Request for Bid (RFB)
Remedial Action Plan Contract (Fixed Price Contract)
August 24, 2011

Project
Fuel On
6 West Butler Drive, Drums, PA
PAUSTIF Claim No.2008-082(F)
PaDEP Facility ID #40-07468

ICF International (ICF), on behalf of the Pennsylvania Underground Storage Tank Indemnification Fund (USTIF) and the claimant for the above-referenced claim is soliciting bidders for a fixed price contract project. Specifically, this Request for Bid (RFB) is seeking qualified firms to prepare and submit a fixed price proposal to complete the specified Scope of Work (SOW) at the above referenced facility (Site).

A petroleum release to the subsurface, the result of a ruptured product line beneath the dispensers, was confirmed by Tyler Petroleum Services, Inc. at the Site on June 11, 2008. Due to vapors entering the building following the release, Chambers Environmental Group, Inc. (Chambers) installed a soil vapor extraction (SVE) system within a trench located between the dispenser islands and the building. The system was operational for approximately 21 months (June 18, 2008 through March 26, 2010) and subsequently shut down because vapors had dissipated at the Site. The SVE system has been physically removed from the Site, but the vent lines still remain for possible future use. Subsequent Summa canister sample collection and analysis of the in-door air document that the Indoor air quality (IAQ) residential Medium specific concentrations (MSC's) were met for indoor air.

A Site Characterization Report (SCR) was submitted to the Pennsylvania Department of Environmental Protection (PaDEP) on March 11, 2009 by Chambers. The PaDEP commented that additional characterization was necessary in a letter dated April 8, 2009 and an Addendum to the SCR (ASCR) was submitted by Chambers on October 29, 2009. The ASCR was approved by the PaDEP in correspondence dated November 20, 2009. A Remedial Action Plan (RAP) was submitted by Chambers to the PaDEP on December 31, 2009. The RAP was disapproved by PaDEP on January 14, 2010. This was partially due to the fact that benzene concentrations at a down-gradient adjacent Site experienced a dramatic increase in benzene concentrations to levels that were higher than ever reported for those wells at the Site. PaDEP placed the recently approved remedial action plan on hold for the adjacent down-gradient site until the nature and source of the benzene in the two down-gradient off-site wells could be determined.

Austin James Associates, Inc. (AJA) completed the monitoring well installations on-site and off-site during June 2010 at the request of ICF International (ICF) on behalf of the Underground Storage Tank Indemnification Fund (USTIF) in order to determine the source of benzene in the Butler Township monitoring wells MW12 and MW13 located down-gradient of the Fuel On Site. The monitoring wells located on both the Fuel On and the Butler Township Sites were surveyed together and tied in as one monitoring well network. Recent petroleum hydrocarbon concentration levels in the Butler Township monitoring wells indicated increasing and erratic levels of dissolved benzene that was not consistent with the history for the Butler Township Site. Understanding the nature of this recent benzene concentration anomaly was critical because the remedial system designapproved and ready to be installed at the Butler Township Site, did not include this area for remediation. Due to the nature of the circumstances, ICF/USTIF, with direction from PaDEP's Mike Benner, requested a third party to evaluate the two Sites to try to determine the source for the recent increases of dissolved benzene in Butler Township monitoring wells MW12 and MW13. In the interim, the remedial action plan recently approved by PaDEP for the Butler Township Site was placed on hold by PaDEP, pending the results/outcome of the supplementary groundwater study. The site characterization information previously obtained by others and the supplemental investigative data obtained by AJA are summarized in this report.

In PaDEP correspondence dated January 14, 2010 (**Attachment 1**), the Department commented that the on-site source area was not sufficiently characterized. A Supplemental Site Characterization Report Addendum (SSCRA),

prepared by AJA, is included in **Attachment 1**. This attached document provides additional background and site characterization information for the Site and adjacent properties.

The SOW for this RFB solicitation is to install and operate an Air Sparge/Soil Vapor Extraction (AS/SVE) remedial treatment system or other comparable air cleanup technology to clean-up the hydrocarbon mass in soils and groundwater at the Site to achieve and maintain compliance with SHS criteria for soils and groundwater at the Site now and in the future. Once the cleanup goal is achieved, the consultant will be required to submit a Remedial Action Completion Report (RACR) for PaDEP review and approval to close the Site consistent with Chapter 245 regulations. The Solicitor, (Route 309 LLC (Fuel On)), has an open claim (claim number referenced above) with USTIF and the corrective action work will be completed under this claim. Reimbursement of Solicitor-approved, reasonable, necessary, and appropriate costs up to claim limits for the corrective action work described in this RFB will be provided by USTIF.

The Solicitor has indicated a preference to remediate the Site to the Statewide Health Standard (SHS) so that no deed restriction or environmental covenant is required. In order to achieve this remedial goal, the corrective action work of this solicitation will generally include the following tasks (additional details provided later in this solicitation):

- Continue quarterly groundwater monitoring, sampling, and reporting activities for the existing twenty-five (25) Fuel On monitoring wells (Fuel On wells MW1 thru MW12, MW13 Deep, MW14 Deep, MW15 Deep, MW16 thru MW25), the two remaining Goldy's monitoring wells (Goldy's wells MW9, and MW10) and two (2) supply wells (Fire House Supply well and the Site supply well) for a total of 29 samples per sampling event (this activity is to be coordinated with the consultant, B&B Diversified, Inc. to ensure well sampling is completed concurrently with B&B's sampling of the Butler Township well network). Contact information for B&B Diversified will be given to the successful consultant who is awarded this bid. For reference, B&B Diversified is completing the remediation of the down-gradient Butler Township property (this Site is completing site remediation under an approved USTIF claim with an approved remedial action plan in progress at the Site).
- Complete a Fate and Transport Analysis/Evaluation
- Complete a Hydrocarbon Mass Estimate
- Complete an AS/SVE pilot test (or a comparable injection/withdrawal air technology) to provide the design of a remedial system capable of cleaning up the site). This will include a pilot testing off-ramp which will be available to the consultant in the event the technology evaluated during the pilot test does not indicate that the selected remedial application is conducive to Site conditions and/or will not likely result in Site cleanup.
- Preparation and Submittal of a Remedial Action Plan.
- On approval from PaDEP, install and operate an AS/SVE system. Assume a 24 month operational period.
- Preparation and submittal of Remedial Action Progress Reports for the period of remediation.
- Preparation and submittal of a Remedial Action Completion Report when quarterly demonstration of attainment has been achieved for the required quarters and documentation of compliance with the SHS for soils and groundwater has been demonstrated for the Site.

Should your company elect to respond to this RFB Solicitation, one (1) hard copy of the signed bid package must be provided directly to the ICF Claims Handler at the address indicated below. In addition to this hard copy submittal, the bid package must also be submitted in electronic format (Adobe PDF format) on a CD to be included with the hard copy bid package to the ICF Claims Handler. **The signed response to this RFB (both hard copy and electronic copy) must be provided as directed above no later than close of business (5 PM EST) on Friday, October 21, 2011.** Any bid responses not received by this date and time will not be considered. In addition, the outside of the package must be clearly labeled with "Bid Claim - #2008-0082(F)". **To reiterate, no bid responses should be e-mailed. The electronic version must be provided on a CD and delivered with the hard copy to the ICF Representative by the provided deadline.**

On behalf of ICF and USTIF, the Technical Contact will assist the Solicitor in evaluating the bid; however, it is the Solicitor who will ultimately select the consultant with whom it will negotiate a mutually-agreeable remediation agreement. The bid evaluation will consider, among other factors, total bid cost, unit costs, schedule, discussion of technical approach, qualifications, and contract terms and conditions. The total cost will be the most heavily weighted evaluation criterion. The bidders will be informed of the Solicitor's selection via e-mail.

A. SOLICITOR, SITE OWNER'S REPRESENTATIVE, ICF CLAIMS HANDLER, AND TECHNICAL CONTACT INFORMATION:

Solicitor	**ICF Claims Handler**	**Technical Contact**
Mr. Alex Sayed	Linda Crabb	Curt Herman
Route 309 LLC	ICF International, Inc	Austin James Associates, Inc.
100 N. Wilkes-Barre Blvd.	4000 Vine Street	PO Box U
Suite 206	Middletown, PA 17057	Pocono Pines, PA 18350
Wilkes-Barre, PA 18702	Phone: 800.888.7843	Phone: 570.646.5431
	Fax: 717.948.1767	Fax: 570.646.1484
	lcrabb@icfi.com	ajacurt@epix.net

NOTE: All questions regarding this RFB Solicitation and the subject site conditions must be directed to the Technical Contact identified above with the understanding that all questions and answers will be provided to all bidders. The e-mail subject line must be "Route 309 LLC (Fuel On) 2008-0082(F) – RFB QUESTION". Bidders must neither contact nor discuss this RFB Solicitation with the Solicitor, USTIF, PaDEP, or ICF unless approved by the Technical Contact. Bidders may discuss this RFB Solicitation with subcontractors and vendors to the extent required for preparing the bid response. **All questions must be received by close of business on Friday, October 14, 2011. As a reminder, the signed response to this RFB (both hard copy and electronic copy) must be provided as directed above no later than close of business (5 PM EST) on Friday, October 21, 2011.**

Submitted bid responses are subject to Pennsylvania's Right-to-Know Law.

B. ATTACHMENTS TO THIS RFB SOLICITATION

Attachment 1: Previous Environmental Reports and Supporting Documents
- Austin James Associates Supplemental Site Characterization Report dated May 31, 2011
- Chambers Site Characterization Report dated March 2009
- Chambers Addendum to the Site Characterization Report dated October 2009
- Chambers Remedial Action Plan to Michael Benner, PaDEP dated December 31, 2009
- PaDEP Letter dated January 14, 2010
- Chambers Quarterly Monitoring Report dated April 2010
- 2nd Quarter 2010 Lab Data from ALSI

Attachment 2: Cost Summary Sheets
Attachment 3: Sample Fixed Price Contract
Attachment 4: Competitive Bidding Fact Sheet
Attachment 5: PaDEP email dated June 9, 2011

C. SITE LOCATION/BACKGROUND

Corrective action activities are being performed at this Site in response to a confirmed petroleum release. Specific Site background information can be found in the documents provided in Attachment 1. The following information summarizes, and is derived from, relevant information provided in the previous environmental reports that are included as Attachment 1. If there is any conflict between the summary provided herein and the source documents, the bidder should defer to the source documents.

Site Name/Address:
Route 309 LLC, Fuel On/corner of PA State Route 309 and Butler Drive, Butler Township, Luzerne County, PA.

Site Use Description:
The facility structures and other improvements currently located on the property include one single story concrete and cinder block building with a basement serviced with electricity, a private supply well, and public sewer. Currently, the Site operates as a retail gasoline fueling station and convenience store. Previously in the basement of the convenience store was Annie's Upholstery shop which upholstered the interiors of vehicles. The Site has historically been used for the same purpose for the last 20 to 30 years. Prior to the Site being a “Fuel On” brand station, it was also a Uni-Mart and an Orloski's Quik Mart. Prior to the store becoming a fueling station, it was a butcher shop and a slaughter house.

Adjacent Property Information:
The Site and surrounding study area is zoned primarily for light commercial and residential use. The Route 309 LLC Fuel On property consists of a 1.25-acre lot and is bordered to the north by West Butler Drive, to the west by Valley Fire and Rescue, to the south by a vacant wooded lot and wetland area, and to the east by Route 309. Adjacent properties of concern include the former Goldy's Mini Mart Site (Goldy's) to the east across Route 309 and the Butler Township Site to the southwest. Each of these two adjacent Sites are currently being investigated by the PaDEP and remediated by the Site's environmental consultants. The Goldy’s Site at one time had active remediation and has had the USTs removed in April 1994. The PaDEP has recently approved a Remedial Action Completion Report for the Goldy’s Site. UST removal activities were completed at the Butler Township Site in February 1998. Only naphthalene was reported in post-excavation soil and groundwater samples in excess of the soil and groundwater standards in place at that time. An air sparge/soil vapor extraction (AS/SVE) remediation system for a diesel fuel release that was reported in 1998 is currently being installed at the Site.

During 2010, the Butler Township monitoring well MW12 indicated increasing/erratic concentration levels of dissolved benzene which was not consistent with the Site history for the Butler Township Site. Due to the nature of this situation, ICF/USTIF, at the request of PaDEP, requested a third party evaluate the two Sites to try to determine the responsibility of the recent increases of dissolved benzene in Butler Township monitoring well MW12. Austin James Associates, Inc. (AJA) was contracted to perform additional site investigation activities to determine if impacted groundwater from the Route 309 LLC, Fuel On Site was contributing to increasing benzene levels at Butler Township monitoring well MW12.

Nature of Confirmed Release and Subsequent Activities at the Site:
The following information is based on the documents provided in Attachment 1. The information in the Chambers Environmental Group Reports has not been independently verified by ICF or the Technical Contact.

On June 11, 2008, a reportable release was confirmed at the Site by inventory reconciliation. Based on inventory reconciliation, an estimated 1,200 gallon discrepancy was noted but the actual volume of unleaded gasoline released at the Site during this release incident is unknown. The Claimant contracted Tyler Petroleum Services, Inc. (Tyler Petroleum) to investigate the product loss. Tyler Petroleum identified a rupture in the product piping beneath dispensers 3 and 4. Their investigation revealed that the submersible pump relay also malfunctioned and therefore the submersible pump was continuously pumping. Chambers Environmental Group (Chambers) was contacted by the Solicitor to assess the petroleum impacts related to the release.

The following is a summary of investigation/characterization activities completed by Chambers and AJA in chronological order:

- June 12, 2008: Investigation of petroleum odors detected by the upholstery shop owner on June 8, 2008. (The shop occupies the basement/lower level of the Site building). Air quality has been monitored monthly since.
- June 16-17, 2008: Installation of Soil vapor extraction (SVE) system to mitigate potential vapor intrusion into the Site building.
- August 27 and September 3, 2008: Seven overburden monitoring wells installed at the Site.
- September 25-26, 2008: Development and sampling of the seven groundwater monitoring wells.
- October 17, 2008: Granular Activated Carbon treatment system installed on supply well.
- October 30, 2008: Confirmatory sampling of the seven groundwater monitoring wells.
- November 6-7, 2008: Eight soil borings advanced, with the collection of eleven soil samples for laboratory analysis to identify potential impacts to Site soils.
- March 11, 2009: Site Characterization Report prepared by Chambers submitted to the PaDEP.
- September 11, 2009: A step draw down test was performed on Site monitoring wells MW3 and MW6.
- September 14-17 and 21, 2009: Drilling to identify depth-to-bedrock and installation of three deep overburden monitoring wells (MW-13, MW-14, and MW-15) onsite.
- September 28-30, 2009: Advancement of nine soil borings with the collection of eighteen soil samples for laboratory analysis. Two off-site monitoring wells (MW11 and MW12) installed.
- September 30-October 1, 2009: Groundwater monitoring wells MW9 and MW10 installed at the Site.
- October 29, 2009: Addendum to the SCR submitted to the PaDEP.
- January 14, 2010: RAP is disapproved by the PaDEP.
- February 3, 2010: Quarterly groundwater sampling of Site monitoring wells.
- March 26, 2010: SVE system shutdown and removed.
- June 10, 2010: Ten on-site and off-site monitoring wells installed by AJA. Site characterization work activities was initiated by AJA at the request of ICF in order to determine the source of benzene in the Butler Township monitoring well MW12 located down gradient of the Fuel On Site.
- June 29, 2010: Combined quarterly groundwater monitoring of Fuel On, and Butler Township Site monitoring wells.
- July 8. 2010: Survey of the combined Fuel On, and Butler Township monitoring well network.
- August 11, 2010: Advancement of seven soil borings with the collection of fourteen soil samples for laboratory analysis for the purpose of further delineating the horizontal and vertical extent of impacted soil in the vicinity of the fuel dispenser island area.
- September 29, 2010: Combined quarterly groundwater monitoring of Fuel On and Butler Township Site monitoring wells.
- December 10, 2010: collection of 24 hour indoor air samples utilizing Summa Canisters at two locations in the basement of the Uni-Mart building for evaluation of indoor air quality.

- December 14, 15, and 16, 2010: Advancement of ten soil borings with the collection of nineteen soil samples for laboratory analysis for the purpose of further delineating the horizontal and vertical extent of impacted soil east, south, and southwest of the fuel dispenser island area.
- December 21, 2010: Combined quarterly groundwater monitoring of Fuel On and Butler Township Site monitoring wells.
- March 30, 2011: Supplemental Site Characterization Report Addendum submitted to PaDEP.

The purpose of the Supplemental Site Characterization Report Addendum (SSCRA) was as follows:

- Determine the movement of impacted groundwater from the Fuel On Site to the down gradient Butler Township Site (PaDEP Facility ID#40-18055) in order to evaluate whether impacted groundwater from the Fuel On Site was contributing to increasing benzene levels at Butler township monitoring well MW12 .
- Quantify a potential second source area near the underground storage tank field (UST field) at the Fuel On Site.
- Investigate the horizontal and vertical extent of impacted soil and groundwater at the Fuel On Site.
- Gather additional characterization data to aid in the design and implementation of a remedial system at the Fuel On Site.

A summary of the results of the supplemental site characterization work:

The results of indicate the presence of regulated dissolved phase petroleum hydrocarbon constituents (specifically **benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene, 1,2,4-TMB**, and **1,3,5-TMB**) at concentrations above current regulatory SHS action levels at certain locations within the shallow aquifer at the Fuel On Site. The results confirm the fuel dispenser area as the inferred source area for the regulated petroleum hydrocarbon constituents dispersing within shallow soils and shallow groundwater at the Site.

The fact that the concentration of regulated unleaded gasoline constituents at all shallow and deep wells between the inferred Butler Township Site source area and Butler Township well MW12 are non-detect further supports the conclusion that the inferred source of the increasing and erratic benzene concentrations in Butler Township wells MW12 and MW13 are the result of the more recent release at the former Fuel On Site located up-gradient from the Butler Township site.

Regarding soil, with the exception of the concentrations of **benzene, toluene, ethyl benzene, 1,2,4-TMB**, and **1,3,5-TMB**, other regulated unleaded gasoline constituents have not been detected in soil at levels exceeding Act 2 soil to groundwater pathway residential MSC values, at any time during the Site investigation.

Regarding groundwater, **cumene** is the only regulated unleaded gasoline constituent that has not been detected in groundwater at levels exceeding the Act 2 residential MSC value. The impacted portions of the Site are anticipated to be covered with asphalt or concrete based on the future planned use of the property. Future planned use of the subject property as well as the three lateral/downgradient contiguous properties currently is reported to be commercial.

Site groundwater is currently consumed and future consumption of Site groundwater is highly likely. Groundwater MSCs <u>are not currently met</u> at the property boundaries. Drinking water wells exist on the down gradient property and contiguous properties. The Site supply well is treated with activated carbon. Down gradient supply wells are untreated. Only the two supply wells identified in the RFB should be considered for sampling during the remedial and demonstration phases at the Site, based on the current understanding of the site conditions and PaDEP's current requirements. Should other supply wells, currently not requested by PaDEP for sampling be identified to be potentially at risk of impact and need to be sampled, any supply wells

such identified will be identified as an out-of-scope and sampled based on a time and materials not-to-exceed basis.

AJA has confirmed with PaDEP its request to evaluate an air injection/extraction type technology such as air Sparging/Soil Vapor Extraction (AS/SVE) for serious consideration as the remedial treatment option for the Site. Based on the site conditions, the fact that two adjacent sites were successfully treated, or are in the process of being treated, with an air injection/air extraction technology, AJA concurs with PaDEP's conclusion for consideration of an air injection/extraction remedial type system for the Site.

USTs on Site:
The UST system at the Site is currently operational.

Current and Historical Constituents of Concern:
The constituents of concern (COCs) at this Site are the substances on the PaDEP short list for unleaded gasoline (benzene, ethylbenzene, toluene, xylenes, MTBE, naphthalene, cumene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene).

Potential Vapor Transport Receptors
There currently are no residences or off-site light commercial buildings that are located within the benzene isoconcentrations as determined by the last three groundwater sampling events of the entire monitoring well network. However, the inferred source area is within 100' of the Fuel On building, and a preliminary evaluation of indoor air quality was completed on December 10, 2010. The results (obtained through air sampling utilizing Summa canisters) demonstrate the indoor air quality is in compliance with the IAQ residential medium-specific concentrations for regulated unleaded gasoline constituents.

Other Potential Off-Site Sources Within the Study Area
Records for any other potential source area(s) were not evaluated, because their physical locations are likely not to impact groundwater within the area encompassing the Fuel On, Former Goldy's, and Butler Township Sites.

Geology, Topography, and Drainage
Geology for the area is indicated as the Mississippian aged Mauch Chunk Formation (Socolow and others). The formation may be described as cyclothemic (alternating and repetitious) sequences of grayish-red shale, siltstone, sandstone, and conglomerate. The formation is moderately resistant to weathering and good surface drainage exists.

According to the Penn State College of Agricultural Sciences, Soil Map Database, the native soils in and around the site is Meckesville Channery (MeC) Silt Loam. The soils have 8 to 15 percent slopes and are well drained with very deep bedrock. The MeC soils formed in colluviums, glacial till, or congeliturbate from red acid sandstone, siltstone, and shale. The seasonal water table is approximately three to four feet below surface grade (bsg). The native soil encountered throughout the soil investigation is similar to the reported description of the Meckesville Silt Loam.

Bedrock Geology - According to the well log information, monitoring wells MW1 through MW25 were advanced to depths ranging from 8 to 46 feet. Bedrock was encountered during monitoring well installation for MW13, MW14, MW15, MW24, and MW25. Based on review of the well logs, bedrock (a red shale/siltstone) was encountered at depths ranging from approximately 19 to 36 feet below surface grade (bsg) on the Fuel On Site. The unconsolidated alluvium/colluvium rests unconformably atop the bedrock contact. The static water

level occurs within the unconsolidated media with sufficient saturated thickness such that the expected dispersion pathway is primarily within the unconsolidated geologic media.

Unconsolidated Geology - The overburden material within the study area is mostly fluvial deposits described as clay intermixed with pebbles; layers of coal and coal ash; and flat river gravels intermixed with sandy clay and fine sand and silt. The thickness of the fluvial deposits varied from approximately 5 to 30 feet (the greatest depth the boreholes were advanced).

The Site is situated at approximately 1185 feet above mean sea level (msl). Butler Township Garage is situated at approximately 1145 feet above msl. Topography slopes down from the Site to Butler Township Garage. The geomorphology of the study area is complex with three unnamed tributaries to Little Nescopeck Creek cutting and merging to the west and south of the Site. The presence and relative locations of the streams, springs, and wetlands indicate that the area between the Sites is a localized groundwater discharge area (groundwater discharges from the formation to the surface). If the surface water features are perennial, contaminants dissolved in the groundwater will discharge to the surface and be carried downstream before migrating onto the Butler Township site. While AJA was unable to identify the unnamed streams in the USGS stream database to determine whether or not they are perennial or intermittent, area residents and people familiar with the area indicate that they are perennial.

D. OBJECTIVE/SCOPE OF WORK

This RFB seeks competitive bids from qualified contractors to perform the additional investigation and remedial treatment activities scoped below to remediate the Site to the Residential Statewide health Standard (SHS) for soils and groundwater so that no deed restriction or environmental covenant is required.

The following Scope of Work (SOW) has been prepared using the guidelines of Pennsylvania Code Title 25, Chapter 245 (The Storage Tank and Spill Prevention Program) and Chapter 250 (The Land Recycling Program). In preparing the scope of work, AJA has contacted PaDEP for concurrence of the proposed remedial system at the Site. PaDEP's email (provided as attachment 5) specified:

"It is understood that there are numerous remedial technologies available for addressing soil and groundwater contamination and that overall cost and time to completion are important factors in remedial option evaluation. Therefore, it is always sound practice to consider various options, especially those with a "track record" of success for a specific site or area. After reviewing the data for the above referenced site and adjacent sites, and the results of the vapor extraction interim remediation system at this site, it is suggested that an air injection/extraction type system be given serious consideration when evaluating remedial options for this".

AJA is in concurrence with PaDEP's conclusion and the scope of work provided reflects PaDEP's suggested request. In order to facilitate a reasonable bid comparison, all bidders are to assume the specifications provided in preparing their bid response and costs.

ALTERNATIVE OPTION APPROACH: Bidders may provide (in addition to the required bid response), a separate option based on an alternative aeration-based strategy with all aspects defined in sufficient detail for accurate evaluation and comparison to the RFB specification. These additional alternatives may or may not be considered based on the sufficiency of the pool of responses to the required baseline specifications. Any additional alternative which is not sufficiently documented or which does not clearly establish that it offers is equal or superior remedial effectiveness within a similar timeframe will not be considered.

AJA considers the completion of several key elements to be crucial, in order for the approach outlined in this RFB to be successful. They include:

- Continue quarterly groundwater monitoring, sampling, and reporting activities for a duration of six months to ensure there are no gaps in required quarterly groundwater monitoring while the pilot testing is completed at the Site (this activity is to be coordinated with the consultant for the Butler Township Site , B&B Diversified, Inc. B&B Diversified is in the process of completing the remediation of the down-gradient Butler Township property, also a 100% funded Site with USTIF. Contact information for B&B Diversified will be given to the successful consultant who is awarded the bid). Monitoring wells to be sampled include the existing twenty-seven (27) monitoring wells (MW1 thru MW12, MW13 Deep, MW14 Deep, MW15 Deep, MW16 thru MW25, Goldy's MW9, and Goldy's MW10) and two (2) supply wells (Fire House Supply well and the Site supply well).
- Complete a Fate and Transport Analysis/Evaluation.
- Complete a Hydrocarbon Mass Estimate.
- Complete an AS/SVE pilot test (or a comparable injection/withdrawal air technology) to provide the design of a remedial system capable of cleaning up the site. This will include a pilot testing off-ramp which will be available to the consultant in the event the technology evaluated during the pilot test does not indicate that the selected remedial application is conducive to Site conditions and/or not likely result in Site cleanup.
- Preparation and Submittal of a Remedial Action Plan.
- On approval from PaDEP, install and operate an appropriately sized remediation system. Assume a 24 month operational period.
- Preparation and submittal of Remedial Action Progress reports for the period of remediation.
- Preparation and submittal of a Remedial Action Completion Report when quarterly demonstration of attainment has been achieved for the required quarters and documentation of compliance with the SHS for soils and groundwater has been demonstrated for the Site.

General Information

This RFP proposes four major tasks, with subtasks presented in an outline format for cost analysis and implementation. The costs proposed shall be fixed based on the bid price provided for the RFP scope of work. Expenses in excess of the quoted price for the contract shall be borne by the consultant. The scope and budget for identified Out-of-Scope work must be pre-approved to be eligible for payment. Expenditures for deviations from the RFP scope of work that are not approved by USTIF or its representatives will not be reimbursed.

The goal of this RFB is to install an air sparge/soil vapor extraction (AS/SVE) system or other air injection/vapor extraction type system that is acceptable to PaDEP, and to facilitate meaningful progress toward Site closure by operating that system. The work scope is also designed to support future Site closure options by providing information that will help to address the extent of the Off-Site contamination relative to the on-site source(s). The goal is to promote achievement of a timely and efficient Site closure to obtain an *Act 2* Relief of Liability for the Site.

Itemized Proposal Tasks

The proposal should follow the task format outlined herein. Proposals should include a detailed description of the anticipated costs for each task including labor rates, time requirements and equipment costs. A Cost Summary Sheet, to be attached to your proposal, is included as **Attachment 2**.

Task 1.0 - Project Management

Task 1.1 - Meet with PaDEP to Discuss and Obtain Approval of Proposed Work Scope.

Task 2.0 - Remedial Action Design and Installation Activities

Task 2.1 - Complete Fate and Transport Analysis
Task 2.2 - Complete Hydrocarbon Mass Estimate
Task 2.3 - Feasibility Study/Pilot Test/Remedial Action Plan
Task 2.4 - AS/SVE System Installation
- Task 2.4.1 System Design
- Task 2.4.2 Sparge/Vent point Installation
- Task 2.4.3 Construction of Treatment Point Network/Site Restoration
- Task 2.4.4 Compound Construction
- Task 2.4.5 Oversight

Task 2.5 - AS/SVE System Operation (assume a 24 month operational period)
- Task 2.5.1 System Start Up
- Task 2.5.2 Operating Costs
- Task 2.5.3 Sampling and Analysis during Operations

Task 3.0 – Continued Site Monitoring and Reporting

Task 3.1 - Continued Water Level Data Collection
Task 3.2 - Quarterly Groundwater Sampling
Task 3.3 - Indoor Air Monitoring
Task 3.4 - Remedial Action Progress Reports

Task 4.0 – Preparation and Submittal of a Remedial Action Completion Report

Task 5.0 - Site Restoration

Out-of-Scope Work

During completion of the proposed activities described herein, additional work (similar to the authorized activity, but out-of-scope) not previously anticipated may be identified. If "the Consultant" considers work to be out-of-scope then ICF and its designated representatives must be notified immediately. Upon encountering out-of-scope work, an estimate of the cost for the additional work must be prepared and sent via e-mail within five days of notification. Approval to proceed will be based on the merits of the proposed work as it pertains to the completion of interim remedial action activities for the Site and to progress toward Site Closure.

Description of each Proposal Task

The work scope for each task is provided below:

Task 1.0 - Project Management

This task includes administrative charges, project management items, and meetings that are not specifically assigned to other tasks. This task also includes coordinating with subcontractors, scheduling, staffing, and interaction with client representatives, ICF and its representatives, and PaDEP. A Project Manager should be identified who is responsible for oversight of the project and communications with ICF, its representatives, USTIF, and PaDEP.

Task 1.1 - Meet with PaDEP to Discuss and Obtain Approval of the Proposed Work Scope

A meeting with PaDEP has been proposed to present and discuss the elements of the proposed Work-plan. We anticipate scheduling the meeting with PaDEP's northeast regional office prior to initiation of contract activity. The consultant should assume the meeting would include ICF and/or its representatives. Your budget for this activity should include time to prepare for the meeting and should assume the meeting will be held at the Site or the PaDEP's northeast regional office.

Task 2.0 – Remedial Action Design and Installation Activities

The Scope of Work has been prepared using the guidelines of Pennsylvania Code Title 25, Chapter 245 (The Storage Tank and Spill Prevention Program) and Chapter 250 (The Land Recycling Program). Your bid response should follow the task format outlined below. A cost summary sheet to be attached to your proposal is included as **Attachment 2**. Proposals should also include a detailed description of the anticipated costs for each task including labor rates, time requirements, and equipment costs as broken out in the detailed cost sheet, included in **Attachment 3**.

During this task, the Consultant will complete a fate and transport analysis, hydrocarbon mass estimates, feasibility study and pilot testing as necessary (to assist in the design and subsequent operation of the remediation system), submit a conceptual remedial action plan, install the AS/SVE system including all trenching, piping, utility connections, and Site restoration.

Minimizing Business Disruption
Since the AS/SVE installation work will prevent the Solicitor's use of some of the pump islands for some period of time, the Scope of Work includes coordination with the claimant to minimize business disruptions at the Site.

Task 2.1 - Fate and Transport Analysis

A Fate and Transport (FT) evaluation shall be completed as appropriate and consistent with Act 2 guidance in order to address contaminant migration scenarios. This evaluation should include dissolved phase concentration trend analysis and groundwater modeling as appropriate for constituents of concern at the Site. The FT evaluation should be sufficient to determine the current and future extent of the dissolved phase plume for constituents of concern in groundwater for use in the development of a remedial action plan. It should also consider the degree of attenuation with respect to any down-gradient receptors and evaluate any supply well impacts (including the possibility/likelihood of off-site sources).

Fate and Transport groundwater modeling should be completed using the Quick_Domenico Model. This is one of the PaDEP approved models referenced in Act 2. Quick_Domenico should be well suited for use at the

subject Site given the overburden aquifer (and PaDEP has acknowledged that it can be utilized on fractured rock sites as long as the biodegradation factor is set to zero when significant characterization data exists).

Task 2.2 - Hydrocarbon Mass Estimate Documentation

An estimate of the mass of hydrocarbons prior to remediation and remaining in the subsurface following remediation shall be provided. This estimate should use available Site data and may take advantage of accepted approximations, however if used such approximations and estimates must be explained and justified.

Task 2.3 - Feasibility Study/Pilot Testing/Remedial Action Plan

The bidders shall prepare a conceptual remedial action plan including the conceptual design of a remedial system in order to respond to this RFB. It is industry practice to perform a pilot test or remedial feasibility test and provide the results of this testing in the Remedial Action Plan (RAP). The bidder shall provide a detailed description of the proposed pilot testing including the use of existing or installation of new data monitoring/collection points, proposed equipment to be used, and the data that is proposed to be collected. Additionally, the bidder shall specify up to five basic, objective criteria that will be evaluated to determine whether the remedial action proposed in the bid response document is feasible. The criteria shall be listed with an upper and lower limit that will define the range of acceptable results. These criteria must be tightly-controlled measurements or calculations that could be independently measured or verified by others during the pilot test. Examples of such criteria include but are not limited to:

a) Air flow rates from an SVE point(s) at a specific vacuum level;
b) Vacuum levels in an SVE observation point at a specified distance from the extraction well subjected to a specified vacuum and air-flow rate;
c) Air flow rates from an AS point(s) at a specific pressure level;
d) Pressure levels in a AS or SVE observation point at a specified distance from the extraction well subjected to a specified vacuum/pressure and air-flow rate; and,
e) Combined AS/SVE flow rates with pressure/vacuum levels recorded at specified distances from the injection withdrawal location.

The criteria selected and the range for each specified in the bid response document will be evaluated by the bid evaluation committee as part of the technical review. If the results of the pilot testing show that the proposed remedial action is feasible based on the specified criteria and ranges, the selected consultant shall move forward on the project; however, if the results of the pilot testing show that the proposed remedial action is not feasible based on the specified criteria, either the selected consultant or the Solicitor may cancel the Remediation Agreement. This stage of the project is referred to as the “Pilot Test Off-Ramp” and is intended to protect the selected consultant and the Solicitor from being obligated to move forward with remedial action that is expected to be far from optimal or expected to fail. Full documentation of the pilot test including documentation of the specified criteria shall be required in the RAP following the completion of this task.

Task 2.4 - AS/SVE System Installation

The remediation system will be powered by an AS/SVE remedial system or other PADEP approved air injection/soil vapor extraction remediation system. The system will need to be pre-connected, (including appropriate knock out tanks, filters, silencers, etc.), avoiding the need for the client to purchase the equipment, pay for additional system design, layout and construction costs, or provide a building for housing. The vented air would be exhausted through carbon vessels to remove entrained VOCs prior to discharge which will require a determination of permit exemption from PaDEP air quality. In addition, system operations will require an EPA

re-injection authorization in order to permit recycling of the condensate from the system within each respective treatment area.

Task 2.4.1 System Design
This task includes all time and material necessary to design and permit the system, including submittal of individual permit applications to both the PaDEP and the EPA for the Site remediation systems.

Task 2.4.2 Sparge/Vent Point Installation
This task includes all time and material costs to drill and install the sparge/vent points. Point construction pricing should include: PVC piping, PVC well screen, sand, bentonite, etc. Contracted personnel will perform and supervise all AS/SVE point installation work. Due to the specific geology of the site and depth to bedrock, the method of air rotary has been chosen for installation of the AS/SVE points. The field supervisor will visually inspect subsurface materials encountered during drilling, screen cuttings with a photoionization detector (PID), and complete field well construction logs. When encountered, soils will be described using the Unified Soil Classification System. Soil samples will be collected, as applicable, during treatment point installation to supplement Site characterization data and better identify areas of potential concern.

As a general rule, sparge points consist of PVC riser pipe, with a 10-foot screen interval with the top of the screen set to be approximately 10 feet below the approximate normal low water table level. As a general rule, vent points consist of PVC pipe with a screen interval extending from approximately normal low water table to within 5 feet of grade. Expandable plugs should be placed on each sparge and vent line, and manholes are used as necessary to protect the boreholes in traffic areas pending final connection. Specific details of the air sparge/soil vapor extraction points or other PaDEP approved air injection/soil vapor extraction remediation systems should be included with each proposal.

The dedicated AS/SVE points will be connected via solid PVC lines leading back to the remedial equipment compound located on the Site property. The AS/VP's will be individually valved at the remedial equipment compound to permit focusing remedial activity as the project progresses.

In addition, field observations of the hydrocarbon impact (or lack thereof) during each treatment point installation will be used to determine the spacing and location of the successive treatment points (i.e. The areal extent of hydrocarbons in site soils and groundwater will be effectively delineated by visual and olfactory field observations (and will be documented in the AS/SVE installation logs) to the extent that the Consultant is confident of effective treatment and overlapping influence of the proposed AS/SVE treatment point network. The proposed locations will be subject to modification based on a number of factors. These include the location of no-drill zones such as buildings, roads, and utilities (including PA One Call mark outs completed just prior to drilling), observations made as the installation proceeds, and review of the current and historical project database including the items above and other information that becomes available.

Task 2.4.3 Construction of Treatment Point Network
This task includes time and material for trenching and to run piping systems from the treatment points to the remedial equipment compound. The dedicated sparge and vent lines are run buried in trenches from the individual treatment points to the treatment compound. The flow in each line will be controlled by a ball valve at a point where the lines are joined to a manifold for connection to the respective blower. This enables sparge and vent flow to be accurately controlled and permits selected areas of the system to be isolated to focus treatment efforts as necessary. Includes cost of re-paving to restore the Site to its original condition. Areas above trenches in unpaved areas will be returned to their previous condition (or as close as reasonably feasible including re-seeding grassy areas, etc.). Excavated soil will be replaced into the treatment area to the extent possible. Obviously contaminated excavated soil will be disposed of in a manner in compliance with

PaDEP regulations with costs for excavation, sampling, transportation and disposal, if necessary, included in a change order on a time and materials basis.

Task 2.4.4 Compound Construction
This task includes time and material necessary to construct the remedial compound. Includes material necessary for the power drop, electrical service construction, circuit connections, telemetry system, construction of appropriate manifolds for piping connections, construction of fencing and other noise reducing items, and placement and connection of carbon vessels.

The equipment should be installed in compliance with National Electric Code (NEC) requirements. The electrical system will be specified for Class I, Division II, locations where appropriate and will be properly grounded in accordance with NEC requirements. Individual flow control valves and some ancillary equipment not included within the equipment trailer should be cordoned off with a fence. The equipment should be located in a secure compound.

Task 2.4.5 Oversight
This task should include time for principal oversight and meetings with client and PaDEP, throughout the installation process.

Task 2.5 - AS/SVE System Operation (Anticipate a 24 Month Operational Period)

This task includes all operating and monitoring costs for the remediation for a period of twenty-four (24) months. The remedial system will be powered using blowers, which are housed in either a trailer or other temporary building structure (increasing safety and life expectancy of the equipment) during the life of the project. During system operations the contaminant recovery for the vent network will be carefully monitored and individual points may be frequently adjusted to maximize recovery and minimize operating time. Air samples (using Tedlar Air Bags) may be collected to monitor exhaust gas contaminant concentrations and the network should be monitored monthly (more frequently initially), both to document progress and focus treatment efforts.

Quarterly operations reports will be submitted to the Solicitor, the PA USTIF, and the PDEP, which will include data on the amount of contaminant removed, groundwater concentrations, and system configurations. Groundwater will be monitored for the required unleaded gasoline shortlist parameters.

Task 2.5.1 System Start Up
This task includes a fixed price for time and materials for personnel to start up, balance, and optimize the system.

Task 2.5.2 Operating Costs
This task includes time and material costs to maintain system operations for approximately twenty-four (24) months, and includes lease costs for trailer (or other containment structure), carbon vessels, and associated tanks and connectors. This also includes costs for electrical usage, carbon and carbon replacement, and time for staff to perform regular site visits to monitor and reconfigure the system.

Task 2.5.3 Sampling and Analysis during Operations
This task includes fixed price costs for all ongoing sampling of extracted vapor (air bag) concentrations. The consultant should assume at a minimum, bi-monthly visits to monitor and adjust the system during the operations period (and/or at a frequency to ensure adequate monitoring for PaDEP discharge compliance and

sufficient collection of data to evaluate hydrocarbon mass removal rates and produce estimated mass removal calculations)

Task 3.0 – Continued Site Monitoring and Reporting

The Consultant shall continue to conduct quarterly monitoring of the the existing twenty-five (25) Fuel On monitoring wells (Fuel On wells MW1 thru MW12, MW13 Deep, MW14 Deep, MW15 Deep, MW16 thru MW25), the two remaining Goldy's monitoring wells (Goldy's wells MW9, and MW10) and two (2) supply wells (Fire House Supply well and the Site supply well) for a total of 29 samples per sampling event with coordination with B&B so that the quarterly sampling events of both the Site and Butler Township site occur at the same time. Quarterly groundwater results will be included in the Remedial Action Progress Reports for the Site. Demonstration of Attainment sampling will continue for eight consecutive quarters following completion of remedial treatment and shut down of the remedial treatment system. All quarterly groundwater monitoring results will be included in the Remedial Action Completion Report for the Site.

Task 3.1 - Water Level Data Collection

Liquid level data shall be measured and recorded for the well using an electronic water level probe or oil/water interface probe, as appropriate and recorded to the nearest 0.01 feet. Liquid levels shall be collected on the same day with the first and last recording collected as close as practical to ensure the collection of representative static water levels in the wells. The SPL thickness (if any) and volume of standing water in the well column should also be calculated. SPL with accumulations of more than 0.10 feet should be removed by bailing and should be collected in a 55-gallon drum to be staged on-site.

The depth to water data shall be recorded and then used to determine water level elevations such that shallow groundwater flow direction across the Site may be determined. All on and off-site monitoring wells were surveyed after the most recent monitoring well installation event in June 2010. Water level depth data (measured from the top of the casing) shall then be subtracted (with appropriate corrections made for the presence of SPL) from respective casing elevations to determine water level elevations relative to the arbitrary benchmark such that shallow groundwater elevations and groundwater flow direction across the property may be determined. Monitoring wells that contain SPL should be corrected for product thickness when calculating the static water levels in these wells.

Task 3.2 - Quarterly Groundwater Sampling

This task should include fixed costs for quarterly sampling of monitoring wells and the supply wells for during the period of operation of the remedial treatment system and for eight (8) consecutive quarters following shut down of the remedial treatment system. This assumes quarterly sampling of the existing twenty-five (25) Fuel On monitoring wells (Fuel On wells MW1 thru MW12, MW13 Deep, MW14 Deep, MW15 Deep, MW16 thru MW25), the two remaining Goldy's monitoring wells (Goldy's wells MW9, and MW10) and two (2) supply wells (Fire House Supply well and the Site supply well) for a total of 29 samples per sampling event for UST B (regulated unleaded gasoline) new short-list parameters.

The Consultant shall continue quarterly groundwater sampling according to the schedule already established. Wells exhibiting measurable SPL should not be sampled. In the event that the wells do not contain SPL, each well should be sampled to determine the concentration of dissolved unleaded gasoline type hydrocarbons as indicated below.

Groundwater sampling and analysis shall be completed in accordance with generally accepted practices as outlined in the PaDEP Groundwater Monitoring Guidance Manual, dated January 1, 1999 (Document # 383-3000-001). Sampling equipment should be decontaminated prior to sample collection in accordance with generally accepted industry practices. Approximately three times the volume of the standing water column shall be purged from the wells prior to sample collection to ensure a representative sample is collected. Purging should be accomplished by using a bailer, peristaltic pump, or a variable-rate, electric, submersible pump. For low volume purge methods, field parameters such as temperature, pH, specific conductance and dissolved oxygen should be monitored to ensure that the well is adequately purged to draw formation groundwater into the well. At the conclusion of purging, groundwater samples shall be collected as soon as practical. If the well is purged dry, it should generally be allowed to recover to 75%, or for a maximum of 24 hours prior to sampling.

Samples should be collected directly from the bailer. All volatile samples should be collected directly into laboratory supplied bottle-ware and kept cold (<4° C) through delivery to the analytical laboratory. The groundwater samples should be submitted under chain-of-custody documentation protocols set forth by the laboratory, and consistent with PaDEP protocol.

All purge liquids generated during sampling should be treated on-site with a portable GAC treatment system. Analyses will consist of PaDEP required regulated short-list unleaded gasoline parameters: **BTEX, MTBE, Naphthalene, Cumene, 1,2,4-TMB, and 1,3,5-TMB** using the approved laboratory methods capable of reporting to levels which include the Statewide Health Standard (SHS) criteria for each component. The laboratory to be utilized should be identified in the bid package. Upon receipt of the analytical results, the Consultant should forward a copy of the analytical results to ICF and its designated representative(s).

Task 3.3 - Indoor Air Monitoring

During the pilot testing and subsequent estimated twenty-four (24) months of remedial system operations, indoor air quality should be monitored at a minimum of the same frequency as the AS/SVE system monitoring. Monitoring of indoor air with PID readings will be accepted. If indoor air quality monitoring responses are observed on the PID at any time during the contract for the bid to closure process, a change order will be necessary to address the potential for vapor intrusion into the building.

Task 3.4 - Remedial Action Progress Reports

This task includes time and materials necessary for preparation of quarterly Remedial Action Progress Reports (RAPR) to PaDEP detailing groundwater and system operations data. These reports will typically incorporate groundwater trends, mass removal information and possible request for termination of system operations to PADEP. Costs should also include time for principal oversight and meetings with client and PADEP, throughout this task.

Task 4.0 – Preparation and Submittal of a Remedial Action Completion Report

This task includes time and materials necessary for completion of the Remedial Action Completion Report (RACR) in accordance with the guidelines of Pennsylvania Code Title 25, Chapter 245 for submittal to PaDEP.

The SOW as described above shall be performed in accordance with industry standards/practices, and be consistent with the applicable PaDEP laws, regulations, and guidelines (e.g., PaDEP Groundwater Monitoring Guidance Manual and PaDEP Technical Guidance Manual).

Each bidder should carefully review the existing Site information provided in Attachment 1 to this RFB and seek out other appropriate sources of information to develop a cost estimate and schedule leading up to and including preparing the Remedial Action Completion Report. There is no prequalification process for bidding. Therefore, bids that demonstrate an understanding of existing Site information and of standard industry practices will be regarded as responsive to this solicitation.

Task 5.0 - Site Restoration

This task includes costs to abandon Site wells, decommission and remove the remedial system and restore the Site. Wells will be abandoned according to PaDEP requirements. The remedial system network will be abandoned at the manifold and the individual sparge/vent treatment points should also be abandoned in accordance with PaDEP requirements.

E. CONTRACT INFORMATION AND BID INSTRUCTION

The Solicitor wishes to execute a mutually agreeable fixed price contract based on unit prices for labor, equipment, materials, subcontractors/vendors and other direct costs. The prices provided in the bid will remain in effect for the duration of the project (i.e. no escalation clause).
The total fixed cost quoted by the successful bidder will be the maximum amount to be paid by the Solicitor unless a change of scope is authorized and determined to be reasonable, necessary, and appropriate. A draft copy of the proposed fixed price contract is included in **Attachment 3**.

The bidding firm will need to include the following in their proposal:

· A demonstration of the bidders understanding of the objectives of the project and the bidders approach to achieving those objectives efficiently based on the existing Site information provided in this RFB;
· A fixed price cost estimate for work through the completion of the work plan activities;
· Provide a detailed schedule of activities for completing the proposed scope of work inclusive of reasonable assumptions regarding the timing and duration of client reviews (if any) needed to complete the scope of work;
· Indication of whether the bidder accepts or seeks changes to the proposed contract / terms and conditions;
· The bidder's level of insurance; The bidder's proposed unit cost rates for each expected labor category, subcontractors, other direct costs and equipment;
· The bidder's proposed markup on other direct costs and subcontractors (if any);
· Identify and describe the involvement of subcontractors;
· Identify any exceptions, assumptions, or special conditions applicable to scope;
· Cost by task and total costs must be defined within the proposal text and on the cost spreadsheets (**Attachment 2**);
· The bidder's total cost by task consistent with the proposed scope of work identifying all level-of-effort and costing assumptions;
· A statement of qualifications including that of any major subcontractor(s);
· Describe your approach to working with the PaDEP from project inception to submittal of the SCR. Describe how the PaDEP would be involved proactively in the resolution of technical issues and how the PaDEP case team will be kept informed of activities at the Site;
· Describe how the Solicitor and ICF/PAUSTIF will be kept informed as to project progress and developments and how the Solicitor (or designee) will be informed of and participate in evaluating technical issues that may arise during this project;

· Answers to the qualification questions discussed in the RFB;
· Identify the names of the proposed project team for the key project staff, including the proposed Professional Geologist of Record who will be responsible for overseeing the work and applying a professional geologist's seal to the project deliverables; and
· Provide a description of how the proposed work scope will be completed.

In addition, the bidder shall provide its bid using the format identified in this RFB and will provide brief descriptions of each task in the body of the bid document. Also, the successful bidder will complete both the cost summary sheet and the detailed cost sheet included in **Attachment 2**. An electronic version of the detailed cost spreadsheet included in **Attachment 2** (in Microsoft Excel Format) has been provided online. In addition, please provide a time-line that reflects your anticipated time schedule for completion of the work. The detailed cost spreadsheet and the RFB SOW will be will be incorporated as attachments to the Fixed Price Contract (also included in **Attachment 3**). Actual milestone payments will occur after all tasks in the milestone (as documented in Exhibit B and Exhibit C in the Fixed Price Contract) have been successfully completed and results (reports, analytical data package, boring logs, etc.) have been provided to the claimant and USTIF. The scope of work, as described in this RFB, shall be conducted in accordance with industry standards/practices, and consistent with the PaDEP requirements and guidelines. The bidder's work to complete the tasks discussed will be subject to ongoing review by the PAUSTIF or its representatives to assess whether the work was actually completed and the associated incurred costs are reasonable, necessary, and appropriate. In order to facilitate PAUSTIF's review and reimbursement of invoices submitted under this claim, the Solicitor requires that project costs be invoiced by the tasks identified in the bid. The bid responses must clearly and unambiguously accept the provided contract (fixed price contract attached for reference only to ensure the bidder has a clear understanding of the contract expected for execution of the contract). and Please do not modify the contract during the bid process. The selected bidder, at the time of contracting, must complete the milestones in accordance with their bid, clearly cross reference any requested changes, and obtain the claimant's and ICFI/USTIF approval of the changes prior to its final execution.

Each bid package received will be assumed to be good for a period of 120 days after receipt unless otherwise noted. Please note that ICF, USTIF, and AJA will treat the bids as confidential, but that limited general information may be released by the solicitor and/or AJA after the bid selection process is completed. **Submitted bid responses are subject to Pennsylvania's Right-to-Know Law.** In addition for your reference, a copy of the USTIF Competitive Bidding Fact Sheet is provided in **Attachment 4**. The aforementioned guidance document will provide you with additional information regarding the bidding process.

All completed bid responses are due to the specified ICF representative no later than **Friday, October 21, 2011 at 5:00 PM**. Any bid responses not received by this date and time will not be considered. Please note that each bidder will need to submit one (1) hard copy and one (1) electronic copy on CD to the ICF representative at the contact information provided in the package. The claim number ("Bid – Claim #08-082(F)") should be included on the exterior of the bid shipping package. The received bids will be opened and evaluated after the aforementioned deadline expires and the solicitor anticipates contacting the winning bidder within five (5) weeks.

IMPORTANT NOTE: Bidders should note that the RFB specifications do not lessen the responsibility or obligation of the selected bidder to exercise appropriate professional judgment and oversight for all bid work. This includes judgments that must be made on short notice. Any planned or actual adjustments or deviations from the RFB specifications should be reported to ICF and the TPR as soon at it is practical and safe to do so. Bidders should assume that prior authorization will be required to help ensure reimbursement for reasonable necessary adjustment costs (if/as appropriate based on the contract) for adjustments that are not time sensitive. Adjustments made on short notice, or on an emergency basis, must be reported to ICF and the TPR as soon as it is practical to do so.

QUALIFICATION QUESTIONS

In order for proposals to be considered administratively complete, the proposals need to provide answers to the five (5) qualifications and experience questions provided below:

1) Does your company employ the Pennsylvania Licensed Professional Geologist (P.G.) that is designated as the proposed project manager? How many years of experience does this person have?
2) How many Chapter 245 projects are your company currently consultant on record for in the Northeast region of Pennsylvania? Please List.
3) How many Chapter 245 projects have your company and/or the proposed Pennsylvania licensed P.G. worked on in the Northeast region of Pennsylvania during the last five (5) years?
4) How many Chapter 245 projects have your company and/or the Pennsylvania licensed P.G. closed (i.e., obtained relief from liability from the PaDEP) using either the Statewide Health Standards or Site Specific Standards? Please list.
5) Has your company ever walked away from a USTIF Fixed Price Contract or Pay For Performance contract without attaining all of the Milestones? If so, please explain why the contract was not fulfilled?

PAYMENT TERMS

Per Task Payment Requests
Payment requests for work that is fixed Per Task and should be submitted upon completion of the task.

T&M Payment Requests
Payment requests for work that is specified for T&M reimbursement may be submitted periodically as the work is completed. These requests will be subject to standard USTIF reimbursement criteria (including claim limits).

Out of Scope Work Payment Requests
All out of scope work requires written pre-approval by the claimant and USTIF prior to implementation and will be subject to standard USTIF reimbursement criteria (including claim limits).

MANDATORY SITE VISIT

On **Friday, September 16, 2011** the Technical Contact (or designee) will be at the site at 11:00 AM to answer questions and conduct a site tour for a limited number of participants per firm. While not mandatory, AJA respectfully requests that you send an email to ajacurt@epix.net indicating whether your firm expects to attend the meeting and how many representatives from your firm are expected. Please limit the number of representatives to no more than two (2) per bidding firm and be ready to provide a **single email address per firm** to be used for subsequent email correspondence related to this bid opportunity. Please inform the Technical Contact at least five (5) business days in advance of the aforementioned meeting date as to whether your firm will be in attendance. **Any firm that does not attend the Friday, September 16, 2011 mandatory site visit will not be eligible to submit a bid response.**

Questions will be entertained as part of the pre-bid site tour. In order to avoid an excessively slow pace or long meeting time, and depending on the number of attendees, a request may be made for some questions to be submitted in writing at the meeting or documented via subsequent email. Please note that referencing extremely

narrow or unreasonable assumptions, special conditions, and exemptions in a bid response may make the bid response too difficult to evaluate. Consequently, bidders are strongly encouraged to ask clarifying questions sufficient to minimize the number of assumptions, special conditions, and exemptions referenced in the submitted bid response.

SCHEDULE

A hard copy of your Bid should be submitted no later than **Friday, October 21, 2011 at 5:00 PM**. The tasks described in the scope of work for the Site Characterization should assume a completion date six months from the bid award date culminating in submittal of the SSCR Report.

CLOSING

Should your company elect to respond to this RFB Solicitation, one copy of the signed bid package must be provided directly to Linda Crabb - at ICF International (ICF), at the following address: Ms. Linda Crabb-, ICF Consulting, Inc., 4000 Vine Street, Middletown, PA 17057 by the above due date and time. In addition to the one hard copy submittal, the complete bid response must be submitted to ICF (Adobe PDF format) on a compact disk (CD) to be included with the hard copy bid response. No electronic bids submitted via email will be accepted. The bidders completed Cost Summary Sheet is to be included in Excel format as well on the accompanying CD. **The outside of the bid response package must be clearly marked and labeled with "Bid – Claim #2008-082(F)".**

Please note that the **bid response is to be sent only to ICF** who will be responsible for opening the bids and providing copies as appropriate to the Technical Contact and the Solicitor. In order to be considered the signed bid package (hard copy and electronic copy) sent to ICF **must arrive no later than Friday, October 21, 2011 at 5 PM.** Bid responses will be opened after the due date/time elapses.

ATTACHMENTS

Attachment 1 - Previous Environmental Reports and Supporting Documents

- Austin James Associates Supplemental Site Characterization Report dated May 31, 2011
- Chambers Site Characterization Report dated March 2009
- Chambers Addendum to the Site Characterization Report dated October 2009
- Chambers Remedial Action Plan to Michael Benner, PaDEP dated December 31, 2009
- PaDEP Letter dated January 14, 2010
- Chambers Quarterly Monitoring Report dated April 2010
- 2nd Quarter 2010 Lab Data from ALSI

Attachment 2 – Cost Summary Sheets
Attachment 3 – Sample Fixed Price Contract
Attachment 4 – USTIF Competitive Bidding Fact Sheet
Attachment 5 – PaDEP email from Mike Benner dated June 9, 2011

Attachment 1

Previous Environmental Reports
And Supporting Documentation

- Austin James Associates Supplemental Site Characterization Report dated May 31, 2011
- Chambers Site Characterization Report dated March 2009
- Chambers Addendum to the Site Characterization Report dated October 2009
- Chambers Remedial Action Plan to Michael Benner, PaDEP dated December 31, 2009
- PaDEP Letter dated January 14, 2010
- Chambers Quarterly Monitoring Report dated April 2010
- 2nd Quarter 2010 Lab Data from ALSI

Attachment 2

Cost Summary Sheet and Detailed Cost Sheet

Attachment 3

Fixed Price Contract Draft

Attachment 4

Competitive Bidding Fact Sheet

Attachment 5

PaDEP Email Dated June 9, 2011