ALBANY GROUNDWATER PROGRAM SUPPORT SERVICES

CLIN 3 ACTIVITY 5

PERFORMANCE WORK STATEMENT

1.0 REQUEST INFORMATION

1.1 Type of Activity: The Albany Groundwater Program Support Services Activity is a firm fixed-price Activity.

1.2 Description: Albany Groundwater Program Support Services

1.3 Location: Albany, OR (ALB), U.S. Department of Energy (DOE), National Energy Technology Laboratory (NETL) site.

1.4 Travel: Travel is anticipated for periodic groundwater monitoring twice per year (at a minimum). Travel to/from the ALB site for this Activity and associated administrative oversight will be coordinated with other Activities to minimize overall travel costs.

1.5 Training: Employees working with hazardous substances shall have appropriate HAZWOPER and other training as prescribed by regulations. Other training is anticipated related to maintaining certifications required to perform PWS requirements based on specific needs or certifications, as approved in advance by the Activity Contracting Officer's Representative (ACOR) and will be provided by NETL at minimal levels to support requirements. Normal operations should use on-line training resources to minimize cost of training and any associated travel.

2.0 GENERAL REQUIREMENTS

2.1 This Activity involves environmental tasks to support the characterization and/or remediation of groundwater at the ALB site.

2.2 This Activity is covered by the Service Contract Act.

3.0 SCOPE

The Contractor shall provide groundwater characterization and remediation support activities including, but not limited to:

3.1 Groundwater Monitoring

3.1.1 The contractor will submit a Sampling Event Work Plan at least 30 days in advance of each sampling event. The work plan will include the scope of the sampling event, the staff involved, the schedule, health and safety plan, monitoring well locations, well survey data, well construction diagrams, the sampling and analytical procedures to be used at each well, and the groundwater sampling field forms.

3.1.2 The contractor will sample and analyze groundwater from 31 wells located on the ALB property and Liberty Elementary School property twice per year, once in the wet season (October-April, optimally March-April) and once in the dry season (May-September, optimally August-September). The contractor will schedule the sampling events to

minimize the impact on the Greater Albany Public School system as described in the Greater Albany Public School (GAPS)-NETL agreement.

3.1.3 The contractor will perform the sampling according to the ALB Groundwater monitoring plan, Oregon regulations, and NETL procedures/manuals. It may be necessary to purge for longer periods of time than usual in several wells due to high turbidity.

3.1.4 The contractor will use appropriate sampling and analysis methods to ensure that the data generated will be comparable to previous monitoring data. The contractor will submit a daily sampling report at the end of each day of sampling. The daily sampling report will include site conditions, personnel present, work done, complications, and the plan for the next day.

3.1.5 The contractor will submit updated groundwater contaminant trending maps after each monitoring event. These maps will geographically display the historical detected levels of the contaminants of potential concern, including:

3.1.5.1 Chloroform
3.1.5.2 Carbon tetrachloride
3.1.5.3 Trichloroethene
3.1.5.4 Tetrachloroethene.

3.1.6 After each monitoring event, the contractor will submit an Excel spreadsheet that includes all known historical groundwater monitoring results including this monitoring event. The contractor will keep all analytical data and data validation files in electronic format on the NETL common Drive. The contractor shall download data into a Geographical Information System (GIS) to represent the geology and groundwater quality variations.

3.1.7 The contractor will submit a Groundwater Monitoring Report for each monitoring event. The report will be free of typographical and other errors. Each report will include current:

3.1.7.1 Project Scope and Objectives
3.1.7.2 Field and Analytical Procedures
3.1.7.3 Hydrogeological Assessment
3.1.7.4 Groundwater Quality Assessment of volatile organic carbons, metals, water quality parameters, and contaminant trends
3.1.7.5 Summary of data validation
3.1.7.6 Summary of groundwater flow, quality, and trends
3.1.7.7 Figures depicting the site location, monitoring well locations, groundwater elevation contours in the perched and gravel aquifer
3.1.7.8 Concentration of carbon tetrachloride in both aquifers
3.1.7.9 Concentration of chloroform in both aquifers
3.1.7.10 Concentration of trichloroethene in both aquifers
3.1.7.11 Concentration of tetrachloroethene in both aquifers
3.1.7.12 Concentration of any other parameters detected at levels of concern
3.1.7.13 Graph for each well depicting the volatile organic concentrations over time
3.1.7.14 Tables summarizing:

- monitoring well construction details
- groundwater depth, elevation, and water quality measurements
- current and historical groundwater elevations
- hydraulic gradient calculations
- contaminant detection summary
- analytical results for detected volatile organics and metals
- applicable screening criteria for analytes

3.1.8 Updated status of on-going efforts will be provided via monthly status meetings with appropriate meeting minutes in a format approved by the ACOR.

3.2 Plan Updates/Reporting

3.2.1 NETL maintains a groundwater monitoring plan, conceptual site model (CSM – including relevant historical information associated with Oregon Administrative Rule Division 122, Hazardous Substance Remedial Action Rules and all relevant guidance provided by Oregon Department of Environmental Quality), and remedial investigation/feasibility study (RI/FS) scoping document for the NETL-Albany groundwater program. These documents will be used for guidance associated with regular groundwater monitoring activities at the Albany site. Update to any of these documents will be provided via modification to the task or via separate IDIQ tasking, as coordinated with the ACOR. Additional groundwater characterization in support of Construction and Renovation Projects managed by NETL LOC Facilities will be provided via separate IDIQ tasking, as coordinated with the ACOR.

3.2.2 Annual Site Environmental Report (ASER)

3.2.2.1 The contractor will update the appropriate sections of the Annual Site Environmental Report, including figures and tables. The update will be provided to the ACOR annually upon request. (See Section 5.0 Deliverables for format and content).

3.3 Electronic Storage

3.3.1 All reports, analytical data, quality assurance, quality control reports, and other deliverables will be stored on the NETL common drive.

3.4 Safety and Health

3.4.1 The contractor shall implement their integrated safety management (ISM) plan as related to the services performed under this Activity and in accordance with DOE P 450.4, Safety Management Policy and Integrated Safety Management System Guide, DOE G 450.4-1, Volumes 1 and 2.

3.4.2 Training: Employees working with hazardous substances shall have appropriate HAZWOPER and other training as prescribed by regulations and a contractor-developed health and safety plan for sampling events. Other training is anticipated related to maintaining certifications required to perform scope of work requirements (based on specific needs or certifications, as approved in advance by the ACOR) and will be provided by NETL at minimal levels to support requirements.

4.0 SUPPORTING FUNCTIONS

4.1 Directives Support

4.1.1 The Contractor shall assist with reviewing and revising NETL directives to ensure that they reflect the current site practices, new or changed responsibilities of individuals, DOE orders and regulatory requirements, and quality assurance measures as related to the Albany Groundwater Program.

4.2 Corrective Actions

4.2.1 The Contractor shall implement on-site corrective/preventive actions associated with action plans previously developed, self-assessments, and other types of internal and external reviews as they relate to the Albany Groundwater Program.

4.3 International Organization for Standardization (ISO) 14001/OHSAS 18001/ISO 45001 Certification Initiatives and Internal Audits

4.3.1 The Contractor shall support NETL's efforts to maintain ISO 14001 and OHSAS 18001/ISO 45001 certifications as part of the ES&H Management System and shall participate in NETL's internal audits and assessments. Support activities include:

4.3.1.1 Participating in planning and closeout meetings of internal audits; and

4.3.1.2 Assisting in identifying and implementing aspects, targets, objectives, and ES&H Management Plans.

4.4 Consulting Support

4.4.1 For the Activity period of performance, the contractor will provide consulting services related to the products delivered or to be delivered under this Activity. Consulting will be provided by telephone, teleconference, e- mail, or in face-to-face meetings if there are incidental or no travel costs involved.

5.0 DELIVERABLES

The following table contains the deliverables associated with this Activity. The list is not all inclusive and additional deliverables may be necessary as requirements change. A copy of each deliverable shall be provided to the ACOR.

DELIVERABLE	FORMAT	FREQUENCY
Groundwater Monitoring	According to Groundwater Monitoring Plan	Twice per year
Groundwater Sampling Event Work Plan	Format to be approved by the ACOR	At least 30 days in advance of each sampling event
Daily Sampling Report	Email to the ACOR	Daily during the two sampling events (per year)
Groundwater Contaminant Trending Maps	Format to be approved by the ACOR	Within nine (9) weeks after each sampling event.
Update analytical data file	Excel spreadsheet file	Within seven (7) weeks after each sampling event.
QA/QC reports	PDF file	Within eight (8) weeks of sampling event