STATEMENT OF WORK

I. INTRODUCTION

- The Statement of Work (SOW) is for the completion of Site Inspections (SI) for projects listed in Appendix A.

- The Contractor shall comply with the requirements of the Regional Contract. Items not covered in the Regional Contract will be addressed in this SOW.

- The purpose of an SI is to collect information in order to make a determination as to whether or not a release has occurred and to collect sufficient data to quantify the volume of a potential release or threat of a release.

- The sampling program is to be sufficient so as to cover ALL of the various State and Federal regulations/requirements to be able to quantify a release or threat of a release to the environment and impacts on human health.

- The majority of these sites have a potential impact on both the terrestrial and aquatic habitat and as such, emphases in the sampling program should be directed to collecting appropriate data in order for risk assessors to make a final determination as to any impacts and to be able to calculate a site specific cleanup level.

II. SITE INSPECTIONS

- The Contractor shall perform all work required for the completion of an SI in accordance with all State and Federal Regulations and guidelines and the following:
    - EPA "Guidance for Performing Site Inspections Under CERCLA".
    - EPA "Sampling QA/QC Plan and Data Validation Procedures".
    - Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
    - Superfund Amendments and Reauthorization Act (SARA).
    - National Contingency Plan (NCP) as outlined in 40CFR Parts 300.410 Removal Site Evaluation, (c)(i-iv) and 300.415 Removal Action, (2)(I-viii).
    - Other Guidelines, such as NOAA, Oak Ridge National Laboratories (ORNL), EPA, etc., as appropriate.
    - The more stringent regulations will be used per EO 12580.

- Some of the projects listed to have SIs completed will require EE/CAs and possibly some of these will require removal actions in the future. Therefore, the Contractor(s) selected to perform the SIs will have an opportunity to enter into negotiations for the next phases without needing to respond to any further solicitations. In the event that the Forest Service and the Contractor(s) are unable to come to terms, the next phase will be sent out for solicitation of bids from the Contractor pool.

- The report shall conform to the outline shown in Appendix B in all aspects, without exception. The report is not to be modified in any form from this

example without the written consent of the Forest Service. Font type shall be New Times Roman, pitch 11 for the body of the report. All reports will be submitted electronically and steps will be taken to minimize file sizes of photos, ACAD drawings, etc. The electronic versions will be presented in both pdf and MS Word format.

- All SI documents shall be a maximum of 25 pages or less. If a document appears it will require more pages, the Contractor shall contact the Contracting Officer immediately to discuss and may be required to submit the draft document for evaluation.

- All projects shall have separate reports except for those already identified in Appendix A as being combined.

- The proposal is to be detailed so that it is clear as to the work that will be performed. This may include describing the types and quantities of samples to be collected, how these samples will be collected, clear understanding of the number of samples to be collected, how sampling stations will be established, significance in sample medium, how the sampling event will comply with the various State and Federal regulations and guidelines, etc. **A generic overall approach just giving generalities without a clear understanding as to what will be accomplished is not acceptable.**

- The proposal should be clearly written, concise, and the format easy to follow giving rationale as to what will be accomplished in the field and present a clear understanding of the result to be achieved with the sampling. **The maximum number of pages is set at 45 for 4 projects. If more or less then 4 projects, add or delete 5 pages per project.**

- No two mines will necessarily be the same, therefore, the Contractor should clearly address these differences so that it is understood what sampling will occur at each mine. The proposal(s) that can demonstrate this effectively and concisely will be given more weight in the evaluation process.

III. TECHNICAL PROPOSAL INSTRUCTIONS AND EVALUATION CRITERIA

- PROPOSALS
    - SIs
        - The SI should accomplish two things: 1) The results from the sampling should be able to show if a release has occurred, and if so, the extent and volume; 2) Should collect all necessary data so that in the event an EE/CA is required, risk calculations can be performed without data gaps being discovered.
        - Based on the above, the evaluation of the proposal will be based on the thoroughness of the sampling for the various medium, quantities of samples collected, equipment used, level of effort, etc. Care should be exercised so as not to “overkill” or collect insufficient volumes to properly characterize a site.
        - Proposals will also be evaluated against the various State and Federal regulations as to soil, water, ecological receptors, etc., and associated guidelines as mentioned under Section II for the various constituents.

Failure to address these regulations and guidelines and/or omissions will result in rejection of the proposal.

- Schedules will be evaluated as part of the proposal. Data is required to be input into GENSS the first part of September. Therefore, schedules will be based on this need for data and end results.
- Performance evaluations for the work done for SIs will be completed upon the completion of the EE/CA.
- Past performance with similar type of projects will be used for the evaluation process. Therefore, the Contractor shall submit a maximum of five projects and contact information for each project.

- RESUMES
  - Only resumes relevant to the type of project presented in the SOW will be considered.
  - A resume for all major disciplines and field going personnel is required.
  - Only the first page of a resume exceeding a single page will be reviewed by the Government. If a Contractor submits resumes exceeding a single page, the Government shall not evaluate nor be obligated to do so.
  - Resumes for Subcontractors are required.
  - Disciplines where States have requirements for licensing shall be licensed for these projects.
  - It is imperative that personnel assigned to the field be highly trained and posses experience in mining or mine related projects. In the evaluation of the resumes for ALL personnel, the FS will be looking for:
    - Abilities to perform problem solving, with examples.
    - Conflict resolution and what was resolved and how.
    - Decision making and what types of decisions had to be made and why.
    - Fiscal management, as well as schedule management, and what were the results on various projects.
    - Ability to communicate effectively both orally and in written documents.
    - Resumes for managers need to show what was accomplished as a manager. What benefits or value was brought to a project?
    - If a QA/QC person is shown, demonstrate what value will be given to these projects by having this discipline. What exactly will this discipline provide and what benefit have they provided on other mine related projects? Were there cost savings by providing this discipline? A superior product and how was that achieved, etc?
    - Educational background necessary to perform the required task. It has been the experience of the FS that personnel without formal education and/or a thorough knowledge of both past and present mining practices have not performed satisfactorily. Therefore, resumes will be evaluated with the express purpose of determining personnel qualifications to address these sites.
    - Can the field team leader make sound decisions in the field as to sample locations, be able to identify items not necessarily noted

in any previous documents and make a decision in the field as to whether a sample needs to be gathered? Can the team leader recognize the difference between a waste pile and a tailings pile? This also applies to the support team in the field. Explain.

- Failure to address some of the items mentioned here may result in rejection of the individual and result in lower scoring and possibly, rejection of the proposal.

- PRICING
  - Pricing shall be itemized in a logical sequence that is easy to follow and understand for each project.
  - Pricing shall be broken out between the various projects, with separate costs and totals clearly shown for each project. A summation of the total for all projects will be provided.
  - Pricing shall be shown for all disciplines assigned to the project.

- EVALUATION
  - Factors that will be used in evaluating proposals for this solicitation are:
    - **Past Performance**
      - Quality of Services: Demonstrated ability to perform services in accordance with the requirements of the project.
      - Customer Satisfaction: Satisfaction of end users with Contractor's completed services.
      - Timeliness of Performance: Compliance with delivery schedules; reliability; and responsiveness to technical direction.
      - Cost Control: Ability to complete contracts within budget; reasonableness of price change proposals submitted; providing cost savings; providing current, accurate, and complete billings.
      - Business Relations: Effective management, ability to manage project(s) involving subcontractors; working relationship with the Contracting Officer and technical representatives, reasonable and cooperative behavior, flexibility, effective Contractor recommended solutions, and businesslike concern for Government interests.

    - **Technical Approach and Organization Structure**
      - As discussed in previous sections for proposals and resumes.

    - **Price**
      - The Government will also evaluate the price proposal to determine reasonableness and the Contractor's understanding of the work and ability to perform the contract.

IV. BASIS OF AWARD

- The Government will issue a task order as a result of this Solicitation for Offers to the winning Contractor, whose offer is determined to be the best value to the Government, considering price and evaluation factors listed above.

- The award will be based on (1) whose proposal is technically acceptable and (2) whose technical/cost relationship represents the best value and is the most advantageous to the Government. The critical factor in making any cost/technical trade-offs is not the spread between the technical ratings, but rather the significance of that difference.

- Cost/price is less important than technical evaluation criteria; however, the importance of cost/price may become greater as the difference between technical proposals decrease. Where technical proposals are determined to be substantially equal, cost may control award.

- The significance of the difference in ratings will be determined on the basis of what the difference means in terms of performance and what it would cost the Government to take advantage of it. Award may not necessarily be made to the offeror submitting the lowest quote. Also, award may not necessarily be made for technical capabilities that would appear excessive to the needs for the successful performance of the work. The Government reserves the right to make cost/technical trade-offs that are in the best interest and most advantageous to the Government.

- The Government may reject any or all offers, issue orders to other than lowest priced quote, and waive minor informalities or irregularities in offers received, or elect not to award at all. If necessary, the Government may elect to conduct discussions with any or all offerors.

- The Government may issue an order on the basis of offers as received, without entering into discussions. Therefore, each initial offer should contain the offeror's best terms and must speak directly to the evaluation factors listed.
- This is a Solicitation for Offers only. Any work resulting from this shall be covered by a task order.

- The Government contemplates making award of all projects contained in this solicitation at the same time. Offeror's proposals will be evaluated and ranked from one through three. The first ranked offeror will be afforded the opportunity to take all the projects. If the first offeror selects all but three projects, the remaining projects will be offered to the second ranked offeror. Any remaining projects after that offer will be offered to the third ranked offeror.

- It should be noted that one Contractor might not necessarily be awarded all of the projects. Best value to the Government for each project will be heavily weighed and as part of that, pricing will be considered.

V. APPLICABLE FARs CLAUSES AND OTHER CONSIDERATIONS

- The Contractor selected for a project that may require subsequent tasks under the CERCLA process will be given preferential treatment. For instance, a Contractor

selected for an SI will be given first opportunity to enter into negotiations with the Forest Service for performing an EE/CA. Likewise, a Contractor that is selected to perform an EE/CA will be given first opportunity to enter into negotiations with the Forest Service to prepare and perform a Removal Design/Removal Action (RD/RA).

- The following FARs clauses will be applicable to all portions of the work required, both for projects to be completed this year as well as for projects to be completed in subsequent years.
    - 52.217-7 Option for Increase Quantity – Separately Priced Line Item
    - 52.232-19 Availability of Funds

APPENDIX A

Projects

Project Name	**Lat/Long (D.M.S)**
Washington	
Azurite Mine and Millsite	48.40.57N/120.46.57W

The Site is in Whatcom County, WA, approximately 44 miles northwest of Winthrop. The site can be accessed to Harts Pass by FS Road 5400. From there, take FS Road 700. It is suggested that either quads or dirt bikes be utilized from Harts Pass. There is a large flat area approximately a half mile prior to Slate Creek bridge that is wide enough to load and unload several vehicles with trailers carrying quads and/or dirt bikes. From FS Road 700, take FS Road 754, then FS Road 755, then FS Road 475 to the mine site. Total distance from Harts Pass to the mine is approximately 15 miles.

An APA does not exist for this project.

APPENDIX B

Outline for SI

EXECUTIVE SUMMARY

This should be no more than one page in length. It should be written with the idea of a busy Executive reading it with limited knowledge of the details involved. The Executive should have a grasp of what took place, the problem, the result, and recommendation for further action and why.

DATA SHEET SUMMARY

1.0 INTRODUCTION

- State that a SI was performed, name the agency or organization performing it, and state the authority under which it was conducted (ie., CERCLA as amended by SARA, and Forest Service Contract No. XXXXX). Include the site name and location.

- Breifly state the purpose of the SI (ie., to assess the immediate or potential threat wastes at the site pose to human health and the environment and to collect information to support a decision regarding the need for further action under CERCLA/SARA) and the scope of the investigation (ie., research and review file information and an offsite and onsite reconnaissance.)

2.0 SITE DESCRIPTION, OPERATIONAL HISTORY, AND WASTE-CHARACTERISTICS

- State brief directions to the site and provide a drafted site sketch showing features on and around the site. Supply a USGS 7.5 minute Quad Map showing the location of the site with a 1-mile and 4-mile radius drawn on the map. On the map, identify the surface water drainage route; nearest wells, intakes, and residences; wetlands and other sensitive environments. Provide latitude/longitude coordinates. Identify type of site, whether it is active or inactive, and years of operation. Describe its physical characteristics (type of mine, whether the entrance is accessible or plugged, drainage patterns, volume of Acid Mine Drainage {AMD}, pH, etc.) and setting (ie., topography, local land use). Provide mine maps such as room and pillar, etc. If the mine opening is not plugged, note the presence of any bats in the area and/or hibernaculums.

- Digital photos of the site shall be taken showing all significant features of the site, including environmental damage as well as any T&E and S&M species of plants and/or wildlife.

- Provide a brief operational history for each site. Identify who operated, what was done, equipment, etc. These are best displayed as bullet statements in chronolgical order. Identify and describe wastes generated , quantities, disposal practices, and source areas (location of AMD generation). Indicate source areas on the sketch. Describe any removals, whether conducted by facility operators or regulatory authorities.

- Describe past regulatory activities including permits, violations, and inspections by local, state, or Federal Authorities. Present available analytical data in a table and discuss significance.

3.0 PATHWAY AND ENVIRONMENTAL HAZARD ASSESSMENT

A. Groundwater

- Describe the local geologic and hydrogeologic setting (ie., stratigraphy, formations, aquifers, karst features, depth and permeability to the shallowest aquifer.)

- On the basis of the site description, operational history, local geology and hydrogeology, and any available analytical data, state whether release of a hazardous substance from the site to groundwater is suspected. If analytical data are available, summarize them in a table.

- Discuss groundwater use within a 4-mile radius. Identify the nearest drinking water well and state the distance to it and whether up- or down-gradient from the site. Quantify drinking water populations served by wells within 4 miles. Differentiate between populations served by private wells and those served by municipal wells; identify blended systems. Identify drinking water wells suspected to be primary targets and quantify the populations associated with each.

- Identified designated wellhead protection areas and specify locations.

- List in a table each well or spring sampled (if directed by the Forest Service to perform this sampling), provide the depth from which it draws drinking water and the screened interval. Quantify the population associated with the well or spring, and identify its distance from the sources. Discuss groundwater results. List in a table each sample and summarize analytical results. Include a site map of sample locations. Identify drinking water wells exposed to hazardous substances and quantif the drinking water populations served by each.

B. Surface Water

- Describe the local hydrologic setting, including site location with respect to flloodplains, size of the watershed, and the overland and downstream portions of the surface water migration path. State the distance from the site to the probable point of entry (PPE) to surface water. Identify the water bodies within a 15-mile downstream distance, and state the length of reach and flow characteristics of each. Include a drafted sketch of the surface water migration path. This can be accomplished on USGS 7.5 muinute Quad Maps. Describe upgradient drainage areas, onsite drainage (including any ditches, culverts, etc.), facility discharges into surface water, permits, and historical information, including floods, fish kills, fishery closures, and other events.

- On the basis of the site description and operational history, local hydrology, and any available analytical data, state whether release of a hazardous substance from the site to surface water is suspected. If analytical data are available, summarize them in a table. Show all field parameters in table format.

- Indicate whether surface water within a 15-mile downstream distance supplies drinking water. Identify each drinking water intake and state the distance from the PPE to the nearest intake. Quantify the drinking water population served by surface

water and identify blended systems. Identify surface water intakes suspected to be primary targets and quantify the populations served by each.

- Indicate whether surface water along a 15-mile downstream distance supports fisheries. Identify each fishery and state the distance from the PPE to the nearest fishery; indentify the fishery with the lowest flow characteristics. Identify fisheries suspected to be primary targets. Identify any aquatic T&E and S&M species impacted within this reach as well.

- Indicate whether sensitive environments are present in or adjacent to the surface water migration path (overland and along a 15-mile downstream distance). Identify each sensitive environment and T&E and S&M species and state the distance from the PPE to the nearest environment; identify the sensitive environment with the lowest characteristics. Identify sensitive environments and T&E and S&M species suspected to be primary targets.

- Discuss any previous surface water sampling results, dates, locations, types of samples, and who sampled.

- Discuss surface water sampling results. List in a table each sample and summarize analytical results. Identify surface water intakes exposed to hazardous substances and quantify the drinking water populations served by each. Identify fisheries and any T&E and S&M species exposed to hazardous substances and quantify the food chain population associated with each. Identify sensitive environments and wetlands exposed to hazardous substances; quantify the frontage of exposed wetlands.

- Discuss sediment and water from pore space results within this section.

C. Soil Exposure

- Indicate the number of onsite workers and the number of people who live onsite or within 200 feet of areas of known or suspected contamination. Identify schools and day care facilities onsite or within 200 feet of areas of known or suspected contamination, and state the number of attendees (this also includes streams passing through communities that have been heavily impacted from AMD). Quantify the populations (residents, students, and workers) within 4 miles of the site; state the distance to the nearest regularly occupied onsite or offsite building. Identify sensitive environments onsite and within 4 miles of the site. Discuss the likelihood of a hazardous substance being released to the air. If analytical data are available, summarize them in a table.

- Identify terrestrial sensitive environments and resources in an area of observed contamination.

- Discuss any previous sampling results of sources of surficial materials, including dates and locations.

- Discuss surficial source samples. List each sample in a table and summarize analytical results.

- Determine and show any plumes of migration of contaminanted material from the site, quatity of material affected, direction of movement, both lateral and vertically, etc. Quantif all contaminated waste or ore piles on the site.

- Discuss and impacts on any sensitive environments and T&E and S&M species within the contaminated area.

D. Air Exposure
   - Identify the location of, and state the distance to, the nearest individual. State the population within 4 miles of the site, including students and workers. Identify sensitive environments and T&E and S&M species, which may be impacted within 4 miles of the source, if applicable.

   - Discuss any previous air sampling results, including dates, locations, sampling procedures, and meteorological conditions.

   - Discuss air sampling procedures and results. Identify sample locations on a map. List in a table each sample and summarize analytical results. Discuss any imapcts on any sensitive environments and T&E and S&M species within the impacted area. Discuss the air quality of each portal, if accessible.

4.0 SUMMARY AND CONCLUSION

- Breifly summarize the major aspects of the site and its history that relate to the potential for releases of hazardous substances and the exposure of targets. Identify principal pathways and targets of concern. Discuss additional qualitative considerations or unusual circumstances that should be brought to the attention of the Forest Service.

5.0 PHOTO DOCUMENTATION

- As an attachment, provide original photographs of the site and pertinent site features (ie., waste source areas, stained soil, stressed vegetation, drainage paths, sensitive species of plants and wildlife, etc.) taken during the site reconnaissance. Provide written descriptions on the back of each photo, in captions, or in an accompanying text. Key each photo to its location on the site sketch.

APPENDICES

Note: Appendices are not to be developed as stand alone documents!

- Analytical Results
  - Tables will be prepared with contaminants listed across the top of each column with sample locations shown in the left hand side of the table – one (1) row per sample collected. All EPA R-9 PRGs, State Requirements, and Oak Ridge National Laboratory (ORNL) "Preliminary Remediation Goals for Ecological Endpoints" will be shown at the bottom for each contaminant

listed in the table and in the appropriate column. Contaminants exceeding State Regulations, EPA or ORNL PRGs will be in bold print. Any contaminants exceeding background levels will NOT be shown in bold print. Sample date will be shown as well as the depth of the sample in the Table.

- QA/QC Report
- Deviations from Project Plans
- Site Photographs
- Soil Sampling and Boring Logs
- Other Attachments

LIST OF FIGURES

LIST OF TABLES

LIST OF PLATES

LIST OF ACRONYMS

REFERENCES