Proposal for:

ENVIRONMENTAL SUPPORT SERVICES

Technical Proposal

Solicitation No.
RBCA 1509-01

Prepared for:

James Gastineau, Deputy Administrator
Iowa Underground Storage Tank Fund Program
2700 Westown Parkway, Suite 320
West Des Moines, Iowa 50266

Submitted by:

Seneca Companies

The Complete Solution

4140 E 14th Street
Des Moines, IA 50313
DUNS# 113004001

October 27, 2015

Seneca Companies

CORPORATE HEADQUARTERS • DES MOINES,

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The Complete Solution

October 27, 2015

James Gastineau, Issuing Officer
Iowa Underground Storage Tank Fund Board
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

Re: Request for Proposal: Environmental Support Services - RBCA 1509-01

Dear Mr. Gastineau:

Seneca Companies, Inc. has demonstrated proven ability to meet the needs of the in the Iowa Underground Storage Tank (UST) program since 1988. With our staff of nine (9) Iowa Certified Groundwater Professionals (CGWPs), we will continue to demonstrate our abilities to act quickly and efficiently during the execution of the Environmental Support Services Project. Seneca's CGWPs each possess the necessary qualifications and experience to perform the tasks associated with the scope of this Project.

Seneca has maintained a professional relationship with the Department of Natural Resources (DNR) UST Department and their staff for over twenty (20) years. This long-term relationship has worked in a positive manner when processing UST projects and resolving their many associated technical complexities. It is our intent to maintain this high level of professionalism to insure superior program management throughout the completion of the Environmental Support Services Project.

Given our team of professionals, our in-depth LUST project experience, our solid support of expert subcontractors, and our relationships with DNR and the Iowa Underground Storage Tank Fund Board (Board), we are certain that the Board's choice of Seneca will be a mutually beneficial decision. Please feel free to discuss our qualifications with the DNR staff.

Currently we do not have any confidentiality issues to discuss. Should you have any questions please contact me at Seneca Companies: 4140 East 14th Street, Des Moines, IA 50313; Email: dbinning@senecaco.com; Fax: (515) 262-2469; Phone: (515) 261-7705. Thank you for your consideration of Seneca.

Sincerely,
Seneca Companies, Inc.

Darren Binning, CGWP#1899
Vice President

Checklist of Submittals

RFP REFERENCE SECTION	RESPONSE INCLUDED		LOCATION OF RESPONSE
	Yes	No	
3.1.1. Number of Copies of the Bid Proposal	x		1 original and 3 copies
3.1.2. One (1) Public Copy with Confidential Information Excised		x	
3.2.1 Transmittal Letter	x		Page 1
3.2.2 Table of Contents	x		Page 3
3.2.3 Executive Summary	x		Page 4
3.2.4 Technical Specifications	x		Page 5
3.2.5 Vendor Background Information	x		Page 13
3.2.6 Experience	x		Page 14
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3.2.10 Acceptance of Terms and Conditions	x		Page 29
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2. Authorization to Release Information Letter
3. Reference Letters

A. Executive Summary

Seneca Companies Inc. (Seneca) has carefully prepared this Technical Proposal in response to the Request for Proposal (RFP) for the Environmental Support Services (Project) that was released for solicitation on September 9, 2015 by the Iowa Comprehensive Petroleum Underground Storage Tank Fund Board (Board). The purpose of the RFP is for the Board and Department of Natural Resources (DNR) to evaluate proposals from qualified contractors to provide, on an as-needed basis, environmental consulting services. Specifically, to assess underground storage tank (UST) sites which have been issued a No Further Action certificate in accordance with Iowa Code 455B.474 but where the DNR has identified conditions which may present an unreasonable risk to public health and safety or the environment. The work required will vary and may include limited assessments, risk based corrective action (RBCA) type assessments, and corrective action activities. Seneca agrees with the terms and conditions outlined in the RFP and the provisions listed in Section 6.

With over thirty (30) years experience in the petroleum industry and over twenty (20) years in the Iowa UST environmental services, we are uniquely suited to serve the Boards project needs to complete these services. While reviewing this proposal we would ask that you consider the following items:

- Seneca processes more Iowa UST Fund claims than any other consultant.
- Our staff has a positive relationship with the DNR UST regulators and we have remedied many problematic Leaking UST sites through communication and cooperation with DNR Project Managers.
- We offer nine (9) highly qualified Iowa Certified Groundwater Professionals (CGWPs) to process LUST projects, and over fifty (50) other environmental professionals dedicated to UST compliance.

Teamwork and communication with all involved parties (DNR, Board, property owners, and staff) allows for Seneca's high level of performance. By utilizing multiple offices equipped for Iowa LUST RBCA work Seneca will optimize its performance for this Project. This will include primarily our Des Moines Corporate Office and the Davenport Branch Office. The Des Moines Office has a staff of eleven (11) environmental professionals with seven (7) Iowa CGWPs; the Davenport Office has a staff of eight (8) environmental professionals with two (2) CGWPs. Our Environmental Remediation Division in Des Moines is staffed with eight (8) environmental professionals and is managed by Adam Davison M.S. /IA CGWP.

Seneca's motto is the following: "Seneca is a diverse group of companies dedicated to providing unequaled customer service. Seneca is committed to providing quality products and services to meet our customer's needs and the continuous improvement of our services through education, measurement, and mentoring". The motto is upheld by providing the Board with a variety of respected environmental professionals (EIT, PE, PG, Hydrogeologist, Environmental Scientists, and Geologists) with vast background in all aspects of UST work. Seneca will continue to accurately assess and remediate sites, and resourcefully bring them to back to closure.

B. Technical Specifications

Seneca has completed more Iowa UST projects involving these same services than any other firm. Work tasks under this contract may include, but are not limited to: Site Checks, Limited Tier 1, Tier 2, and Tier 3 RBCA Activities, Site Monitoring Activities, Corrective Action Design Development and Implementation, Free Product Assessment and Recovery, Monitoring Well Installation, Repair and Closure Multi-Media Sampling and Analytical Testing Petroleum release 'forensic' analyses, and Record Searches. Each Project assigned will be initially assessed by our Des Moines office to communicate the scope of work and proposed costs. The step-by-step approach Seneca utilizes for each task are discussed below.

Task 1: Site Checks

Site checks are a valuable method to determine if historic or active UST sites are affected by petroleum compounds from a suspected release. By collecting soil and groundwater samples near the UST tank and piping system and analyzing the samples for BTEX constituents for gasoline products and total extractible hydrocarbons (TEH) for heavy end products such as diesel, kerosene, etc., an evaluation of the site condition can be made. Site checks can identify new release(s) if increased soil or groundwater contaminant concentrations are observed that exceed historical values documented during initial State Insurance Fund Checks, Site Cleanup Report (SCR) Assessments, or Tier 1/Tier 2 RCBA Reports. Site checks are completed for insurance purposes, ASTM Phase II due diligence, property acquisitions and other investigative programs. The sequential steps Seneca utilizes are:

- Review site history/available DNR records and reports
- Propose scope of work and secure DNR/Board approval
- Schedule fieldwork/procure permits/site access
- Complete Iowa One-Call utility locate and private locate (as necessary) forty-eight (48) hours prior to any intrusive work
- Mobilize to site, meet with property owner/utility personnel/drilling contractors, as needed
- Install soil borings/monitoring wells from approved scope of work – hand probe used to clear first five (5) feet near possible utilities
- Ascertain if additional borings/wells are necessary and communicate this to Board/DNR for scope and budget updates and approvals
- Collect soil/groundwater samples according to EPA guidance, label, ice, and secure for transportation
- Complete receptor surveys, field screening ,and site map updates
- Project manager reviews all data and compiles Site Check Report with findings and recommendations

Seneca recommends using a direct push drill rig for site checks as it has a lower cost, produces less soil waste, and reduces time onsite. Each Site Check Report will list the proximity of sensitive receptors and identify boring/well placement. Additional actions, as directed by the Board, could include: forensic analysis, receptor updates, laser induced florescence (LIF), and property ownership history.

Task 2: Limited Tier 1, Tier 2, and Tier 3 RBCA Activities

Tier 1

All Tier 1 Assessments will be managed according to IDNR RBCA rules and guidance. Through intrusive sampling, the Tier 1 SCR will determine potential source locations and concentrations for petroleum contaminants of concern and define the presence and locations of sensitive receptors (i.e. surface water bodies, water lines, water wells, bedrock, protected groundwater sources, and confined spaces). Initial areas sampled are based on known spill locations and the site tank and piping history. Since it is assumed that a Tier 1 or Tier 2 SCR has already been completed for the site, previously documented receptors, water line gaskets and material construction will be confirmed. The sequential steps Seneca utilizes are:

- Review site history/available DNR records and reports
- Propose scope of work and secure DNR/Board approval
- Schedule fieldwork/procure permits/site access
- Complete Iowa One-Call utility locate and private locate, if deemed necessary, at least forty-eight (48) hours prior to any intrusive work
- Mobilize to site, meet with property owner/utility personnel/drilling contractors, as needed
- Conduct Potential Receptor Survey for drinking and non-drinking water wells, surface water bodies, basements, and sanitary and storm sewers
- Conduct Explosive Vapor Survey using explosimeter and/or a Photo Ionization Detector (PID) for all basements, foundation cracks, lift stations, storm and sanitary sewer inlets identified and accessible within 500 feet of source location
- Conduct Surface Water Survey and inspect all surface water bodies for sheen within 200 feet of source location
- Complete borings surrounding the USTS (beneath if removed) and install well at boring with highest PID reading
- Complete borings at each pump island, and install well at boring with highest PID reading
- Complete borings along every twenty (20) feet of the product piping, install well at boring with highest PID reading (only install well if PID is greater than the pump island borings)
- Install monitoring well approximately twenty (20) feet down-gradient of maximum PID reading
- Develop all monitoring wells and allow for groundwater recharge to static
- Collect depth to water measurements and well rim/land survey data
- Complete three (3) hydraulic conductivity tests or use previous slug testing, if applicable
- Collect total dissolved solids (TDS) sample, if applicable
- Compile and complete Tier 1 evaluation using Verision 1.1 software and report forms
- Submit Water Supply and Utility notifications (Sanitary Sewer as required)

Soil sampling is typically completed using geoprobe samplers, hollow-stem augers, continuous split-spoon samplers, or hand auguring. Groundwater samples are collected from wells augured and installed in soil borings

where the screen intersects the groundwater surface and contaminant zone. Sampling and analysis is completed using the Iowa Tier 1 Guidance Regulations. Chemicals of concerns are analyzed as specified in Chapter 135, IAC.

To comply with Tier 1 regulations, the appropriate agencies will be contacted for specifics concerning water wells, construction material and burial depth for sewers, waterlines, and basements. If information regarding the material, joints, gaskets, etc. for the water lines are unknown by the City, additional calls will be made to the plumbing company utilized locally, if available. The additional information gathered from these agencies will further define the risk the contamination poses to known receptors, and could provide evidence to abate the risk. Field screening and vertical and horizontal extent of contamination documented with analytical data may be used to propose soil gas, expedited soil over excavation, or document an institutional control.

If collected soil and groundwater concentrations do not exceed the Tier 1 RBCA levels for the respective and relevant receptors, a no action required (NAR) designation will be recommended by Seneca and submitted to DNR and the Board for review and approval. As required, Water Supply Section / Designated County Agent and Utility Notifications depicting soil and groundwater contamination plumes at the site to Tier 1 target levels will be submitted to the appropriate agencies via certified mail. Sanitary Sewer Notifications will only be sent if Tier 1 Enclosed Space target levels are exceed.

For sites reclassified to NAR at Tier 1 SCR, the monitoring wells will be abandoned by an Iowa Certified Well Driller (Dave Phipps or Mark Diehl). Abandonment forms, along with legal description and request for no further action (NFA) certificate will be submitted to the DNR project manager. Once the NFA certificate is sent to the property owner it should be recorded with the appropriate county assessor and then sent back to the DNR.

If pathways fail the Tier 1 SCR, immediate corrective action options can be implemented. This may include: expedited corrective action with removal of receptor(s), soil over excavation, establishing institutional controls, or notification(s) to designated authorities. If these actions cannot bring the site to No Action Required (NAR), a Tier 2 SCR will be proposed.

Tier 2

For sites with failing pathways at Tier 1 and/or where Tier 1 corrective action options do not adequately address the failing pathway(s), a Tier 2 SCR will be implemented. Scope and costs for Tier 2 assessments will be completed only when directed by DNR and the Board. The Tier 2 SCR delineates soil and groundwater contamination through additional assessment, including installation and sampling of soil borings, groundwater monitoring wells, and soil gas wells.

If a Tier 2 is proposed, and Tier 1 drilling activities are not initially completed to identify source locations and concentrations, all required monitoring well and soil boring locations will be proposed to define the contaminant plume(s) to applicable target levels in the direction of known receptors. Contaminant plume

definition is vital in accurately assessing receptor risk and to formulating corrective action options. The sequential steps Seneca utilizes are:

- Tier 1 data collection and review as discussed above
- Contaminant plume definition to applicable target levels
- Calculate site specific hydrogeologic parameters for soil and groundwater
- Enter potential and actual receptors into the RBCA Tier 2 software
- Develop monitoring plan that guards at risk receptors for each chemical of concern and determine applicable site-specific target levels (SSTLs) for each at risk receptor
- Propose soil gas if soil vapor pathway is Low or High risk
    - If the only pathway at risk is soil vapor, Seneca might recommend expedited excavation of a limited soil source area before completion of the Tier 2 report
- Review/assign receptor risk classifications (High Risk, Low Risk or No Risk)
- Compile completed Tier 2 SCR to outline results of the site investigation, risk classification and recommendations for corrective action/Tier 3 alternatives for all at risk receptors

Until the updated Tier 2 software is finalized, additional assessment will be completed for the water lines to assess risk. Seneca reviewed and commented on the newly released Tier 2 guidance and is well versed in updates made to water line requirements. The final report will include the necessary attachments, maps, charts and appendices. The Tier 2 SCR will also include the Tier 1 information for the pathways which passed at Tier 1. Whenever possible this information will be accumulated and reviewed from previous RBCA submittals.

If bedrock is noted before groundwater during the field investigation, the site will be evaluated using the Tier 2 Bedrock software and report in lieu of the Tier 2 software. Additional investigation regarding flow paths, TDS, and hydraulic conductivity will be completed to ascertain whether the bedrock is granular or non-granular. Bedrock Tier assessments also require the completion of a one (1) mile well search for public water supply wells and lithologic cross sections to show the vertical extent in which the bedrock has been impacted and groundwater flow through the aquifer. Additional vapor monitoring wells may be warranted for the groundwater vapor pathway at the bedrock interface. At non-granular bedrock sites, all monitoring wells will be sampled at least annually. For Granular bedrock sites, specific wells will be chosen to guard receptors and sampled annually.

A Tier 2 SCR should be submitted within the 180 day timeframe unless prior approval is given by the DNR. A cover letter will accompany each report documenting the pathways and receptors at risk, and the corrective action recommendations.

Tier 3

For sites that are classified as High Risk following the completion of a Tier 2 Site Assessment, site specific Tier 3 strategies will be considered and recommended via a Tier 3 Work Plan, when applicable. The utilization of a Tier

3 Assessment is appropriate to reclassify or monitor a receptor in situations where the Tier 2 Assessment software cannot adequately assess receptor risk. Evaluations relating to specific parameter values for Θ_T, ρ_B and f_{oc} can be overestimated and therefore, falsely identify risk. In addition to parameter values, the Tier 2 software program can only evaluate a two dimensional (2-D) model and receptor depths at some sites require a three dimensional (3-D) model for accurate risk assessment.

Seneca has completed, or is currently conducting, Tier 3 Assessments at several sites (9LTJ29, 9LTJ25, 8LTL57, 9LTO90, 9LTI98, 7LTW87, and 7LTR93), utilizing the following methods: Stable plume trend analysis (source or throughout the contaminant mass), submerged soil contaminant plumes, tritium sampling, structural analysis of drinking water wells, and drinking water well pump test analysis. Throughout the completion of a Tier 3, the Work Plan will be periodically evaluated to ensure that the reclassification strategies remain applicable.

Task 3: Site Monitoring Report

At the direction of the DNR, low and high risk sites require annual Site Monitoring Reports (SMRs). SMRs typically involve groundwater sampling at well locations designated in the Tier 2 SCR Monitoring Plan. Water line and water well receptors within the actual plume are also required to be sampled annually. Water lines are purged by calculating the volume of water between the sample collection point and the section of line that is assumed to be impacted. Soil gas sampling and soil sampling for reclassifying receptors may also occur. Soil gas blanks and required stabilization times will be utilized as discussed in the 2015 updated Tier guidance. Review of the analytical data, specifically steady and declining trends and the site specific target levels is completed annually. If plume stability and/or low level concentration fluctuations can be documented, reclassification of the site will be requested and documentation will be provided. Updated receptor surveys are completed, and any necessary removal or addition of receptors is documented. The SMR is drafted (using version 2.51 or 3.0 as directed) and recommendations for strategies for reclassification are submitted to the DNR for review.

Task 4: Corrective Action Design Development and Implementation

Each Corrective Action Design Report (CADR) is completed in accordance with Chapter 567--135.12(455B). Each CADR carefully considers all assessment data, including depth to water, soil type, contaminant distribution and variety, groundwater velocity, and other site-specific data. Pilot tests may be completed to test the applicability and potential effectiveness of a particular remedial method. Once the pilot test data is assessed a conceptual design of the remediation plan is documented in the CADR and submitted for review and approval to the IDNR. Remedial actions include implementing soil over excavation, soil vapor extraction (SVE), air sparge (AS), total fluids extraction (TFE), Multi-Phase Extraction (MPE), various injection technologies, enhanced fluids recovery (EFR) and groundwater pump and treat methods.

Excavation of a soil source(s) will be evaluated first for corrective action as it is the best proven corrective action method for petroleum contamination mitigation. This method has been successfully implemented at hundreds of petroleum contaminated sites throughout Iowa where petroleum contaminants are either eliminated altogether or reduced to acceptable levels. Schedule and costs for soil excavation activities during the

Environmental Support Services will be completed only when directed by the DNR and Board and will be completed in accordance with Chapter 567-135.12(11).

Soil excavation is performed by mobilizing an excavator or backhoe to the project site to excavate the prescribed area of concern to depths determined by field screening results and Tier 1 or 2 measured soil contaminant concentrations. Specific care is taken to determine if groundwater infiltration will occur and what additional costs would be incurred for compaction during backfilling (rock, fabric liners) and additional requirements to remove and/or discharge the groundwater. Field screening locations are based upon visual and olfactory observations including discoloration and may dictate the most impacted depths. Samples are screened using a PID to determine which samples require submittal to the laboratory. At a minimum, samples will be submitted to the laboratory at a frequency of one (1) soil sample per 400 square feet of base or sidewall with a minimum of one (1) sample per wall or base. During the excavation process, soils are segregated based on field screening results. Clean soils may be utilized as backfill material. Soils are transported from the site to a landfarm or a landfill, whichever disposal method is appropriate based on soil type and weather conditions. A report documenting excavation activities is submitted to the IDNR within forty-five (45) days of the completed excavation. Seneca has implemented soil excavation at many sites in Iowa in the last three (3) years to reclassify the sites to No Action Required (NAR), including LUST #: 9LTC56, 9LTO80, 9LTM42, 8LTL57, 7LTJ93, 9LTP66, 7LTG72, 7LTC78, 9LTC35, 9LTQ61, 8LTH18, 9LTP68, 9LTO31, 9LTQ36, and 9LTQ48.

Seneca has superior services for design, construction and maintenance of remediation systems to address petroleum contaminated sites, and is the leading provider of these services in the state of Iowa. Adam Davison leads Seneca's remediation staff in design and operation of remediation systems. Each system is designed by our team of engineers, technicians, and construction specialists to fit the remediation needs of each client and their specific site. Our experience in building and actively operating over 1,250 remediation systems is used in every design to create effective solutions for our clients. Seneca currently operates and maintains over ten (10) active cleanup systems in Iowa, including soil vapor extraction (SVE), air sparge (AS), total fluids extraction (TFE), multi-phase extraction (MPE), enhanced fluids recovery (EFR) and groundwater pump and treat.

Seneca's in-house remediation shop is state of the art and is an Underwriters Laboratory certified facility. Seneca sources a complete line of remediation equipment including: low profile air strippers, blowers, oil/water separators, carbon vessels, compressors, electrical controls, remote monitors, flow meters, filters and pumps that can be integrated into our custom designed systems for soil and groundwater remediation and free phase product removal. Using our pilot testing trailers or liquid ring vacuum trucks, our field geologists provide accurate and cost effective pilot testing services. Seneca's experienced staff of electricians, electronics technicians and control specialists can provide detailed designs of control systems and the control panel design and layout. All systems are fully tested and quality controlled at our facility prior to shipment to avoid costly field delays. Seneca also completes installation and start-up activities for our systems as well as operation and maintenance for all of our remediation systems.

Other remedial methods Seneca has employed at LUST sites include carbon trap and treat, BIOX, HRC, Pursulfate, and ORC injections, bioaugmentation and phytoremediation. All proper permitting with the EPA and DNR is completed prior to beginning activities. Mulit-meter sampling and background analytical data on microbial count and nitrates, sulfates, and iron aids in determination of which injection would be most effective on reducing contamination levels on sites where utilities, UST systems, or sand/silt lithologies do not allow for excavation. Continued education on types of injection and effectiveness of ongoing sites allows for Seneca to provide the Board comprehensive knowledge of the appropriate method, application rates, and monitoring necessary to successfully remediate sites.

Task 5: Free Product Assessment and Recovery

Seneca's environmental technicians are trained to monitor and identify the presence of free phase petroleum product in all monitoring wells. Seneca uses electronic oil/water interface probes capable of detecting product floating on water to a thickness of 0.01 feet or greater in thickness. Seneca environmental technicians, project managers and engineers are also trained in conducting free product recovery rate measurements, evaluations and proper application of various recovery methods (hand bailing, oil only absorbent socks, passive filter bailers, oil only skimmer pumps, vacuum enhanced recovery, excavation, etc.) and monitoring frequency. Seneca has completed a multitude of Free Product Assessment reports meeting the DNR's assessment requirements that include: free product type determination, aerial extent, recovery rate, thickness and recommendation for future recovery methods and frequency. The basic method utilized is taken from the USEPA document, "How to Effectively Recover Free Product and Leaking Underground Storage Tank Sites".

Seneca completes post assessment free product reports in a timely manner in accordance with the recommendation and requirements of DNR. Once the free product thickness diminishes to less than 0.1 gallons per month for one (1) year, a request to cease reporting is submitted and an additional year of monitoring takes place. If less than 0.02 feet of free product is noted during the year of monitoring, Seneca will check all wells onsite and recommend the cessation of all free product activities.

Task 6: Monitoring Well Installation, Repair, and Closure

Seneca Environmental Services has installed thousands of groundwater monitoring wells to perform environmental investigations at UST sites. Seneca has two (2) certified water well contractors (Mark Diehl, License #2190, and David Phipps, License #7660) who are experts in the design, installation, repair, and closure of groundwater monitoring wells. The monitoring wells are installed utilized a hand auger or hollow stem auger. Soils are screened on one foot intervals via PID to determine where the contamination is located, and are sent to the laboratory as proposed. The screen of the monitoring well should be located within the soil contaminated zone and encompass the vadose zone. A sand packer is utilized around the screen and hydrated bentonite is utilized around the riser between the screen and the ground surface. Once installed the well is developed and surveyed. All boring logs and monitoring well records are logged and filed with the DNR.

Wells are repaired, as needed, by a Seneca technician when damage is noted. When monitoring wells are no longer needed for monitoring purposes, Seneca's certified water well contractors plug them in accordance with the Iowa Administrative Code. The Well Abandonment forms are filled out, signed, and sent to the Iowa DNR Water Supply Section and/or appropriate County.

Task 7: Multimedia Sampling and Analytical Testing

Seneca uses state of the art investigative equipment for all of our investigations and report preparation. For our environmental investigations we use: disposal bailers, dedicated PVC and stainless steel bailers; Flame Ionization Detectors (FID); Solinst water level indicators and oil/water interface probes; Multi-parameter Meters (pH, CO2, conductivity, ORP, temp, DO); Geotech data loggers; hand augers; MiniRAE photo-ionization detection (PID) meters; open water grab samplers; peristaltic pumps; soil vapor pumps; summa canisters; and field filtration pumps. All pumps and meters undergo maintenance by licensed vendor to ensure accuracy of readings. Standard operating procedures are followed for calibration, utilization, and decontamination of all equipment.

All sampling is completed in accordance with EPA guidelines. Samples are picked up daily at Seneca by either TestAmerica Inc. or Keystone Laboratories Inc. Both laboratories are licensed by the State and offer exceptional services that are both time and cost efficient. Chromatographs are evaluated to ensure accuracy and are provided with each report.

Task 8: Petroleum release 'forensic' analysis

It is a common occurrence at LUST sites to have issues associated with multiple releases and of potentially different products. This raises questions regarding RP status and culpability and the necessary funding to assess and clean up a property. Seneca historically used Worldwide Geosciences, based out of Houston, TX for forensic analysis at several LUST sites in Iowa (8LTC55, 8LTB11, 7LTN71, 9LTL57). Currently Seneca utilizes Torkelson Geochemistry, Inc. located at 2528 South Columbia Place, Tulsa, OK.

Forensic analysis methods include lead analysis of product and groundwater, historical indicator parameter concentration assays, petroleum isomer speciation and comparative analysis of company/product chromatograms, age speciation using historical chromatograms, anti-knock additive speciation and ratios, oxygenate speciation and determination, benzene/xylene(s) ratio comparative analysis, and poly-nuclear aromatic (PNA) speciation. Using these methods, Seneca can establish dates and types of product releases for responsible party determination and insurance funding decisions. Since these issue are prevalent for closed site assessment(s), each site will be evaluated to determine if forensic analysis is warranted and a sampling plan detailing the specific approach for the site will be presented. Once the analysis results are returned, Seneca will engage in discussions with the laboratory chemists to confirm historical spill and timeline determinations.

Task 9: Record Searches

Seneca has completed several hundred Phase I ESA records searches as part of all appropriate inquiries (AAI) procedures as mandated by ASTM 2013. Records searches are invaluable to determine Responsible Party (RP)

status, current and previous insurance carriers, and ownership history. All historical data found at the IDNR records department will be requested via email and reviewed by the project manager prior to development of a scope of work.

C. Vendor Background Information

Seneca Companies, Inc. (Seneca), a privately owned company, was founded by Chris Risewick in 1972, with a vision to deliver real value to customers in the petroleum industry through supplying quality equipment, innovative service and dependable construction of fueling sites. With nearly four decades of proven experience, the Seneca team has continued this vision, expanding capabilities and evolving into a unique, multi-faceted service provider. Headquartered in Des Moines, Iowa, Seneca currently employs over 300 personnel and has additional branch offices located throughout the Midwest, Southern and Mountain Regions. Our branches are located in: Des Moines, IA; Davenport, IA; Kansas City, MO; Oreana, IL; South Sioux City, NE; Baldwyn, MS; Denver, CO; Tulsa, OK; Grand Island, NE; Creston, IA and Nashville, TN.

Seneca's headquarters are at 4140 East 14th Street, Des Moines, Iowa, 50313. The phone number is (800) 369-5500 and the fax is (515) 262-2469. The other location related to the performance under the terms of this RFP is Seneca's Davenport Branch office located at 7241 Gaines Street Davenport, Iowa 52806. The phone number is (800) 728-6900 and the fax is (563) 332-9465.

Seneca Companies is made up of several unique divisions all working together to serve an array of industries and customer's needs. Each unit consists of an experienced and knowledgeable team, focused on delivering prompt, full-service specialty solutions. It is this diversity that ensures we deliver "***The Complete Solution***" to customers. Seneca's Divisions are Fuel Systems, Environmental Services, Finishing Systems, Construction Management, and Remediation Systems and Process Controls.

Seneca's Environmental Services Division was established in 1988 and provides consulting, due diligence, compliance and permitting services for an array of Clients through the Midwest and Mountain Regions. Seneca offers a diverse, highly qualified staff of professionals with credentials critical to professional performance during the Project: Professional Engineers (PE), certified Professional Geologists (PG), Iowa Certified Groundwater Professionals (CGWPs), Certified UST removers, asbestos inspectors, CAD operators, technicians, mechanics, and master electricians. Our professional registration and certification requirements keep us up-to-date with new and innovative environmental technological developments and current environmental regulations. Each of our professional and technical staff members are required to have an annual health screening and drug testing and have completed the 40-Hour Occupational Safety and Hazard Association (OSHA) hazardous material safety course with annual eight-hour refresher classes.

Seneca's representative for all contractual, technical, scheduling and other arrangements in regards to this RFP is Leslie Nagel, Consulting Manager. Ms. Nagel is based out of Seneca Companies' Corporate Headquarters at

4140 East 14th Street in Des Moines, Iowa, 50313. Ms. Nagel can be reached by phone at (515) 261-7717 and by email at lnagel@senecaco.com.

Our insurance coverage meets and exceeds all portions of each insurance requirement listed in Section 6.3 of the RFP. This insurance will be maintained throughout the duration of the Project and will be presented to the Administrator for approval prior to commencement of any Project Tasks. The company has available to them through First National Bank a $16 million operating line of credit with total current outstandings of approximately $6.8 million.

Seneca Companies is registered with the Iowa Department of Administrative Services and the Iowa Secretary of State. It is a corporation incorporated in the State of Iowa. McGladrey & Pullen, LLP conducts Seneca's yearly audits. McGladrey's office location is 400 Locust St., Suite 640 in Des Moines, IA 50309.

D. Experience

With over thirty (30) years' experience in the petroleum industry and over twenty (20) years in the Iowa UST environmental services, we are uniquely suited to serve the Boards project needs to complete these services. Seneca's nine-member CGWP staff and engineers engage in Environmental Professionals of Iowa (EPI) seminars, IRTC training sessions, as well as many other programs critical for maintaining their mandatory professional Continuing Educational Units (CEUs). Through our professional development program, Seneca encourages and finances each employee to pursue higher education in fields relevant to our services and expand further in our comprehension of knowledge of principals regarding USTs - environmental legislation; petroleum toxicology; investigative and date collection methods; Iowa's RBCA processes; in-situ and free product recovery systems; corrective action (CADR) principals and thorough understanding of communication methods specific to the UST industry. All key CGWPs listed for this project have taken courses in hydrogeology, mentored under civil engineer Jim Ramm, and have a minimum of ten years of environmental consulting background. It is through our training and mentoring that we will provide the best consultants for the Iowa UST program and the highest value of consulting services to the Project.

In the past six (6) years Seneca has won contracts for the American Recovery and Reinvestment Act (ARRA) and LUST Trust Fund Project through the DNR and the Environmental Support Services Contract RBCA 0908-01 and State of Iowa Closure Contract USTCA 1104-01 through the Board. Under these contracts Seneca has completed over-excavations, three (3) types of chemical injection, Tier assessment, Site Checks, Site Monitoring Reports, Free product Assessment/Recovery/Reporting, and Well Closure. Monthly updates area submitted that include: Project information, status of field and reporting activities, budgets, and next report submittal date. Seneca was able to classify over forty (40) sites to NAR to date with these contracts.

Seneca has worked closely with the Board and DNR to complete 100's of LUST projects throughout the state. Historically, Seneca's work with the Iowa Underground Storage Tank Financial Responsibility Program has been

completed without any significant delays or extensions. Budgets are discussed and pre-approved before starting projects, and any changes in scope are discussed via phone or email during project completion to ensure that the invoicing process goes smoothly. Seneca strives to keep our client's projects moving toward a NAR classification using the most time and cost efficient means possible and retain the confidence and respect of their clients by providing quality assessments and recommendations for site closure. Please see Letters of Reference from our clients in Attachment 3. Below are examples of Seneca's expertise on LUST projects.

Reference Project – Former American Oil, 607 6th Street, Corning, Iowa.
LUST #9LTQ14 / Registration #7910649
Client Name: Iowa Underground Storage Tank Fund – State of Iowa Closure Contract USTCA 1104-01
Contact Name and Phone #: James Gastineau, (515) 440-7016

Ms. Nagel is the lead project manager for emergency response activities involving tank closure, site assessment, soil over excavation, utility replacement, and on-going site monitoring. On January 24, 2013 the DNR received a complaint of petroleum vapors in the storm sewer near the intersection of Nodaway Street and 6th Street in Corning, Iowa. On February 14, 2013 Seneca was contracted by the Board, James Gastineau, through the State of Iowa Closure Contract to complete a soil boring at the property to verify the presence of contamination. Iowa One Call was contacted with an emergency response locate and the soil boring was hand augured by Andrew Carver (Seneca) between the storm sewer and the assumed location of the USTs. A PID reading of 1,329 ppm was observed at nine (9) feet below ground surface. The soil sample was analyzed by TestAmerica Inc. for Iowa methods OA1 and OA2, MTBE, and RCRA 8 metals. Seneca also completed a vapor survey of the storm sewers in the vicinity utilizing a MiniRAE 2000 PID and LEL. A surface water sample was taken to verify the low level contamination in the creek.

Access agreements were signed by the City and Property owner, and the tank closure with excavation proposal was accepted on February 18, 2013. Seneca and American Backhoe Company (ABC) arrived on site to locate and remove the USTs and complete soil excavation activities on February 18, 2013. Tom Collins, DNR UST section, was notified regarding the tank closure prior to the four (4) USTs being removed from the west parking lot of the Parish Center. Seneca Waste Solutions triple rinsed the tanks prior to disposal. Seneca worked with the DNR field office, Keith Wilken, to permit an emergency response landfarm near the subject property. Soil excavation of 358 cubic yards (CY) took place on February 19, 2013; however, excavation was halted due to inclement weather. Monthly vapor checks were completed by Dave Phipps (Seneca) throughout 2013. Vapors were noted in May and additional soil excavation activities, overseen by Andrew Carver (Seneca) were completed in June and July of 2013 for a total of 1,225 CY. Storm Sewer replacement costs were approved on July 19, 2013 and replacement occurred during the excavation activities the week of July 22, 2013. All proposed budgets were maintained except for additional soil samples required with expanded excavation, and City requirements for curb replacement amounting to approximately $4,000. The costs were discussed with the Client prior to completion of activities. An excavation and tank closure report documenting corrective action activities was submitted to the DNR on August 21, 2013.

The DNR Project Manager, Verne Schrunk, requested a Tier 1 soil and groundwater assessment on July 18, 2013; costs for the assessment were approved on July 19, 2013; and drilling activities were completed by Saberprobe LLC under the supervision of Seneca on July 30, 2013. As requested by the DNR, groundwater sampling was completed on August 20, 2013 and again in March 2014 (six month stabilization). A Tier 2 report was submitted on May 5, 2014 and approved by the DNR on May 22, 2014 as Low Risk for Soil Vapor to Potential Confined Space. Static water level checks are completed monthly by Dave Phipps (Seneca) during the winter months to attempt soil gas sampling at the soil source. Site Monitoring Reports are submitted annually in the 1st quarter. Additional soil gas sampling is necessary before reclassification can be requested. All proposed budgets were maintained throughout the assessment and monitoring phases of the project. Approximately $183,000 has been spent to date on the project. The site is expected to be reclassified to No Action Required in 1st quarter of 2016.

List of Subcontractors:
American Backhoe Company – Excavation and Construction
Saberprobe, LLC - Drilling
Seneca Waste Solutions – Tank Cleaning
TestAmercia, Inc. – Laboratory analysis
Randall Westphal – Landfarm owner

Reference Project 2 – Former Fast Trak, 108 West Union, Edgewood, IA.
LUST #8LTF97 / Registration #8606219
Client Name: DTM Inc.
Contact Name and Phone #: Dawn Schelsselman, (563) 245-2852

Mr. Mark Diehl is the lead project manager for a Leaking Underground Storage Tank site involving, soil plume definition, soil over excavation, utility replacement, and site monitoring. On January 2, 2013 the DNR submitted a letter that corrective action was progressing slowly and they were not satisfied. The consulting firm was dropped and Mark Diehl, Seneca, became the certified groundwater professional for the above referenced site in January 2013.

Access agreements were signed by the City and Property owner in January 2013. In February 2013 Mark Diehl (Seneca) met with the City of Edgewood Superintendent Mike Pape to discuss soil boring locations and the potential need for soil excavation and water line replacement. Soil Plume delineation was completed via direct push technology by Soil Essentials, Inc. on May 2, 2013 under the supervision of Todd Felderman. Based on the findings Seneca recommended extending the 2011 soil excavation into the city street and removing seventy (70) linear feet of a high risk water line receptor. Water line engineering was designed and permitted by WHKS Engineers in fall of 2013. The excavation was scheduled to proceed in spring of 2014, after the ground thawed.

Seneca received excavation bids from multiple contractors and cost estimates from the Dubuque Metropolitan Area Solid Waste Agency (Dubuque Landfill) for budget preparation. Between May 13 and May 14, 2014 Rich Vogel (Seneca) and Gansen Excavating excavated 303 cubic yards of soil exceeding IDNR's corrective action levels for sanitary sewers and water line receptors. The top five to eight feet of the soils contained significant amounts of domestic garbage, glass and plastic bottles. To keep costs of the excavation to a minimum, deeper native soils free of rock and debris were hauled to a Seneca permitted landfarm site in Edgewood, IA. The remaining soil was hauled to the Dubuque County Landfill. During the excavation Gansen Excavating and the City of Edgewood replaced seventy (70) linear feet of water main and gaskets. Soil screening and sampling were completed in accordance to Chapter 135 requirements and sent to TestAmerica, Inc. for laboratory analysis. An Over Excavation Report documenting corrective action activities and a Tier 2 Soil Revisions Report were submitted to the IDNR on June 5, 2014. All proposed budgets and time schedules were maintained during this process.

A budget was prepared on August 25 with approval received on August 27, 2015 for the final SMR. The appropriate stabilization period after the excavation was allowed before soil gas sampling (initial and confirmation) was completed to reclassify the remaining soil vapor pathways. An SMR requesting reclassification of the site to No Action Required was submitted on January 12, 2015. The monitoring wells were abandoned by Mark Diehl on June 10, 2015, following receipt of the DNR's approval of reclassification to No Action Required. A total of approximately $113,430.00 was spent by Seneca on the project.

List of Subcontractors:
Soil Essentials, Inc. – Drilling
Test America, Inc. – Laboratory analysis
Gansen Excavating, Zwingle, IA – Excavation and water line replacement
City of Edgewood
Dan Hingtge, WHKS Engineering – Water line Engineering
Micheal Sperfslage – Landfarm Owner

Reference Project 3 – Overland Truck Plaza, 65040 Boston Road, Atlantic, Iowa
LUST# 9LTH50 / Registration# 8606755
Client Name: Cass County
Contact Name and Phone #: Duane McFadden, (712) 249-0939

Mr. Adam Davison is the lead project manager for a Leaking Underground Storage Tank site involving free product recovery, pilot testing, CADR, soil over excavation, and remediation. Currently this site is classified No Action Required with continued Free Product Recovery. Fuels previously stored onsite included gasoline, diesel, and waste oil. Site lithology consists of sandy and silty clays to depths of 20 to 37 feet below ground surface (bgs), which is then underlain by sand. Static water levels typically range between 27 to 30 feet bgs with

groundwater flow primarily to the northeast. In an effort to enhance free product recovery, a series of tests and reports have been completed including:

- Laser-Induced Fluorescence (LIF) study (March 18, 2013 LIF report).
- Vacuum Extraction and Groundwater Pumping Test (May 22, 2013 Pilot Test Work Plan & November 8, 2013 Soil Vapor Extraction and Pumping Test report).
- Corrective Action Design Report (CADR) (January 31, 2014 report)
- CADR letter response (April 8, 2015 letter)

The studies and reports identified areas of contamination that existed in the shallow silts and clays as well as the deeper sands. The CADR report outlined three over excavations combined with the installation of a Soil Vapor Extraction (SVE) and Air Sparge (AS) remediation system.

The over excavation and remediation installation activities were completed during the weeks of June 2, June 9, and June 16, 2014. Excavations were completed as outlined in the CADR with a total of 1,509 cubic yards of soil removed and land farmed by American Backhoe Company under the supervision of Dave Phipps (Seneca). The over excavation areas were backfilled with clean sand material before resurfacing. A total of 572 cubic yards of soil were also able to be stock piled and reused for fill. Piping was run from the proposed remediation system to each wellhead and each horizontal SVE line. The excavation area was capped and compacted with a three (3) foot thick clay cap prior to gravelling. Vertical SVE extraction wells and AS wells were drilled within the manways the week of October 6, 2014 by Rewerts Well Company, overseen by David Phipps (Seneca). Estimated approved budget was $130,582.06 and total costs billed were $124,140.82.

The soil vapor extraction (SVE) / air sparge (AS) system was built as outlined in the CADR. A cost effective change was made to convert the electrical panel to relay logic rather than a PLC based alarm system. Given the nature of SVE/AS systems the relay logic alarms will provided the needed protection while reducing costs. Atlantic Municipal Utilities (AMU) were utilized to provide 3-phase 208V power to the site. Power lines on the western edge of property parallel to HWY-71 were used for the power service and brought over to a new power pole set adjacent to the remediation system. The system was prefabrication at Seneca's design/build shop located in Des Moines, loaded with a portable crane, and hauled to the site via semi-trailer. Seneca technicians assisted in the unloading of the system as well as connecting all extraction piping, discharge stack, filters, electrical mast, and ground rods. Estimated approved budget for the system was for $217,238.75 and costs billed were $196,718.

Following installation of the remediation system, an onsite electrical inspection was conducted by a State of Iowa inspector. The system passed the inspection and Seneca was able to perform startup on June 3, 2015. Remediation start up monitoring was conducted on June 3 and June 8, 2015 by David Phipps (Seneca) and as outlined in the CADR, the system was set to run on SVE only for the first two to three months. The air sparge system was operated for a brief period of time during the initial startup to ensure functionality. It was started on August 27, 2015 by Adam Davison and David Phipps (Seneca). As of September 15, 2015 the SVE/AS

remediation system has operated for 1,995 and 456 hours respectively with a cumulative mass removal of 5,760 pounds of hydrocarbons. Vapor readings remain greater than 200 ppmv indicating significant contaminant removal. Invoicing for start-up and ongoing operation and maintenance have been within the approved proposed costs.

Free product levels continue to be monitored at MW2, MW3, and MW11 and reported on a quarterly basis with the most recent report submitted on October 12, 2015. These monitoring wells will continue to be monitored on a monthly basis during the O&M events. Free product has not been detected since May 2015.

List of Subcontractors:
Rewerts Well Company – Drilling
TestAmerica, Inc. – Analytical testing
Matrix Environmental – LIF
American Backhoe Company – Excavation and Construction
Seneca Waste Solutions – Water Removal – Pilot Study
Atlantic Municipal Utilities – Electric

E. Personnel and Equipment

Seneca retains an unparalleled staff of seasoned environmental professionals that have many years of experience dealing with LUST program regulations and project funding. By utilizing multiple offices equipped for Iowa LUST RBCA work Seneca will optimize its performance for this Project. This will include primarily our Des Moines Corporate Office and the Davenport Branch Office. The Des Moines Office has a staff of eleven (11) environmental professionals with seven (7) Iowa CGWPs; the Davenport Office has a staff of eight (8) environmental professionals with two (2) CGWPs. Our Environmental Remediation Division in Des Moines is staffed with eight (8) environmental professionals and is managed by Adam Davison M.S. /IA CGWP.

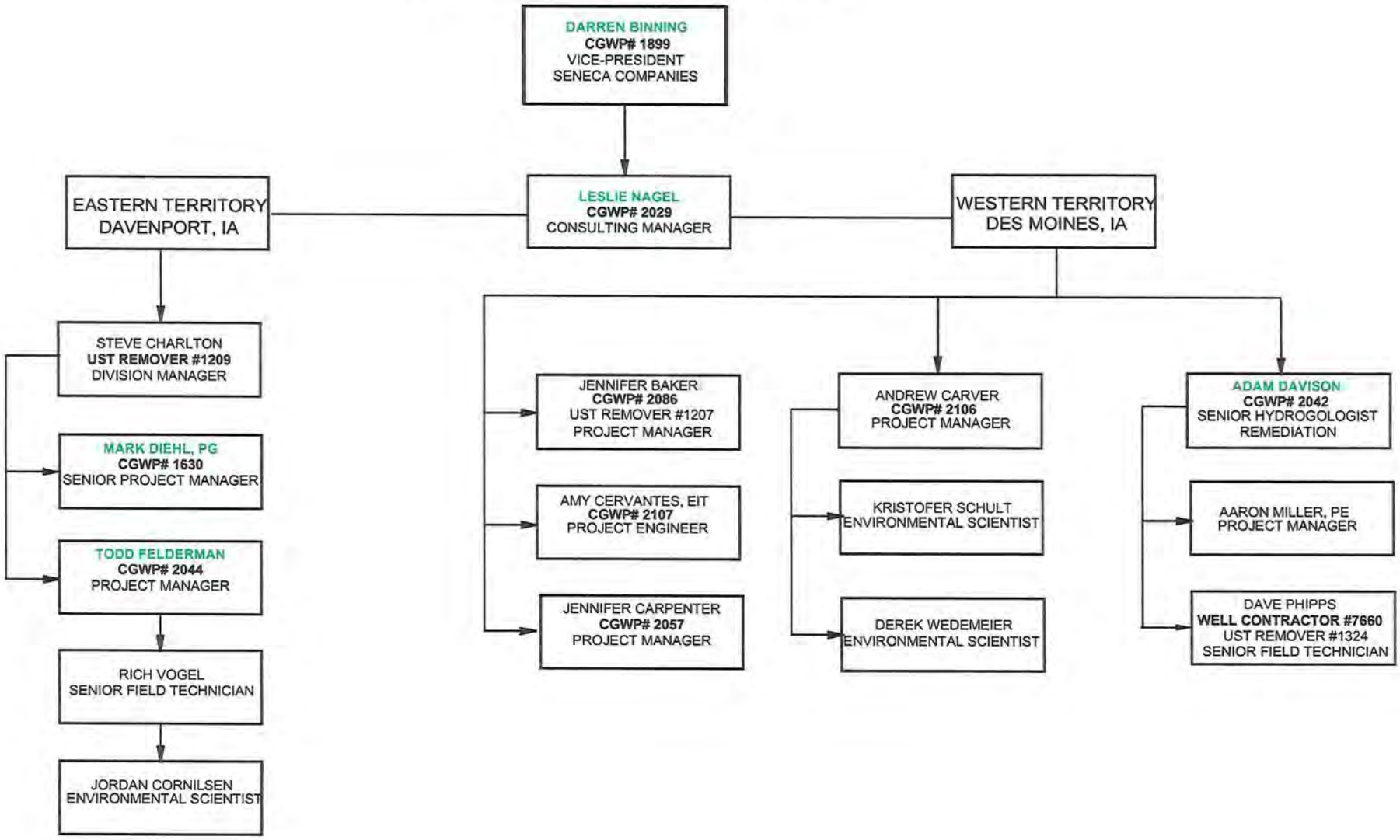
Table 1 summarizes the experience and qualifications of Seneca Environmental employees and their respective experience. The employees represented in GREEN will be assigned and committed to the project. In the event that additional employees are needed, the vast experience of Seneca's staff allows for additional involvement of those personnel listed in Table 1. The Health and Safety section of the table indicates the vast amount of OSHA certifications, as well as additional safety training, professional license and registrations each Seneca employee has completed. Table 2 provides and organizational chart of who could provide services under the RFP.

An Organizational Chart, Key Staff & Experience Table, and Resumes of Key Personnel follows:

SENECA COMPANIES
KEY STAFF AND DIRECT EXPERIENCE
TABLE 1

			Experience			Project Type Experience													Health and Safety					
Key Personnel	Position	Branch	1-3 Years	3-10 Years	10+ Years	Phase I ESAs	Phase II ESAs	Vapor Encroachment Screens	Underground Storage Tank (UST) Closures	Corrective Action Design Reports (CADRs)	RBCA Tier 1, Tier 2 Reports	Insurance Investigations	RBCA Tier1 Tier 2 Fieldwork	Site Monitioring Reports (SMR)	Tier 3 Reports	UST Testing Services	Landfarming & Dewatering	Hazardous Waste Assessment & Disposal	40-Hour OSHA	8-Hour Refresher	CPR/First Aid	Highest PPE Experience	Respirator Fit Test	Licenses/Registrations/CDL, etc.
Darren Binning	Vice President	All			♦	X	X	X	X	X	X	X	X	X	X	X	X	X	♦	♦	♦	B	♦	IA Cert. Groundwater Professional, DOT Hazardous Materials Training
Jennifer Carpenter	UST Testing & Compliance Manager	All			♦				X		X	X	X	X	X	X	X	X	♦	♦	♦	C	♦	Iowa Cert. Groundwater Professional, Rail Safe Certified
Matt Puffer	Human Resources Director	All			♦														♦	♦	♦	B	♦	
Jennifer Baker	Project Manager	Des Moines			♦	X	X	X	X		X	X	X	X	X		X		♦	♦	♦	D		IA Cert. Groundwater Professional, IA licensed UST remover
Leslie Nagel	Consulting Manager / Geologist	Des Moines			♦		X	X	X	X	X	X	X	X	X		X		♦	♦	♦	C	♦	I A Cert Groundwater Professional, DOT Hazardous Materials Training, Rail Safe Certified, Listed Consultant with CO OPS
Adam Davison	Remediation Manager/Hydrogeologist	Des Moines			♦				X	X	X	X	X	X	X		X	X	♦	♦		C	♦	IA Cert. Groundwater Professional 2042, CO Cert. Petroleum Storage Tank Committee Listed Consultant 6317
Amy Cervantes	Environmental Scientist, EIT	Des Moines		♦		X	X	X	X		X		X	X			X		♦	♦		D		Engineer In Training (EIT). Asbestos Inspector - IA and MO, IA Cert. Groundwater Professional
Dave Phipps	O&M / Remediation Tech / Env. Scientist	Des Moines			♦				X			X	X	X		X	X		♦	♦	♦	C	♦	IA - Cert. Well Contractor 7660, UST Remover #7660
Andrew Carver	Project Manager / Geologist	Des Moines		♦					X		X	X	X	X			X		♦	♦		D		IA Cert. Groundwater Professional
Kristopher Schult	Field Technician / Env. Scientist	Des Moines	♦						X				X						♦			C		
Flo Rivera	Environmental Scientist	Des Moines	♦						X		X		X	X					♦			D		
Aaron Miller	Professionsal Engineer	Des Moines			♦	x	x		X				X				x		♦	♦		C		Professional Engineer, IA
Derek Wedemeier	Field Technician / Env. Scientist	Des Moines	♦			X	X		X				X						♦			C	♦	IA Licensed Asbestos Inspector
Steve Charlton	Branch Manager	Davenport			♦	X	X	X	X			X	X				X		♦	♦	♦	C	♦	IA UST Licensed Remover
Mark Diehl	Senior Project Manager / Geologist	Davenport			♦	X	X		X	X	X	X	X	X	X		X	X	♦	♦	♦	B	♦	IL, MO, & WY - Licensed Prof. Geologist, IA Cert. Well Contractor 2190, IA Certified Groundwater Professional
Todd Felderman	Senior Project Manager / Geologist	Davenport			♦	X	X		X	X	X	X	X	X	X		X		♦	♦	♦	C	♦	IA Certified Groundwater Professional
Max Ostby	Project Manager	Davenport			♦	X	X	X	X	X	X	X	X	X	X				♦	♦		D		IA Cert. Groundwater Professional, Council-certified CIEC, Certified Asbestos Building Inspector (IA, IL, MO)
Jordan Comilsen	Environmental Scientist	Davenport	♦			X	X	X	X				X	X					♦	♦			♦	IA Licensed Asbestos Inspector
Carrie Jackson	Environmental Scientist	Davenport	♦			X			X				X	X					♦					
Rich Vogel	Field Technician / Env. Scientist	Davenport			♦				X			X	X	X		X	X		♦	♦				IL - Cert. UST Decommissioner, Rail Safe Cert
Hannah Dubbs	Field Technician	Davenport			♦	X	X												♦			C		
Mike Dimino	Branch Manager	Denver			♦	X	X	X	X	X		X	X	X			X	X	♦	♦	♦	B		CO - Listed Consultant with CO OPS
Josh Stewart	Environmental Professional	Denver		♦		X	X	X	X				X				X		♦	♦				CO - Listed Consultant with CO OPS
Scott Dixon	Branch Manager	Tulsa			♦	X	X	X	X				X						♦	♦		C		

TABLE 2: ORGANIZATION CHART



EMPLOYEES IN GREEN REPRESENT THE KEY PERSONNEL (RESUMES ARE ATTACHED)

VICE PRESIDENT
SENECA COMPANIES – FUEL SYSTEMS & ENVIRONMENTAL SERVICES **DARREN BINNING**

SUMMARY OF QUALIFICATIONS
Mr. Binning's experience in the environmental compliance and consulting industry includes, Iowa Risk Based Corrective Action (RBCA), environmental compliance management and audits, Phase I and II ESA's, Corrective Action Design Reporting (CADR), chemical oxidation injection remediation, free product removal technology, SPCC plan development and review, SWPPP, Tier 2, TRI, air permitting, asbestos inspection, UST/AST removal management and various other environmental permitting and compliance related projects.

PROFESSIONAL EXPERIENCE
Mr. Binning is Vice President for Seneca's Fuel Systems and Environmental Services divisions. He is responsible for management of Branch Managers, Account Managers, Project Managers, Staff Scientists, Licensed UST Professionals, Service Technicians, Sales and Support Staff in Seneca's four Environmental branch locations (Des Moines and Davenport, Iowa; Denver, Colorado; and Tulsa, Oklahoma) and all Petroleum Construction & Service Branch locations (Des Moines and Davenport, Iowa; Oreana, IL; Denver, Colorado; Kansas City, MO; and Tulsa, Oklahoma) as well as remote service technicians throughout the U.S. He has 15 years of professional environmental field and project management experience. Management experience includes Project Management of more than 100 Underground Storage Tank (UST) sites covering all phases of projects from initial site investigations, closures, site characterizations, Risk Based Corrective Action (RBCA) evaluations, site monitoring, free product recovery, remediation design and installation, Phase I and II Environmental Site Assessments. As VP of Seneca's Petroleum Division Mr. Binning has responsibility for oversite of hundreds of UST system installations, repair and removals throughout the U.S. annually.

EDUCATION, TRAINING, CERTIFICATIONS & MEMBERSHIPS
- B S - Environmental Science - Iowa State University, Ames, IA - December 1999
- Carlson School of Management – University of Minnesota - 2012
- Iowa Certified Groundwater Professional #1899
- 40 hr OSHA Hazwopper Training - 2003
- 8 hr annual OSHA Hazwopper Refresher Training – 2004-2015
- Hazmat Training 49 CFR Parts 172, 177, 383, and 390-397
- DOT Hazardous Material Transportation Training
- Environmental Professionals of Iowa (EPI)
- Missouri RBCA Training

BUSINESS & PROFESSIONAL REFERENCES
John Feldman, Kum & Go, L.C.
Vice President – Facilities Management
P: (515) 457-6267
jtf@kumandgo.com

Jeff Hove, Petroleum Marketers & Convenience Stores of Iowa (PMCI)
Vice President
P: (515) 224-7545 ext 17
jeff@pmcofiowa.com

Tom Norris, PMMIC
P: (515) 334-3001
tnorris@roundsassociates.com

REMEDIATION DIVISION MANAGER

SENECA COMPANIES - ENVIRONMENTAL SERVICES **ADAM DAVISON**

SUMMARY OF QUALIFICATIONS

Mr. Davison is Seneca Companies' Remediation and Process Control division manager. This division leads the industry in building custom high quality air, soil and groundwater remediation systems for clients including the United States EPA, engineering firms, and commercial site owners. Mr. Davison has thirteen (13) years of experience in environmental consulting, with over eleven (11) years at Seneca specializing in remediation.

PROFESSIONAL EXPERIENCE

Mr. Davison's unique combination of technical and management experiences enables him to deliver high quality, yet cost effective solutions for his clients. Mr. Davison provides technical expertise for remediation system design, pilot testing, on-site water treatment, dewatering management, and site closure strategies. Mr. Davison works directly with the divisions' electricians, equipment specialists, plumbers, carpenters, drafters, and sales team to ensure each project meets or exceeds the client's expectations. Mr. Davison has also served as a project manager for over 50 environmental projects involving operation and maintenance (O&M) of soil and groundwater remediation systems, dewatering, water main replacements, Tier III monitoring, onsite water treatment, and soil over excavations.

EDUCATION, TRAINING, CERTIFICATIONS & MEMBERSHIPS

- M.S. – Geology/Hydrogeology – Iowa State University, Ames, IA - 08/2013
- B.S. – Geology – University of Utah, Salt Lake City, UT – 06/2002
- Iowa Certified Groundwater Professional #2042
- 40 hr OSHA Hazwoper Training - 2003
- 8 hr annual OSHA Hazwoper Refresher Training – 2015
- Nebraska Iowa Electrical Council, Hazardous Locations Certified

BUSINESS & PROFESSIONAL REFERENCES

Anthony Swierczek, CH2M Hill
P: (314) 335-3043
Anthony.Swierczek@CH2M.com

Mark Phillips, Environmental Management Consultants, Inc.
P: (812) 424-7768
mphillips@emcevv.com

Bradley Vann, United State Environmental Protection Agency
P: (913) 551-9611
Vann.Bradley@epamail.epa.gov

PROJECT MANAGER
SENECA COMPANIES - ENVIRONMENTAL SERVICES **TODD FELDERMAN**

SUMMARY OF QUALIFICATIONS
Mr. Todd Felderman is a project manager for Seneca's Environmental Services division and has worked at Seneca in the environmental field for sixteen (16) years. He started his career as an environmental field technician, progressed as an operation and maintenance specialist for remediation sites, before being promoted to a project manager.

PROFESSIONAL EXPERIENCE
Primary responsibilities consist of completing Tier I, Tier II and Site Monitoring Reports, technical report writing, environmental fieldwork, the preparation of state leaking underground storage tank (LUST) documentation, environmental assessments and providing assistance in general project management. Additional responsibilities include data compilation/interpretation, receptor surveys, contaminant fate and transport modeling, hydraulic conductivity calculations, as well as soil and groundwater sampling, slug testing, field surveying, and site mapping field activities.

EDUCATION, TRAINING, CERTIFICATIONS & MEMBERSHIPS
- B.S. – Environmental Science – University of Dubuque, Dubuque, IA – May 1999
- Iowa Certified Groundwater Professional #2044
- 40 hr OSHA Hazwoper Training - 1999
- 8 hr annual OSHA Hazwoper Refresher Training –2015
- Certified Industrial Chemical Spill Response
- Rope Rescue Certified

BUSINESS & PROFESSIONAL REFERENCES
Dave Paulsen
Soil Essentials
(608) 558-5781
soilessentials@tds.net

Dennis Diercks
Diercks Excavating
(563) 340-7544
ddiercksinc@gmail.com

John Bliss
Gary's Reality / Midway Oil
(563) 391-9478
John.boy@mediacombb.net

SENIOR PROJECT MANAGER
SENECA COMPANIES - ENVIRONMENTAL SERVICES **MARK DIEHL**

SUMMARY OF QUALIFICATIONS
Mr. Diehl has been an environmental professional since 1992 and has extensive experience in various environmental compliance and consulting roles. Mr. Diehl began his career in the engineering and environmental industry with a variety of experience from land surveying and materials testing to environmental project management, and has been employed at Seneca Companies primarily involved in UST project management and field operations management since 1996. Mr. Diehl manages all phases of corrective action from construction estimating to project supervision during infrastructure installation.

PROFESSIONAL EXPERIENCE
Mr. Diehl's experience in the environmental compliance and consulting industry includes, but is not limited to UST and AST removal, sampling and reporting, Risk Based Corrective Action (RBCA) Tier1, 2 and 3 Assessments, Phase I and II ESA's, Corrective Action Design and Implementation.

EDUCATION, TRAINING, CERTIFICATIONS & MEMBERSHIPS
- B A - Geology – Southern Illinois University, Carbondale, IL - 1993
- Professional Geologist: : IL 196001098 - MO 2008004838 – WY 3841
- Princeton Groundwater Inc. – The Groundwater Pollution and Hydrogeology Course
- Princeton Groundwater Inc. – The Remediation Course
- ITRC – LNAPL: Science, Management and Technology
- Iowa Certified Groundwater Professional #1630
- Iowa Well Contractor – Driller #2190
- RAM Group - Missouri RBCA Training
- 40 hr OSHA Hazwoper Training
- 8 hr annual OSHA Hazwoper Refresher Training
- Industrial and Chemical Spill Response 24 Hr OSHA Training
- Commercial Driver's License Class A

BUSINESS & PROFESSIONAL REFERENCES
Lon Warnecke, River Valley Cooperative
Safety and Compliance Director
P: (563) 285-9635
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Jeff Hove, Petroleum Marketers & Convenience Stores of Iowa (PMCI)
Vice President
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Dave Meier
I80Truckstops
P (563) 281-6961
dave.meier@iowa80group.com

ENVIRONMENTAL CONSULTING BRANCH MANAGER
SENECA ENVIRONMENTAL SERVICES **LESLIE NAGEL**

SUMMARY OF QUALIFICATIONS
Ms. Nagel has been an environmental professional since 2003 and has extensive experience in various environmental compliance and consulting roles. In 2001 Ms. Nagel began her environmental career completing environmental boring logs as a drinking water well/environmental boring drilling assistant. Ms. Nagel has been employed at Seneca Companies primarily involved in Leaking Underground Storage Tank (LUST) project management since 2003. Her current role is as manager of the Consulting Division for the Des Moines office.

PROFESSIONAL EXPERIENCE
Ms. Nagel's experience in the environmental consulting industry includes, but is not limited to Risk Based Corrective Action (RBCA), Corrective Action Design Reporting (CADR), injection remediation, free product removal technologies, land farm permitting and application, Tier 2, UST/AST removal management, emergency response management and reporting, and various other environmental consulting related projects. Ms. Nagel manages ten (10) sites associated with leaking underground storage tanks for Kum & Go, L.C. Ms. Nagel has been able to reclassify forty-five (45) Kum & Go LUST sites to No Action Required since beginning management of the Client. Additional major clients include: IDNR (LUST Trust Fund project), Casey's General Stores, and the IUST Board (Environmental Support Services Contract RBCA 0908-01 and State of Iowa Closure Contract USTCA 1104-01).

EDUCATION, TRAINING, CERTIFICATIONS & MEMBERSHIPS
- B S - Geology - Iowa State University, Ames, IA - December 2002
- Iowa Certified Groundwater Professional #2029 – 2005
- Missouri RBCA Training – 2008
- 40 hr OSHA Hazwoper Training - 2003
- 8 hr annual OSHA Hazwoper Refresher Training – 2004 to present
- DOT Hazardous Material Transportation Training – 2003, 2011
- National Safety Council First Aid Training – 1995 to present
- National Safety Council CPR Training – 1995 to present
- CN Railroad – Orientation and Safety Training – 2008
- Assessing Groundwater Movement & Contaminant Migration through Aquitards – 2010
- Princeton Groundwater Inc. – The Remediation Course - 2015

BUSINESS & PROFESSIONAL REFERENCES
John Feldman - Kum & Go, L.C.
Vice President – Facilities Management
P (515) 457-6382
john.feldman@kumandgo.com

Jill Reams-Widder – Casey's General Stores
Geologist/Environmental Director
P: 515-965-6238
Jill.reams-widder@caseys.com

Lynn Sheets – Key Cooperative
Petroleum Department Manager
P: (712) 243-1934
Lynn.sheets@keycoop.com

Sub-Contractors for Proposed Tasks

Seneca uses a preferred Iowa DNR Certified laboratory for subcontracted soil and groundwater analysis - Test America in Cedar Falls, Iowa, or Keystone Labs in Newton, Iowa. These laboratories perform soil, groundwater, and soil gas analysis for Seneca and have fulfilled numerous obligations and deadlines for us. They are responsible for analytical procedures, data validation, quality control/quality assurance (QA/QC) of methods and analysis, timely turnaround for data presentation and consulting services for analysis and sampling methods. Subcontractors utilized for forensic analysis and age determination include Torkelson Geochemistry, Inc. located at 2528 South Columbia Place, Tulsa, Oklahoma and the University of Miami Tritium Laboratory, Miami, Florida.

Iowa Certified well drilling firms utilized include: Saberprobe LLC, Omaha, Nebraska, Soil Essentials, New Glarus, Wisconsin, Rewert's Drilling Company, Inc., Nevada, Iowa, PSA Environmental, Lee's Summit, Missouri, and Balanced Environmental, Monticello, Iowa. Under Seneca supervision, the drilling firms that we use are responsible for setting up and completing direct push and/or hollow stem auger soil borings and groundwater monitoring wells, sample equipment, decontamination, bedrock drilling, and site restoration. Seneca personnel also complete hand-augured soil borings and monitoring wells when needed. Please note that the main drilling subcontractor for the Project on the central and western portion of the state will be Saberprobe LLC. The eastern portion of the state will utilize Soil Essentials. The two firms have diverse drilling rigs allow for access beneath canopy's, direct push studies, chemical injection, and can complete hollow steam auger drilling to depths greater than 60 feet.

For corrective action activities not performed internally Seneca utilizes the services of American Backhoe Co., Crescent, Iowa, J. Pettiecord Construction, Inc., Des Moines, Iowa and other local excavation contractors for performing UST removals, over-excavations, and utility line removals/replacements. Other remediation contractors include Innovative Remediation Technologies, LLC., Regenesis, San Clemente, California, and Alpine Environmental, Golden, Colorado for chemical oxidation, surfactant, and nutrient in-situ injections or ex-situ applications. Seneca's prime contractor for corrective action activities is American Backhoe Company, owned and operated by Greg Morris. All field staff is 40 hour OSHA Hazwhopper trained and both backhoe operators are Iowa Licensed USTs removers: Greg Morris, #1212 and Wally Kanne, #1213. American Backhoe has completed excavation and tank pull activities in the following states: NE, KS, LA, MO, SD, ND, TX, PA and IA. In the past 3 years American Backhoe Co. has completed over 100 tank closures and approximately 25 excavations for Seneca Companies. Since landfarming regulations began, American Backhoe Co. has permitted and closed over 60 land farms under permit # 78-SDP-29-07 PCS. Their diverse range of equipment and specialties, as well as their vast experience and expertise, allow for time and cost efficient removals and excavations.

Geographic Locations for Personnel, Equipment and other Resources (certified lab, etc.)

Seneca has an organized a solid team structure that will provide statewide coverage of the Project area and furnish the best staff for completion of the Environmental Support Services Projects. Seneca Environmental has two (2) Iowa office locations; Des Moines and Davenport. All Seneca personnel involved with the Projects are located within one-hour drive or less of their respective Seneca office. They are also typically located within a

ATTACHMENTS

three-hour drive (maximum) of the Projects area. All Seneca personnel are OSHA 40 hour HAZWHOPER certified. Drilling, tank removal, excavation, plumping, and UST cleaning subcontractors also have the appropriate training and safety certifications to complete the associated Projects.

Equipment to be used for the Project is located at the Des Moines Corporate Office, and the Davenport, Iowa office. Each location is fully equipped with all necessary soil, groundwater, and vapor sampling equipment including PID, FID, LEL, YSI, survey equipment, hand augers, direct push equipment, monitoring well abandonment equipment, water level, and oil water interface monitors/probes. Also at each location are skid loaders, vacuum trucks, spill response, and mobile remediation equipment. Other amenities needed for the successful accomplishment of work - Seneca has 15 computers in the Davenport office and 20 in the Des Moines office that are loaded with the current Tier 1 and Tier 2/Tier 2 Bedrock software, Site Monitoring Report, BR Slug, AQTESOLV, Surfer (for groundwater contouring) and AutoCAD. Equipment for corrective action implementation includes mobile soil vapor extraction (SVE) and multi-phase extraction (MPE) equipment, submersible groundwater pumps, air strippers, and skid loaders.

The State Certified Laboratories that will be performing the soil, groundwater, and vapor analysis will be Test America, Inc. (Cedar Falls, IA) and Keystone Laboratories (Newton, IA). Iowa Certified well drilling firms utilized include: Saberprobe LLC (Omaha, NE), Soil Essentials (New Glarus, WI), Rewert's Drilling Company, Inc. (Nevada, IA), PSA Environmental (Lee's Summit, MI) and Balanced Environmental (Monticello, IA).

F. Financial Information

To provide our clients the best overall product, we ensure that our relationships with our vendors and subcontractors are important as our client. This relationship, and the sheer volume of work we provide, allows for Seneca to offer results in a time and cost efficient method. Below are both bank and trade references relevant to the work that will be provided in the RFP. Additional are available upon request.

- First Nation Bank, 1620 Dodge Street, Stop 1029, Omaha, Nebraska 68197 (402) 602-2229
- Angela Muehling: TestAmerica, Inc., 704 Enterprise Drive, Cedar Falls, Iowa 50613 (319) 277-2425
- Art Kearney: Field Environmental Instruments, Inc., 6410 Oxford Street, St. Louis Park, Minnesota 55426 (866) 580-5512
- Greg Morris: American Backhoe Company, Inc, 3850 Old Mormon Bridge Rd., Crescent, Iowa 51526 (712) 227-0107

G. Terminations, Litigation, Debarment

During the last five years Seneca Companies, Inc. ("Seneca") has not had any contract terminations. Furthermore, Seneca's owners, officers, or primary partners have not been convicted of a felony. Seneca is not suspended, debarred, or otherwise excluded. In 2014, however, in order to resolve a dispute with the federal government, Seneca pled guilty to a misdemeanor violation of the Clean Water Act as a result of a single, isolated incident of improper discharge of groundwater that occurred in 2010 in Duenweg, Missouri. Under the plea agreement, Seneca paid a fine of $85,000.00 and is subject to a five (5) year probationary period requiring

annual certification of training on groundwater discharge procedures. Related to the same isolated incident, in June 2015, Seneca received a notice of proposed debarment from an agency of the federal government; in addition, the site of the improper discharge was designated by the federal government as an excluded facility. In September 2015, the debarment proceedings were terminated and the facility exclusion was lifted. Seneca takes its environmental compliance obligations very seriously and regrets even a single incident of improper discharge. Since that time, Seneca has significantly enhanced its environmental compliance program so that this type of incident does not happen again. Please contact Seneca with any questions or if additional information is required.

H. Acceptance of Terms and Conditions

Seneca Companies, Inc. agrees that this proposal in response to RFP No. RBCA 1509-01 conforms to all terms and conditions of the RFP. Furthermore, Seneca Environmental Services, Inc. accepts all terms and conditions presented in RFP No. RBCA 1509-01.

I. Certification Letter

See Attachment #1

J. Authorization to Release Information

See Attachment #2

K. Firm Proposal Terms

As Vice-President of Seneca Companies, Inc., I, Darren Binning, on this 27th day of October, guarantee our availability, that the terms of this RFP and associated proposal, and price are valid for a minimum of 120 days. I also guarantee our capabilities to provide superior knowledge, experience, and services as previously demonstrated through our efforts in supporting the DNR, Board, and our clients over the past 20 years of serving the LUST programs.

Attachment 1

Certification Letter

Seneca Companies

The Complete Solution

CORPORATE HEADQUARTERS • DES MOINES, IOWA

P.O. Box 3360
Des Moines, IA 50316-0360

4140 E. 14th Street
Des Moines, IA 50313-3804
Phone: 515-262-5000
Toll-Free: 800-369-5500
Fax: 515-262-4951

October 27, 2015

James Gastineau, Issuing Officer
Iowa Underground Storage Tank Fund Board
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

Re: RBCA 1509-01 - PROPOSAL CERTIFICATIONS

Dear Mr. Gastineau:

I certify that the contents of the Proposal submitted on behalf of Seneca Companies, Inc. in response to Iowa Underground Storage Tank Fund Board for RBCA 1509-01 for environmental contractor services for UST investigations are true and accurate. I also certify that Contractor has not knowingly made any false statements in its Proposal.

Certification of Independence

I certify that I am a representative of Contractor expressly authorized to make the following certifications in behalf of Contractor. By submitting a Proposal in response to the RFP, I certify in behalf of the Contractor the following:

1. The Proposal has been developed independently, without consultation, communication or agreement with any employee or consultant to the Board or with any person serving as a member of the evaluation committee.

2. The Proposal has been developed independently, without consultation, communication or agreement with any other contractor or parties for the purpose of restricting competition.

3. Unless otherwise required by law, the information found in the Proposal has not been and will not be knowingly disclosed, directly or indirectly prior to Board's issuance of the Notice of Intent to Award the contract.

4. No attempt has been made or will be made by Contractor to induce any other contractor to submit or not to submit a Proposal for the purpose of restricting competition.

5. No relationship exists or will exist during the contract period between Contractor and the Board or any other State Board that interferes with fair competition or constitutes a conflict of interest.

Certification Regarding Debarment

6. I certify that, to the best of my knowledge, neither Contractor nor any of its principals: (a) are presently or have been debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by a Federal Board or State Board; (b) have within a three year period preceding this Proposal been convicted of, or had a civil judgment rendered against them for commission of fraud, a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction, violation of antitrust statutes; commission of embezzlement, theft, forgery, falsification or destruction of records, making false statements, or receiving stolen property; (c) are presently indicted for or criminally or civilly charged by a government entity (federal, state, or local) with the commission

of any of the offenses enumerated in
(b) of this certification; and (d) have not within a three year period preceding this Proposal had one or more public transactions (federal, state, or local) terminated for cause.

This certification is a material representation of fact upon which the Board has relied upon when this transaction was entered into. If it is later determined that Contractor knowingly rendered an erroneous certification, in addition to other remedies available, the Board may pursue available remedies including suspension, debarment, or termination of the contract.

Certification Regarding Registration, Collection, and Remission of Sales and Use Tax

7. Pursuant to *Iowa Code sections 423.2(10) and 423.5(8) (2011)* a retailer in Iowa or a retailer maintaining a business in Iowa that enters into a contract with a state Board must register, collect, and remit Iowa sales tax and Iowa use tax levied under *Iowa Code chapter 423* on all sales of tangible personal property and enumerated services. The Act also requires Contractors to certify their compliance with sales tax registration, collection, and remission requirements and provides potential consequences if the certification is false or fraudulent.

   By submitting a Proposal in response to the (RFP), the Contractor certifies the following: (check the applicable box)

   Contractor is registered with the Iowa Department of Revenue, collects, and remits Iowa sales and use taxes as required by *Iowa Code Chapter 432*; or

   Contractor is not a "retailer" or a "retailer maintaining a place of business in this state" as those terms are defined in *Iowa Code subsections 423.1(42) and (43)*.

   Contractor also acknowledges that the Board may declare the Contractor's Proposal or resulting contract void if the above certification is false. The Contractor also understands that fraudulent certification may result in the Board or its representative filing for damages for breach of contract in additional to other remedies available to Board.

Sincerely,
Seneca Companies, Inc.

Darren Binning, Vice President

Attachment 2

Authorization to Release Information Letter

Seneca Companies

CORPORATE HEADQUARTERS • DES MOINES, IOWA

P.O. Box 3360
Des Moines, IA 50316-0360

4140 E. 14th Street
Des Moines, IA 50313-3804
Phone: 515-262-5000
Toll-Free: 800-369-5500
Fax: 515-262-4951

The Complete Solution

October 27, 2015

James Gastineau, Issuing Officer
Iowa Underground Storage Tank Fund Board
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

Re: **RBCA 1509-01** - AUTHORIZATION TO RELEASE INFORMATION

Dear Mr. Gastineau:

Seneca Companies Inc. hereby authorizes the Iowa Underground Storage Tank Fund Board ("Board") or a member of the Evaluation Committee to obtain information regarding its performance on other contracts, agreements or other business arrangements, its business reputation, and any other matter pertinent to evaluation and the selection of a successful Contractor in response to **RBCA 1509-01.**

The Contractor acknowledges that it may not agree with the information and opinions given by such person or entity in response to a reference request. The Contractor acknowledges that the information and opinions given by such person or entity may hurt its chances to receive contract awards from the State or may otherwise hurt its reputation or operations. The Contractor is willing to take that risk.

The Contractor hereby releases, acquits and forever discharges the State of Iowa, the Board, their officers, directors, employees and agents from any and all liability whatsoever, including all claims, demands and causes of action of every nature and kind affecting the undersigned that it may have or ever claim to have relating to information, data, opinions, and references obtained by the Board or the Evaluation Committee in the evaluation and selection of a successful Contractor in response to the RFP.

The Contractor authorizes representatives of the Board or the Evaluation Committee to contact any and all of the persons, entities, and references which are, directly or indirectly, listed, submitted, or referenced in the Contractor's Proposal submitted in response to RFP.

The Contractor further authorizes any and all persons and entities to provide information, data, and opinions with regard to its performance under any contract, agreement, or other business arrangement, its ability to perform, business reputation, and any other matter pertinent to the evaluation of the Contractor's Proposal. The Contractor hereby releases, acquits and forever discharges any such person or entity and their officers, directors, employees and agents from any and all liability whatsoever, including all claims, demands and causes of action of every nature and kind affecting the Contractor that it may have or ever claim to have relating to information, data, opinions, and references supplied to the Board or the Evaluation Committee in the evaluation and selection of a successful Contractor in response to RFP.

A photocopy or facsimile of this signed Authorization is as valid as an original.

Sincerely,
Seneca Companies Inc.

Darren Binning, Vice President

10-27-15
Date

Attachment 3

Letters of Reference

KEY COOPERATIVE
your essential business partner

October 26, 2015

James Gastineau, Issuing Officer
Iowa Underground Storage Tank Fund Board
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

RE: Letter of Reference

Dear Mr. Gastineau,

Seneca provides Key Cooperative with environmental services including project management, UST compliance, tank closures, Phase I and II, Tier assessment, corrective action design and implementation, Tier 3, and free product recovery. Current ongoing projects include laser induced fluorescence (LIF) that was utilized for an excavation proposal and a Tier 3 to determine actual risk to water lines. Their work has been timely, professional, and within the budgets proposed.

Additionally they go above and beyond on ensuring LUST sites are finalized. This summer during a PMCI meeting is was brought to my attention that some of the Key Cooperative properties that were historically classified No Action Required did not have NFA certificates. Seneca was able to track down the history of these properties and ensure the wells were plugged and the certificates obtained.

Seneca and Key Cooperative have a long standing relationship built on trust and communication and would I would highly recommend them for environmental consulting work.

Sincerely,
Key Cooperative

Lynn D. Sheets
Petroleum Department Manager
Lynn.sheets@keycoop.com
P: (641) 594-8116

October 16, 2015

James Gastineau, Issuing Officer
Iowa Underground Storage Tank Fund Board
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

RE: Letter of Reference

Dear Mr. Gastineau,

For the past twenty-five (25) years Seneca has provided environmental consulting services to meet Kum & Go, L.C.'s needs. Seneca provides Kum & Go, L.C. with excellent support in the areas of project management, UST compliance, tank closures, site checks, Tier assessment, corrective action design and implementation, and free product recovery. In the past three (3) years Seneca has reclassified twenty-five (25) Kum & Go leaking underground storage tank (LUST) sites in Iowa to No Action Required (NAR), and less than fifteen (15) sites remain in Iowa where assessment and/or remediation activities are ongoing.

Furthermore, Seneca's work has been a major factor in our raze and rebuild success. Prior to the raze and rebuild at Kum & Go #510 in Stuart, LUST# 9LTO31, Seneca completed the following activities; property transfer investigation, tank closure, free product recovery, and soil excavation. To accomplish this scope of work, Seneca communicated with the seller of the property, City of Stuart, DNR, IUST Fund, and PMMIC for approved scope of work and permitting. This pro-active plan of attack and management of all activities allowed for site reclassification to No Action Required (NAR) in an efficient timeframe and at minimal cost. Similar results were achieved at raze and rebuild projects at Kum & Go #206 in Clive, IA (LUST# 9LTO80), Kum & Go #246 in Winterset, IA (LUST# 9LTP89), and at Kum & Go #509 in Cedar Rapids, IA (LUST# 9LTP68).

Seneca takes the initiative to identify problems and make decisive solutions. Seneca has demonstrated their strong communication skills, and the ability to inspire respect and cooperation. I can confidently recommend Seneca as a solid and reliable consulting firm, and experts in their field.

Sincerely,
Kum & Go, L.C.

John Feldman
Vice President Facilities
John.Feldman@kumandgo.com
515-457-6267

WESSELS OIL COMPANY, INC

421 Railroad Avenue
P.O. Box 176
Palmer, Iowa 50571

Telephone: 712-359-7712 or 800 426-0016
Fax 712-359-2307

October 23, 2015

Dear Jennifer:

I appreciate you asking Wessels Oil to be a reference for Seneca Companies. I appreciate you giving us a chance to provide feedback for Seneca for use in sharing with potential customers on future projects.

First of all, I can't say enough positives about Seneca and its employees. Every time I call they are very responsive to me. Wessels Oil Co has worked with Seneca for many years and will continue a business relationship for years to come.

Every time I need a repair, petroleum equipment, environmental services, or UST guidance, I always lean on Seneca for advice. I have never been miss-lead or miss informed. If my representative does not have the answer, he/she will reach out to another Seneca employee to seek the correct information.

Seneca has recently finished a complete tank removal, environmental testing and installation of new underground tanks, piping, dispensers and a POS system. Their contracted sign company completed the graphics on our dispensers and canopy. I was very pleased with the final outcome.

This was the first time Wessels had ever tackled a project of this capacity. When we entered the project, I approached Seneca for a bid, as well as, a competitor of theirs. The proposal I received was detailed and complete; spelled out from A – Z. The bid I received from the competitor had the various components of the project lumped together and I was unsure if they had included all of the equipment costs or not. I was afraid I would get a big surprise at the end, which would cost us thousands of more dollars. I did not have to worry about that with Seneca.

I want to mention the staff that I worked with directly and give them a big THANK YOU for a job well done, Mike Freese, Jennifer Baker, Todd Cook, Denny (tank installation crew) and anyone I may have missed that was involved in the project.

I was also impressed that everyone from the top down (Chris Risewick and JC Risewick) was appreciative of our business.

I will always reach out to Seneca for my petroleum needs first before contacting any of their competitors.

Overall, Wessels is very happy with the new petroleum equipment and the final project!

Sincerely,

Lisa A. Abens
Director of Operations

Exhibit A
Schedule of Costs and Fees

Payment Terms
Per *Iowa Code § 8A.514* the State of Iowa is allowed sixty (60) days to pay an invoice submitted by a vendor. What discount will you give for payment in 30 days?

Cost Proposal
The Contractor shall prepare and submit a Cost Proposal to include the Contractor's Schedule of Costs and Fees for typical environmental work as described in Section 3.3.1 that may be associated with the services described in this RFP or those services not identified in this RFP but which may be necessary for completion of the contract requirements. The schedule shall include a listing of standard rates and reimbursable expenses or fees that are expected to be paid by the Board and based on net 60 days payment terms. These are all subject to review, negotiation and a maximum, as agreed. The Schedule of Costs and Fees will be used as a starting point for Service Agreement negotiations.

1.	Report Costs (completed per Department requirements)		
	(a) RBCA Tier 1		$1,250
	(b) RBCA Tier 2		$1,800
	(c) Site Monitoring Report		$600
	(d) Free Product Assessment Report		$400
	(e) Free Product Recovery & Reporting:		
	1. Mobilization (per visit):	$275	
	2. Free Product measurement & recovery (per well)	$30	
	3. Disposal of water & free product (per gallon)	$1	
	4. Free Product Recovery Report (per report)	$100	
	5. Other costs (identify and explain)		
2.	Mobilization Costs		
	(a) Mobilization including mileage / vehicle for field staff		$350
	(b) Mobilization including mileage / vehicle for drilling rig & crew		$700
3.	Receptor Survey		$250
4.	Pathway Evaluations (RBCA Tier 2 / SMR - itemize)		
	(a) Pathway Evaluation, per pathway (RBCA Tier 2)		$350
	(b) Pathway Evaluation, per Pathway (SMR)		$250
5.	Soil Borings		
	(a) Soil boring cost, 25 ft. deep per borehole		$400
	(b) Additional cost per ft. for borings greater than 25 ft. deep		$12

6. Monitoring Wells (inclusive of boring costs)
   (a) Monitoring wells, 25 ft deep per well — $900
   (b) Additional cost per ft. for monitoring wells greater than 25 ft. deep — $25
7. Soil and Groundwater Sampling
   (a) Groundwater sampling – collection and analytical costs
      1. Method OA-1, MtBE, per sample — $150
      2. Method OA-1, per sample — $100
      3. Method OA-2, per sample — $50
      4. Method OA1, MtBE, OA-2, per sample — $200
   (b) Soil sampling – collection and analytical costs
      1. Method OA-1, MtBE, per sample — $110
      2. Method OA-1, per sample — $50
      3. Method OA1, OA-2, per sample — $100
      4. Method OA1, MtBE, OA-2, per sample — $150
   (c) Plugging of monitoring wells — $125
   (d) Completion of monitoring wells abandonment form — $25
8. Sampling of receptors including water lines, drinking water wells, non-drinking water wells – collection and analytical costs
   (a) Method OA-1, MtBE, per sample — $150
   (b) Method OA-1, per sample — $50
   (c) Method OA-1, OA-2, per sample — $50
   (d) Method OA-1, MtBE, OA-2, per sample — $210
9. Soil Gas Points @ 10 ft. per point — $400
10. Soil Gas sampling – collection and analytical costs (NIOSH 1501), per sample — $165
11. Hydraulic Conductivity Testing (per Department requirements), each test — $150
12. Access Agreements (neighboring properties) — $250
13. Utility Notifications (if no RBCA report is completed) — $150
14. Iowa Groundwater Professional, hourly rate — $85

Other Items (identify and explain when item applies

Seneca Companies

The Complete Solution

Seneca Environmental Services
Environmental Support Services:
Schedule of Fees for RFP No. RBCA 1509-01

Description	Cost
DRILLING	
Soil Boring to 25' (geoprobe)	$ 400/Each
Additional drilling depth beyond 25' (geoprobe)	$ 12/Foot
Monitoring Well to 25' (geoprobe core & augured to diameter)	$ 900/Each
Additional Monitoring Well depth beyond 25' (geoprobe)	$ 25/Foot
Drilling Equipment Mobilization	$ 700/Each
SES Personnel Mobilization	Labor Rate/Hour
Difficult drilling (e.g. bedrock)	$ 40/Foot
Bedrock Drilling Setup	$ 850
Soil gas point (w/ sampling) *(Varies based upon installation type... rig, direct push, or hand auger)*	$ 350 - $700
SAMPLING	
Hydraulic conductivity test (labor, supplies, & analysis)	$ 150/Each
Sampling OA1 (labor, supplies, shipping, & analysis)	$ 100/Well
Sampling OA1-GC/MS (labor, supplies, shipping, & analysis)	$ 150/Well
Sampling OA2 (labor, supplies, shipping, & analysis)	$ 50/Well
Sampling OA1-GC/MS & OA2 (labor, supplies, shipping, & analysis)	$ 200/Well
Soil and water analysis OA1 (shipping and analysis)	$ 50/Sample
Soil and water analysis OA1-GC/MS (shipping and analysis)	$ 110/Sample
Soil and water analysis OA2 (shipping and analysis)	$ 50/Sample
Soil and water analysis OA1-GC/MS & OA2 (shipping and analysis)	$ 150/Sample
Soil Gas Sampling (labor, supplies, shipping, pump rental, & analysis)	$ 165/Sample
REPORTING	
Free Product Reports	$ 100/Report
Free Product Recovery Assessment Report	$ 400/Report
Site Monitoring Reports	$ 600/Report
Bedrock SMR	$ 675/Report
SMR Pathway Remodeling (additional costs to SMR)	$ 250/Pathway
Tier 1 (Original)	$ 1,250
Tier 2 (Original)	$ 1,800
Tier 2 (Remodel / Modification / Limited Tier 2) Initialization	$ 500
Tier 2 (Remodel / Modification / Limited Tier 2) Pathway Remodels	$ 250/Pathway
Groundwater Ingestion pathway assessment	$ 350
Soil Leaching to Groundwater Ingestion pathway assessment	$ 350
Groundwater Vapor to Enclosed Space pathway assessment	$ 350
Soil Vapor to Enclosed Space pathway assessment	$ 350
Groundwater to Plastic Water Line pathway assessment	$ 350
Soil to Plastic Water Line pathway assessment	$ 350
Tier 2 Bedrock Site Attachments (Exempt Granular Sites Only)	$ 575
Surface Water pathway assessment	$ 350
Utility Notification	$ 150 each
Information Search	$ 175
Surface Water Body IDNR Discharge Calculation Submittal	$ 150
PERSONNEL	
Mileage	$ 0.85/Mile
Per Diem	$ 100/Day/Person

A fuel surcharge may be applied during periods of elevated fuel costs.

10/2015

Seneca Companies

The Complete Solution

Seneca Environmental Services
Environmental Support Services:
Schedule of Fees for RFP No. RBCA 1509-01

Description	Cost
EQUIPMENT	
Service Trucks, Pickups, Autos, Utility Trailers	**$0.85/ Mile**
FID	**$130/Day**
Hnu, PID, OVM	**$80/Day**
LEL Meter	**$55/Day**
Oil/Water Interface Probe or Water Probe	**$40/Day**
Digital Camera	**$10/Day**
Datalogger	$200/Day
Dissolved Oxygen Meter	$55/Day
Metal Detector	**$30/Day**
Air Velocity Meter or pH Meter	$20/Day
Field Magnehelic Gage Set	$30/Day
Survey Equipment	$40/Day
Hand Augers	$30/Day
Portable Generator	$120/Day
LABOR	
Clerical	**$38/Hour**
Draftsman - AutoCAD	**$50/Hour**
Environmental Technician I	$60/Hour
Environmental Technician II	**$65/Hour**
Environmental Technician III	$70/Hour
Electrician / Senior Technician - Shop	$60/Hour
Electrician / Senior Technician - Field	$75/Hour
Control Panel Technician - Shop	$55/Hour
Control Panel Technician - Field	$60/Hour
Staff Engineer I	$75/Hour
Staff Engineer II	$95/Hour
Senior Engineer	$120/Hour
Environmental Scientist I	**$65/Hour**
Environmental Scientist II	$70/Hour
Project Manager	**$85/Hour**
Senior Project Manager	$100/Hour
Management	$120/Hour
Expert Testimony	$135/Hour

*Note: Items on this page in **bold** are most commonly applicable to the perceived scope of work.*

A fuel surcharge may be applied during periods of elevated fuel costs.

10/2015