YUKON FLATS NATIONAL WILDLIFE REFUGE (NWR)
BEAVER ALASKA
BIA SCHOOL UNDERGROUND TANK AND DRO EVALUATION

PERFORMANCE WORK STATEMENT

U.S. FISH AND WILDLIFE SERVICE
LEGACY REGION 7 ALASKA

GENERAL

BACKGROUND:

Beaver, Alaska BIA School is located in Beaver, Alaska and the land was transferred to U.S. Fish and Wildlife and is now part of the Yukon Flats National Wildlife Refuge. Beaver, Alaska is not on the road system and can only be accessed by plane or boat. Beaver, AK is located approximately 110 miles north-northeast of Fairbanks, Alaska. The other way of reaching Beaver, Alaska, is by the Yukon River, and it is serviced by barges that bring supplies to the community.

In the fall of 2025, the BIA School Buildings were removed from the site. During this removal of the buildings a potential underground storage tank was identified. A pipe sticking out of the ground and is believed to be a fill pipe was found. The Beaver Village Council was asked if they were aware of an underground tank existing at this site. They were not aware of an underground storage tank being installed at this location.

SPECIAL CONDITIONS:

Beaver, Alaska is a remote location with limited facilities. There is no hotel or food service. Contractors have stayed in the school for a fee during the summer. All supplies and equipment necessary to perform this site survey/sampling must be transported to the site. The transportation plan to get to the remote location shall be coordinated through the Contracting Officer. The Contractor is responsible for all permits, Alaska Department of Environmental Conservation (ADEC) coordination, work plans, coordination with the Refuge, and contingencies.

Interviews with government officials shall be conducted in person, by telephone, or in writing. The contractor shall identify the key site manager who has a good knowledge of the uses and physical characteristics of the property. These interviews shall be conducted during the site visit. Appropriate local government officials may also be interviewed to obtain the necessary information. The contractor shall keep detailed notes of all interviews. These notes shall become the sole property of the USFWS. No one shall receive copies of notes, documentations, and reports without the permission of the government.

CONTRACTOR QUALIFICATIONS: Contractor experience must be approved by the Contracting Officer and will be based upon submission of the following information by the Contractor:

1. Person(s) conducting ground penetrating surveys shall have experience conducting this type of survey.
2. DRO evaluation shall be conducted by a “qualified environmental professional who meets the regulatory requirements described in 18 AAC 75.33.
3. Name of laboratory conducting DRO components is certified by the State of Alaska for each required EPA Method.
4. Any other information which will demonstrate abilities to perform there required services should also be included.

Experience: Name and location of a similar project completed by the Contractor, including the name and telephone number of the purchaser of the services. Comply with ADEC regulations and applicable requirements of USEPA, IEPA, OSFM, and OSHA regulation. Contractor shall have project experience with work of this nature and his work crew shall have all necessary training and certifications.

CONFIDENTIALITY STATEMENT: Contractor shall protect the confidentiality of all work accomplished under this scope of work. Quantity surveys and cost estimates shall remain the sole property of the USFWS and shall not be made available to others for any purpose. Do not publicly disclose any data generated for review under this contract. Attachments provided are sole property of the USFWS. Submittals and data generated under this contract shall become the property of the USFWS and distribution to any other source, unless authorized by the USFWS, is prohibited. Direct any public inquiries to the Contracting Officer (CO), Contracting Officer Technical Representative (COTR) or the Refuge Representative. Do not divulge, explain, or share project information with anyone other than the government representatives above unless it is necessary to obtain permits, or clearances, etc. Any information that could have potential impact on the government shall be directed to the CO or COTR. Do not divulge, explain, or share project information with anyone other than the government representatives above unless it is necessary to obtain permits, or clearances, etc.

PROPOSAL:
Review this scope of work and the attached documents. Prepare a detailed proposal to complete the project in accordance with ADEC CSP Site Characterization Work Plan and Reporting Guidance and Reporting Guidance for Investigation of Contaminated Sites and workplan. Categorize the proposal by task and subtask such as:

1. Pre-work meeting,
2. Development of workplan
3. mobilization,
4. demobilization,
5. airfare,
6. lodging costs,
7. per diem,
8. licensing,
9. permits,
10. utilities locate
11. ground penetrating radar (GPR) and Electromagnetic (EM) surveillance
12. bore scope evaluation of fill tube if tanks is present,
13. soil sampling and analysis for DRO per ADEC cost,
14. contaminated soil disposal cost (if required),
15. additional soil sampling and analysis per sample
16. installation of one groundwater sampling port

17. ground water sampling and analysis for DRO per ADEC cost
18. ADEC approval for transportation and disposal (if required),
19. provide survey of site where ground penetrating radar was completed and where samples were collected and result
20. Site Characterization Report with ADEC review/comment resolution
21. Corrective Action Completion Report with Corrective Action Plan that provides alternative methods to remediate site that results in final cleanup and/or no further action with/without institutional controls with ADEC review/comment resolution.
22. administrative costs, and
23. overhead and profit.

These are the minimum number of tasks; other tasks shall be added as approved and necessary.

WORK DESCRIPTION:

The purpose of this project is to provide all labor, resources, equipment, materials, permits, and services:

1) **Provide mapping and coordinates of one (1) potential underground storage tank located at the Beaver BIA School site. Note: Data acquired from this survey assessment will be used to remove the Underground Storage Tanks under a separate contract if found to be present.**
   a. **The area of the suspected UST shall be surveyed by the use of ground penetrating radar (GPR) and/or magnetometers and electromagnetic conductivity (EM). The location of the UST when surveyed is to be mapped by the Global Positioning System (GPS).**
   b. **If an UST is found, conduct bore scope investigation of fill tube to determine if the tank was filled with inert material prior to abandonment.**
2) **Add Alternated: If the underground storage tank is present determine if there is contamination around the tank from leaking or possible overfills.**
   a) **Conduct soil boring sampling around tank to document vertical and horizontal soil contamination.**
   b) **Conduct ground water samplings to determine if ground water contamination is present.**
   c) **Ground Water and Soil Samples will be analyzed for Diesel Range Organics (DRO) by Alaska Method AK102, Gasoline Range Organics (GRO) by AK101 and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by EPA Method 8021B or 8260D; PAHs by EPA Method 8260D, 8270E, 8310; VOCs by EPA Method 8021B, 8260D.**
   d) **Add Alternate: Site Characterization and Corrective Action Report and Plan for the underground storage tank. As part of the Remediation Plan and Report develop a cost proposal to perform the Corrective Action Plan.**

ADEC Documents

Please refer to DEC's Field Sampling Guidance October 2024 for a list of analyte testing required for soil and water samples related to the Diesel Spill. This document is available at https://dec.alaska.gov/spar/csp/guidance-forms/. The groundwater shall not exceed the 18 AAC 75 Table C groundwater cleanup levels These data are required to evaluate the site for closure in the future.

Use Appendix F of ADEC's Field Sampling Guidance, the following analysis and methods should be conducted for soil and groundwater: Diesel Range Organics (DRO) by Alaska Method AK102, Gasoline Range Organics (GRO) by AK101 and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by EPA Method 8021B or 8260D; PAHs by EPA Method 8260D, 8270E, 8310; VOCs by EPA Method 8021B, 8260D.

Samples shall be submitted to an ADEC approved laboratory for analysis of Diesel Range Organics (DRO) by Alaska Method AK102, Gasoline Range Organics (GRO) and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), by Alaska Method AK101. Environmental samples shall be delivered to the laboratory using chain-of-custody procedures.

Use Section 12 - Quality Control (QC) Measures of the Field Sampling Guidance Quality Control (QC) Measures to meet the Minimum Quality Assurance (QA) Requirements for Sample Handling, Reports, and Laboratory Data. The QA guidelines described in this memorandum are necessary to meet the requirements of 18 AAC 75.335; 75.360(2); and 18 AAC 78.007.

A Laboratory Data Review Checklist available at https://dec.alaska.gov/spar/csp/lab-approval/documents/ shall be provided for each analytical data package.

Use ADEC's 2024 Site Closure Memorandum to ensure that future work at the site will move the site forward towards closure and is available at https://dec.alaska.gov/spar/csp/guidance-forms/.

Use ADEC's Site Characterization Work Plan and Reporting guidance for Investigation of Contaminated Sites dated March 7, 2017. This document is available at https://dec.alaska.gov/spar/csp/guidance-forms/.

SCOPE of WORK:

- Prepare the Cost Proposal (Note: Include projected cost for any coordination with ADEC or other agencies that may be necessary.
- Conduct a kick-off/conference call meeting to review the proposed project work statement objectives and the project schedule. Contractor shall provide own meeting minutes and a list of action items, as needed.
- Prepare a Draft and Final Work Plan (WP), which includes as a minimum Site Assessment, Sampling and Analysis, Ecological Risk, Health and Safety. After the Work Plan is approved the Contractor shall provide the services outlined in the plan task by task. Providing a cost task by task is critical for funding accuracy. Work Plan shall include: notes, documents, reports, expert recommendations, and task cost breakdowns.
- Create Site Characterization Report for underground storage tank site based on data collected from this site.
- Develop a Corrective Action Completion Report (CACR) for underground storage tank site that discusses the cost and pros/cons of mitigating the site using active remediation, engineered barriers, institutional controls (Land Use Control Plan), or a combination of these methods. The contractor shall provide a final recommendation based on this evaluation.

Requirements:

- Work Plan

The Work Plan shall be prepared, submitted, and approved prior to conducting any work. The Work Plan shall describe the approach to waste stream identification and segregation, sample location selection, workplan deviations, Conceptual Site Model, field screening method, collection of samples, field documentation, field quality control measures, tracking of samples, Investigation-Derived Waste (IDW), Quality Assurance Project Plan (QAPP), safety and health precautions, repair of damage caused by sample collection (where necessary), the experience and qualifications of the personnel conducting the survey, and identity of the ADEC certified laboratories that will be used. The Work Plan will be delineated by Task such that each task can be priced separately and clearly defined.

- **Quality Assurance/Quality Control:**

The Contractor shall perform QC/calibration checks on all instruments (i.e. PID) in accordance with the instrument manufacturer's PCS. At a minimum, calibration checks for each instrument shall be completed in accordance with the operator manual and the manufacturer's PCS and documented if the final report. The calibration checks performed according to this paragraph that fall within the specification for the instrument shall demonstrate reading validity.

The Contractor shall follow Section 12 - Quality Control (QC) Measures of the Field Sampling Guidance Quality Control (QC) Measures to meet the Minimum Quality Assurance (QA) Requirements for Sample Handling, Reports, and Laboratory Data for all samples collected on-site.

The Contractor shall use a laboratory approved by ADEC for analyzing all samples.

- *Contaminated Soils and Groundwater Survey and Sampling:*

Contractor shall provide the services of a qualified environmental professional to perform a soils investigation to complete AVG sampling at the site to determine vertical and horizontal limits. Major elements of the effort shall consist of the following:

- Sample according to ADEC protocols. Also develop a hypothesis about where contaminants might migrate if they have spread out of the immediate government owned area. <u>This hypothesis will be part of the Contractors proposal</u>. The government assumes nine soil bore samples as a minimum. The location and depth will be recommended by the contractor, as long as this is consistent with ADEC protocols and also gives the government the best most accurate information about soil contamination amounts and contamination migration. Any other soil samples necessary will be pre-priced by the Contractor on a per sample basis. <u>The pre-price will be part of the proposal.</u>

- The Contractor shall conduct as many (a minimum of one (1)) groundwater samples as approved as necessary as long as this is consistent with ADEC protocols and also gives the government the best most accurate information about

groundwater conditions. Additional samples necessary will be pre-priced by the Contractor on a per sample basis. The pre-price will be part of the proposal.

- Samples shall be submitted to an ADEC approved laboratory for analysis of Diesel Range Organics (DRO) by Alaska Method AK102, Gasoline Range Organics (GRO) and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), by Alaska Method AK101. Environmental samples shall be delivered to the laboratory using chain-of-custody procedures.

- Field headspace screening shall be performed on all soil samples taken from soil borings. Samples shall be screened using a Photo Ionization Detector (PID). Readings shall be logged.

• Mobilize at the site following receipt of an approved Work Plan. The contractor will secure all tools and materials before leaving the work area.
• Prepare the site (locates, interviews, meetings, etc.). Implement spill control and erosion control measures as needed.
• Provide analysis of the suspected extent and distribution (horizontal and vertical) of petroleum contamination in soil
• Conduct groundwater investigation to determine where groundwater at the site has been impacted and if it is feasible to recover free product and/or treat the groundwater.
• Perform all operations in a manner which will minimize dust, noise, and other nuisance. Maintain haul routes for disposal of material, clean and free of debris.
• Protect existing facilities from damage by falling debris, dust, and construction operations.
• Perform operations in a manner that in no way endangers personnel, public, existing structures, utilities, road
• Contractor shall be responsible for damage to personnel, public, roadways, streets, structures, utilities, facilities, and equipment caused by operations and shall repair any damage at its own expense or replace items damaged beyond repair.
• Materials to be removed will be permitted to accumulate on site. All materials shall be stored in a secured location at the end of the workday and in a manner to prevent contamination of the site.
• Do not operate vehicles or equipment on existing construction or roadways which could be damaged.
• Contractor shall relocate, as necessary, existing active miscellaneous piping, conduit, and electrical circuits and devices (if needed). Contractor is responsible for repairing any damaged assets or utilities.
• The Contractor shall maintain field notes, daily logs, and photographs to document all field activities to include: site maps, excavation size, visibly contaminated soil, samples locations, depth to groundwater, and other important observations and events. Submit Field Notes to the Contracting Officer. All field notes shall become the property of the Government.
- Provide the Contracting Officer with recommendations on further actions if necessary.
- The Site Characterization Report shall follow ADEC CSP Site Characterization Work Plan and Reporting Guidance for Investigation

of Contaminated Sites provide (As a minimum):

1) A description of the work effort with analytical results that describes the significance of detected concentrations relative to appropriate regulations.
   a. Note any discrepancies between the project work plan and the actual project activities performed.
   b. Note any discrepancies between the Sample Location Selection detailed in the Work Plan and any changes made during sampling, along with explanation of differences.
2) Results of the current round of sampling shall be provided in a spreadsheet and displayed on a map showing results and location of sample.
   a. Date(s) of the survey and sample collection
   b. Identification of field-portable methods used during the survey and applicable calibration check results.
   c. Laboratory report and chain-of-custody forms
      1) The Contractor shall require the laboratory to provide the information necessary for the Contractor to comply with the data evaluation/validation procedures outlined in this SOW. This shall include a data package containing the following information:
      2) Cover page information including methods, dates, instruments, digestions, and signature of the laboratory director.
      3) Sample information including identification and the results for samples, blanks, QC samples, dilution factors, and batch identification.
   d. Comparison of the sample results to the cleanup levels for petroleum established by the Alaska Department of Environmental Conservation (ADEC).
3) The summary of all findings and recommendations for the Spill shall be included in the Site Characterization Report and shall meet the requirements of the ADEC. The report shall be signed by a registered or licensed professional individual (s) in the employ of the Contractor as required by the State.
4) Respond to all comments received for U.S. Fish and Wildlife Service and ADEC.

- Develop a Corrective Action Completion Report for AVGAS Spill and Submit to ADEC that addresses:
  1. For the purposes of the CACR, the specific pathways in which exceedances are present must be addressed. The pathways in question are:
     a) Soil ingestion and inhalation pathways,
     b) Soil component to the groundwater ingestion exposure pathway.
     c) Groundwater ingestion pathway
     d) Groundwater to Surface water exposure pathway.
     e) Indoor inhalation pathway (Vapor Intrusion) (if a building is built in this location in the future),

f) Construction worker inhalation pathway.

2. The CACR for shall develop a Corrective Action Plan that discusses the cost and pros/cons of mitigating the site using active remediation, engineered barriers, institutional controls (Land Use Control Plan), or a combination of these methods. The contractor shall provide a final recommendation based on this evaluation.
3. Respond to all comments received from U.S. Fish and Wildlife and ADEC.
4. The report shall be signed by a registered or licensed professional individual (s) in the employ of the Contractor as required by the State.

DELIVERABLES:

- Pre-Work Meeting: Organize a pre-work meeting within 2 weeks of receiving the notice to proceed (NTP). Within 10 workdays of pre-work meeting, contractor shall submit a Draft Work Plan for approval. The Service and ADEC requires 45 workdays to review and comment on the Draft Work Plan. After Draft Work Plan is approved, provide a copy of Final Work Plan within 10 workdays. With Final Work Plan ready, proceed to work site to complete all sampling activities. The Work Plan shall follow the ADEC 20217 Site Characterization Work Plan and Reporting guidance.
- Work Plans shall include a General Description Section followed by a Task Section
- Each task shall be broken down into sub-tasks. Sub-task shall include pictures and figures describing items and locations for sampling and remediation. The Task Section of the work plan shall be followed by a Regulation Section with all applicable federal, state and/or local regulations that regulate the handling, transporting, and disposing of all contaminated material from the site. The Regulation Section shall also identify the closest disposal locations for each waste stream.
- A Dailey Field Report
- Complete the ADEC Contaminated Media Transport and Treatment or Disposal Approval Form. The form shall be submitted, prior to transport, to ADEC for approval in accordance with 18 AAC 75.325(i) and 18 AAC 75.360.
- Prepare and submit copies of DRAFT Site Characterization Report and a Corrective Action Remediation Report within 90 days of receipt of regulatory sample analyses. Provide copies of report to CO, COR, Station, and ADEC.
- The government and ADEC shall have 45 days to comment on the Draft Reports. The Contractor shall then have 45 days to produce a Final Report. Provide copies of report to CO, COR, Station, and ADEC.
- The final deliverable shall be the GPR report, and a Site Characterization Report and a Corrective Action Remediation Report if DRO is found to be present in editable electronic Microsoft Word. The report shall include information needed to verify work completed conclusions, and recommendations. The final report shall include photographs and field notes.
-

SITE VISITS, CONDITIONS, AND INSPECTIONS

Contractor should become familiar with the site to examine conditions under which this work is to be performed. Coordinate all site visits and work activities in advance with the Refuge On-Site Representative (OSR) and Contracting Officer Representative (COR), providing a minimum of

five (5) business days of advance notice.

NOTIFICATIONS:
Contact the COTR, CO, and Refuge Representative before departing to the site. Review concerns about time lines, transportation, equipment, personnel, permits, licensing, and contingencies. Keep the CO and COTR informed of progress. Daily reports, photographs, notes, and all documentation shall become the sole property of the government.

ON-SITE WASTE MANAGEMENT
All waste generated from this contract shall be disposed of off-site according to local, state, and federal requirements. An ADEC Soil Transport Approval Form is required before removing any contaminated media from the site

ANALYSIS AND INVENTORY:
Provide documents that delineate a clear concise paper trail of how, when, and where contaminants were disposed of. This Statement of Work is not all-inclusive and shall not relieve the contractor of responsibilities as outlined in federal, state, and local regulations.

PROJECT SCHEDULE and REPORTING:

Within ten (10) work days after Notice to Proceed (NTP) shall provide a project work schedule. Verify and clarify travel, permits, payment schedules, report format, schedule of values, work plan actions, availability of equipment, etc. Coordinate existing and new data to evaluate and recommend proper course of action. Daily reports, photographs, notes, and documentation shall become the sole property of the government. The project shall be completed by November 30, 2026.

Contractor shall notify the Government no less than ten (10) days prior to commencement of any work activities.

AVAILABILITY: Normal duty hours, Monday thru Friday 7:30 a.m.-4:00 p.m. Non-duty hours include week nights, weekends, and federal holidays. Contractor shall request approval for any work outside normal duty hours.

PERMITS:
The Contractor shall be responsible for obtaining the necessary permits including preparing paperwork for permanent closure on behalf of the Government. Collect all data, maps, chemical analyses, etc., necessary to prepare complete and accurate report that meets the requirements of the ADEC.
Comply with inspection requirements of the State and local agencies. Inspect and ensure that no electrical, gas, water, structures, or other conditions are in the area that may affect work. Contact the local fire marshal and the public utilities office before beginning the work.

UNDERGROUND OBSTRUCTIONS:
There are no known underground piping, foundations, and other underground obstructions in the vicinity of work.

DISPOSAL OF MATERIALS:
Contractor shall be responsible for proper disposal of all project derived waste material. This includes but not limited to any sampling debris (i.e. protective clothing, contaminated wipes, respiratory cartridges, etc.)) and will be the responsibility of the contractor. As such the contractor assumes all liability for the correct disposal of suspected DRO derived waste.
Waste material shall be transported and disposed of using transporters and disposal facilities, which possess all required federal, state, or local licenses or permits.

CLEANUP:
Cost incurred by the Government in cleaning up such litter will be charged to Contractor and deducted from monies due or to become due it under this contract. Upon completion of work, thoroughly clean area of materials not to remain. Cleanup activities shall be in accordance with Federal, State, and Local regulations.

KEY PERSONNEL
The project team includes a Contracting Officer, Contracting Officer Representative, Program Manager, Project Manager/Lead Environmental Manager whom the Site Project Manager and Contractors reports to. The following is an overview of personnel directly responsible for supporting the efforts of this contract.

Contracting Officer Representative: Robert McGinn, Regional Environmental Compliance Coordinator
Address: 5600 American Blvd W, Suite 990, Bloomington, MN 56001
Contact info, phone and email: (612) 518-1237, Robert_McGinn@fws.gov

Program Manager: Mark Bertram, Acting Refuge Manager
Address: 101 12th Ave, Rm 236, Fairbanks, AK 99701-6237
Contact info, phone and email: (907) 334-5259, mark_bertram@fws.gov

Attachment 1 – Site Location and Photos

Attachment 1 – Site Location and Photos

Access to Beaver, Alaska is only provided by plane from Fairbanks, Alaska or you can take a boat and access it from the river.

Venetie
Fort Yukon
Beaver, Alaska School SIte
Beaver
Beaver
Birch Creek

U.S. Fish & Wildlife Service

Beaver School Site

Yukon Flats National Wildlife Refuge

Alaska

Photos: