

INNOVATIVE

ENVIRONMENTAL SOLUTIONS, INC.

STATEMENT OF QUALIFICATIONS ENVIRONMENTAL CONSULTING SERVICES

MAY 31, 2013

Prepared For:

Prepared By:

Innovative Environmental Solutions, Inc.
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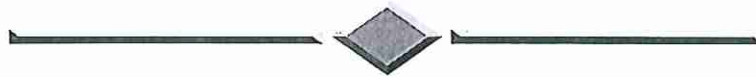
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APPENDIX 1



INTRODUCTION

MISSION STATEMENT

Innovative Environmental Solutions, Inc. (Innovative) provides the essential link between the numerous complex environmental regulations and the diverse challenges that our clients face. Our team of experienced scientists strive to know the applicable environmental regulation(s) and work diligently to implement the most cost effective action possible. Our team of environmental professionals consistently set the industry standard for product quality and superb customer service.

Innovative constantly assess its product quality and looks for ways to improve the content of our color CAD maps, to ease of understanding our analytical charts and to make the scientific report text more user friendly. Our goal is to produce the highest quality reports in the environmental industry, enabling the client and regulator to understand whether the project objective was achieved and what additional goals, if any, need to be set.

Innovative has maintained a philosophy of structuring an efficient corporate structure coupled with continuous investment in our employees. The goal for each of our team members is to encourage their growth, creativity and development of new skills associated with their career advancement.

INNOVATIVE ENVIRONMENTAL SOLUTIONS, INC.

Providing Cost Effective, Innovative Solutions To Your Environmental Challenges

West Michigan & East Michigan Office Locations

1-800-553-7474

COMPANY PROFILE

Innovative seeks to provide exactly what its name implies: innovative environmental solutions, designed to be cost-effective while meeting the specific needs of each of our clients.

Innovative has chosen the most highly skilled and experienced individuals to form its core of Project Scientists and support staff. Innovative is comprised of a group of seasoned environmental professionals possessing a variety of educational backgrounds. Each is experienced in the hands-on field activities and is well versed in the applicable regulations which govern our projects. Innovative's employees are certified by the appropriate agencies and received regular refresher training.

Innovative has adopted a philosophy of investing in our employees, in the most advanced office, computer and field equipment available in order to enhance the potential of each employee to become as productive and creative as possible, thereby servicing projects more effectively. This total quality management approach includes regular training sessions and encourages continuing education of its employees. Innovative has maintained a streamlined and very efficient corporate structure allowing Innovative's fees to be less than those of most other environmental service corporations.

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Corporate Officers

Jerome Meyer Shareholder and President/Treasurer

James Springstead Shareholder and Vice President/Secretary

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COMPANY HISTORY

Innovative started operations in August of 1995 providing basic environmental consulting services including Phase I environmental site assessment (ESA's), Phase II ESA's, baseline environmental assessments (BEA's), UST and LUST assessment and closure services. Since that time, Innovative has expended the services we provide by offering oil and gas storage field related environmental impact reports (EIR's), Phase I and Phase II Hydrogeological Studies, Groundwater Monitoring Reports, air, surface and groundwater discharge permitting activities and compliance monitoring reporting.

Innovative's clientele is largely based upon repeat customers and referrals. Innovative's high quality product, problem solving capabilities, well-trained employees, and the ability to fast track projects to assist our clients' needs, have all resulted in Innovative's secure foundation and fast and consistent growth. We have assisted businesses and individuals with a variety of environmental needs, ranging from UST removal site assessments, LUST assessments, Phase I ESAs, Phase II ESAs and Baseline Environmental Assessments (BEAs). Our project management team has conducted well over 1,000 environmental projects over the past fifteen years. Innovative's philosophy is based on a commitment to provide our clients with the highest quality environmental services and to build a close relationship with our clients in a team environment where innovative ideas are not just generated, but are applied to practical working environmental solutions.

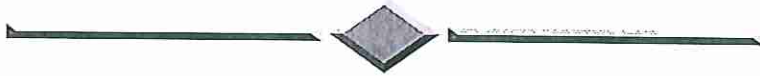
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APPENDIX 2



ENVIRONMENTAL SITE ASSESSMENT SERVICES



INNOVATIVE ENVIRONMENTAL SOLUTIONS, INC.

UST, LUST & CLOSURE ASSESSMENT & REPORTING SERVICES CHART

CORPORATE OFFICE:
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UST REMOVAL "CLEAN CLOSURE" SITE ASSESSMENT ACTIVITIES

- 30 Day Removal Notifications to MDEQ
- UST Removal Site Assessment Per Part 211
- UST Removal Site Assessment "Clean Closure"
- 45 Day Report Generation and Submittal
- Amended UST Registration Activities & Submittal
- Closure Report Tracking Services

UST REMOVAL CONTAMINATED SCENARIO ACTIVITIES

- UST Removal Site Assessment Field Screening
- 24 Hour Confirmed Release Reporting Activities
- UST Removal Site Assessment Part 213
- Detailed Scaled Site Mapping Services
- UST Removal Site Assessment Part 213 Reporting
- Amended UST Registration Activities & Submittal

HYDROGEOLOGICAL STUDY ACTIVITIES

- 90 Day Initial Assessment Delineation Services
- 365 Day Final Assessment Delineation Services
- Fate & Transport Modeling Delineation
- Vertical Aquifer Profiling & Reporting Activities
- Sensitive Receptor Assessment Evaluations
- Preferential Migration Pathway Evaluations
- NPDES Permitting Preparation & Sampling
- NPDES Permit Preparation of DMR's
- MDEQ Required Low Flow GW Sampling

LUST ASSESSMENT REPORT GENERATION & SUBMITTAL ACTIVITIES

- 90 Day Initial Assessment Reporting Activities
- 365 Day Final Assessment Reporting Activities
- FAR Corrective Action Plan Development
- LUST Closure Restrictive Covenant Generation
- LUST Closure Restrictive Covenant Filing
- LUST Closure Report Generation Activities
- LUST Closure Restrictive Covenant Generation
- FAR Feasibility Analysis Study to Evaluate & Cost Out Corrective Action Alternatives
- Quarterly Free Product Recovery Status Reports
- FAR CAP Groundwater Compliance Monitoring
- FAR CAP Progress Screening Reports
- Preferential Migration Pathway Studies
- Bldg Subslab Vapor Migration Analysis Studies
- Interior Storm Sewer Evaluation & Monitoring
- Sensitive Receptor Survey Evaluation Activities
- Liability Determination Request Reports

CORRECTIVE ACTION PLAN ALTERNATE ACTIVITIES

- 24 Hour Aquifer Pump Testing & Design
- 48 Hour Au Sparge/SVE Pilot Testing
- Remedial Excavation Closure Sampling
- Groundwater Pump & Treat Design & Install
- Air Sparging & SVE Systems Design & Install
- Bioassay Field Sampling, Analysis & Reporting
- Bioaugmentation Liquid Irrigation & Monitoring
- Biostimulation (ISOC) Injection & Monitoring
- Interior Sewer Videotaping for Infiltration
- Interior Sewer Crack/Joint Grouting Activities
- Natural Attenuation & Natural Biodegradation
- No Action Restricted Closure Activities
- Corrective Action Compliance Sampling Activities

SPCC/PIPP GENERATION & REPORT ACTIVITIES

- Detailed Sealed Site Mapping Activities
- Generation of Color CAD Scaled Maps
- Generation of SPCC Spill Response Plans
- Generation of Pollution Incident Prevention Plans

LUST ASSESSMENT & CORRECTIVE PERMITTING ACTIVITIES

- Potable Water Supply Replacement Permitting
- Road Right of Way Permitting Activities
- Offsite Access Agreements and Tracking

WHY ARE WE ONE OF THE BEST FIRMS IN THE INDUSTRY?

- ✓ Aggressive In House Training
- ✓ State of The Art Computer Software
- ✓ Color CAD Maps Included In All Reports
- ✓ Specializing in Fast Tracking



INNOVATIVE ENVIRONMENTAL SOLUTIONS, INC.

HYDROGEOLOGICAL STUDY SERVICES & REPORTING SERVICES CHART

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GROUNDWATER/SURFACE WATER" PERMITTING & SAMPLING ACTIVITIES

- NPDES GW & Surface Water Discharge Permitting
- NPDES GW & Surface Water Discharge Work Plans
- NPDES Discharge Monitoring Report Preparation
- NPDES GW & Surface Water Discharge Sampling
- Completion of Low Flow GW Sampling In Accordance with EPA and MDEQ Protocol

PART 201 ASSESSMENT/DELINEATION AND CORRECTIVE ACTION SERVICES

- Part 201 Remedial Investigation Studies/Reports
- Part 201 Feasibility Studies & Pilot Testing
- Part 201 Remedial Action Plans & RAP Design
- Part 201 Closure Assessment & Reporting
- Part 201 Liability Determination Request Reports
- Part 201 Mixing Zone Determination Studies

HYDROGEOLOGICAL STUDY ACTIVITIES

- Environmental Impact Reports
- Phase I Environmental Site Assessments
- Phase I Hydrogeologic Study Reporting
- Phase II Hydrogeologic Study Reporting
- Sentinel Well Installation and Monitoring
- Groundwater Monitoring Plan Services
- Potable Well Methane Baseline Testing
- NPDES W/WTP Discharge Permitting

LUST ASSESSMENT REPORT GENERATION & SUBMITTAL ACTIVITIES

- 90 Day Initial Assessment Reporting Activities
- 365 Day Final Assessment Reporting Activities
- FAR Corrective Action Plan Development
- LUST Closure Restrictive Covenant Generation
- LUST Closure Restrictive Covenant Filing
- LUST Closure Report Generation Activities
- LUST Closure Restrictive Covenant Generation
- FAR Feasibility Analysis Study to Evaluate & Cost Out Corrective Action Alternatives
- Quarterly Free Product Recovery Status Reports
- FAR CAP Groundwater Compliance Monitoring
- FAR CAP Progress Screening Reports
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CORRECTIVE ACTION PLAN ALTERNATE ACTIVITIES

- 24 Hour Aquifer Pump Testing & Design
- 48 Hour Au Sparge/SVE Pilot Testing
- Remedial Excavation Closure Sampling
- Groundwater Pump & Treat Design & Install
- Air Sparging & SVE Systems Design & Install
- Bioassay Field Sampling, Analysis & Reporting
- Bioaugmentation Liquid Irrigation & Monitoring
- Biostimulation (ISOC) Injection & Monitoring
- Interior Sewer Videotaping for Infiltration
- Interior Sewer Crack/Joint Grouting Activities
- Natural Attenuation & Natural Biodegradation
- No Action Restricted Closure Activities
- Corrective Action Compliance Sampling Activities

SPCC/PIPP GENERATION & REPORT ACTIVITIES

- Detailed Sealed Site Mapping Activities
- Generation of Color CAD Scaled Maps
- Generation of SPCC Spill Response Plans
- Generation of Pollution Incident Prevention Plans

LUST ASSESSMENT & CORRECTIVE PERMITTING ACTIVITIES

- Potable Water Supply Replacement Permitting
- Road Right of Way Permitting Activities
- Offsite Access Agreements and Tracking

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ENVIRONMENTAL SITE ASSESSMENT **SERVICES & CAPABILITIES**

Innovative provides a wide range of environmental site assessment and closure assessment services to its clientele in an innovative, cost-effective, and time-efficient manner. We have the expertise and state-of-the-art equipment to effectively assess environmental concerns and to provide a cost effective solution to each concern. Innovative provides professional assistance in the following areas:

- ❖ Phase I Environmental Site Assessments (ESAs)
- ❖ Phase II ESAs Including Analytical Testing
- ❖ Baseline Environmental Assessments (BEAs)
- ❖ Category N, D & S BEA Packages
- ❖ Magnetometer Surveys
- ❖ Underground Storage Tank (UST) Removal Site Assessments and Closure Reports
- ❖ 90 Day Initial Assessments, 365 Day Final Assessments & LUST Closure Reports
- ❖ Vertical Aquifer Profiling by Temporary Well Method
- ❖ Vertical Bedrock Profiling by Air Rotary/Temporary Well Method
- ❖ Vertical Delineation in Clays by Cased Boring Method
- ❖ Fate and Transport Modeling
- ❖ Remedial Feasibility Studies and Corrective Actions Plans
- ❖ Groundwater Compliance Monitoring Programs
- ❖ Groundwater Recovery Well and Soil Vapor Extraction Pump Testing
- ❖ Bioremediation Biotreatability Studies & Bioliquid Injection Work Plans
- ❖ Bioliquid Injection Field Injection and Follow-Up Monitoring
- ❖ Tier II/Tier III Risk Based Corrective Action (RBCA) Evaluations
- ❖ Environmental Compliance Audits
- ❖ Pollution Incident Prevention Plans (PIPPs)
- ❖ Spill Prevention Control and Countermeasure (SPCC) Plans
- ❖ Waste Characterization of Waste Removal to Licensed Disposal Facilities
- ❖ Surface (NPDES) and Groundwater Discharge Permitting
- ❖ Soil Erosion Sediment Control Permits and Reports
- ❖ Wetland Permitting and Wetland Mitigation Plans

Innovative employees have performed Phase I and Phase II ESAs at over 600 locations throughout Michigan since 1995. Phase I and Phase II ESA projects have included small vacant land parcels to 100 plus acre parcels at residential, commercial, and industrial properties. Innovative personnel perform all Phase I ESAs in accordance with the standard (E1527) developed by the American Society for Testing and Materials (ASTM) in order to satisfy federal, state and financial institution due diligence requirements.

Innovative personnel have performed UST removal site assessments at more than 275 locations throughout Michigan since 1995. UST projects have been completed at residential properties and at commercial and industrial facilities. Innovative personnel complete all LUST projects applying the MDEQ RBCA guidelines in accordance with Part 213 of Act 451, as amended.

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INNOVATIVE ENVIRONMENTAL SOLUTIONS, INC.

PROPERTY ENVIRONMENTAL IMPAIRMENT EVALUATION SERVICES

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WEST MICHIGAN OFFICE:
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Dorr, MI 49323
PH: 616-681-8098
Fax: 616-681-9218

PHASE I, PHASE & BEA SERVICES

- Phase I ESA Site Recon, Historical Research, Regulatory Record Search and Reporting
- Phase II ESA Soil Borings/TMWs, Analytical Testing and Reporting Whether "Facility" Impact Present
- Generation and Submittal of Various Categories of BEA Reports to Obtain DNRE Liability Exemption

ADDITIONAL PHASE II ESA SERVICES

- Magnetometer Surveys and Reports for USTs
- GPR Surveys and Reports for USTs and Utilities
- Exploratory Excavation for "Ghost" USTs & Other
- Pumpout, Removal and Disposal of "Ghost" UST(s)
- Chemical Inventory of Discarded Chemicals
- Arranging for Reuse/Recycle or Disposal of Discarded and Abandoned Waste Chemicals
- Roof Condition Inspection Activities & Reporting
- Microbial Impact Inspection Activities & Reporting
- Plumbing System Inspection Activities & Reporting

CORRECTIVE ACTION PLAN ALTERNATE ACTIVITIES

- 24 Hour Aquifer Pump Testing & Design
- 48 Hour Au Sparge/SVE Pilot Testing
- Remedial Excavation Closure Sampling
- Groundwater Pump & Treat Design & Install
- Air Sparging & SVE Systems Design & Install
- Bioassay Field Sampling, Analysis & Reporting
- Bioaugmentation Liquid Irrigation & Monitoring
- Biostimulation (ISOC) Injection & Monitoring
- Interior Sewer Videotaping for Infiltration
- Interior Sewer Crack/Joint Grouting Activities
- Natural Attenuation & Natural Biodegradation
- No Action Restricted Closure Activities
- Corrective Action Compliance Sampling Activities

LUST ASSESSMENT & CORRECTIVE ACTION PERMITTING ACTIVITIES

- Potable Water Supply Replacement Permitting
- Road Right of Way Permitting Activities
- Offsite Access Agreements and Tracking
- NPDES Permitting for Treated GW Discharges
- Air Permitting for Treated Air Discharges

PART 201 ASSESSMENT/DELINEATION AND CORRECTIVE ACTION SERVICES

- Part 201 Remedial Investigation Studies/Reports
- Part 201 Feasibility Studies & Pilot Testing
- Part 201 Remedial Action Plans & RAP Design
- Part 201 Closure Assessment & Reporting
- Part 201 Liability Determination Reports
- Part 201 Mixing Zone Determination Studies

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- Bldg Subslab Vapor Migration Analysis Studies
- Interior Storm Sewer Evaluation & Monitoring
- Sensitive Receptor Survey Evaluation Activities
- Liability Determination Request Reports

SPCC/PIPP GENERATION & REPORT ACTIVITIES

- Detailed Scaled Site Mapping Activities
- Generation of Color CAD Scaled Maps
- Design of Secondary Containment Structures
- Contracting Emergency Spill Response Firms
- Generation of SPCC Spill Response Plans
- Generation Pollution Incident Prevention Plans

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ENVIRONMENTAL SITE ASSESSMENT **SERVICES SELECT PROJECT SUMMARIES**

PHASE I ENVIRONMENTAL SITE ASSESSMENT – NOVI, MICHIGAN

Innovative was contracted to perform a free second opinion of another consultant's Phase I Environmental Site Assessment (ESA) for a site in Novi, Michigan. The Phase I ESA prepared by the other consultant was not completed in accordance with the ASTM Standard (E1527) for performing Phase I ESAs, and lacked crucial information. The report did not include a description of the current or former uses of the subject property, did not involve a detailed historical investigation (i.e. 50 year title search), and did not provide copies of any documentation obtained during the investigation (i.e. aerial photographs). The report did identify a number of leaking underground storage tank (LUST) sites in the area, but did not identify whether the LUST sites possessed a potential to impact the study property. The report also identified two sites of environmental contamination located immediately north of the subject property that had a potential to have impacted the study property.

The initial consultant recommended a Baseline Environmental Assessment (BEA) be performed on the subject property at a cost of over \$10,000.00.

Innovative personnel met with the client to discuss Innovative's conclusions regarding our second opinion evaluation. Innovative recommended the client ask the initial consultant that prepared the Phase I ESA to complete a proper Phase I ESA, however, the client was disappointed with this consultant and contracted with Innovative to perform a Phase I ESA according to the ASTM Phase I ESA standard.

During Innovative's Phase I ESA, Innovative identified the two sites of environmental contamination located immediately north of the subject property that had a potential to have already impacted the study property. In Innovative's Phase I ESA Report, Innovative clearly identified that the contamination identified on the study property, including solvents and metals, was from several source areas on the two adjoining properties to the north and/or was a result of former operations of either a welding company and/or a tool and die company. The contamination was not from any operations Innovative's client had performed on the study property.

Based on the June 5, 1995 amendments to Part 201 of Act 451, if contamination is migrating onto a property from an off-site source and the property owner has not caused the contamination, then the property owner can obtain an exemption from liability for the contamination and in most cases, is not required to perform response and corrective actions.

Innovative personnel met with the client and with representatives from the Remediation and Redevelopment Division (RRD) of the MDEQ in order to obtain an exemption from liability for this contamination. The RRD of the MDEQ representatives agreed that the client would be eligible for this exemption and forwarded a letter reflecting the liability exemption to the client within two weeks following the meeting. Thus, we saved our client \$10,000.00 since the BEA was not needed to obtain an exemption from liability for the pre-existing contamination.

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ENVIRONMENTAL SITE ASSESSMENT **SERVICES SELECT PROJECT SUMMARIES** **(CONTINUED)**

PHASE I AND PHASE II ESA – NORTH OAKLAND COUNTY MICHIGAN

Innovative was contracted to perform a Phase I ESA of a college campus in northern Oakland County. The college was attempting to obtain financing from a major financial institution to construct additional buildings on the campus. Innovative's Phase I ESA identified that a Part 213 LUST site and a former orchard were located on the property. Innovative's Phase I ESA research revealed the LUST area to be undefined and there existed a potential for pesticide residues to be present in the near surface topsoil in the area of the former orchard.

Innovative developed a Phase II ESA work plan and, after being contracted, Innovative implemented the work plan and performed Part 213 final assessment delineation activities at the LUST area and performed Phase II ESA soil borings and soil analytical testing at the former orchard area. Innovative delineated the vertical and horizontal extent of the hydrocarbon contamination at the LUST area and then Innovative developed a Final Assessment Report (FAR) that included natural attenuation and natural biodegradation, as the corrective action chosen. Innovative's Phase II ESA soil boring and soil analytical testing of the former orchard area revealed the presence of DDE, DDT, arsenic and lead above their respective laboratory detection limits. Innovative was able to delineate the vertical and horizontal extent of the four chemicals of concern and when comparing the maximum soil contamination concentrations to their respective MDEQ Part 201 Generic Residential Cleanup Criteria, the DDE, DDT and lead were all found to be below "facility" (as defined by Part 201 of Act 451, as amended) level. The maximum arsenic concentration of approximately 18,000 parts per billion (ppb) was found to be above its respective RRD of the MDEQ Part 201 Generic Residential Cleanup Criterion of 7,600 ppb.

Instead of implementing a \$200,000.00 Remedial Action Plan, Innovative developed, in conjunction with a MDEQ Toxicologist, a site specific arsenic cleanup level that was based on the specific use of the property as a college campus, which is dramatically different than the exposure assumptions used in generation of the Part 201 Generic Residential Cleanup Criteria. Innovative developed a site specific arsenic cleanup level of 21,000 ppb, and as a result, there was no longer an exposure hazard and no need for remedial action. Innovative's FAR utilizing natural attenuation and natural biodegradation as the corrective action and Innovative's creation of the site specific arsenic cleanup criteria, specific to the land use at the site, saved our client over \$300,000.00.

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ENVIRONMENTAL SITE ASSESSMENT **SERVICES SELECT PROJECT SUMMARIES** **(CONTINUED)**

90 DAY INITIAL ASSESSMENT/LUST SITE CLOSURE – ACTIVE GAS STATION **PORT HURON, MICHIGAN**

Innovative was contracted to perform site assessment activities during the upgrade of an active UST system at a gas station in Port Huron, Michigan. A confirmed release was discovered and Innovative completed the statutory 90 day initial abatement and initial assessment activities. Innovative's site assessment activities delineated the vertical and horizontal extent of the absorbed and dissolved contamination. Based on the site geology and hydrogeology, Innovative was able to demonstrate that a "perched subsurface water" formation was present above a significant clay formation. Permeability testing further confirmed the subsurface water flowed at a velocity of less than one-half foot per year. With the perched subsurface water, Innovative designated the subsurface water as "groundwater not in aquifer". Innovative was able to achieve a RRD of the MDEQ, Part 213 Tier I Unrestricted Residential LUST Closure prior to the statutory 90 day report due date.

PHASE I AND PHASE II ESA – MARYSVILLE, MICHIGAN

Innovative was contracted to perform a Phase I ESA of a vacant land parcel located in Marysville, Michigan. During Innovative's investigation, Innovative discovered that a high pressure petroleum pipeline was located adjoining the study property to the south, a LUST site was located at the northwest corner of the site, and the property was used to store salt from former salt extraction operations. Innovative also discovered that brine wells, used in conjunction with the salt extraction operations, were located on the study property.

Innovative completed the Phase I ESA report for the client within three weeks of initiation and recommended the performance of soil borings in the vicinity of the high pressure petroleum pipeline, the LUST site, and within the area of former surficial salt storage areas.

Upon completion of the soil borings, Innovative's analytical results from the soil borings along the high pressure petroleum pipeline and near the LUST site did not reveal the presence of any petroleum-related contamination. Therefore, the adjoining high pressure petroleum pipeline and the adjoining LUST site were shown to not have impacted the study property.

Soil samples analyzed from the area where the former salt piles were stored revealed concentration of calcium, magnesium, potassium, sodium, and chloride in excess of the MDEQ Part 201 Generic Residential Protective of Groundwater Cleanup Criteria, however, since there was no subsurface water encountered, Innovative was able to eliminate groundwater as a relevant exposure pathway. As a result of eliminating groundwater as a relevant exposure pathway, Innovative was able to utilize the MDEQ Part 201 Generic Residential Direct Contact Criteria for a comparison against the maximum soil contaminant concentrations, and none were exceeded. Based on this approach, the concentrations detected did not meet the requirements of a facility (as defined by the Part 201 amendments), and the client saved over \$100,000.00 in site redevelopment costs.

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ENVIRONMENTAL SITE ASSESSMENT SERVICES SELECT PROJECT SUMMARIES (CONTINUED)

LUST DELINEATION ACHIEVED THROUGH USE OF FATE AND TRANSPORT MODELING

Innovative was contracted to delineate the vertical and horizontal extent of a known 200 foot hydrocarbon plume which contained one foot of gasoline product in the most downgradient monitoring wells (MWs). Innovative performed additional downgradient delineation another 200 feet away from the site and, at this distance the total dissolved BTEX concentration was about 46,000 ppb, and the dissolved MTBE concentration was about 70,000 ppb. Innovative performed a thorough risk assessment and determined that private potable water supply wells, a river and public municipal potable water supply wells were located approximately 800 feet, 1,500 feet and 1,200 feet, respectively, further downgradient of the MW containing the 46,000 ppb and 70,000 ppb total dissolved BTEX, and MTBE.

Innovative's Senior Project Scientists performed fate and transport modeling of the dissolved BTEX and MTBE plume using the Bioscreen computer-modeling program. The fate and transport modeling indicated that there should be no dissolved BTEX detected and there should be approximately 4,200 ppb MTBE detected at a distance of 1,000 feet from the source area (about 600 feet further downgradient). Innovative installed three sets of sentinel (compliance monitoring) wells at the 1,000 foot distance and the soil and groundwater samples confirmed the model since there was no dissolved BTEX detected and dissolved MTBE was detected at a concentration of 4,500 ppb in the centerline to the plume MW. Since the river receptor was still potentially at risk, Innovative back modeled from the river, using the MDEQ Tier I Groundwater Surface Water Cleanup Criteria, and a compliance monitoring threshold concentration of 8,000 ppb MTBE was established.

Based on the fate and transport modeling, Innovative generated a Final Assessment Report that utilized natural attenuation and natural biodegradation, along with vacuum truck recovery of the free product, as the corrective actions for the impacted area. The effect of the corrective action on the dissolved hydrocarbon plume has been monitored through the performance of groundwater compliance monitoring events.

Innovative's fate and transport modeling saved our client approximately \$150,000.00 in final assessment MW delineation expenses and is estimated to save our client \$2.5 to 3 million dollars in corrective action expenses over the next 15-20 years.

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PHASE I ESA FLOW CHART

STEP 1
SITE WALK /
HISTORICAL
RESEARCH

Jerome Meyer
Sr. Project Scientist
Phase I ESA Group

James Springstead
Sr. Project Scientist
Phase I ESA Group

STEP 2
PRELIMINARY
MEETING

Jerome Meyer
Sr. Project Scientist
MI Certified Professional

Bourke Oles/Dave Hermann
Field Scientist
Phase I ESA Group

STEP 3
DRAFT REPORT

Jerome Meyer
Sr. Project Scientist
Phase I ESA Group

STEP 4
PRELIMINARY QA/QC OF REPORT

James Springstead
Sr. Project Scientist
Phase I ESA Group

STEP 5
FINAL QA/QC
REVIEW OF REPORT

Jerome Meyer
Sr. Project Scientist
Phase I ESA Group

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SUBSURFACE INVESTIGATIONS FLOW CHART

STEP 1
**PROJECT SET-UP/
PLANNING**

Project Scientist

STEP 2
FIELD ACTIVITIES

Field Scientist

STEP 3
**REVIEW OF
FIELD DATA**

Project Scientist

Field Scientist

STEP 4
**EVALUATION OF
ANALYTICAL
RESULTS**

Project Scientist

STEP 5
**COMPLETION OF
REPORT
ATTACHMENTS**

Project Scientist

Staff Scientist

Draftsperson

STEP 6
DRAFT REPORT

Project Scientist

STEP 7
QA/QC REVIEW OF REPORT

Jerome Meyer
Sr. Project Scientist
MI Certified UST Professional (#107)

Senior Project Scientists: Jerome Meyer, James Springstead

Staff Scientists: Dave Hermann, Bourke Oles

Draftspersons: James Springstead, Dave Hermann, Bourke Oles

Field Scientists: James Springstead, Dave Hermann, Bourke Oles

Various staff members listed above may work on individual projects, depending on the location and complexity of the project.

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ENVIRONMENTAL SITE ASSESSMENT SERVICES SELECT PROJECT REFERENCES

PHASE I ENVIRONMENTAL SITE ASSESSMENT PROJECTS

- 1) **JPMorgan Chase Bank
Ms. Sharon Valverde, 303-244-4022**
- 2) **BMH Realty
Mr. Michael Corrigan, 810-229-6323**
- 3) **Oscar W. Larson Company
Mr. Charlie Burns, 248-620-0070**
- 4) **Technical Environmental Services
Mr. Tony DeAngelis, 810-229-6323**
- 5) **H&K Enterprises
Mr. Howard Frehsee, 248-390-2012**
- 6) **Huizenga Group
Mr. Jason Byrd, 616-916-2234**
- 7) **CMS Gas Transmission Company
Mr. David Dowhan, 517-768-7517**

PHASE II ENVIRONMENTAL SITE ASSESSMENT/BEA PROJECTS

- 1) **JPMorgan Chase Bank
Ms. Sharon Valverde, 03-244-4022**
- 2) **Corrigan Oil Company
Mr. Michael Corrigan, 810-229-6323**
- 3) **Coty's Truck Wash
Mr. Gary Nickerson, 989-753-4475**
- 4) **Church of Christ Care Center
Mr. Mike Serilla, 586-524-1381**
- 5) **H&K Enterprises
Mr. Howard Frehsee, 248-390-2012**

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1-800-553-7474**

ENVIRONMENTAL SITE ASSESSMENT SERVICES SELECT PROJECT REFERENCES **(CONTINUED)**

UST REMOVAL SITE ASSESSMENT/CLOSURE PROJECTS

- 1) Oscar W. Larson Company
Mr. Charlie Burns, 248-620-0070**
- 2) Technical Environmental Services
Mr. Mike Corrigan, 810-229-6323**
- 3) Mellema's Service Station Maintenance
Mr. Charles Berthume, 616-794-2606**

LUST INITIAL AND FINAL ASSESSMENT PROJECTS AND SITE CLOSURES

- 1) JPMorgan Chase Bank
Ms. Sharon Valverde, 303-244-4022**
- 2) Corrigan Oil Company
Mr. Michael Corrigan, 810-229-6323**
- 3) Oscar W. Larson Company
Mr. Charlie Burns, 248-620-0070**
- 4) Goodrich Area Schools
Mr. John Fazer, 810-591-2250**
- 5) Ferndale Mobil
Mr. Ahmed Ftouni, 248-670-1444**
- 6) MacRay Harbor
Mr. Steve Remias, 586-468-1900**
- 7) GL Investments
Mr. Larry Trepeck, 561-488-0404
248-320-0122**
- 8) East Holly Sunoco
Mr. Kevin Badran, 248-634-0837**

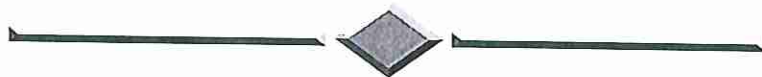
INNOVATIVE ENVIRONMENTAL SOLUTIONS, INC.

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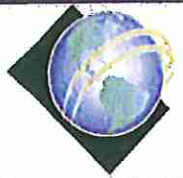
West Michigan & East Michigan Office Locations

1-800-553-7474

APPENDIX 3



OIL & GAS FIELD RELATED SERVICES



INNOVATIVE ENVIRONMENTAL SOLUTIONS, INC.

OIL FIELD AND NATURAL GAS STORAGE SERVICES CHART

CORPORATE OFFICE:

9948 East Grand River Avenue
Brighton, MI 48116
PH: 810-220-0033
Fax: 810-220-4443

WEST MICHIGAN OFFICE:

1743 142nd Avenue, Unit #9 - P.O. Box 326
Dorr, MI 49323
PH: 616-681-8098
Fax: 616-681-9218

AIR PERMITTING SERVICES

- Permits To Install – New Installations
- Permits To Install – Process Change
- Monthly Emissions Tracking & Reporting
- MAERS Annual Emissions Reporting
- Quarterly emissions Testing & Reporting
- Annual Emissions Testing & Reporting

GLMD REPORTING SERVICES

- Former Wellhead Assessment/Closure Services
- Part 615 Remedial Investigation Services
- Part 615 Feasibility Studies & Reporting
- Part 615 Remedial Action Plan Services
- Part 615 Release Closure Reporting
- Monthly Oil & Gas Production Reporting

HYDROGEOLOGICAL STUDY SERVICES & REPORTING

- Environmental Impact Reports
- Phase I Environmental Site Assessments
- Phase I Hydrogeologic Study Reporting
- Phase II Hydrogeologic Study Reporting
- Sentinel Well Installation and Monitoring
- Groundwater Monitoring Plan Services
- Potable Well Methane Baseline Testing
- NPDES WWTP Discharge Permitting

OIL/GAS RECOVERY PRODUCTION PROCESSING FACILITY SERVICES

- Township Meeting Presentation Services
- Phase I Environmental Site Assessments
- Phase II Environmental Site Assessments
- Permit To Install Permitting Services
- EPCRA Emergency Response Plans
- Risk Management Plan & Training Services
- SPCC/PIP Plans – Spill Response Plans
- Noise Studies – Pre & Post Construction
- Monthly Emissions Tracking & Reporting
- MAERS Annual Emissions Reporting
- Annual Emissions Testing & Reporting
- SARA Title III Tier 2 Tracking & Reporting
- Toxic Chemical Release Inventory & Reporting
- Brine Injection Well Permitting Services
- Liquid Waste Profiling & Disposal Services
- Sewage Disposal System Permitting Services
- On-Site Potable Water Supply Well Permitting

OIL/GAS PIPELINE INSTALLATION & REPAIR SERVICES

- Act 9 Preparation Testimony Services
- Environmental Impact Reports & Statements
- Phase I Environmental Site Assessments
- Phase II Environmental Site Assessments
- Wetland Crossing Permitting Services
- Wetland Mitigation & Restoration Services
- Drain/ Creek Crossing Permitting
- Soil Erosion Sediment Control Permitting
- Soil Erosion Sediment Control Surveillance
- Hydrostatic Discharge NPDES Permitting
- Hydrostatic Water Discharge Monitoring
- SPCC/PIP Plan Development & Reporting
- Spill/Release Cleanup & Reporting Services
- Part 615 Remedial Investigation Work Plans
- Part 615 Remedial Investigation Services
- Part 615 Feasibility Analysis Studies
- Part 615 Remedial Action Plan Services
- Part 615 Release Closure Assessment
- Part 615 Release Closure Reporting Services
- Permit Tracking & Final Closeout Activities

OIL/GAS RECOVERY PRODUCTION PROCESSING FACILITY SERVICES

- Phase I Environmental Site Assessments
- Phase II Environmental Site Assessments
- Geoprobe Soil Boring Field Screening Services
- Soil Erosion Sedimentation Control Permitting
- Part 615 Remedial Excavation Supervision
- Part 615 Remedial Investigation SB's/MW's
- Part 615 Feasibility Studies & Reporting
- Part 615 Remedial Action Plan Services
- Part 615 Closure Verification Soil Sampling
- Part 615 Closure Report Generation Services

OIL/GAS FIELD ENVIRONMENTAL **ASSESSMENT SERVICES SELECT** **PROJECT SUMMARIES**

DEVELOPMENT OF DEPLETED OIL & GAS PRODUCTION FIELD **INTO AN UNDERGROUND GAS STORAGE FIELD – ST. CLAIR COUNTY, MI**

Innovative provided a wide range of environmental services related to the development of an underground gas storage field in St. Clair County, Michigan. The gas storage field was being developed in an existing oil and gas production field which was near depletion. Innovative provided a key role in developing poster sized foam board presentation materials that were used at Township Planning Commission meetings. The poster sized presentation materials proved to be one of the key components to the project obtaining approval, by the township, through a Special Land Use with conditions.

Innovative completed and generated Phase I ESAs, Phase II ESAs and Environmental Impact Reports (required by the Michigan Public Service Commission (MPSC) as part of the Act 9 filing) associated with the purchase of the compressor facility footprint, the interconnect pipeline transmission routes and the new wellhead pad locations. Act 9 testimony was provided by Innovative Senior Project Scientist's. In addition, Innovative participated in discussions with our client, their legal counsel and intervenors along the pipeline transmission route. Innovative personnel provided brainstorming solutions to concerns with impact to the intervenors property which enabled the project to proceed without having to move through a lengthy and costly court process.

In conjunction with their review, the MPSC required a hydrogeological study be completed. Innovative, due to the extensive dry to damp, very compact clay formation, utilized the sonic drilling technology to obtain 10 foot long soil cores from each borehole. The sonic technology proved invaluable in determining the geology and hydrogeology of the glacial drift formation, which was found to extend down to a depth of about 230 feet below the ground surface, overlying the bedrock shale unit. Innovative was able to demonstrate there was limited groundwater bearing zones that were not laterally continuous. The geology revealed there was at least 50 feet of a dry to damp clay formation from the ground surface down to about 50 feet below ground surface (bgs) above the first limited groundwater aquifer formation.

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OIL/GAS FIELD ENVIRONMENTAL
ASSESSMENT SERVICES SELECT
PROJECT SUMMARIES
(CONTINUED)

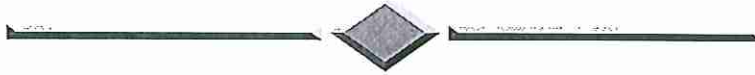
DEVELOPMENT OF DEPLETED OIL & GAS PRODUCTION FIELD
INTO AN UNDERGROUND GAS STORAGE FIELD – ST. CLAIR COUNTY, MI

As a part of the overall project, Innovative performed assessments at the former production wellheads and at the existing oil and gas recovery/transfer compressor station. Source area and delineation assessment activities were completed and once the extent of the crude oil impact was defined, remedial excavation/closure assessment sampling plans were implemented and Innovative was able to achieve RRD of the MDEQ Part 201 Generic Unrestricted Closures at all of the former production wellheads and at the former oil and gas recovery/transfer facility. Other key services provided by Innovative included the completion of the Permit to Install application which was submitted to the Air Quality Division of the MDEQ.

The Permit to Install was comprised of the application, supported by a five inch thick binder of the engineered drawings, detailed colored CAD maps, emission calculations, air plume dispersion modeling calculations and the calculated emissions thresholds without, and with, the applicable and available air pollution control technologies. The Permit to Install was approved by the Air Quality Division of the MDEQ and the compressor facility was constructed within the clients targeted timeframe. The underground gas storage field and associated transmission interconnect pipelines required the development and submittal of expedited wetland permits, soil erosion sediment control permits, drain crossing permits and hydrostatic testing water discharge NPDES Permits. Innovative worked very closely with the respective RRD of the MDEQ representative before, during and after the generation and submittal of each permit application to facilitate their expedited review and approval in order to keep the project progressing at each critical juncture.

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APPENDIX 4



PROFESSIONAL RESUMES

PROFESSIONAL RESUME OF JEROME MEYER

- TITLE:**
- Senior Project Scientist
 - Michigan Certified Environmental Professional
 - Michigan Certified UST Professional (#107)
 - President - Innovative Environmental Solutions, Inc.
- EDUCATION:** Bachelor of Science, Geology – Michigan State University (1981)
- EXPERTISE:**
- Phase I and Phase II Environmental Site Assessments (ESAs)
 - Baseline Environmental Assessments (BEAs)
 - UST Removal Site Assessment and Closure Reporting
 - Initial and Final Assessments and Associated Reports
 - LUST Closure Assessments and Associated Reports
 - Tier I/Tier II Exposure Pathway/Receptor Characterization Evaluations
 - Contaminant Plume Modeling and Dispersion Modeling
 - Remedial Investigations (Phase I & II Hydrogeological Studies)
 - Vertical Aquifer Profiling and Nested MW Installation
 - Soil and Groundwater Feasibility Analysis Studies
 - Soil and Groundwater Corrective Action Plans/Verification Sampling
 - Oil and Natural Gas Field Regulatory Compliance and Permitting
 - Expert Witness for Both Plaintiff and Defense in Various Environmental Cases
- CERTIFICATIONS/
AFFILIATIONS:**
- Certified Environmental Professional (#107 – 9/18/96)
 - ASTM RBCA Certified (July 12 & 13, 1995)
 - MDEQ RBCA Training (9/25/95)
 - Member of MPA/MAC Environmental Committee
 - 1989 Environmental Protection Agency Certified HAZWOPER Training
 - 1990 through 2007 8 Hour HAZWOPER Refresher Courses
- EXPERIENCE:**
- Innovative Environmental Solutions, Inc. – 8/95 to present**
- Supervised Over 750 Phase I Environmental Site Assessment Projects
 - Supervised Over 250 Phase II Environmental Site Assessment Projects
 - Supervised Over 100 Baseline Environmental Assessment Projects
 - Supervised Numerous Waste Characterization & Disposal Projects
 - Supervised Over 50 Clean Closure UST Removal Projects
 - Supervised Over 200 - 90-Day Initial Site Assessment Projects
 - Supervised Over 150 - 365-Day Final Site Assessment Projects
 - Supervised Over 150 LUST Closures using MDEQ RBCA Process
 - Supervised Over 50 Part 201 Closure Projects & Reports
 - Completed Tier II Evaluations on Several LUST Projects
 - Supervised Free Product Recovery Activities on Over 75 LUST Project Sites
 - Implemented Innovative Bioremediation Technologies Over 50 Project Sites
 - Successfully Completed Fate and Transport Modeling at Several LUST Sites - Including One with Dissolved Plume Extending Over 1,500 Feet
 - Environmental Regulatory Supervision for Gas Storage Field Projects
 - Environmental Regulatory Supervision for Gas Pipeline Projects
 - Environmental Regulatory Supervision at Gas Field Well Pad Closure Sites
- CTI and Associates, Inc. – 3/91 to 5/95**
- Supervised Over 150 Phase I Environmental Site Assessment Projects
 - Supervised Over 20 Phase II Environmental Site Assessment Projects
 - Supervised Over 100 UST Removal Site Assessment Projects
 - Supervised Over 50 UST Removal Site Assessment Clean Closure Evaluations
 - Supervised Over 50 Soil Corrective Action Plans with Closure Achieved
 - Supervised Over 100 Initial and Final Assessment Phase Projects
 - Phase I and Phase II Hydrogeological Studies and Reporting
 - Designed/Supervised Installation of Over 10 Remediation Systems
 - Supervised Over 10 Bioremediation CAPs and Injection of Bioliquid
 - Expert Witness for Both Plaintiff and Defense in Various Environmental Cases
-

PROFESSIONAL RESUME OF JEROME MEYER

**EXPERIENCE
CONTINUED:**

ATEC Environmental Consultants – 2/89 to 3/91

- Performed Over 30 Phase I Environmental Site Assessment Projects
- Supervised Over 20 Phase II Environmental Site Assessment Projects
- Performed Over 25 UST Removal Clean Closure Site Assessments & Reporting
- Supervised Over 45 UST Removal Site Assessments & Reporting
- Generated Over 10 Pollution Incident Prevention Plans
- Generated Over 60 Pollution Incident Prevention Plans for EMRO
- Performed Over 25 Remedial Investigations for Mobil and Sunoco
- Supervised Over 40 Remedial Investigation Projects and Reporting
- Designed and Installed Over 5 Pump and Treat Remediation Systems
- Supervised Over 50 Bay Drain Closures for Mobil Oil Corporation

Livingston County Health Department – 4/85 to 2/89

- Sanitarian Responsible for Soil Evaluations and Issuance of Permits
- Performed Over 100 Pollution Incident Prevention Plan Inspections
- Performed Over 100 Type IIb Well Compliance Inspections on Behalf of MDNR
- Performed Sampling of Contaminated Public and Private Water Supply Wells on Behalf of the MDPH and MDNR at Over 40 Sites in County
- Developed Base Map of Groundwater Contamination Sites in County
- Performed Public Presentations on Behalf of County Health Department
- Reviewed Water Supply Well Records and Developed Geologic Cross Sectional Drawings to Depict Areas of Subsurface Impact

Oakland County Health Department – 3/82 to 4/85

- Assistant Sanitarian Responsible for Soil Evaluations and Issuance of Permits
- Responsible for Sampling and Investigation of Salt Contamination to Residential Water Supply Well Systems from County Road Commission Facility

McNeese Logging Service – 7/81 to 3/82

- Performed Logging Services During the Completion of Five Separate Oil and Gas Exploration Wells to Depths Ranging from 7,500 to 21,000 Feet BGS
- Logged Borehole Cuttings, Gasses and Evaluated for Oil Florescence During the Completion of Drilling Activities
- Logging Data Documented and Presented to a Company Geologist to use in Development of the Oil and/or Gas Zones Being Explored

PROFESSIONAL RESUME OF JAMES SPRINGSTEAD

- TITLE:**
- Senior Project Scientist
 - West Michigan Office Manager
 - Vice President - Innovative Environmental Solutions, Inc.
- EDUCATION:** Bachelor of Science, Geology – Michigan State University (1986)
- EXPERTISE:**
- Phase I and Phase II Environmental Site Assessments (ESAs)
 - Baseline Environmental Assessments (BEAs)
 - UST Removal Site Assessment and Closure Reporting
 - Initial and Final Assessments and Associated Reports
 - LUST Closure Assessments and Associated Reports
 - Tier I/Tier II Exposure Pathway/Receptor Characterization Evaluations
 - Contaminant Plume Modeling and Dispersion Modeling
 - Remedial Investigations (Phase I & II Hydrogeological Studies)
 - Vertical Aquifer Profiling and Nested MW Installation
 - Soil and Groundwater Feasibility Analysis Studies
 - Soil and Groundwater Corrective Action Plans/Verification Sampling
 - Oil and Natural Gas Field Regulatory Compliance and Permitting
 - Environmental Impact Reporting and Regulatory Compliance
 - NPDES Compliance and Permitting
 - Wetlands (Parts 301 and 303) Compliance and Permitting
- CERTIFICATIONS/
AFFILIATIONS:**
- 1988 Environmental Protection Agency Certified HAZWOPER Training
 - 1989 through 2007 8 Hour HAZWOPER Refresher Courses
 - Waste Treatment Plant Operator (MDEQ Classification A-1a)
- EXPERIENCE:** Innovative Environmental Solutions, Inc. – 8/95 to present
Environmental
- Supervised Over 50 Phase I Environmental Site Assessment Projects
 - Supervised Over 100 Phase II Environmental Site Assessment Projects
 - Supervised Over 50 Baseline Environmental Assessment Projects
 - Supervised Numerous Waste Characterization & Disposal Projects
 - Supervised Over 50 Clean Closure UST Removal Projects
 - Supervised Over 75 - 90-Day Initial Site Assessment Projects
 - Supervised Over 75 - 365-Day Final Site Assessment Projects
 - Supervised Over 25 LUST Closures using MDEQ RBCA Process
 - Supervised Over 20 Part 201 Closure Projects & Reports
 - Completed Tier II Evaluations on Several LUST Projects
 - Supervised Free Product Recovery Activities on Over 50 LUST Project Sites
 - Implemented Innovative Bioremediation Technologies Over 20 Project Sites
 - Successfully Completed Fate and Transport Modeling at Several LUST Sites - Including One with Dissolved Plume Extending Over 1,500 Feet
 - Environmental Regulatory Supervision for Gas Storage Field Projects
 - Environmental Regulatory Supervision for Gas Pipeline Project
 - Environmental Regulatory Supervision Gas Field Well Pads
 - Manage/Perform Environmental Impact Reports
 - Manage/Secure NPDES Permits – Various Types of Projects
 - Manage/Secure Soil Erosion and Sediment Control Permits
 - Manage/Secure Wetland Permits
 - Manage/Secure Air Permits – Permit to Install
 - Responsible for Writing/Reviewing Technical Reports
 - Proficient in CAD Applications Including Groundwater Modeling
 - Extensive Knowledge of Applicable Regulations (1994 PA 451)

PROFESSIONAL RESUME OF JAMES SPRINGSTEAD

**EXPERIENCE
CONTINUED:**

CTI and Associates, Inc. – 5/88 to 7/95

Management/Sales

- District Manager, Grand Rapids Environmental Division
- Managed Fifty Thousand dollar/Month Operation
- Managed 5 Geologists/Scientists and 1 Secretary
- Trained Both Field and Office Support Staff
- Responsible for QA/QC of Field and Report Data
- Responsible for 90% of Sales Secured
- Obtained Referrals from Clients and Subcontractors
- Performed Existing/New Client Marketing; Generated Proposals/Contracts

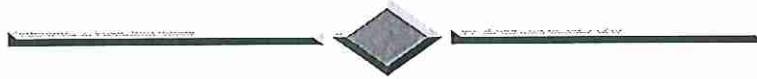
Drilling

- Head Driller – 4 years
- Driller's Assistant – 1 year
- Extensive Knowledge of Geologic Conditions Encountered Throughout Michigan

PROFESSIONAL RESUME OF DAVID HERMANN

- TITLE:** Senior Project Hydrogeologist
- EDUCATION:**
- Bachelor of Science, Geology – Eastern Michigan University
 - Associate of Science, Petroleum Technology – Schoolcraft College
- EXPERTISE:**
- UST Removal Site Assessment Clean Closure Scenerios
 - UST Removal Site Assessment Contaminated Closure Scenarios
 - Groundwater Investigation at Contaminated Sites
 - Groundwater Investigation at Contaminated Part 201 Sites
 - Remedial Investigations (Phase I and Phase II Hydrogeological Studies)
 - Vertical Aquifer Delineation at LUST and Part 201 Sites
 - Detailed Site Mapping Identifying Key and Unusual Site Features
 - Monitoring of Underground Utilities for Chemical and Vapor Impact
- CERTIFICATIONS:**
- 1988 Environmental Protection Agency Certified HAZWOPER Training
 - 1989 through 2007 8 Hour HAZWOPER Refresher Courses
- EXPERIENCE:**
- Innovative Environmental Solutions, Inc. – 8/95 to present**
- Completed Detailed Site Mapping Activities at Over 500 Project Sites Including Identification of Above and Below Ground Chemical Storage Tanks and Location, Diameter and Flow Direction of Underground Utility Mains
 - Completed Magnetometer Survey Activities at Over 200 Project Sites and Successful in Identifying Over 50 Abandoned "Ghost" Steel USTs
 - Supervised the Drilling of and Logged the Subsurface Soil and Groundwater Conditions During the Drilling of Phase II ESA/LUST and/or Part 201 Soil Borings at Over 500 Sites
 - Completed Numerous Waste Characterization & Disposal Projects
 - Supervised the Installation of Source Area and Delineation Monitoring Wells at Over Sites
 - Performed Monitoring Well and Free Product Recovery Activities at Over 100 Sites
 - Performed Bio-parameters to Measure Effects of Biodegradation at Over 100 Sites
 - Performed Evaluations of Underground Utilities for Chemical Vapor Intrusion and Methanol at Over 250 Sites
 - Completed Injection of Bio-liquid and/or Hydrogen Peroxide at over 50 Sites
 - Supervised Over 200 UST Removal Site Assessment Projects
 - Supervised Over 50 UST Removal Site Assessment Clean Closure Evaluations
- CTI and Associates, Inc. – 5/88 to 7/95**
- Environmental**
- Managed/Performed Over 100 UST Removal Site Assessments
 - Managed/Performed Over 50 Remedial Investigations
 - Managed Over 25 Clean Closure Projects
 - Supervised Phase I and Phase II Environmental Site Assessments
 - Responsible for Writing/Reviewing Technical Reports
 - Proficient in CAD Applications Including Groundwater Modeling
- Drilling**
- Head Driller – 1 year
 - Driller's Assistant – 1.5 years
 - Extensive Knowledge of Geologic Conditions Encountered Throughout Michigan

APPENDIX 5



**2012 LABOR & EQUIPMENT
RATE SCHEDULES**



INNOVATIVE ENVIRONMENTAL SOLUTIONS, INC.

2012 LABOR & EQUIPMENT RATE SCHEDULES

CORPORATE OFFICE:
9948 East Grand River Avenue
Brighton, MI 48116
PH: 810-220-0033
Fax: 810-220-4443

WEST MICHIGAN OFFICE:
1668-B 142nd Avenue - P.O. Box 326
Dorr, MI 49323
PH: 616-681-8098
Fax: 616-681-9218

PROFESSIONAL SERVICES

RATE

SENIOR PROJECT SCIENTIST

\$125.00/HOUR

PROJECT SCIENTIST

\$105.00/HOUR

STAFF SCIENTIST

\$90.00/HOUR

FIELD SCIENTIST

\$75.00/HOUR

DRAFTS PERSON

\$65.00/HOUR

ADMINISTRATIVE SUPPORT

\$55.00/HOUR

EQUIPMENT

RATE

PID UNIT

\$150.00/DAY

ELECTRONIC IP

\$100.00/DAY

SURVEY EQUIPMENT

\$100.00/DAY

LOW FLOW SAMPLING PUMPS

\$275.00/DAY

LOW FLOW SAMPLING TUBING

\$75.00/DAY

METHANOL FIELD KITS

\$10.00/EACH

MISCELLANEOUS ITEMS

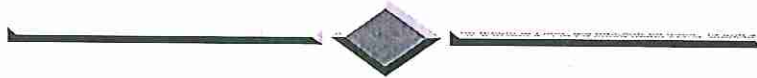
\$75.00/DAY

MILEAGE

\$0.60/MILE

***SUBCONTRACTOR CHARGES FOR DRILLING & ANALYTICAL SERVICES ARE MARKED UP 15%**

APPENDIX 6



CERTIFICATE OF INSURANCE

