategies through in-person engagement via traditional and digital engagement methods. Stephanie has worked in both private and public sectors across the US. Stephanie will serve as the Community & Public Outreach Lead. She will report directly to the Project Manager and will develop and execute the strategic outreach plan for impacted and adjacent stakeholders and property owners. Empathetic and engaging communication including mailers, door knocking, and letters to municipalities and community organizations will ensure that the necessary rights of entry are obtained and that the public understands and has a favorable perception of project execution and outcomes. Representative project experience includes:

- **AEP Indiana and Michigan Power, Hydro Roadmap and Community Conversation, Elkhart, Indiana and Mottville, Michigan:** Led engagement and outreach during comprehensive review of the future of two hydroelectric facilities. Stephanie developed a robust public engagement strategy to be deployed. Stephanie is developing and executing a strategic public engagement plan, developing all needed outreach deliverables, including designing and launching a website, creating an online and paper survey, tracking any inquiries, developing social media content, planning and executing two public open houses, creating needed fact sheets, open house exhibits, frequently asked questions, and more.
- **AEP Ohio, Souder 138 kV Transmission Extension Project, New Albany, Ohio:** Led engagement and outreach strategy for sensitive new transmission line and substation project. This customer-driven project is close to multiple communities and two public parks, and requires in-depth stakeholder and public outreach techniques, including multiple in-person and virtual stakeholder meetings, direct landowner communications, comments and physical and digital outreach deliverables.
- **AEP Ohio, Lancaster Power Grid Improvements Program, Lancaster Ohio:** Project Manager and Principal Outreach and Engagement Consultant for this extensive suite of transmission line projects, which include upgrading and rebuilding transmission infrastructure that is over 100 years old in Fairfield County, Ohio. Tasks include developing and executing a public involvement plan, supporting stakeholder meetings, planning and executing multiple Public Open Houses and Virtual Open Houses, tracking and responding to customer inquiries, developing digital and print project collaterals, attending and participating in progress meetings, and assisting the client on public outreach tasks as needed.
- **AEP Ohio, Vassell-Green Chapel Transmission Enhancements, Delaware and Licking counties, Ohio:** Principal Outreach and Engagement Consultant for this extensive and high-level customer-driven project which involves constructing two 345 kilovolt (kV) transmission lines in Delaware and Licking counties, Ohio, and building a new substation in Licking County. She is tasked with developing and executing a public involvement plan, supporting stakeholder meetings, planning and executing a Public Open House and Virtual Open House, tracking and responding to customer inquiries, developing digital and print project collaterals, attending and participating in progress meetings, and assisting the client on public outreach tasks as needed.
- **AEP Ohio, Philo-Newcomerstown Area Improvements Project, Tuscarawas, Guernsey, Coshocton and Muskingum counties, Ohio:** Principal Outreach and Engagement Consultant for the 35 mile rebuild project. She was tasked with executing a public involvement plan, supporting stakeholder meetings, planning and executing a Public Open House and Virtual Open House, tracking and responding to customer inquiries, developing digital and print project collaterals, attending and participating in progress meetings, and assisting the client on public outreach tasks as needed.

EDUCATION (Degree, Year, Specialization):

- Bachelor of Arts, 2007, Communication Arts

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:	REGISTRATION (Type, Year, State):
▪ WTS	▪ N/A

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

WSP is a full-service firm with a tremendous variety of software and equipment for mine reclamation projects (engineering, assessment, design, investigation, construction oversight, and long-term monitoring). Representative items include the following:

Software:

- MicroSoft Suite and MS SharePoint
- Adobe Creative Suite
- ArcGIS Suite
- GEOPAK Civil Suite
- InRoads
- AutoCAD Civil 3D or earlier releases
- MicroStation
- ArcScene/ArcGIS 3D Analyst
- ArcGIS Spatial Analyst
- RS Means
- Water CAD
- StormCAD
- HydroCAD
- Water GEM
- Water Hammer
- HEC RAS and HEC HMS
- Autodesk Storm and Sanitary Sewer Analysis
- Autodesk Hydraflow Hydrographs
- XP SWMM
- Bentley AutoPIPE (Piping Design and Analysis)
- GASWorkS 9.0 (Natural Gas and Compressible Fluid Piping Systems Network Modeling Software)
- PIPELINE Toolbox (Gas and Liquid Pipeline Analysis and Design)
- STAAD (Structural Analysis and Design)
- Staad Foundation Advance (Foundation Design)
- TNX Tower (Telecommunications Tower Analysis)
- Retain Pro (Retaining Wall Design)
- Sage Timberline
- Slide2 by Rocscience (Stability and Seepage Modeling)

Field Equipment:

- PANDA Dynamic Variable Energy Penetrometer with Automatic Hammer
- EOS Arrow 100
- Water level meter
- Inclinometer probe
- Hand auger
- Vibrating Wire analyzer
- Pickup Trucks / fleet vehicles
- Miscellaneous hand tools
- Water sampling and water monitoring equipment
- Air sampling and air monitoring equipment
- Water pumps and dedicated sampling equipment
- Soil and sediment sampling tools
- Laser and digital survey tools
- Aerial survey drones including LiDAR
- Boats for survey / sampling tasks
- Tablets for field data collection
- Surface geophysical survey equipment (mag, resistivity, GPR)
- Borehole geophysical survey equipment (caliper, multi-spectral, televiewer)
- Rope access / confined space safety equipment
- Personal Protective Equipment (PPE)
- Field testing / screening equipment
- Laboratory field test kits
- Specialized equipment for biological sampling
- Others rented /sourced as needed on a project-specific basis.

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

Aerial / Drone Survey Equipment:

2025	Wingtra One Gen II
2025	Wingtra Sony RGB61 6018
2025	Wingtra One Gen II
2025	Wingtra One Gen II
2025	DJI Air 3
2025	DJI Mini 3
2025	DJI M4E
2024	DJI Mavic 3 Enterprise
2024	DJI Mavic 3 CIne
2024	DJI Mavic 2 Zoom
2024	DJI Mavic 3 Enterprise
2024	Wingtra One Gen II
2024	Skydio 2+
2024	Wingtra LiDAR 5824
2024	Wingtra Sony RGB61 5362
2024	Skydio 2+
2024	Harris Aerial H6
2024	Riegl Vux12o
2024	Wingtra LiDAR 2468
2024	Skydio X10 SR47PCV
2024	DJI Mavic 3 Enterprise
2024	Skydio 2
2023	DJI Mavic 3E
2023	Skydio 2+
2023	DJI Mavic 3 Enterprise
2023	Wingtra Sony RGB61 2468
2023	PhaseOne iXM100
2023	Skydio 2+
2022	DJI Mini Pro 3
2022	DJI Mini Pro 3
2022	2+
2022	DJI Air 2S
2022	DJI Mavic 3 with extra batteries (5)
2021	Skydio 2
2021	DJI Mavic Air 2
2021	Skydio X2E
2019	Mavic 2 Pro
2019	DJI Mavic 2 Enterprise Zoom
2019	DJI Mavic 2 Enterprise Dual
2019	Mavic 2 Pro
2018	DJI Inspire
2018	Mavic 2 Zoom
2018	Anafi
2018	DJI Matrice 600 Pro
2018	Mavic Pro
2018	Mavic 2 Pro
2018	Mavic 2 Pro
2018	DJI Matrice 600 Pro
2018	SENSEFLY EBEE PLUS
2018	FLIR VUE PRO R THERMAL SENSOR
2018	Sony A7R II
2018	DJI Matrice 300 RTK
2018	DJI L1 LiDAR
2017	DJI Matrice 200
2017	Phantom 4 Pro
2017	MAVIC PRO
2017	PHANTOM 4 PRO
2017	PHANTOM 4 PRO
2017	Phantom 4 Pro

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
West Virginia DEP – Kanawha Development Project, West Virginia	West Virginia Department of Environmental Protection	WSP just initiated the Kanawha Development Project which is a progressive design-build project. Scope includes demolition of coal silos, regrading of disturbed land, debris management and removal, reconfiguration of drainage features and final restoration and revegetation.	$1,974,397	<5%
Longview Power Plant Owner's Engineer (OE) with MSCE, West Virginia	MHI Hydrogen Infrastructure LLC	WSP is providing owner's engineering services to build a 700-2000-megawatt CCGT power plant to feed a data center.	Confidential	95%
Teck Washington, Pend Oreille Mine, Closure Design, Washington	Teck Washington, Pend Oreille Mine, Metaline Falls Washington	WSP is performing evaluation and closure recommendations and design for several legacy mine openings including vertical raises and main portals. The work will also include demolition support of mine-related infrastructure and construction oversight.	$1,500,000	90%
Former Ferrochromium Alloy Processing Plant Closure, Jefferson County, Ohio	Confidential Client	WSP worked under a national Master Services Agreement (MSA) with the client and acted as the prime consultant, serving as the environmental consultant, design engineer and construction manager for closure and restoration of a legacy former coal mining property repurposed and redeveloped as the site of a ferrochromium alloy production plant.	$11,500,000	90%
Questa Rockpile and Tailing Closure, New Mexico	Chevron	WSP is performing ongoing services for the Group 1 Waste Rockpile Pilot Project for soils and vegetation and preparation of Group 1 operations, monitoring, and maintenance plan for erosion and vegetation. WSP is also working on a tailings facility remediation. WSP is the Engineer of Record including quarterly inspections and emergency planning in compliance with NM Office of the State Engineer. 270-acre Dam 1 closure design including geotechnical investigations, engineering, cover design and revegetation, and construction quality assurance. Currently demonstrating the effective performance of 2-foot cover system to reduce closure costs for 500-acre Dam 4 remedial design.	Confidential	90%
Copper Ridge Landfill, West Virginia	Copper Ridge Landfill LLC	2024 & 2025 Compliance Reporting	Not Applicable	90%

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Mercer County Landfill, West Virginia	Mercer County Solid Waste Authority	2024 & 2025 Compliance Reporting	Not Applicable	90%
Pipeline Re-route/Coal Mine Fire, Mingo County, West Virginia	Confidential Client	WSP performed emergency response, re-route feasibility analysis, and mitigation design services to a pipeline leak that was caused by rapid subsidence as a result of actively burning deep coal mine fires. The abandoned mine site had been room and pillar, auger, and contour mined through multiple seams. Emergency response actions included determining the cause and extent of the underground mine fire activities and developing a plan for long-term mitigation. A feasibility analysis was performed to evaluate several alternatives, including mine grouting, re-route, and trenchless installation such as HDD and microtunneling. WSP is currently designing a one-mile open-cut re-route with rock cuts was chosen as the preferred alternative.	$35,000,000	10%
TOTAL NUMBER OF PROJECTS: **>100 per year in the US**		TOTAL ESTIMATED CONSTRUCTION COSTS: **> $100M per year in the US**		

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS					
PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Triumph Mine Remediation Support, Idaho	WSP is performing design of an infiltration pond system to manage flows from the abandoned Triumph Mine Portal. Providing design and construction support services. Support includes preparation of an alternatives analysis and subsequent design package to provide a repair for an existing tailings cover. The repair consisted of the import of topsoil, grading, stormwater management features, and revegetation.	Idaho Department of Environmental Quality, Boise Idaho	Summer 2026	$2,000,000	$750,000
WVU Medicine - Berkley Medical Center - Perioperative & Clinical Expansion, West Virginia	WSP is a subconsultant to Heffron Company, Inc. to provide design and engineering services.	West Virginia University Medicine Martinsburg, WV	December 2026	Confidential	Confidential
United Creosote Site Remediation, West Virginia	WSP is providing environmental remediation support to the Versar WSP JV	US Environmental Protection Agency	2024	$1,444,000	Environmental studies and design
Bailey Mine Development, Pennsylvania	WSP is conducting a site visit of the Bailey Mine to understand the existing conditions and perform scoping work. WSP is a subconsultant to Sanborn Head & Associates	Confidential	2025	Confidential	Mine condition assessment consulting

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD***				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Allison Mine, Phase IV Geotechnical Exploration and Undermining Hazard Assessment, New Mexico AML Program	New Mexico DEP	~$365,000 (engineering fees)	2025	YES
BP Newark Marine Terminal Decommissioning, Design-Build, Port Newark, New Jersey	BP Remediation Services Company 201 Helios Way, Helios Plaza 6.372A, Houston, TX 77079	$18,000,000	2021	YES
Closure Pre-Feasibility and Strategy Development, Large Copper Mine, Utah	Confidential Client	Confidential	2020	YES
OU8 ROD1 Remedial Action, Heap Regrade and Cover, Anaconda Copper Mine, Yerington, Nevada	BP Remediation Management	$35,000,000	2022	YES
McCoys Creek Restoration and Trail Plan, Jacksonville, Florida	City of Jacksonville	$4,000,000	2024	YES
Mine Site Remediation, Barker-Hughesville Historic Mining District Superfund Site, MT	Doe Run Resources Company Monarch, Montana	$1,100,000	2022	YES
Berkley Pit Site (Polishing Plant) Treatment Plant, Butte, Montana	BP Remediation Management	$20,000,000	2022	YES
Elkview Landslide Mitigation Project	Confidential Client	$12,000,000	2021	YES

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD***				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Cortez Mine Tailings Storage Facility Engineer of Record Services	Nevada Gold Mines, LLC	Confidential	2023	YES
Chevron/2022 McKinley Mine Revegetation / Reclamation Support/NM	Chevron Environmental Management Company McKinley County, New Mexico	$4,632,032.00	2022	YES
2022 FGYO Closure Engineer of Record (EOR) And Construction Support	Nuwest Industries, INC. Soda Springs, ID	Fees $502K	2023	YES
Pheonix Mine Tailings Storage Facility EOR	Nevada Gold Mines LLC, Nevada	Fees $991K	2024	YES
Simplot/2020 EoR/UT	JR Simplot Company Vernal, UT	Fees: $290K	2022	YES
Simplot / Smoky Canyon TP1, 2022 EOR Review / ID	J.R. Simplot Company Turnerville, WY	Fees: $154K	2022	YES
Glencore/Tailings Storage Facility 2021 EOR Services / CA	Glencore Grey Eagle Siskiyou County, CA	Fees: $104K	2023	YES
Steubenville Solar Development, Geotechnical and Construction Services, Ohio	Steubenville Solar LLC	N/A	2023	YES
Recreation Solar Development, Geotechnical and Construction Services, Ohio	Recreation Solar LLC	N/A	2023	YES
Nottingham Solar Development, Geotechnical and Construction Services, Ohio	Nottingham Solar LLC	N/A	2023	YES
*** All WSP projects included in this list were completed on schedule with all key deadlines met.				

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS CONSTRUCTION OVERSIGHT ON PROJECTS				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Little Gunpowder Falls Tributary Stream Restoration at MD 145/MD 165, Design-bid-build, Baldwin, MD	Maryland Department of Transportation State Highway Administration (MDOT SHA) 707 North Calvert Street Baltimore, MD 21202	$1,600,000	2020	YES
Gramies Run Stream Restoration, Design-bid-build, Cecil County, MD	Maryland Department of Transportation State Highway Administration (MDOT SHA) 707 North Calvert Street Baltimore, MD 21202	$1,128,000	2020	YES
Milepost 14 Mill Creek Stream Restoration, Design-build, Washington, Kansas	Confidential Client	$500,000,000 (Est)	2024	YES
Tailings Facility Buttress Construction (confidential site in Arizona)	Confidential Client	Confidential	2023-present	YES
2022 VFII Construction Quality Assurance,	Northshore Mining Company Babbitt, MN	$1.7M (est)	2023	YES
Marigold PWS EXP Construction Management Support	Marigold Mining Company Elko, Nevada	$1.05M (est)	2023	YES
RCML IC-6 Reclamation Land Mitigation	Resolution Copper Mining, USA	$360K (est)	2020	YES
CQB Bisbee Well Installation 2021	Freeport McMoran Copper & Gold, LLC Bisbee, Arizona	$220K (est)	2022	YES
TeckMet RDO ZN Thickener Pump Construction Management Support	Teck Alaska Incorporated Red Dog, AK	$920K (est)	2023	YES

19. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)					
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
CEPR Coal Reserves Report, Technical and Economic Services	PT Cirebon Electric Power, South Jakarta	Fees: $30K	2023	N/A	Pt Geotechnical And Environmental Services Indonesia
CCUS Study and Seminar	Sinopec Corp., Houston, Texas	Fees: $14K	2022	N/A	Amerasia Investment & Management Inc

20. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

Introduction to WSP

Founded in 1885, WSP currently boasts 73,000 global employees worldwide, providing engineering, remediation, regulatory and compliance, design, environmental and project-, program- and construction management services. WSP has 19,000 US-based employees in more than 250 offices. Our talented people are well-positioned to deliver successful and sustainable projects, wherever our clients need us. Our professionals are driven by a passion to deliver results, offering unique specialized skills to address the ever-evolving challenges that the earth and environment present to clients across the infrastructure, water treatment, mining, oil and gas, manufacturing and power sectors.

WSP currently has over 105 active projects in West Virginia, covering a wide variety of clients and tasks, including due diligence, environmental assessment, remediation, reclamation, planning and advisory, solid waste, transportation, healthcare, and other project sectors.

WSP's mine closure services include Closure Planning & Alternative Analysis; Regulatory and Stakeholder Engagement & Approvals; Engineering Design; Implementation; Cover Design, Revegetation, & Rehabilitation Services; Landform Design & Alternative Land Use; Demolition; and Post-Closure Monitoring & Maintenance.

WSP has a long history of working on mine closure projects for both industry and government agencies. Our work with AML Programs in other US States, as well as our work with all types of mining clients (hard rock, coal, potash, surface and underground, aggregates) in the US, gives us the experience and understanding to meet the WVDEP AML Program's needs.

To support the WVDEP AML Program priorities, WSP has assembled a multidisciplinary team of engineers and scientists capable of responding to the range of engineering services likely to be completed under this procurement. Several team members have a significant history specifically with AML Programs as well as other abandoned mine remediation programs and frequently provide on-call engineering services to other state agencies and private mining operators.

Understanding of WV DEP AML Program

The West Virginia DEP's AML Program focuses on the reclamation and restoration of land and water resources affected by past coal mining activities. This program was established following the enactment of the Surface Mining Control and Reclamation Act of 1977 (SMCRA) and is federally funded through grants administered by the Office of Surface Mining Reclamation and enforcement (OSMRE). The program addresses hazards to public health and safety due to environmental damage such as AMD, unstable highwalls, and hazardous mine openings.

We understand that the contract will require:

- Compliance with the Infrastructure Investments Jobs Act (IIJA)
- Planning Work
- Realty Work
- Design Work
- Construction oversight work

Planning Work

WSP is fully capable and shall be responsible for all the basic services described in the EOI including, but not limited to:

- Review of existing studies, site characterizations and AML engineering designs and technical specifications related to abandoned mine sites and surrounding natural resources.
- Conduct assessments and inventories of abandoned coal and non-coal mine sites.
- National Environmental Policy Act (NEPA) consultations, West Virginia Division of Natural Resources (WVDNR) consultation, West Virginia Historic Preservation Office (SHPO) consultation, WV Regional Planning consultation, US Forest Service consultations, US Fish and Wildlife Service (USFWS) consultations, and any other consultation(s) or permit(s) needed to perform the Work. Coordinate on-site activities with landowners, land management agencies, and mineral claimants and participate in public meetings and communicate with participating agencies, civic organizations, landowners, and other stakeholders.
- Threatened and Endangered species surveys, investigations including required reporting submittals
- Bat studies and bat-friendly design recommendations
- Sampling and data collection and reporting pertaining to water quality and quantity, soils, and air
- Prepare written reports with findings and recommendations and provide metadata for all data collected.

These activities collectively support a comprehensive approach to support the West Virginia AML Program in addressing hazards. By integrating site characterizations, ecological assessments, and stakeholder consultations, teams can develop informed strategies. This includes identifying and evaluating the presence of sensitive habitats and species. The coordination with regulatory agencies, landowners, and community stakeholders ensures that the reclamation designs are aligned with environmental compliance and public interests. Through detailed reporting and metadata documentation, the work facilitates transparent decision-making and supports long-term resource management and reclamation planning.

Realty Work

Public involvement can be one of the more important components of these projects. WSP's approach in working with public groups and individuals has been to listen carefully to their concerns, respond in a positive manner, incorporate responses to public comments into the process, educate the public, and develop scientific credibility. It is important that the public has confidence in AML and their consultant's ability to provide working solutions. WSP has experience preparing public involvement plans, comment analysis summaries and reports, scoping brochures, scoping reports, and responses to public comments. We prepare and mail bilingual certified public notices, locate meeting rooms; prepare news releases; and plan, attend, facilitate or lead public meetings. We routinely prepare posters and displays of public meetings and provide qualified in-house facilitators when requested by our clients.

Risk-Based Focus on Closure

WSP applies the 'source-pathway-receptor' concept as part of its contaminated land solutions. In essence this involves identifying current and potential organic and inorganic contamination sources on site (such as waste, spillages, processing plants). The receptors or areas that will be impacted by identified sources can then be pin-pointed as well as the pathway (water, air, soil) connecting the two. Through this methodology, outcomes can be translated to clients, enabling them to make informed decisions about how to address, and prevent environment-harming situations.

WSP understands that Task Orders may include project sites with diverse landownership that can include private, State Trust Lands, tribal and federal lands. We also understand there may be a need to secure site access agreements with private landowners which may involve multiple parties including the WVDEP, WSP, our sub-consultants and AML construction contractors. Some Task Orders may need Special Use Permits or Right-of-Way access for working on federal, tribal, or state lands.

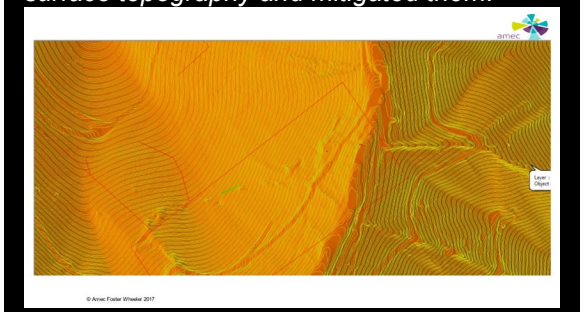
The WSP Team will determine any of the Exploratory Rights of Entry (EROE) needed to perform the field investigation at the beginning of the project. During the design process, the areas needing Construction Rights of Entry (CROE) /Easements will be identified, prompting discussions with the WVDEP task manager and engagement with property owners. WSP will also support WVDEP in obtaining Memorandum of Understanding and other relevant agreements to provide site access.

Design Work

WSP depth of engineering expertise can successfully complete the required Design Services as described in the EOI including, but not limited to:

- Survey of abandoned mine sites to evaluate site characteristics, hazards, and environmental issues.
- Prepare technical drawings and specifications, including cost estimates and bid schedules for construction work.
- Evaluate reclamation and safeguarding alternatives.
- Provide construction oversight and quality assurance services during remediation efforts at project sites.
- Through our subcontractors, provide professional land surveying, topographic surveys, and mapping services as well as determine surface and mineral ownership and identify property boundaries and easements.
- Conduct post-construction monitoring of AML reclamation and develop monitoring protocols and success criteria.

Above: An example of 3-D underground mine mapping (overlain with site ground surface topography) by WSP to support stability analysis and hydrogeology. Below: An example of how LiDAR is effective in looking for subsidence area risks where the 3-D mapping suggested their potential presence. We identified these "sink holes" in the ground surface topography and mitigated them.



Specific qualifications in response to the General Design Services of the AML EOI are summarized below.

Engineering Design, Drawings, and Construction Cost Estimates: WSP's engineers routinely provide design services on mine reclamation projects for both coal and hard rock mines. WSP has many civil and geotechnical engineers licensed in West Virginia who can direct design and seal design documents and specifications. Our experience with engineering design for mine closure projects ranges from small, simple waste excavation or cover grading plans, to design of large dams, closure of large mine sites, and design of specialized closure features such as hydraulic bulkheads. WSP is also familiar with, and has executed, geomorphic reclamation design.

Depending upon the project needs, WSP works with the project stakeholders to develop design criteria, followed by a phased design process allowing for stakeholder review and comment prior to finalization.

WSP frequently provides our mining clients with Issued for Bid packages, bid assessments and ranking, and construction management including a schedule and cost controls. Design drawings and specifications are used to generate material take offs (MTOs) for use in construction cost estimating. For civil construction cost estimates, WSP uses published cost information, as well as information from our project experience. For

specialty projects for which published costs are unavailable, WSP is able to use costs from our previous project experience, and frequently we are able to get additional cost information from our other mining clients, as well as construction contractors.

Evaluating Reclamation and Safeguarding Alternatives: WSP typically evaluates reclamation and safeguarding alternatives associated with historical mining activity using a Risk Assessment tool that quantifies the consequence and likelihood of a given risk or hazard. This allows for comparison of alternatives based on the risk profile post-implementation. For any safeguarding or reclamation project, alternatives are also evaluated based on project objectives and priorities. The objectives and priorities should consider those for the owner, and stakeholder, and typically include cost, schedule, and effectiveness. Once the objectives and priorities are understood, all potential alternatives can be evaluated for performance against the priorities and how effectively the alternative reduces the hazard or risk. A matrix is often used to rank the options with regards to each priority and weighing the priorities according to the project objectives. Using this approach, advantages and disadvantages are identified for each alternative, and the scoring can identify the preferred alternative.

Evaluation of alternatives is typically completed at the conceptual design level and uses order-of-magnitude cost estimates. However, the rankings may also be revisited as the design advances, particularly if weaknesses in the design or changes in the priorities are identified.

Construction Oversight Work

To ensure that construction meets the project objectives, WSP typically provides construction oversight on our design projects. WSP's engineers provide oversight of construction activities to ensure compliance with designs and specifications, and to ensure that work is completed in a safe manner. Many of WSP's engineers and technicians are also trained and certified in the completion of construction QA/QC testing, such as air monitoring, casting grout cubes or concrete cylinders, concrete slump tests, grout density testing, and nuclear density compaction verification. WSP engineers document observations in field notes, and with photos, and prepare daily reports documenting the: construction activities; weather conditions; contractor equipment and personnel; site visitors; meetings and discussions; and problems and resolutions.

After construction is complete, WSP is frequently engaged in post-construction monitoring to verify that the construction has met the project objectives, and to identify any deficiencies or maintenance requirements. These site visits may include activities such as checking ventilation at closed portals, collecting water, soil, or rock samples, and measuring erosion features.

Commitment to Meeting Schedules and Sensitivity to AML Project Deadlines

The WVDEP plays a crucial role in addressing the legacy of AML in the state. It is important to acknowledge that the nature of AML reclamation projects, often involving complex environmental and safety concerns, can require timely and effective solutions to protect the public from AML hazards. WSP uses Critical Path Scheduling to manage project tasks by defining the sequence of activities that directly affect the project's end date. This approach allows the WSP Project Manager to prioritize tasks, manage resources, and ensure timely project completion. We understand WVDEP sets AML project expectations in the following ways:

- **Focus on timely action:** In cases of emergencies or sudden threats, the WVDEP's Office of Abandoned Mine Lands and Reclamation (AML) program emphasizes quick response to mitigate risks. WSP has experience addressing emergencies or priority incidents.
- **Contractor requirements:** The WVDEP imposes strict requirements on contractors, including deadlines and adherence to specifications for AML projects. This demonstrates an effort to ensure the

timely completion of projects. WSP has the resources needed to mitigate schedule risks.

Project Management Approach

WSP has developed an advanced project management strategy designed to track and reduce overall project liabilities and to minimize expenses. The strategy includes active project management, strategic planning and implementation, competitive bidding, use of AML preferred subcontractors, preferred WSP labor rates, preferred laboratory rates, and advanced field techniques.

WSP's site management strategy is highly effective and results-oriented. By collecting discreet, predictive, and actionable data a remedy can be designed and constructed using advanced diagnostics tools and digital solutions. Our approach is designed to evaluate remedies and hazards in small, controlled and contained ways to allow the best alternative to emerge that fits our client's business needs. Features of our project management approach include:

Project Safety and Risk Management

WSP's Health, Safety, Security and Environmental (HSSE) and Risk Management experience and capabilities span the spectrum, from enterprise, program and project levels for HSSE and project performance risks. Our approach to project safety and performance risk management are described below.

Project Safety

Key to our ability to deliver successful projects is our comprehensive safety program with a goal of zero occupational injuries and illnesses. In support of a project, WSP will prepare a Project Health and Safety Plan (HASP) reflecting the broad foundation needed for safe and successful execution of an AML project. The HASP will describe material and non-material HSSE risks, mitigation strategies and a system to verify specified controls are in place and effective.

Prior to mobilization, WSP will conduct a readiness review with key project team personnel, such as the Project Manager ("PM"), Construction Manager ("CM"), Site Safety & Health Officer ("SSHO") and field team leader, to confirm appropriate safety measures are in place prior to field work commencing. Any project staff expected to be on site during predesign, design or construction will be trained on the HASP and competency assessments will be performed when appropriate. In the event of an HSSE incident, WSP comply with the HASP and WVDEP policies procedures and a detailed root cause analysis (RCA) will be conducted. The depth of the RCA will be driven by the potential severity of the incident in question, rather than the actual outcome.

All HSSE risk information, including monthly HSSE risk reports and periodic changes will be regularly reviewed by WSP and WVDEP to provide continuous alignment on HSSE risk mitigation strategies. At the conclusion of the project, a post-field HSSE debrief will be conducted with improvement opportunities and any lessons learned identified and communicated to WVDEP.

Risk Management

WSP's comprehensive risk management process draws upon industry best practices and our extensive experience managing complex projects with stringent technical requirements, critical scheduling and phasing criteria and active stakeholder engagement. WSP has promulgated and enacted global Risk Management policies applicable to all projects company-wide and is a key element of the Project Management Plan (PMP). The process enforces proactive identification of project risks and ensures mitigation actions are in place and integrated into the project delivery process. Through an active and engaging risk management program, the project team is able to identify and reduce the frequency of surprises during project execution which contribute to poor and unfavorable outcomes.

The PM will implement our risk management approach and capture potential project risks in the Project Risk Register. The key elements of the Risk Register include (1) detailed descriptions of each potential risk event, (2) probability of occurring, (3) potential impacts to cost and schedule, (4) qualitative characterization (very high, high, medium, low), (5) mitigating actions necessary to minimize or eliminate the potential impact of the risk should it occur, (6) assigned owner and (7) status. WSP understands the Risk Register is a living document and shall be updated throughout design and construction. All risks are proactively monitored – with new risks added as they are identified – and reviewed with the entire project team monthly to ensure appropriate actions are being taken to mitigate all previously and newly identified risks.

Cost Control

- WSP's ability to identify objectives, develop strategies, control liabilities, work effectively with regulators, and implement effective management approaches results in projects that are routinely completed within budget and, often, at significant cost savings. Equally important, our approaches successfully minimize clients' immediate and long-term liabilities. WSP controls costs by identifying client objectives and tailoring a strategy that proceeds only as necessary to achieve those objectives. We assign personnel who are properly suited to meet the client's needs and seek competitive bids for all subcontractor services. ***WSP's Horizon™ management system includes establishing project budgets and schedules and updates them to the project manager's dashboard daily.***
- WSP's Project Manager will be responsible for cost control through careful tracking and by following a cost reduction and control strategy. All costs incurred by the project are entered into WSP's ***Horizon*** platform. This platform allows us to track costs and produces a variety of reports that support management of the project. The correlation of costs, budgets, and schedule is achieved using the ***Microsoft Project scheduling tool.*** These systems allow us to track the budget, committed costs, and costs incurred to date so that all potential variances are identified early and can be addressed before they occur. ***Progress reports are published to clients monthly.*** WSP's cost reduction and control strategy involves pre-qualification of bidders, controlled bidding of key aspects of projects, direct negotiation of costs with sole-source vendors, control of change orders that could lead to variances from set budgets, and a defined system for field change requests.
- WSP's engineering and design efforts are focused on the production of plans that are cost efficient and constructable. Our engineering documents are based on the hands-on field experience of, among others, our chemical, civil, environmental, and geotechnical engineers. The designs will be prepared to provide the contractors with the guidance needed to construct the project requirements and the specifications needed to protect our clients from change orders. Equally important, our approaches successfully minimize our clients' immediate and long-term liabilities, resulting in additional cost savings.

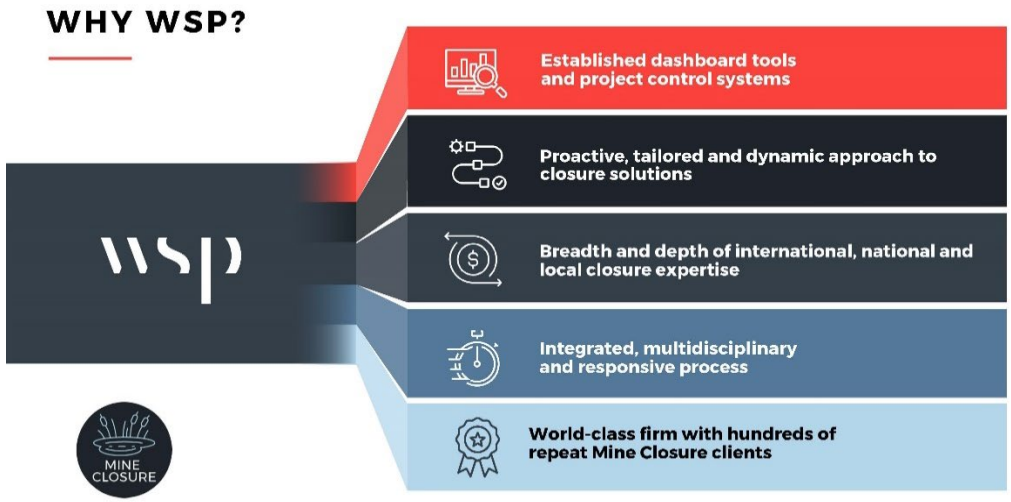
Resource/Schedule Control

WSP recognizes the need to assign the appropriate staff to the projects and to ensure that key personnel remain involved in the project through its completion. Keeping the project team together to maintain continuity benefits clients through more effective and efficient execution of the work and avoids the pitfalls associated with re-establishing a learning curve for the project staff.

- WSP conducts weekly schedule planning sessions that involve managers from our local/regional offices.
- Every WSP employee submits his or her projected three-week schedule to their respective manager, who then compiles the information, reviews it to assure that there are no conflicts, discusses staffing requirements with the project managers and identifies resource needs.
- Resource needs are then discussed at the weekly planning session, held via conference call between all of WSP's offices and attended by the WSP senior

management.

- This system has proven to be effective for staffing projects. In that way, WSP ensures that the most appropriate personnel are assigned to projects, and our hundreds of regional professional staff are used most efficiently.



Subcontractor Management

As the prime contractor, WSP will retain ultimate responsibility for the cost, schedule, safety, and quality of all work performed on the projects by our subcontractors. We take this responsibility very seriously and have established procedures for the selection and management of subcontractors that will be utilized. For services to be directly subcontracted by WSP, we will select subcontractors that provide the most value in terms of capabilities and cost. The Project Manager holds these subcontractors accountable for their safety performance, quality delivery, budgets, and schedules.

Communication

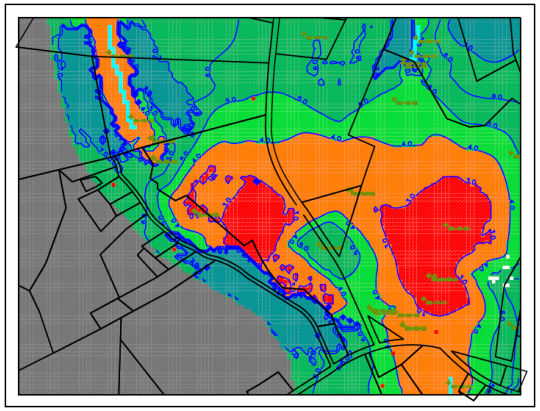
Effective communication is essential to ensure seamless coordination among all stakeholders and to maintain the momentum of each project phase. WSP employs a multifaceted communication approach, integrating traditional and digital tools to keep project managers, clients, and subcontractors informed and engaged. By fostering transparency and open dialogue, WSP ensures that issues are identified early and resolved collaboratively, preventing miscommunications that could impact cost or schedule. Our philosophy prioritizes proactive information sharing, enabling decision-makers to respond swiftly to project developments and maintain control over outcomes.

Project Management Plan

WSP's PM and Project Director (PD) will be responsible for delivering each Task Order to the AML Program. They will consult with the appropriate discipline leads, depending on the Task Order request, to develop an appropriate scope, cost and schedule.

The PM will present the proposed scope, cost, and baseline schedule to the AML Program for review and approval. Once the Task Order baseline is agreed upon and the purchase order is approved, WSP will begin work. The PM will work closely with each discipline to monitor and track project performance during the project execution phase. Our performance will be reported to the AML Program at a frequency that fits the Task Order and the needs of the AML Program project manager. Technical quality and work products will be maintained by the Senior Technical Reviewer. The PM will directly manage technical resources for each task activity and qualified resources will be lined up in a timely manner for assignments. The PM will also be responsible for contracting and managing any sub-consultants and subcontractors.

If awarded this contract, WSP would propose to include regularly scheduled meetings via conference call for any assigned Task Order to ensure timely discussions of project progress, potential deviations and changes, and overall project needs with the AML Program. WSP shall also provide the AML Program with regular written Task Order status reports with each request for payment, explaining project progress towards milestones, any



Reactive pH simulation by WSP for MNA with PHT3D, Henry Knob Mine, SC.

potential issues that may impact budget or schedule, and the work remaining.

WSP will work with the AML Program to establish reporting that meets the needs of each Task Order. WSP project reporting aims to meet the project needs in a clear and concise manner. Our project reports range from brief letter reports to large design reports for review by government regulators. We include all information supporting conclusions, recommendations and designs, such as digitized boring logs, testing data, site photos, field observations, and other metadata, including raw data files and geospatial datasets. We attempt to provide information in a usable manner with tables and figures and provide electronic copies of the report source files.

Quality is a cornerstone of our WSP brand. We have corporate programs for QA/ QC that ensure that our clients receive high quality work products. WSP uses an internal review process, including the Project Manager, Project Director, and senior technical reviewers to make sure that each project deliverable and recommendations meet the needs of the project. Reviewers also check all calculations prepared by WSP personnel for applicability, validity of assumptions, methodology, and arithmetic. This process ensures that all reports, calculations, designs, methodology, and recommendations are checked and agreed with prior to submittal. Moreover, as the lead consulting firm, we are responsible for the quality of work of our subcontractors.

Summary of Staff Resources and Availability

Our staff is immediately available. WSP has one of the largest engineering and technician staffs in the US. ***Our base team is presented in Section 13 of this EOI Pre-Qualification (see Organization Chart).*** Outside of this core team, we have more than 500 staff experienced with mine sites to support assessment, design, construction monitoring, and other AML project tasks. Additional resources can be assigned when specialty inspection and testing services are required.

Our staff are managed to be 68% - 72% utilized on client projects year after year, which maintains immediate availability for integration into new projects as they are assigned. All our key staff proposed for this contract are immediately available to support you. In addition, our statewide resource pool provides for redundancy of resources.

A core management philosophy of WSP is to dedicate staff to programs. This means the key and resource staff dedicated in this EOI response would be assigned to this AML contract for the long-term, providing relationships, efficiency, programmatic knowledge, and expertise over all of the projects assigned to WSP over this contract. Staffing changes would not be made without your knowledge.

21. The foregoing is a statement of facts.	
Signature:  Title: Principal Engineer / Project Manager Printed Name: Dennis Fela, PE, VP	Date: August 20, 2025

06

AML and Related Project Experience Matrix

AML and RELATED PROJECT EXPERIENCE MATRIX - Attachment "B"

PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS																PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional									
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/ Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation /Mitigation / Replacement	Construction Inspection / Management	Water Treatment	Active/Passive Water Treatment Systems	Equipment/ Structure Removal	Stream Restoration	Geotechnical/Stability	Dennis Fela, PE	Colby Caywood, PE	John Frantz, PE	Troy Biggs, PE, PH, D.WRE	Ted Covill, CP, PPS	Sonia Wu, PE, PMP	Erin Lynch, PG	Eric Blumenstein, PE	Kurtis Meissner, PE, CPM	Staphanie Eisenberg
WSP USA Inc.																												
West Virginia DEP – Kanawha Development	CP	13, 15	X			X					X		X			X	X	X		MP	P						MP	
Teck, Pend Oreille Mine, Closure Support Services, Washington	CP	13, 15		X	X	X					X	X	X	X	X			X		MP						P		
Confidential Mining Client, Various Projects, Central Pennsylvania	CP	12				X						X			X				MP		P							
Beatson Mine Remediation, Characterization and Remedial Planning, Alaska	CP	12, 13	X		X	X	X		X	X	X	X	X		X	X	X	X		MP								
Navajo Nation AML Water Investigation Phase 2	CP	12, 13										X													MP			
Henderson Mill HDS Water Treatment Plant	CP	13									X	X	X	X	X											M	MP	
Climax Mine Water Treatment Plant Expansion	CP	13									X	X	X	X	X											MP	MP	
Pipeline Re-route/Coal Mine Fire Response, Mingo County, West Virginia	CP	12, 13			X			X	X	X	X		X					X	MP									
Goff Compressor Station AML Development, Harrison County West Virgina	CP	13							X		X		X					X	MP									
Stream Restoration Designs in Support of the West Virginia NRCS	CP	13				X					X	X	X				X					MP						
Iron King Mine – Closure, Water Management	CP	13								X	X	X	X	X	X											MP		
Quinsam Coal Mine – Closure Water Management	CP	12, 13									X	X	X	X	X											MP		
CDPHE North Clear Creek Water Treatment Plant	CP	13									X	X	X	X	X											P		
Blackbird Mine Remediation Engineering and Support	CP	12, 13	X	X	X	X			X		X	X	X	X	X		X	X		P						P		

*** List whether project experience is corporate or personnel based or both.**

**** Use this area to provide specific sections or pages if needed for reference.**

***** List Primary Design personnel and their functional capacity for the projects listed.**

07

Abandoned Mine Lands Contractor Information Form

OMB # 1029-0119
Expiration Date:
01/31/2028

ABANDONED MINE LANDS (AML) CONTRACTOR INFORMATION FORM

You must complete this form for your AML contracting officer to request an eligibility evaluation from the Office of Surface Mining Reclamation and Enforcement (OSMRE) to determine if you are eligible to receive an AML contract. This requirement can be found under OSMRE's regulations at 30 CFR 874.16. **NOTE:** This form must be signed and **dated within 30 days** of submission to be considered for a current bid.

Part A: General Information

Business Name:	WSP USA Inc.
Tax ID #:	FEIN = 11-1531569
Address:	11 Stanwix St, Suite 950
City, State, & Zip:	Pittsburgh, PA 15222
Phone Number:	1 724-814-0394
Email Address:	Dennis.Fela@wsp.com

Part B: Obtain an Organizational Family Tree (OFT) from the Applicant Violator System (AVS)

If you plan to certify the existing AVS information or submit updates under Part C, you must include an OFT. Instructions for downloading an OFT from the AVS can be found at: https://www.osmre.gov/sites/default/files/2022-02/OMB%201029-0119%20instructions.pdf. If you require assistance you may contact the AVS Office by phone at: 800-643-9748, or by email at: avshelp@osmre.gov.

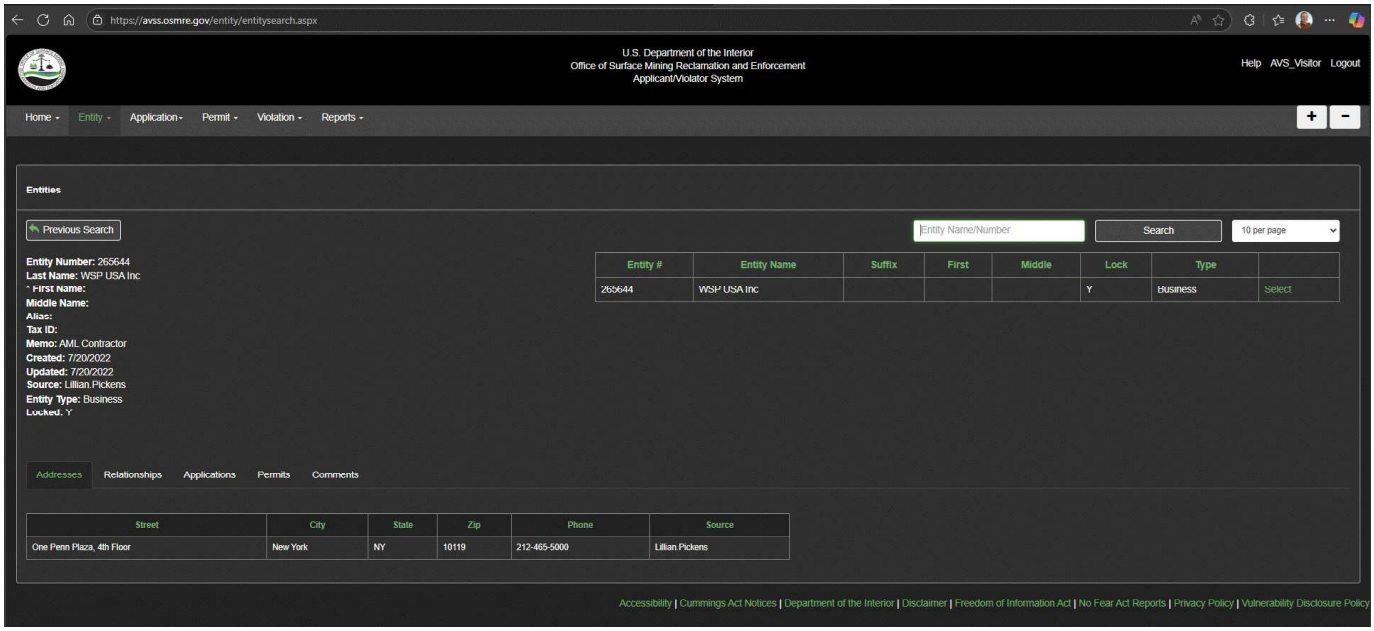
Part C: Certifying and updating information in the AVS

Select one of the options, follow the instructions for the selected option, sign, and date below.

I, Dennis Fela , have express authority to certify that:
(Print Name)

- [x] 1. Our business is listed in the AVS. The information is accurate, complete, and up to date. (If you select this option, you must attach an Entity OFT from the AVS to this form). Do not complete Part D.
- [ ] 2. Our business is in the AVS. The information needs to be updated. (If you select this option, you must attach an Entity OFT from the AVS to this form). Complete Part D to provide the missing or corrected information.
- [ ] 3. Our business is not listed in the AVS. The information needs to be added. Complete Part D to provide the information.

8/20/25		Vice President
Date	Signature	Title


https://avss.osmre.gov/entity/entitysearch.aspx
U.S. Department of the Interior
Office of Surface Mining Reclamation and Enforcement
Applicant/Violator System
Help AVS_Visitor Logout
Home Entity Application Permit Violation Reports
Entities
Previous Search
Entity Name/Number
Search
10 per page
Entity Number: 265644
Last Name: WSP USA Inc
First Name:
Middle Name:
Alias:
Tax ID:
Memo: AML Contractor
Created: 7/20/2022
Updated: 7/20/2022
Source: Lillian.Pickens
Entity Type: Business
Locked: Y
Entity # Entity Name Suffix First Middle Lock Type
265644 WSP USA Inc Y Business Select
Addresses Relationships Applications Permits Comments
Street City State Zip Phone Source
One Penn Plaza, 4th Floor New York NY 10119 212-465-5000 Lillian.Pickens
Accessibility | Cummings Act Notices | Department of the Interior | Disclaimer | Freedom of Information Act | No Fear Act Reports | Privacy Policy | Vulnerability Disclosure Policy

08

Copy of Certificate of Authorization (COA)

CERTIFICATE OF Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby certifies

WSP USA INC.
C00665-00

Engineer in Responsible Charge: JIMMY DERRELL HOLLAND, JR - WV PE 023565

has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certification of Authorization for the period of:

January 1, 2024 - December 31, 2025

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE, PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

Scott E. Thomas Jr.

BOARD PRESIDENT

WSP's specialized teams of mine infrastructure experts have been serving the mining industry for over 60 years, completing hundreds of mining infrastructure projects, including closure and reclamation of some of the largest, most historic mines in the world.