RESPONSE TO RFP #: RBCA 1509-01

Part 1: Technical Proposal

For:

Environmental Support Services

Presented to:

James Gastineau, Deputy Administrator
Iowa Underground Storage Tank Fund Program
2700 Westown Parkway, Suite 320
West Des Moines, IA 50265

Presented by:

IMPACT7G

With assistance from:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 27, 2015

Table of Contents – Part 1: Technical Proposal

Executive Summary

Impact7G, Inc. (Impact7G) is pleased to provide this full and complete response to the Iowa Underground Storage Tank (UST) Fund Board's request for proposals to provide environmental support services related to UST investigations. Impact7G unquestionably has the technical knowledge (see Section 1), experience (see Section 3), resources (see Section 4), and cost efficiencies (see Part 2: Cost Proposal) to meet the needs specified in the RFP RBCA 1509-1.

This RFP response is organized in manner to allow efficient and thorough evaluation of our qualifications and cost proposal relative to the expectations outlined in the RFP. This RFP response is organized into two submittals as requested, Part 1 being the Technical Proposal and Part 2 being the Cost Proposal. Section 12 of this response provides a completed submittal checklist of our comprehensive response.

Impact7G is fully prepared and staffed to complete the following work tasks under this proposed contract:

- 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
- Record Searches

Our assigned Project Manager, Megan Down, an Iowa Certified Groundwater Professional (CGWP), is competent in meeting UST Fund project schedule timelines and will remain flexible depending on the needs and priorities of specific tasks assigned under this proposed contract. Having purchased a brand new, track-mounted Geoprobe in 2015, Impact7G is prepared to immediately respond to all requests for direct-push sampling. Our quality and contract compliance oversight staff, which includes Ryan Peterson (also a CGWP) on this particular contract, will work to see that task assignments are completed in accordance with Federal, State, and local requirements. All technical and field staff will meet OSHA training requirements relative to assigned tasks. Impact7G will obtain Board approvals and permits in a timely manner as necessary.

Impact7G offers key personnel with the following qualifications to perform the duties of the RFP:

- ✓ Knowledge of Department methods and procedures for investigation and evaluation of leaking UST sites per Iowa Administrative Code 567 – Chapter 135;
- ✓ Knowledge of the petroleum products likely to be encountered, their environmental interactions, persistence, and toxic or hazardous properties;
- ✓ Knowledge of remedial technologies and methods capable of removing petroleum constituents from soil, groundwater and air;

- ✓ Knowledge of the installation and operation of mechanical in-situ remediation systems and free product recovery systems;
- ✓ Ability to apply knowledge of scientific principles to environmental problems;
- ✓ Ability to evaluate the feasibility of selected corrective action alternatives and project long-term costs associated with those technologies.

In summary, Impact7G staff are ideally suited to meet the needs of the UST Fund Program. The company itself has been structured in a manner to promote cost competitive delivery of professional environmental support services and is thus fully capable of fulfilling the rigorous cost control expectations of the UST Fund Program. Impact7G's mission remains to provide professional environmental services to help our clients make informed, objective decisions with respect to economic, environmental, and community impact. We look forward to fulfilling that mission and the needs specified in RFP 1509-1 for the UST Fund Board and staff.

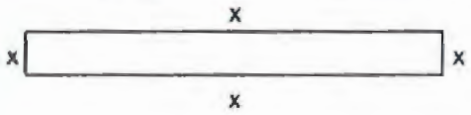
1.0 Technical Specifications

Tasks required to accomplish the items identified in Section 4 of the RFP are described as follows:

Site Checks
All suspected releases of regulated substances must be investigated and confirmed within seven days of discovery. In the event test results for a system, tank or delivery piping fail, or if environmental contamination is found, a Site Check will be performed. All Site Checks will be conducted in accordance with the Tank Closure In Place procedures or Tier 1 Site Assessment Guidance provided in Chapters 135.15(3) and 135.9(3) respectfully. Procedures for a Tier 1 Site Assessment are detailed below in the Tier 1 RBCA Activities section. Tank closure in place procedures are further outlined in this section.

All site work will be completed by OSHA HAZWOPER certified personnel and overseen by a Certified Groundwater Professional. Prior to mobilization to any site, pertinent IDNR records and site history will be reviewed to ensure all investigative activities are completed as accurately as possible. Utility locates will be completed via Iowa One Call at least 48 hours prior to any subsurface disturbance.

Tank closure in place procedures dictate soil borings be installed on all sides of the tank(s). The number and placement of borings is dictated by the size of the tanks as depicted below.

TANK CAPACITY (Gallons)	# OF SAMPLES	LOCATION	EXAMPLE ("X" = Location of Sample)
6,000 or fewer	4	One from each end and one from each side	
6,001 to 12,000	6	One from each end and two from each side	
12,001 or greater	8	One from each end and three from each side	

NOTE: Sample between one and three feet into native soils below the pad and the backfill area.

All soil borings will be installed 1-3 feet below the bottom of the tanks. Additional borings will be installed along every 10-20 feet of piping to a depth of 1-3 feet below the piping trench. A soil boring will also be installed at each dispenser on the supply side. All borings will be field screened at one foot intervals utilizing a photo-ionization detector (PID). Drilling will continue until field screening indicates decreasing levels of contamination (<10 ppm). Soil samples will be collected from the one

foot intervals demonstrating the highest PID readings for each boring. If no PIDs are encountered, a soil sample will be collected from where contamination is most likely to be present.

Soil samples will be collected using nitrile gloves to prevent the possibility of cross contamination and placed into clean, laboratory provided glass sample containers. Samples will be immediately placed on ice and sent to a certified laboratory (TestAmerica) within the designated holding time. Soil cuttings will be spread over an inconspicuous area of the site to allow for passive remediation unless containment and disposal is required by the owner. Borings will be plugged with bentonite upon completion.

One monitoring well will be installed downgradient within 20 feet of the tank basin. This monitoring well must also be representative of the product piping and dispensers. Depending on the size and layout of the site, additional monitoring wells may need to be installed. If the site is an existing LUST site with monitoring wells already in place downgradient and within 20 feet of the tank basin, those wells will be used in lieu of installing new monitoring wells.

All new monitoring wells will be constructed of 2" schedule 40 PVC screen and riser, unless a temporary monitoring well is deemed adequate in which case 1" PVC will be used. Static water levels will be obtained from each well using an oil/water probe which will be properly decontaminated between wells using Alconox soap and a clean water rinse. Each newly installed well will be developed by purging approximately 5 calculated well volumes. If existing monitoring wells are used, they will be purged of approximately 3 calculated well volumes. Purging and sampling will be completed using either a disposable bailer or a peristaltic pump with disposable tubing. Purged groundwater will be disposed of on the adjacent ground unless containment and disposal is required by the owner.

Following purging, groundwater will be allowed to recharge, then visually inspected for the presence of free product, emulsion or sheen. All groundwater samples will be collected using nitrile gloves to prevent the possibility of cross contamination and placed into clean, laboratory provided glass sample containers. Samples will be immediately placed on ice and sent to a certified laboratory within the designated holding time. In the event free product is observed, groundwater samples will be collected from below the free product. The IDNR will then be immediately notified and a Tier 2 Site Assessment will be completed. Data from the site check will be summarized in a report with recommendations for further action if necessary.

Tier 1 RBCA Activities

All Tier 1 Site Assessments will be completed in accordance with Chapter 135 of the Iowa Code and IDNR Tier 1 RBCA Guidance. All site work will be completed by OSHA HAZWOPER certified personnel and overseen by a Certified Groundwater Professional. Prior to mobilization to any site, pertinent IDNR records and site history will be reviewed to ensure all investigative activities are completed as accurately as possible. Utility locates will be completed via Iowa One Call at least 48 hours prior to any subsurface disturbance.

Maximum soil and groundwater concentrations onsite will be identified through the installation of a minimum of three borings/monitoring wells. Soil samples will be collected from all borings converted to monitoring wells. Screening, soil boring and monitoring well locations will be installed at all

presumed areas of contamination as described in the table below unless a discrete source is identified.

Location of Samples

Location	Minimum Required Screening[4] (this is screening ONLY, NOT required soil samples)	Minimum Required Monitoring Wells and Soil Samples
Overall		Three placed in a triangular arrangement to measure groundwater flow direction
Each Tank Basin (former & current)	Minimum of one soil boring on each side of each tank basin, or if tanks no longer exist, below each tank into native soil	One per tank basin
Pump Islands (former & current)	Minimum of one soil boring per pump island	One at the pump island with the greatest concentrations
Piping	Minimum of one soil boring per 20 feet of piping. However, if documentation shows pipe joints are farther apart, then the minimum is one soil boring for each piping joint.	One for piping if screening indicates greater concentrations than tank basin or pump island
Other Source Areas	One for other areas if screening indicates greater concentrations than tank basin or pump island	Any other areas of actual or suspected releases
Presumed Downgradient[5]	One downgradient and within 30 feet of the source with the maximum screening	

[4] Fill pipe locations, closure reports, previously submitted assessment reports for this site or adjacent LUST sites, groundwater flow direction, etc., should be used as guides to indicate where screening should be performed.

[5] Local surface topography, previously submitted assessment reports for this site or adjacent LUST sites, etc., should be used as guides to indicate groundwater flow direction.

All screening locations and soil borings will be field screened at one foot intervals utilizing a calibrated photo-ionization detector (PID). Soil samples will be collected from the one foot intervals demonstrating the highest PID readings for each boring. If no PIDs are encountered, a soil sample will be collected from above the estimated water table. All borings installed for screening purposes will at minimum be drilled to 5 feet below the base of the current or former tank basin, dispensers, and piping. Drilling will continue until field screening indicates decreasing levels of contamination (<10 ppm). Borings installed for sampling will be installed to the maximum of ten feet below the first encountered groundwater or until field screening indicates decreasing levels of contamination (<10 ppm).

Soil samples will be collected using nitrile gloves to prevent the possibility of cross contamination and placed into clean, laboratory provided glass sample containers. Samples will be immediately placed on ice and sent to a certified laboratory within the designated holding time. Soil cuttings will be spread over an inconspicuous area of the site to allow for passive remediation unless containment and disposal is required by the owner. Borings not converted to monitoring wells will be plugged with bentonite.

Following the completion of soil sampling, designated borings will be converted to monitoring wells utilizing 2" schedule 40 PVC screen and riser. Static water levels will be obtained from each well using an oil/water probe which will be properly decontaminated between wells using Alconox soap and a clean water rinse. Each newly installed well will be developed by purging approximately five calculated well volumes. Any existing monitoring wells which have already been developed will be purged of approximately three calculated well volumes. Purging and sampling will be completed using either a disposable bailer or a peristaltic pump with disposable tubing. Purged groundwater will be disposed of on the adjacent ground unless containment and disposal is required by the owner.

Following purging, groundwater will be allowed to recharge, then visually inspected for the presence of free product, emulsion or sheen. All groundwater samples will be collected using nitrile gloves to prevent the possibility of cross contamination and placed into clean, laboratory provided glass sample containers. Samples will be immediately placed on ice and sent to a certified laboratory within the designated holding time. In the event free product is observed, groundwater samples will be collected from below the free product. The IDNR will then be immediately notified and a Tier 2 Site Assessment will be completed in lieu of a Tier 1.

The locations of the new borings and monitoring wells will be mapped relative to existing site structures and features. Ground and top of casing elevations will be surveyed utilizing a suitable benchmark. A pedestrian survey for sanitary sewers, water mains, and storm sewers within 500 feet, drinking water wells within 300 feet and buildings and water service lines within 200 feet of the site will be completed. An explosive vapor survey in all areas where vapors could potentially buildup will be completed utilizing a LEL (Lower Explosive Limit) meter. All surface water bodies within 200 feet of the site will be identified and inspected for the presence of sheen or residue.

Hydraulic conductivity tests will be completed at three wells deemed most representative of site lithology. Slug out tests will be done on partially penetrating wells, while slug in tests will done on submerged wells. If exceptionally permeable lithologies are present, a data logger may be used to ensure enough initial data is captured. The data will be analyzed using the department approved BRSLUG software.

All data obtained during the Tier 1 field activities will be input and evaluated in a Tier 1 Site Cleanup Report. In lieu of the Tier 1 software, the Pathway Evaluation Worksheet will be utilized. All borelogs will be completed utilizing IDNR Form 542-1392. An online well search will be completed using the Department's Facility Explorer website. Receptor surveys will be completed by contacting city officials for further details regarding receptor locations, depths, construction materials, etc. Appropriate city/county/state officials will then be supplied with appropriate utility notifications in the event concentrations have increased onsite.

Tier 2 RBCA Activities

A Tier 2 Site Assessment is required in the event any of the following conditions exist:

- Free product is present.
- Bedrock is encountered before groundwater (shallow bedrock).

- Explosive vapor levels are identified (concentrations of combustible gases exceeding 10% of LEL).
- Pathways are complete at Tier 1.

Where a Tier 1 Site Assessment focuses on identifying the source locations and which pathways are complete, the main objective of a Tier 2 Site Assessment is to further define the plumes and access risk to specific actual and potential receptors. Tier 2 Site Assessment activities generally follow the same guidance and protocol described above for Tier 1 Site Assessments. Therefore, please refer to the Tier 1 RBCA Activities section above for Tier 2 technical specifications. Tasks specific to Tier 2 Site Assessments are described further in this section.

Screening, soil boring and monitoring well locations will be installed at all presumed areas of contamination as described above in the Tier 1 RBCA Activities section. However, additional soil borings and monitoring wells will be installed to adequately define the soil and groundwater plumes. Additional soil borings and/or monitoring wells may also be needed in the direction of sensitive receptors to determine whether they are being impacted. If bedrock is encountered before groundwater, care will be taken to avoid creating a preferential pathway for contamination. Chapter 4 of the Tier 2 Site Cleanup Guidance will be referenced to ensure proper assessment of the site. In the event the recent release of a regulated substance is believed to have occurred, expedited corrective action may be warranted in conjunction with Tier 2 field activities pending approval from the IDNR.

Following completion of field activities, all data will be input into the proper version of the Tier 2 software (or Version 1.20 of the Tier 2 Bedrock software if applicable). Appropriate values will be input for the source width/length, groundwater flow direction, range of plume/flow, and gradient model parameters based on data collected in the field. All receptors falling within the Soil or Groundwater Receptor ID (RID) plumes will then be input and evaluated. Applicable contamination plume maps will be generated from the software and overlaid onto a site map. All remaining applicable Tier 2 report sections will be generated and compiled. Based on the contamination and receptors present, additional drilling and/or corrective action may be proposed.

Tier 3 RBCA Activities

Tier 3 Site Assessments provide an alternative method of receptor risk evaluation to the more stringent Tier 2 Site Assessments or generic corrective action. Tier 3 Site Assessments are beneficial in that they are not a one-size-fits-all approach. Each site will be evaluated in a manner that best addresses the at risk receptors in a timely and cost saving manner. Prior to initiation of any Tier 3 Site Assessment a work plan will be submitted to the IDNR for approval. Various approaches can be taken to more appropriately accessing risk for specific receptors, however some of the more common options include:

- Well Vulnerability – determining a well's lack of vulnerability to contamination through demonstration of upward hydraulic gradient, stable plume conditions, ion composition, tritium testing, pumping tests and/or radius of influence tests.
- Well Casing/Grout Integrity – use of a borehole televiewer and/or casing pressure testing to check for breaches in the water supply well casing.

- Calibration of the default Tier 2 software hydrogeological variables – determining site specific fate and transport parameters and inserting new parameters into Tier 2 software.
- Numerical modeling using alternative fate and transport models – determining site specific fate and transport parameters and utilizing alternative numerical modeling software.
- Documentation of stable plume – demonstrating all, or the majority of wells onsite have met steady and declining criteria and that no migration of the plumes is occurring.
- Direct Push Study – grid type sampling pattern through the entirety of a soil plume with multiple samples per borehole. Usually used in combination with static water level monitoring to document the 'submerged' versus 'unsubmerged' plumes. The depth of the unsubmerged plume can then be compared to receptor depths in the area or a soil gas study of the unsubmerged plume can be completed.
- Soil Gas Study – alternative soil gas sampling methods ('George' Method) or locations (receptor depths) to demonstrate vapors are not impacting a receptor.
- Laser-Induced Fluorescence – the use of UV light to fluoresce polycyclic aromatic hydrocarbons beneath the ground surface. Especially useful for defining free product plumes.

Site Monitoring Activities

A minimum of annual sampling is required at all low and high risk sites. Annual sampling monitors current concentrations to ensure they remain stable/decreasing. In the event concentrations increase, further investigation and evaluation can be completed at the Tier 2 level. These Tier 2 'Reevaluations' confirm whether any particular receptor risks have changed or whether any new receptors are now at risk due to an increase in concentrations. If groundwater sampling is completed more than once per year, only data which is separated by 6 months will be used towards satisfying exit monitoring criteria.

For all sites with at risk Groundwater or Soil Leaching pathways, annual groundwater sampling will be conducted in accordance with the latest approved Groundwater/Soil Leaching Monitoring Plan. Static water levels will be obtained from all wells in the Monitoring Plan using an oil/water probe which will be properly decontaminated between wells using Alconox soap and a clean water rinse. Each well will be purged of approximately three calculated well volumes. Purging and sampling will be completed using either a disposable bailer or a peristaltic pump with disposable tubing. Purged groundwater will be disposed of on the adjacent ground unless containment and disposal is required by the owner.

Following purging, groundwater will be allowed to recharge, then visually inspected for the presence of free product, emulsion or sheen. All groundwater samples will be collected using nitrile gloves to prevent the possibility of cross contamination and placed into clean, laboratory provided glass sample containers. Samples will be immediately placed on ice and sent to a certified laboratory within the designated holding time. In the event free product is observed, groundwater samples will be collected from below the free product. The IDNR will then be immediately notified.

All at risk drinking and non-drinking water wells, as well as at risk water lines within 100 feet of the largest actual plumes (contoured to the applicable target level) will also be sampled for all chemicals of concern. These receptors will be purged of stagnant water and sampled in accordance with the protocols described above. Analytical data from these receptors will be input into the SMR software, but ignored in the SMR evaluation.

For all sites with low risk Potential Soil Vapor pathways, annual soil gas sampling at the soil source will be conducted in accordance with Tier 2 Guidance. Soil gas wells will be installed via borings, then fitted with 1" diameter PVC casing perforated in the lower 12 inches. Sand backfill will be placed in the hole to approximately 6" above the top of the screen. The remaining borehole will be backfilled with bentonite and the casing capped. The well will then be allowed to stabilize for 24 hours. Prior to sampling, nearby monitoring wells will be checked for static water level to ensure the soil source depth is not submerged. If submerged, no soil gas sample will be collected. If not submerged, the well cap will be removed and replaced with a temporary seal (cellophane) to minimize mixing with ambient air. Samples will be collected with a laboratory calibrated pump, tubing, and carbon sampler tube. The ends of a sampler tube will be broken, connected to the tubing, and then placed within six inches of the bottom of the well. The pump will be turned on and a sample volume of 200 ml will be drawn through the sampler tube. Upon completion, the sampler tube will be removed from the well, disconnected from the tubing, and recapped.

A pedestrian survey of the site and neighboring properties will be completed at least annually to check for the presence of new receptors or the removal of existing receptors. A 300 foot pedestrian survey will specifically be completed to check for the presence of new drinking or non-drinking water wells. Changes observed in the field will be verified with appropriate city/county contacts and documented in the Potential Receptor Summary portion of the SMR.

Corrective Action Design Development and Implementation

The short-term goal of corrective action is to eliminate or reduce the risk of exposure to actual receptors which have been, or are about to be, threatened with exposure to contamination above target levels. Long-term, the hope is that corrective action prevents receptors that are not currently impacted from being exposed to contamination above target levels. Corrective action is typically reserved for High Risk sites, but may be employed at any location where it could potentially reclassify a site to No Further Action.

For any site where a Corrective Action Design Report (CADR) is being prepared, at least two remediation options will be chosen and compared. The treatment with the best odds of success, while still considering time and cost, will be chosen and justified in the report. A monitoring proposal designed to determine the effectiveness of the chosen treatment and measure contamination movement will be provided in the report. Other details pertaining to costs, system design, operation and maintenance, timelines, estimated operation time, waste management disposal, and security will also be provided in the CADR. Approval of the CADR must be received from the IDNR prior to initiating an onsite corrective action activities.

Various corrective action options exist, but the most utilized options include: over excavation/land farming, soil vapor extraction (SVE), air sparging (AS), multi-phase extraction (MPE), high vacuum extraction (HVE), chemical injections (i.e. BIOX, Trap and Treat, ORC, hydrogen peroxide), institutional controls, environmental covenants, well plugging, and water line replacement/relocation. Many of these types of corrective action activities require permits and/or paperwork from applicable city/state/federal governments. No onsite work will occur prior to obtaining these required permits and/or paperwork.

Free Product Assessment and Recovery

An Initial Free Product Site Assessment will be completed in accordance with Chapter 135.7(5) of the Iowa Administrative Code at all sites where free product in excess of 0.01 feet is discovered for the first time. Personnel will mobilize to the site and perform a recovery assessment, in which all onsite monitoring wells are checked for the presence of free product. The thickness and quantity of free product will be noted for each well. Any well containing free product will be bailed until the product dissipates.

An Initial Free Product Site Assessment Report will be submitted to the IDNR including, but not limited to the following components: estimated volume, type and thickness of free product observed; recharge rate of all affected monitoring wells; justification for the proposed free product removal technology; and a free product plume definition map. Free product removal and reporting will then be initiated utilizing the recovery system and interval specified in the Initial Free Product Site Assessment Report.

Free product recovery activities at active free product sites will continue under the currently utilized recovery system and recovery interval. A request for cessation of recovery and reporting will be requested from the IDNR when ≤0.1 gallons per well is observed for one year. If accepted, all free product wells will continue to be monitored for an additional one year time period. If product thickness does not exceed 0.02 foot in any free product well during that time frame, cessation of all free product activities will then be requested from the IDNR.

Monitoring Well Installation, Repair and Abandonment

All monitoring well installations will be completed utilizing one of two drill rigs currently owned and operated by Impact7G. Permanent monitoring wells will be installed using our CME Auger Drill Rig. Hollow stem augers (8" outside diameter) will be utilized to advance each monitoring well to the appropriate depth. IDNR Tier 1 Guidance states all permanent monitoring wells are required to be advanced to the maximum of ten feet below the first encountered groundwater or to the bottom of soil contamination as estimated by field screening (PIDs <10 ppm). PVC screen and casing (2" diameter, Schedule 40), sand (to 1 foot above the screen) and bentonite will complete the remainder of the well. At least 3 feet of PVC riser will be utilized unless IDNR permission is obtained to utilize less. An adjustable j-plug will be inserted in the top of the casing to prevent surface runoff from entering the well. The well will be completed with a permanent steel manway. Permanent monitoring wells will be developed by purging approximately 5 calculated well volumes. Purging and sampling will be completed using either a disposable bailer or a peristaltic pump with disposable tubing. Purged groundwater will be disposed of on the adjacent ground unless containment and disposal is required by the owner.

Temporary monitoring wells will be installed utilizing our track-mounted Geoprobe unit. Currently IDNR only allows the use of temporary monitoring wells in limited instances and does not specifically have any guidance regarding their installation. As such, accepted EPA specifications (Expedited Site Assessment Tools for Underground Storage Tank Sites, EPA 510-B-97-001) for the installation of temporary monitoring wells will be used by Impact7G unless directed otherwise.

Direct push rods (2.25" outside diameter) will be advanced to the appropriate site specific depth. PVC screen and riser (1" diameter, Schedule 40) will be placed in the well. The well will be developed

by purging approximately 5 calculated well volumes. Purging and sampling will be completed using either a disposable bailer or a peristaltic pump with disposable tubing. Purged groundwater will be disposed of on the adjacent ground unless containment and disposal is required by the owner.

All monitoring well installations and abandonments will be overseen by an Impact7G Certified Well Driller. Following installation of each monitoring well, a borelog summarizing pertinent lithologic information and construction details of the well will be provided to the IDNR on Form 542-1392. All abandonments will take place in accordance with Iowa Administrative Code 567 Chapter 39, "Requirements for Properly Plugging Abandoned Wells." This includes the removal of casing to 4 feet below ground surface, filling the well with bentonite to 3 feet below ground surface, then filling the remaining 3 feet with soil. An Abandoned Well Plugging Record (DNR Form 542-1226) will be provided to the IDNR for each abandoned well.

Repair activities will be performed on an as-needed basis. Monitoring wells will be checked during each site visit to find any repairs that are needed. Typical repair activities include cutting down well casings, j-plug replacement, manway lid replacement and/or complete manway repair.

Multi-Media Sampling and Analytical Testing

Soil gas wells installed for the purpose of monitoring soil will only be installed if the soil source depth is not submerged. Soil gas wells installed for the purpose of monitoring groundwater, will be installed within 1 foot of the static water level. Soil gas wells will be installed via borings using Impact 7G's Geoprobe unit. Each well will be fitted with 1" diameter PVC casing perforated in the lower 12 inches. Sand backfill will be placed in the hole to approximately 6" above the top of the screen. The remaining borehole will be backfilled with bentonite and the casing capped. The well will then be allowed to stabilize 24 hours.

Prior to sampling, the well cap will be removed and replaced with a temporary seal (cellophane) to minimize mixing with ambient air. Samples will be collected with a laboratory calibrated pump, tubing, and carbon sampler tube. The ends of a sampler tube will be broken, connected to the tubing, and then placed within six inches of the bottom of the well. The pump will be turned on and a sample volume of 200 ml will be drawn through the sampler tube. Upon completion, the sampler tube will be removed from the well, disconnected from the tubing, and recapped. All samples will be transported to TestAmerica Laboratories under chain of custody documentation and analyzed for applicable chemicals of concern.

Petroleum release 'forensic' analyses

Senior Technical Advisor James Marek, CGP, serves as an expert to the Iowa UST Program and Petroleum Marketers Management Insurance Company (PMMIC) in determining allocation of responsibility of "Old" versus "New" contamination at LUST sites. He receives site assignments, then reviews data available from work completed at a subject site. The review includes soil, groundwater, and soil gas analytical data; vertical and horizontal contamination distribution; geology; hydrogeology; LNAPL (if present) distribution and speciation (where data allows); contamination trends versus time; attenuation indicators; forensic markers (i.e. MtBE); as well as receptors affected in the allocation evaluation. The allocation takes into account all costs for assessment (Tier 1, Tier 2, and/or Tier 3); CADR and remediation measures required to allow reclassification of a site to No Action Required by the Iowa DNR. Old contamination is defined as contamination discovered before

the 10/26/1990 statutory deadline for owners/operators to be eligible for a claim. New contamination is defined as contamination present from a release after the 10/26/1990 date where PMMIC retains financial responsibility through insurance coverage underwritten by PMMIC. The subrogation arrangement between the parties prevents potential costly litigation.

In addition, it may be necessary to perform forensic analysis on free product samples to determine age and/or composition due to the nature of NFA sites. Impact7G will work with our laboratory, TestAmerica, to complete the appropriate testing and analysis. In the event TestAmerica does not offer the appropriate testing method for the situation, an alternate laboratory previously used and approved by the IDNR for forensic analysis will be used.

Record Searches

Record searches may be necessary to document information pertaining to operational history of a site and its neighboring properties, number of current or former tanks onsite and their contents, and previous RBCA reports. The majority of information pertaining to leaking underground storage tank (LUST) sites in Iowa is available online (UST/LUST Database) or electronically via the IDNR records department. Most information is free or relatively inexpensive to obtain. Other sources of information utilized by Impact7G may include fire insurance maps, local historical societies, IDNR's Facility Explorer, or the Environmental Protection Agency (EPA).

2.0 Vendor Background Information

Name:	Impact7G, Inc.
Address:	6505 Merle Hay Rd, Suite B Johnston, Iowa 50131
Telephone:	(515) 473-6256
Fax:	(515) 473-8005
E-mail:	rpeterson@impact7g.com
Website:	www.impact7g.com
Business Type:	S Corporation
State of Incorporation:	Iowa
Other Offices:	110 1st St. East Independence, Iowa 50644 (319) 334-7121 475 Cleveland Avenue N, Suite 307 St. Paul, MN 55104 (651) 325-8659
Number of employees:	18
Type of business:	Professional Services: Environmental and Sustainability Consulting
Contractual Representative:	Ryan Peterson 6505 Merle Hay Rd, Suite B Johnston, Iowa 50131 (515) 473-6256
Scheduling Representative:	Megan Down 6505 Merle Hay Rd, Suite B Johnston, Iowa 50131 (515) 473-6256
Subcontractor Representative: (Analytical Services)	Rowdy Bindert TestAmerica 704 Enterprise Dr. Cedar Falls, IA 50613 (319) 277-2401
Contractor's accounting firm:	Meriwether, Wilson and Company, PLLC West Des Moines, IA

3.0 Experience

Impact7G was incorporated in January of 2011. We have built a diverse client base that includes numerous Iowa municipalities, Fortune 500 companies, small businesses and regional and national consulting firms. We are a sustainable company with multiple contracts and projects that are ongoing with completion dates that span the course of several years. Impact7G personnel understand the commitment of completing projects not just on time and on budget, but in a manner that exceeds our clients' expectations.

Number of Years in Business: Five (5)

Number of Years' Experience: Five (5) for the firm, however individuals included in this proposal have a combined total of more than 90 years' experience on underground storage tank projects with multiple environmental firms.

Level of Technical Experience: Impact7G's senior staff have a tremendous amount of underground storage tank experience. This includes all facets of site investigation, remediation and closure. Over the past 20 years Impact7G personnel have worked on hundreds of UST sites throughout the state. This includes a wide array of complex sites that have had a variety of innovative remediation designs. Impact7G's experience has provided us the capability to excel in the environmental market and with in-house drilling capabilities our scheduling and cost effectiveness have proven to be huge assets for our clients.

List of all Goods/Services: Impact7G consists of a dedicated and committed group of talented individuals offering diverse services in environmental compliance, community redevelopment, natural resources, sustainability and environmental & geotechnical drilling. Our staff members have educational backgrounds in environmental science, geology, biology, community planning, forestry and risk management. With a variety of projects including but not limited to: brownfields redevelopment, hazardous materials management and design/build of renewable energy systems, our employees stay tuned with cutting edge technologies with regard to environmental projects and processes. Additional information our projects and services can be found at www.impact7g.com.

Letters of Reference: Please find the following three (3) letters of reference for Impact7G projects as provided by our clients.

- Iowa Interstate Railroad, LTD – 9LTQ83
- Former Colfax Apco Site – 7LTN97
- Stantec Consulting Services, Inc. – Multiple Sites

Iowa Interstate Railroad, LTD.
5900 6th Street Southwest
Cedar Rapids, Iowa 52404-4804
Office: (319) 298-5400
FAX: (319) 298-5457

October 21, 2015

Iowa Underground Storage Tank Fund Program
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

Subject: Project Reference for Impact7G

Dear Mr. Gastineau:

Iowa Interstate Railroad (IAIS) is pleased to write a letter of reference for Impact7G. They performed underground storage tank services for LUST Site 9LTQ83 in 2014 and 2015. IAIS sought proposals from firms qualified with underground storage tank projects and selected Impact7G. They completed the following services: Limited Subsurface Investigation, Tank Removal (Two 12,000 gallon USTs), Contaminated Soil Excavation, Tier 1 Report and Monitoring Well Abandonment. In June of 2015 we received a No Action Required Classification and in September of 2015 we received site closure with the No Further Action certificate.

IAIS was extremely pleased with how quickly and cost effectively these services were completed and the professional manner with which they were completed in. We would not hesitate to utilize Impact7G again for future environmental services.

If IAIS can be of further assistance, please do not hesitate to contact us at 319-298-5424.

Respectfully,

Greg Mitchell
Office Engineer
Iowa Interstate Railroad
5900 6th Street S.W.
Cedar Rapids, IA 52404
319-298-5424
gdmitchell@iaisr.com

October 20, 2015

Iowa Underground Storage Tank Fund Program
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

Subject: Project Reference

To Whom It May Concern:

It is my pleasure to write a letter of reference for Impact7G. They have been performing underground storage tank services for LUST Site 7LTN97 since May of 2014. Prior to this date, services were completed by Marek Industries, which was acquired by Impact7G at that time.

Impact7G has performed all duties required by IDNR in a professional manner. All requisite reporting for field work completed to date has been accomplished prior to the established deadlines. I maintain an excellent working relationship with Impact7G and look forward to a successful completion of our project.

If I can be of further assistance, please do not hesitate to contact me at 515-249-7948.

Sincerely, Ron Kendall

Ron Kendall
Former Colfax Apco Site
442 East Miller Avenue
Des Moines, IA 50315
515-249-7948
zrx11ron@aol.com

Stantec

Stantec Consulting Services Inc
27offo Haggerty Road Suite C 11, Farmington Hills MI 48331

October 26, 2015

Iowa Underground Storage Tank Fund Program
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

Subject: **Project Reference for IMPACT7G**

Dear Mr. Gastineau:

Please consider this letter of reference for Impact7G. It is our understanding they will be submitting a proposal for environmental support services for the Iowa Department of Natural Resources. I have had the pleasure of working with Jim Marek (formerly of Marek Industries) on multiple underground storage tank sites within the state of Iowa.

Jim displayed a technical expertise with regard to obtaining closure on active UST sites. By analyzing both current and historical data, Jim came up with a detailed course of action that was both cost effective and time sensitive on each project.

Sites included:

- Former Sunoco Station in LeMars, IA – 9LTC02
- Former Sunoco Station in Dyersville, IA – 8LTX66
- Former SunRay DX in Bode, IA – 7LTS19

We were very pleased with the support and knowledge that Jim provided on the above listed projects and would have no objection to working with him again in the future. If questions arise, please do not hesitate to contact me at 248-489-5900.

Sincerely,
Stantec Consulting Services Inc.

Jeffrey D. Goedtel CPG
Principal Geologist

Three (3) Reference Projects: Please find the following three (3) reference projects that provide a small sample of Impact7G, Inc.'s experience in the UST investigation, removal, and closure arena:

Client:	**Iowa Interstate Railroad, LTD.**
UST/LUST No.	**201400022 / 9LTQ83**
Contact:	**Greg Mitchell**
Telephone:	**(319) 298-5424**
Location:	**Railroad ROW, Atlantic, IA 50022**
Services:	**Limited Subsurface Investigation, UST Removal, Contaminated Soil Excavation, Tier 1 Report and Monitoring Well Abandonment**
Personnel:	**Ryan Peterson, Megan Down, James Marek, John Coons, Kenneth Butler**
Budget:	**$136,000**
Dates:	**April 2014 – September 2015**
Subcontractors:	**TestAmerica, American Backhoe**

Based on the presence of two unidentified underground storage tanks, Impact7G performed a Limited Subsurface Investigation (LSI) for the Property located within the railroad right-of-way, in Atlantic, Iowa, for Iowa Interstate Railroad, LTD. The LSI identified several contaminants in both soil and groundwater associated with the two USTs. Based on the presence of TEH constituents within the soil samples and BTEX/TEH constituents in the groundwater samples, the IDNR was notified and provided a copy of the report for their review.

In October 2014, the two rail car tanks were removed and over excavation of contaminated soil was completed. Approximately 400 cubic yard of contaminate soil were removed from the property and land farmed outside of Atlantic, IA. Soil samples were collected in accordance with IDNR tank closure and excavation guidance from the walls and floor of the tank pit and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and total extractable hydrocarbons (TEHs). Laboratory analysis of the soil samples revealed all concentrations are below the IDNR Tier 1 Guidance Levels. Following completion of the over excavation, six monitoring wells were advanced around the former tank pit to satisfy IDNR tank pull and Tier 1 monitoring requirements. Soil and groundwater samples were collected and analyzed for BTEX and TEHs. Laboratory analysis of the soil samples revealed concentrations were all below the IDNR Tier 1 Guidance Levels. Laboratory analysis of the groundwater samples revealed concentrations of TEH-Diesel above the IDNR Tier 1 Guidance Levels.

A Tier 1 Report was competed and submitted to the IDNR and accepted as No Action Required in June of 2015. Monitoring wells were subsequently abandon and all forms were submitted to the IDNR. The site received a No Further Action certificate in September of 2015.

Client:	**Veterans Administration Medical Center**
UST/LUST No.	**198610213 / 9LTN80**
Contact:	**Mark Balodis**
Telephone:	**(319) 325-8039**
Location:	**VA Medical Center, 601 Highway 6, Iowa City, IA 52246**
Services:	**Underground Storage Tank Removal/Installation, Contaminated Soil Removal, Tier 2 Assessment, Free Product Recovery**
Personnel:	**Ryan Peterson, Megan Down, Jeromy Pribil, Jon Reis, John Coons**
Budget:	**$490,000**
Dates:	**September 2008 - Current**
Subcontractors:	**TestAmerica, Environmental Management Services, Lee & Ryan Environmental Consultants (Contracted by VAMC)**

This project included the completion of plans and specifications for a public bid with environmental oversight during the removal of six underground storage tanks (USTs) and the installation of two fiberglass tanks at the Veterans Administration Medical Center in Iowa City, IA. This project was originally started while Mr. Peterson was employed by a local engineering firm, but was transferred to Impact7G upon the firm's establishment. The tanks to be removed included three 20,000 gallon, two 25,000 gallon and one 500 gallon USTs. The five larger tanks were located near the medical centers only loading dock so a tank removal sequence was specified that kept the dock in operation throughout the project. The project included the installation of two new 20,000 gallon double wall fiberglass USTs and associated double wall piping. An opinion of probable cost of $383,295 was submitted to the VAMC prior to bids being received. Actual cost of the project (minus soil excavation) was approximately $372,000.

Soil and groundwater contamination was discovered during the removal of the three 20,000 gallon USTs and approximately 360 tons of contaminated soil was excavated and disposed of at a permitted land farm near West Branch, IA. The IDNR was immediately notified of the contamination and an UST Closure Report was completed and submitted. In addition, a Tier 2 Site Cleanup Report was completed and submitted to the IDNR and has since received a No Action Required classification. Impact7G is currently conducting monthly free product recovery and quarterly reporting.

Client:	**Suburban Investors, LLC**
UST/LUST No.	**198606459 / 9LTJ26**
Contact:	**John Cress**
Telephone:	**319-354-5103**
Location:	**Suburban Amoco-BP Station, 1905 Keokuk St, Iowa City, IA 52240**
Services:	**Free Product Recovery, SVE System, Air Sparging System, Revised Tier 2, CADR, Annual SMRs, Well Abandonment**
Personnel:	**James Marek**
Budget:	**$490,000**
Dates:	**May 2003 – March 2011**
Subcontractors:	**TestAmerica, Heartland Environmental Services**

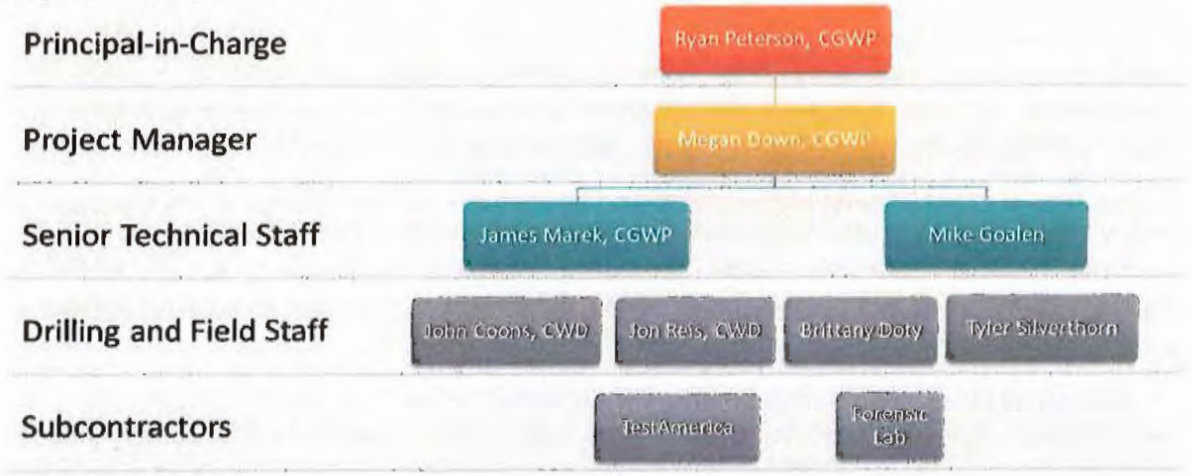
An estimated 6,000 gallon gasoline release occurred in 2002 at the Suburban Amoco-BP Station in Iowa City. A large plume of free product and dissolved phase gasoline resulted and extended as far as 1,500 feet down gradient of the source. After initial free product abatement activities, an interim soil vapor extraction (SVE) system was installed using an existing monitoring well and operated for approximately eight months. During the interim measures, a larger capacity SVE system was designed. It was later installed and initiated in March of 2005 to extract free product and soil contamination from five SVE wells on the property and on the adjacent property to the south. The SVE system was augmented in June 2006 through installation of an Air Sparging (AS) system attached to three sparge wells. The system was removed in November 2007 as free product had not been detected for at least 12 consecutive months. Additionally, PID concentrations in the SVE off gas were significantly reduced since system start up, and groundwater concentrations were below applicable SSTLs in all but one monitoring well. The system operated and removed a total of **21,131** pounds of volatile hydrocarbons (equivalent to **3,480** gallons of gasoline). A CADR was prepared and submitted to the IDNR and was accepted after the system had been shut down.

A meeting was held with the IDNR and resulted in the allowance for completing a new post-remediation Tier 2 SCR. The new Tier 2 SCR reclassified the site from high risk to low risk. A soil gas point was installed to clear the low risk soil vapor pathways that remained, and the site was reclassified to No Action Required. The system and site related wells were plugged and the site was provided a No Further Action certificate in 2011.

4.0 Personnel and Equipment

Impact7G has the experienced and qualified personnel to fulfill the UST Fund tasks likely to be issued under this proposed contract. In addition Impact7G owns or has direct access to all the equipment that might be needed to fulfill requisite task orders. The following organizational charts show the key project team members being proposed to manage task orders associated with an UST Fund contract and company organization, respectively. Brief biographies of the key team members for this Proposal follows the organizational chart. A list of Impact7G, Inc.'s on-hand equipment is provided at the end of this Section.

Proposal Hierarchical Chart:



Firm Hierarchical Chart:

Brief resumes of key personnel:

Ryan L. Peterson, CGWP (#1966) UST Remover (#1276) – *Principal-In-Charge*

As President of Impact7G, Ryan oversees the operations of the company's six business lines which include: Environmental Compliance, Community Redevelopment, Natural Resources, Sustainability, Environmental and Geotechnical Drilling and Telecommunications Services. Ryan formed Impact7G as a professional services firm based on today's economy. In a time when consulting is viewed more as a commodity rather than a valued service, Ryan's mission for Impact7G is to focus on client's needs, exclusively.

Ryan has over 15 years of management experience with environmental projects including: Underground Storage Tank Investigations, including Tier 1, Tier 2, Tier 3 Reports and Site Monitoring reports, EPA Brownfield Projects, Phase I and II Environmental Site Assessments, Indoor Air Quality Investigations and Asbestos & Lead Based Paint inspections and abatement projects. He has assisted multiple communities accomplish large scale demolition projects that have led to successful redevelopment. Ryan has managed numerous NEPA assessments and has significant experience with cultural resource studies, environmental impact studies and public involvement.

Ryan is an Iowa Certified Groundwater Professional and Licensed Tank Remover that has provided oversight and operation and maintenance on projects for contaminated soil and groundwater throughout Iowa per Iowa Department of Natural Resources regulations. He has completed numerous field tasks including: underground storage tank removal, remediation system installation, groundwater and soil vapor monitoring well installation and sampling.

Ryan has provided consultation, field testing, and sampling relating to industrial hygiene and indoor air quality issues for multiple clients throughout the nation and is currently a member of the Indoor Air Quality Association. In addition, he has managed multiple asbestos and lead based paint inspection and abatement projects in accordance with local, state and federal regulations.

EDUCATION

B.S., Community and Regional Planning with Environmental Emphasis, Iowa State University, 1999

YEARS OF EXPERIENCE: Impact7G, Inc.: 4.5 Years Other Firms: 11.5 Years

REGISTRATION/LICENSE

Registered Environmental Manager, #512848380
Certified Groundwater Professional, Iowa, #1966
IDNR Underground Storage Tank Remover, #1276
State of Iowa Certified Asbestos Inspector
State of Iowa Lead Inspector/Risk Assessor
OSHA 40-Hour HAZWOPER

PROFESSIONAL AFFILIATIONS

Environmental Professionals of Iowa
Indoor Air Quality Association
Iowa Environmental Council
Johnston Rotary Club

Megan Down, CGWP (#2008) – Project Manager

Megan has a total of eleven years of experience in the environmental consulting industry. As a Project Manager for Impact7G, Megan primarily oversees the investigation, remediation, and reporting of Leaking Underground Storage Tank (LUST) sites, Free Product sites, and Contaminated sites across Iowa. Her experience in the environmental consulting industry includes, but is not limited to Risk Based Corrective Action (RBCA) investigations (Tier 1/2/3 Site Cleanup Reports, Site Monitoring Reports), free product removal technologies, Corrective Action Design Reporting (CADR), chemical oxidation injection remediation, laser induced fluorescence (LIF) plume definition, soil excavation, land farm application, emergency spill response management and reporting, and Phase I/II Environmental Site Assessments.

As a Certified Groundwater Professional, Megan has extensive knowledge of Iowa's RBCA Guidance and procedures. Her experience has included review of RBCA Reports, where she was responsible for interpretation and application of Guidance to write acceptance/rejection letters on behalf of the Iowa Department of Natural Resources (IDNR). She has conducted field work including but not limited to well installation, sampling, free product recovery, remediation system monitoring/maintenance, and landfarming. She has simultaneously managed upwards of 30 LUST sites ensuring all sites met applicable monitoring, corrective action and/or reporting requirements. She has completed numerous Corrective Action Meetings coordinating with IDNR project managers, clients, and funding agencies to ensure sites reach No Action Required classifications as quickly and efficiently as possible.

Megan has also completed numerous Phase I/Phase II Environmental Site Assessments and qualifies as an Environmental Professional. She has performed all aspects of Environmental Site Assessments including on-site visual inspections, soil and groundwater sampling, report writing and report review. She has assisted in further investigation of properties deemed environmental concerns through tank closures and Tier 1 Site Cleanup Investigations

EDUCATION

B.S. Geology, Iowa State University, Ames, Iowa, 2004

YEARS OF EXPERIENCE: Impact7G, Inc.: 1 Year Other Firms: 10 Years

REGISTRATION/LICENSE

Iowa Certified Groundwater Professional – #2008
OSHA 40-Hour HAZWOPER Certification
8-Hour OSHA Refresher Training, Annually

PROFESSIONAL AFFILIATIONS

Registered Field Geologist, State of Kansas
Environmental Professionals of Iowa
Iowa Environmental Council

James Marek, CPG (#8668), CGWP (#1071) – *Senior Technical Advisor*

As Senior Technical Advisor, Jim offers over 25 years of field experience, project management, client service, and business management to a project team. His background and experience includes direct involvement with and management of environmental compliance audits, assessments, and remediation projects at commercial and industrial sites, former manufactured gas plant (FMGP) sites, leaking UST (LUST) sites, state lead hazardous waste. He writes and reviews technical documents, and provides QA/QC review of documents produced as client/agency deliverables.

Jim provides direction to technical personnel to assure environmental industry standards are achieved or exceeded. His work is built on sound foundations dedicated to business practices that inspire responsibility, integrity, health and safety, character, team-work, and decision making which all lead to successful project execution. He is an innovator and is a willing participant on constant improvement processes and practices to advance projects though closure.

Jim has worked on and managed hundreds of LUST related projects. LUST projects involved UST system closures; rapid response work including vapor mitigation & free product removal; site assessments including Risk-Based Corrective Action (RBCA) Tier 1, Tier 2 and Tier 3 programs; Remediation Pilot Testing & Corrective Action Design Reports (CADRs); Implementation of CADRs; Remediation System installation & construction oversight; Remediation system O & M; SMRs; and site closure.

EDUCATION

B.S. Geology, University of Iowa, 1986

YEARS OF EXPERIENCE: Impact7G, Inc.: 1 Years Other Firms: 24 Years

REGISTRATION/LICENSE

Certified Professional Geologist, AIPG # 8668
Certified Groundwater Professional, Iowa #1071
OSHA 40-Hour HAZWOPER

PROFESSIONAL AFFILIATIONS

American Institute of Professional Geologists
Environmental Professionals of Iowa
National Groundwater Association

Mike Goalen – Petroleum Site Technical Specialist
Michael has over fifteen years of extensive experience in managing and completing environmental projects which include: National Environmental Policy Act (NEPA) assessments, Phase I and II Environmental Site Assessments (ESA), vapor intrusion assessments, demolition and renovation projects, soil and groundwater remediation, and cleanup projects at various sites including petroleum, superfund, and agricultural chemical sites.

Mike has consulted on numerous petroleum projects throughout Iowa and Minnesota. Mike has worked closely with municipalities, state and federal regulators and the citizens within petroleum release project areas in an effort to successfully implement site closures. Mike has participated in Tier I and II reports, field monitoring, sampling, and free product recovery, risk assessment, and remedial and removal activities.

Michael has completed work throughout Iowa and Minnesota under Iowa's Leaking Underground Storage Tank (LUST) fund and through the MPCA Petroleum Remediation Program. Underground storage tank (UST) field work includes the instillation and monitoring of remediation systems, bioremediation implementation, sampling of soil, vapor and groundwater, the retrieval and disposal of free product, geotechnical investigations including soil classification, and site surveying.

He has completed numerous field tasks including: remediation system installation, groundwater and soil vapor monitoring well installation and sampling and conducting sampling events for waste water and storm water projects.

EDUCATION
B.S., Forest Resources with Soils and Hydrology Emphasis, University of Georgia, 1998

YEARS OF EXPERIENCE: Impact7G, Inc.: 3 Years Other Firms: 12 Years

REGISTRATION/LICENSE
40 hour OSHA 1910.120 HAZWOPER certification
American Red Cross CPR and First Aid

PROFESSIONAL AFFILIATIONS
National Groundwater Association
MN Groundwater Association
MN Brownfields Association

Jon Reis – *Environmental Specialist*

Jon has six years of experience in completing a variety of environmental projects including: Phase I and II Environmental Site Assessments (ESA), Asbestos Surveys, Lead-Based Paint Surveys, Brownfield Site Investigations, National Environmental Policy Act (NEPA) assessments, Nationwide Programmatic Agreement reviews, threatened and endangered species reviews and Wetland Delineations. Jon has a wide range of environmental field skills that include soil, water and air quality testing and data analysis, environmental reporting, environmental drilling using a Geoprobe® drill rig and management of sub consultants. Jon is typically responsible for subcontractor and client relations on a variety of environmental projects. In addition, Jon has completed Tier 1 Assessments within the Iowa underground storage tank program.

EDUCATION

B.S., Geology Iowa State University, 2006; M.S., Geology, Iowa State University, 2009

YEARS OF EXPERIENCE: Impact7G, Inc.: 4 Years Other Firms: 2 Years

REGISTRATION/LICENSE

Certified Well Driller, IA DNR Certification ID #9921
OSHA 40-Hour HAZWOPER
State of Iowa Certified Asbestos Inspector
State of Iowa Lead Inspector/Risk Assessor
Army Corps of Engineers Certified Wetland Delineator Course

Other Proposed Support Staff:

Other support staff for this proposed contract include John Coons with 30+ years of well drilling experience (IA DNR Certification ID #1986), Brittany Doty with several years of field technician experience and Tyler Silverthorn, a GIS specialist and field technician.

Field Equipment List:

Equipment Name
CME Auger Drill Rig
Geoprobe Unit-6712
RAE 11.7 eV PID in Pelican Case (SVOC)
RAE 10.6 eV PID in Pelican Case (VOC)
Heron Oil/Water Interface Probe (60')
Solinist Water Meter (100')
Depth to water Meter
GAST Vacuum Pump
YSI Temp/Dissolved Oxygen Meter
Oakton pH/Conductivity ORP Meter
RAE "Draeger" Monitor Pump
Dwyer Magnehelic Gauges (x5)
Vapor Pin Kit
Wetland Probe
Spotting Scope
XRF Analyzer
Field Analyzer for XRF
Noise Dosimeters (x5)
4 Gas Meter
5 Personal Air Monitoring Pumps
4 Area Monitoring Pumps
Fall Protection harness
Aero Sills Bio Pump (mold)
Humidity Moisture Gage
Humidity Meter
Survey Tripod and Rod
Metal Detector
Hand Auger kit
Hand Auger and case
ATV w/ Trailer
Misc Hand Tools
Tyvek Suits
Disposable Air Cartridges
Disposable Bailers (1")
Disposable Bailers (2")

5.0 Subcontractors

Subcontractor: TestAmerica Cedar Falls

Date Established: 1969

Iowa DNR Certified Lab: Yes

Lab Geographic Location: Cedar Falls, Iowa

TestAmerica is a certified laboratory registered with the Iowa Department of Natural Resources. As all environmental drilling and tank removal oversight will be completed in house by Impact7G, it is anticipated that the laboratory will be the only non-single use contractor utilized for this contract with the exception of any unique forensic analysis that TestAmerica might not be able to process.

Company History: TestAmerica Analytical Testing Corporation was created in 2003 by HIG Capital of Miami for the purpose of purchasing TestAmerica Testing Corporation, which had previously solidified its place as an environmental testing industry leader. Through a variety of mergers and acquisitions, TestAmerica has become one of the nations' largest analytical laboratories.

The Cedar Falls laboratory has been providing environmental lab services to communities and customers in Iowa and the Upper Midwest since 1969. The laboratory, originally owned and operated by Bob Corning as Corning Labs, was purchased by SERCO Laboratories in 1979 and later acquired by National Environmental Testing in 1988. TestAmerica purchased NET in 1998.

Cedar Falls provides environmental and industrial hygiene testing services for industries, consulting environmental engineers, waste management companies; and for city, county and state governmental agencies. TestAmerica is a full service environmental laboratory and supports large remediation and clean-up projects on a regular basis. The Cedar Falls lab has provided laboratory analytical support for a number of large Brownfields and land redevelopment projects in Iowa and other states. Accurate and defensible scientific information is obtained through the application of chemistry and a rigorous quality control program. The Cedar Falls laboratory is currently certified by the states of **Iowa**, Oregon, Illinois, Kansas, Wisconsin and Minnesota for environmental laboratory analyses.

The Cedar Falls facility houses 12,000 square feet of laboratory space, with 45 employees on two work shifts, and the laboratory also accepts samples on Saturdays. The Cedar Falls laboratory employs highly experienced chemists, many of whom have worked at the laboratory for 10 – 20 years.

6.0 Financial Information

Impact7G, Inc. is pleased to provide the following three financial references.

MERIWETHER, WILSON AND COMPANY, PLLC
CERTIFIED PUBLIC ACCOUNTANTS

WILLIAM H. BOORN, CPA
DENNIS C. MUELLER, CPA
STEPHEN L. KOPPA, CPA
SUSAN K. CHANTLAND, CPA
C. MARK LINCOLN, CPA
SCOTT W. MILLER, CPA
WILLIAM J. BAUER, CPA
WENDY O. WEDNER, CPA
JON J. PAULSEN, CPA
MICHAEL T. BURTON, CPA
TODD E. GLYNN, CPA
RANDALL A. JONES, CPA
BENJAMIN A. PETERSON, CPA
BARRY W. BOORN, CPA
DARREN D. LINDSTROM, CPA

OFFICES AT
REGENCY WEST 6
4500 WESTOWN PARKWAY, SUITE 140
WEST DES MOINES, IOWA 50266-6717

1307 2ND STREET, PERRY, IOWA 50220

TELEPHONE
WEST DES MOINES ... 515/223-0002
PERRY ... 515/465-3501

FAX
WEST DES MOINES ... 515/223-0430
PERRY ... 515/465-3503

October 19, 2015

Iowa Underground Storage Tank Fund Program
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

Subject: Financial Reference for Impact7G, Inc.

Dear Mr. Gastineau:

I am sending you this letter of recommendation on behalf of Impact7G, Inc. It is my understanding this financial reference letter is a requirement of an RFP for environmental services.

Meriwether, Wilson & Company, PLLC (MWC) has served as Impact7G's accounting firm since the company's incorporation in January of 2011. In addition to completing quarterly accounting services, MWC has prepared corporate income tax returns from 2011-2014.

Impact7G has remained in good standing with our firm since we began working together. Our invoices are processed timely and our account is currently in good standing.

If you need further information, please feel free to call me at 515-223-0002 or email me at bapcpa@mwcplc.com.

Sincerely,

Ben Peterson
Meriwether, Wilson & Company, PLLC
4500 Westown Parkway, Ste #140
West Des Moines, IA 50266

MEMBERS AMERICAN INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS

NORTHWEST BANK

3709 University Ave • Ste. 100
W. Des Moines, IA 50266
PHONE 515.974.4100
FAX 515.974.4102

1700 SE Delaware Ave.
Ankeny, IA 50021
PHONE 515.963.5040
FAX 515.963.5060

911 N Ankeny Blvd.
Ankeny, IA 50023
PHONE 515.963.8033
FAX 515.963.8164

WWW.BANK.NORTHWEST.COM

October 20, 2015

Iowa Underground Storage Tank Fund Program
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

Subject: Financial Reference

To Whom It May Concern:

Impact7G has requested a financial reference letter as it is our understanding they will be submitting a proposal for Environmental Support Services with the Iowa Underground Storage Tank Fund Program. Impact7G has been a client of Northwest Bank for approximately 5 years. Within that timeframe Impact7G has had several business loans, all of which have been paid in full or are currently in good standing. In addition, Impact7G has a line of credit with Northwest that currently has a zero balance.

Impact7G maintains a satisfactory business relationship with Northwest Bank. This reference letter is issued for the Iowa Underground Storage Tank Fund Program and does not impose any responsibility on Northwest Bank.

If we can be of further assistance, please do not hesitate to contact me at 515-963-5170.

Sincerely,

Matt Hurd
Vice President
Northwest Bank
911 N Ankeny Blvd
Ankeny, Iowa 50023

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 20, 2015

Iowa Underground Storage Tank Fund Program
2700 Westown Parkway, Suite 320
West Des Moines, IA 50266

Subject: Financial Reference Letter

Dear Mr. Gastineau:
TestAmerica is pleased to issue this financial reference letter on behalf of Impact7G. It is our understanding that they will be submitting a proposal for Environmental Support Services to the Iowa Underground Storage Tank Fund Program.
TestAmerica is the leading analytical laboratory for environmental testing services in the United States and has had an excellent working relationship with Impact7G since 2011. TestAmerica, an Iowa certified laboratory, has been providing soil and groundwater sample analysis as well as building material sample analysis with regard to asbestos and lead based paint on an ongoing basis.

Impact7G has maintained an excellent working relationship with TestAmerica and we look forward to providing assistance on this important project. TestAmerica would be happy to answer any questions you may have with regard to this matter. Please feel free to contact me at 319-269-2465 at your convenience.

Sincerely,

ROWDY BINDERT
Account Executive
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

3512 Monaghan Drive
Waverly, IA 50677

7.0 Termination, Litigation, Disbarment

Has the Contractor had a contract for goods and/or services terminated for any reason?
No

Describe any damages or penalties assessed against or dispute resolution settlements entered into by Contractor under any existing or past contracts for goods and/or services.
None

Describe any order, judgment or decree of any Federal or State authority barring, suspending or otherwise limiting the right of the Contractor to engage in any business, practice or activity.
None

A list and summary of all litigation or threatened litigation, administrative or regulatory proceedings, or similar matters to which the Contractor or its officers have been a party.
None

Irregularities discovered in any of the accounts maintained by the Contractor on behalf of others.
None

8.0 Acceptance of Terms and Conditions

By submitting this Proposal, Impact7G, Inc. acknowledges its acceptance of the terms and conditions of the RFP and the General Terms and Conditions without change except as otherwise expressly stated in its Proposal.

9.0 Certification Letter

October 26, 2015

James Gastineau, Deputy Administrator
Iowa Underground Storage Tank Fund Program Board
2700 Westown Parkway, Suite 320
West Des Moines, IA 50265

Re: RBCA 1509-01 – PROPOSAL CERTIFICATIONS

Dear Mr. Gastineau:

I certify that the contents of the Proposal submitted on behalf of Impact7G, Inc. (Contractor) in response to Board for RFP Number for Commodity Description 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,

Ryan Peterson, President

10/27/15
Date

10 Authorization to Release Information

October 26, 2015

James Gastineau, Deputy Administrator
Iowa Underground Storage Tank Fund Program Board
2700 Westown Parkway, Suite 320
West Des Moines, IA 50265

Re: RBCA 1509-01 – PROPOSAL CERTIFICATIONS

Dear Mr. Gasineau:

Impact7G, Inc. hereby authorizes the Iowa Underground Storage Tank Fund Program 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 1509-1.

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,

Impact7G, Inc.

10/27/15

Ryan Peterson, President Date

11 Firm Proposal Terms

Impact7G, Inc. guarantees that the goods and/or services offered in the Proposal are currently available and that all Proposal terms, including price, will remain firm for 120 days following the deadline for submitting Proposals.

Impact7G, Inc.

Ryan Peterson, President

12 Submittal Checklist

Attachment #3 Checklist of Submittals

RFP REFERENCE SECTION	RESPONSE INCLUDED		LOCATION OF RESPONSE
	Yes	No	
3.1.1. Number of Copies of the Bid Proposal	X		NA
3.1.2. One (1) Public Copy with Confidential Information Excised		X	NA
3.2.1 Transmittal Letter	X		Beginning of Part 1 Technical Proposal
3.2.2 Table of Contents	X		After Cov. Ltr Part 1, After Cover Part 2
3.2.3 Executive Summary	X		After Table of Contents Part 1 and Part 2
3.2.4 Technical Specifications	X		Part 1, Section 1
3.2.5 Vendor Background Information	X		Part 1, Section 2
3.2.6 Experience	X		Part 1, Section 3
3.2.7 Personnel & Equipment	X		Part 1, Section 4
3.2.7.5 Subcontractors	X		Part 1, Section 5
3.2.8 Financial Information	X		Part 1, Section 6
3.2.9 Termination, Litigation, Debarment	X		Part 1, Section 7
3.2.10 Acceptance of Terms and Conditions	X		Part 1, Section 8
3.2.11 Certification Letter	X		Part 1, Section 9
3.2.12 Authorization to Release Information	X		Part 1, Section 10
3.2.13 Firm Proposal Terms	X		Part 1, Section 11

RESPONSE TO RFP #: RBCA 1509-01

Part 2: Cost Proposal

For:

Environmental Support Services

Presented to:

James Gastineau, Deputy Administrator
Iowa Underground Storage Tank Fund Program
2700 Westown Parkway, Suite 320
West Des Moines, IA 50265

Presented by:

IMPACT7G

With assistance from:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 27, 2015

Table of Contents

1.0 Cost Proposal (Exhibit A)

Item	Cost	Unit
1. Report Costs		
(a) RBCA Tier 1	$1,350.00	per report
(b) RBCA T2	$2,000.00	per report
(c) SMR	$500.00	per report
(d) FP Assessment Rpt	$360.00	per report
(e) Free Product Recovery & Reporting		
1 - Mobilization	$300.00	per visit
2 - Free Product Measurement & Recovery	$40.00	per well
3 - Disposal of Water & Free Product	$1.10	per gallon
4 - Free Product Recover Report	$90.00	per report
5 - Other Costs	Cost + 15%	
2. Mobilization Costs		
(a) Mobilization including mileage / field staff	$250.00	per mobilization
(b) Mobilization including mileage / drilling rig	$500.00	per mobilization
3. Receptor Survey	$300.00	per survey event
4. Pathway Evaluations		
(a) Tier 2 Pathway Evaluations	$550.00	per pathway
(b) SMR Pathway Evaluations	$325.00	per pathway
5. Soil Borings		
(a) Soil Borings up to 25 ft	$450.00	per borehole
(b) Additional Cost per ft > 25 ft	$18.00	per foot
6. Monitoring Wells (inclusive of boring cost)		
(a) Monitoring wells up to 25 ft	$900.00	per well
(b) Additional Cost per ft > 25 ft	$30.00	per foot
7. Soil and Groundwater Sampling		
(a) Groundwater sampling - collection & analytical costs		
1 - Method OA-1, MtBE	$165.00	per sample
2 - Method OA-1	$130.00	per sample
3 - Method OA-2	$55.00	per sample
4 - Method OA-1, OA-2, MtBE	$205.00	per sample
(b) Soil sampling - collection and analytical costs		
1 - Method OA-1, MtBE	$165.00	per sample
2 - Method OA-1	$130.00	per sample
3 - Method OA-2	$55.00	per sample
4 - Method OA-1, OA-2, MtBE	$205.00	per sample
(c) Plugging of Monitoring Wells	$150.00	per well (<25ft)
(d) Well Abandonment Forms	$25.00	per form

Item	Cost	Unit
8. Sampling of Receptors - collection and analytical costs		
1 - Method OA-1, MtBE	$165.00	per sample
2 - Method OA-1	$130.00	per sample
3 - Method OA-2	$55.00	per sample
4 - Method OA-1, OA-2, MtBE	$205.00	per sample
9. Soil Gas Points @ 10 ft. per point	$525.00	per well
10. Soil Gas Sampling (NIOSH 1501)	$165.00	per sample
11. Hydraulic Conductivity Testing	$235.00	per test
12. Access Agreements	$135.00	per property
13. Utility Notification	$150.00	per utility
14. Iowa Groundwater Professional	$95.00	hourly

2.0 Criteria for Cost Evaluation (Exhibit C)

Item	Unit Rate	Units	Cost
Investigation			
Personnel Mobilization, 2 events (Item 2(a))	$250.00	2	$500.00
Drill Rig Mobilization, 1 event (Item 2(b)	$500.00	1	$500.00
Receptor Survey, 1 event (Item 3)	$300.00	1	$300.00
Soil Borings (25 ft) x 6 borings (Item 5(a))	$450.00	6	$2,700.00
Monitoring Well (25 ft) x 3 (Item 6(a))	$900.00	3	$2,700.00
Soil Samples (OA-1, mtbe) x 6 (Item 7(b)(1))	$165.00	6	$990.00
Groundwater Samples (OA-1, mtbe) x3 (Item 7(a)(1))	$165.00	3	$495.00
Off-site access requests, 1 request (Item 12)	$135.00	1	$135.00
Sampling of 3 water lines (OA-1, mtbe) (Item 8(a)	$165.00	3	$495.00
RBCA Tier 2 report (Item 1(b))	$2,000.00	1	$2,000.00
Free Product (FP) Recovery			
Mobilization x 3 events (Item 1(e)(1))	$300.00	3	$900.00
Measurement & recovery, 3 wells/event (Item1(e)(2))*	$40.00	9	$360.00
FP Recovery Report, 1 report (Item 1(e)(4))	$90.00	1	$90.00
Plugging of monitoring wells (3 wells) (Item 7(c))	$150.00	3	$450.00
Well Abandonment Forms (3 wells) (Item 7(d))	$25.00	3	$75.00
Other items (identified by Contractor)	$0.00	0	$0.00
**Note: Assumed 3/wells/event x 3 events = 9*		Total Cost:	$12,690.00