



**Northwestern Indiana Regional Planning Commission RFQ  
USEPA Brownfields Grant Environmental Consultant Services**

**Prepared by:**

**Aegis Environmental, Inc.  
601 Franklin Street, Suite 402  
Michigan City, Indiana 46360**

**November 18, 2019**



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Northwestern Indiana Regional Planning Commission  
6100 Southport Road  
Portage, Indiana 46368  
Attention: Ms. Lisa Todd

RE: Transmittal Letter  
USEPA Brownfields Grant  
Environmental Consultant Services  
RFQ Reference #: 19-16 USEPA  
Assessment Grant

Dear Ms. Todd:

Aegis Environmental, Inc. (Aegis) would like to express our desire to provide Environmental Consulting Services for the assessment of sites contaminated by hazardous substances and petroleum products to the Northwestern Indiana Regional Planning Commission (NIRPC).

Aegis is a full service environmental consulting firm established in 2000. Since 2010, we've had an office in northwest Indiana in Michigan City, Indiana. We specialize in soil and groundwater remediation/investigation and preparation of health environmental risk assessments. Our services also include Phase I environmental assessments/audits, site investigations, solid and hazardous waste management, remedial investigations, remediation services and regulatory compliance/consulting in conformance to Indiana Department of Environmental Management (IDEM) and United States Environmental Protection Agency (USEPA) regulations and guidance. We are capable of providing services with respect to all tasks listed in the Scope of Services of the Request for Qualifications (RFQ).

Our professional staff has a proven track record in managing, designing, and implementing all types of environmental projects such as those requested in the RFQ. Our local staff and ability to manage and bring projects to completion in a timely manner with cost-effective investigation and remediation is the primary difference that separates Aegis from other consulting firms.

Aegis places an emphasis on the health and safety of our employees, clients, and safety on our job sites. In a continuing effort to maintain a safe workplace, ISNetworkworld routinely conducts audits of our Health and Safety programs. Our employees have hazardous training in accordance with OSHA 29 CFR 1910.120 and have OSHA 10 Hour Construction Safety and Health training.

We look forward to providing environmental consulting services for the assessment of sites contaminated by hazardous substances and petroleum products to the NIRPC. If you have any questions or require additional information, please contact James Hoover at 219-221-6092. Thank you for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'James Hoover', with a long horizontal flourish extending to the right.

James Hoover, CHMM  
Branch Manager  
Aegis Environmental, Inc.

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## **I. Description History of the Firm**

Aegis is a privately held corporation and is incorporated in the State of Indiana. Aegis began operations in 2000. A branch office was established in 2010 in Michigan City, Indiana which provides a local presence to northwest Indiana.

The financial stability of the firm is demonstrated by the number of years in operation and diverse client base including municipalities, industrial clients, petroleum corporations, attorneys, and lending institutions. Aegis employs project managers with qualifications and certifications necessary to complete the scope of services. Further discussion of staff qualifications is provided in Section III.

Aegis is a full service environmental consulting company which specializes in soil and groundwater remediation/investigation and preparation of health risk assessments. Our services also include Phase I environmental assessments/audits, site investigations, solid and hazardous waste management, remedial investigations, remediation services and consulting among other services.

Our capabilities include environmental consulting services for the purpose of assessing and/or remediating Indiana sites contaminated with hazardous substances and/or petroleum. We can complete all task as outlined in the Scope of Services of the RFQ.

In addition to traditional investigative methods, our capabilities also include K-9 assisted site investigation services. The key advantage of this specialized environmental service is the ability to analyze the site information and cover large areas, with varying terrain, continuously and rapidly to locate the source of contamination quickly and cost-effectively.

## **II. DBE Status**

Aegis is not a Disadvantaged Business Enterprise (DBE). When in the best interest of the NIRPC, Aegis will subcontract to DBE owned businesses. However, depending upon the projects awarded and their scope of work, the percentage of DBE participation will vary. A list of subcontractors including DBE businesses is included in **Table 1**.

### III. Proposed Project Team

The proposed project team consists of project managers located in Indiana with qualifications and certifications necessary to complete the scope of services.

The primary point of contact information for Aegis is provided below.

James Hoover, CHMM  
Branch Manager  
Aegis Environmental, Inc.  
601 Franklin Street, Suite 402  
Michigan City, Indiana 46360  
Telephone: 219-221-6092  
Fax: 317-833-9001  
Email: [jhoover@aegisenvironmentalinc.com](mailto:jhoover@aegisenvironmentalinc.com)

**Table 2** summarizes the proposed project team, qualifications, and primary location. Project tasks will be staffed from the Michigan City office and will be supported with staff from the corporate Greenwood, Indiana office as necessary. Resumes of key individuals on the proposed project team are included in **Attachment A**.

By working in Indiana and the Midwest for nearly two decades, we have developed relationships with many reliable and professional contractors, laboratories, and other vendors that allow us to utilize expertise from many areas and provide cost efficiencies. Further, we owe much of our success to our clients that expect exceptional performance and safety from their consultants and contractors. Working side-by-side with many of the best contractors in the Midwest and U.S. has provided valuable experience for our staff which we consider an asset to our company. Many of our subcontractors will be Indiana businesses with their principal place of business located in Indiana. Furthermore, all Aegis employees providing services under the contract will reside in Indiana. A list of the primary subcontractors is provided in **Table 1**.

### IV. Firm Qualifications & Experience

Aegis has the qualifications and experience with many of the tasks associated with the scope of services outlined in the RFQ. Aegis completes on average approximately 30 Phase I Environmental Site Assessments per year for public and private sector clients. Since 2013 all Phase I Environmental Site Assessments completed by Aegis have been compliant with the ASTM *Standard Practice for Phase I Environmental Site Assessments* (E1527-13) and Environmental Protection Agency (EPA) All Appropriate Inquiry (AAI) rules. The members of our staff responsible for conducting Phase I ESA's meet the definition of an Environmental Professional as described in 312.10 of 40 CFR 312 and have attended the ASTM technical training course for Environmental Site Assessments for Commercial Real Estate.

Aegis has considerable experience with brownfield projects including obtaining Comfort Letters and preparation of related Quality Assurance Project Plan (QAPP). One of our subcontractors, Global Engineering & Land Surveying (Global) will be utilized to assist with management of the USEPA Brownfield grants. Global has managed EPA Brownfield grants for the City of LaPorte.

Aegis has completed numerous Phase II ESAs per ASTM E1903-11 and IDEM Remediation Closure Guide (RCG) to evaluate Recognized Environmental Conditions (RECs) identified during Phase I Environmental Site Assessments. Project summaries for representative projects including client name, dates of service, contact name, title, and telephone number are summarized below.

<b>Project Summary</b>	
<b>Client Name</b>	City of LaPorte
<b>Dates of Service</b>	4/1/2016 to 10/16/2016
<b>Contact Name</b>	Nicholas Minich, PE
<b>Title</b>	City Engineer
<b>Telephone Number</b>	219-362-2327
<b>Description of Services</b>	Aegis completed a Phase I Environmental Site Assessment and a Phase II Subsurface Investigation to facilitate the purchase of the property. The findings of the investigation were utilized in developing a remediation plan for redevelopment that will include residential, commercial and recreational space.

<b>Project Summary</b>	
<b>Client Name</b>	Global Engineering & Land Surveying
<b>Dates of Service</b>	5/22/2017 to 3/22/2018
<b>Contact Name</b>	Hesham Khalil, PLS
<b>Title</b>	President
<b>Telephone Number</b>	219-898-6492
<b>Description of Services</b>	Aegis completed an asbestos inspection and hazardous material survey to facilitate the demolition of a building. The findings of the investigation were utilized in redevelopment of the site as greenspace along the Lake Michigan shoreline.

Aegis provided environmental services for a client seeking liability protections under the Indiana Brownfields Program as a bona fide prospective purchaser (BFPP) of a 40 acre 58 year old industrial facility with several buildings and a diverse history. He was able to successfully secure a Comfort Letter with minimal continuing obligations that defined the reasonable steps necessary to protect human health and the environment. The client was able to utilize the Comfort Letter to secure the necessary funding to repurpose the site for its intended operations.

As requested in the RFQ, Aegis provides asbestos-containing material surveys and lead-based paint surveys. Our staff includes four (4) Licensed Asbestos Building Inspectors and an Indiana Licensed Asbestos Management Planner and we are an Indiana Licensed

Abatement Contractor. Aegis also has two (2) Indiana Licensed Lead Risk Assessor on staff, and we own an X-Ray Fluorescence (XRF) which enables us to quickly and cost-effectively assess for lead-based paint.

Aegis has conducted numerous site investigations and remediation projects at petroleum facilities (service stations, terminals, bulk storage facilities, pipeline facilities and closed refinery) across the State of Indiana. Aegis is a "Preferred Consultant" to Marathon Petroleum Company. Aegis has also provided technical supervision, contaminated site evaluation, remediation and project management of sites affected by both organic and inorganic pollutants. Our local staff and ability to manage and bring projects to completion in a timely manner with cost-effective investigation and remediation is the primary difference that separates Aegis from other consulting firms. Aegis has received the honor of Top Consultant of the Year from Marathon and awards from Marathon for achieving the greatest percentage of No Further Actions (NFA's) of their national core consultants. Furthermore, Aegis achieved over 2.6 million dollars in cost savings for Marathon due to our ability to cost-effectively manage projects and provide innovative solutions to remediation projects.



## V. Technical and Operational Approaches

We are familiar with the Indiana rules and regulations as they pertain to Brownfields and other IDEM programs. We believe there are a number of aspects to our philosophy and capabilities and commitments in completing tasks cost effectively in a timely manner give us the ability to meet the needs of the NIRPC as outlined in the Scope of Services. These are noted below:

Risk-Driven Site-Investigation Approach: Our planning focuses site investigations which are "risk-driven conceptual site model (CSM). This approach allows us to strategize, in a manner consistent with the goal of protection of public health and the environment, to identify the most efficient and cost-effective site investigation remedy at the outset of the investigation. Our risk-driven CSM approach prevents the collection of unnecessary field data and fosters a negotiating stance that minimizes the potential for major expansions of scope later.

Primary Attention to Realistic Approaches: Our approach is cost effective for protection and health and environment as outlined in IDEM/USEPA guidance documents. We meet the goal underlined therein based on a risk-based CSM approach. Our approaches are designed from the outset to address the basis of exposure and toxicology first in a simple screening approach and then, only if necessary, from a scientific literature perspective and site-specific realities.

Staff Capabilities: Our team consists of a group of highly qualified and experienced professionals. We are committed to provide that a senior staff member will manage and be accountable for all aspects of a project, including quality of work and budget (time and financial). The senior project manager coordinates with other senior staff and project personnel to integrate these professionals into the project team when knowledge in their areas of expertise is needed. This provides accountability, a high quality product, and efficiency.

We place emphasis on the health and safety of our employees, clients, and safety on our job sites. We prepare Site-specific Health and Safety Plans for every project involving fieldwork. Furthermore, our field staff conducts Pre-Job Health and Safety meetings prior to the start of any field work and complete Job Safety Assessments. All Aegis employees have stop work authority. All necessary personal protective equipment (PPE) is donned by all personnel at all times while on Site.

Aegis employees that perform field work are medically qualified and health and safety trained in accordance with OSHA 29 CFR 1910.120 (40 hour and 8 hour annual refresher) and have completed OSHA 10 Hour Construction Safety training. Aegis has not had any OSHA reportable injuries in the workplace in last three (3) years.

Aegis owns, or has available, the necessary field equipment to perform consulting services, site investigation, and system operation and maintenance. We own field equipment such as photoionization detector, water level indicators, multi-meters, GIS

equipment etc. We also have vendors we utilize on an as-needed basis for specialty equipment rental. **Table 3** provides a partial list of equipment. We also have vendors we utilize on an as-needed basis for specialty equipment rental.

## **VI. Representative Cost and Schedule Estimates**

Aegis typically conducts business on a time and materials basis. In most competitive endeavors, we have come to expect that our combination of our level service and relatively low and defined cost, position us to be successful. Further, we believe there are a number of aspects to our philosophy and capabilities that distinguish us as an environmental consulting source that allow us to control costs. A detailed cost can be provided upon a defined scope of work.

## **VII. Fee Schedule**

A Schedule of Fees specific for this RFQ is provided in **Attachment B**.

## **VIII. Proposed Methods of Cost Containment/Turn-Around Times**

Aegis will provide a not to exceed cost for the scope of work to be performed and work within the budget provided. The turn-around time for a Phase I ESA is 3 weeks or less. The turn-around time for a Phase II ESA is estimated to be completed within 4 weeks, but will vary depending upon the scope of work. Expedited turn-around times or service is available if necessary to meet demands of the project.

## **Tables**

### **Table 1. List of Subcontractors**

Cornerstone Environmental Health & Safety, Inc.

880 Lennox Court

Zionsville, Indiana 46077

Telephone: 317-733-2637

Aegis and Cornerstone have developed a strategic partnership over the past 20 years. Cornerstone is a provider of consulting, engineering and training services directed toward environmental and safety regulatory compliance; and Worker Safety/Loss Prevention.

Denny Excavating, Inc.

P.O. Box 506

Plainfield, Indiana 46168

Telephone: 317-718-7148

Primary Services: Demolition, Soil Excavation, UST Removals, Earthwork

Earth Exploration, Inc.

7770 West New York Street

Indianapolis, Indiana 46214

Telephone 317-273-1690

Primary Services: Drilling/Probing

Environmental Assurance Company Incorporated (EACI)

440 Hancock St

Indianapolis, In 46222

Telephone: 317-636-8500

[www.EACIUSA.com](http://www.EACIUSA.com)

Primary Services: Asbestos and Lead Abatement

EMSL Analytical Inc.

2001 East 52<sup>nd</sup> Street

Indianapolis, Indiana 46205

Telephone 317-803-2997

Primary Services: Laboratory Services (Lead and Asbestos)

**Table 1. List of Subcontractors Continued**

Envision Laboratories, Inc.  
1439 Sadlier Circle West Drive  
Indianapolis, Indiana 46239  
Telephone: 317-351-8632  
Primary Services: Laboratory Services

Environmental Service Group  
5940 West Raymond Street  
Indianapolis, Indiana 46241  
Telephone: 317-290-1471  
Primary Services: Laboratory Services

Environmental Data Resources  
6 Armstrong Road  
4<sup>th</sup> Floor  
Shelton, CT 06484  
Telephone 203-783-0300  
Primary Services: Regulatory Database File Review for Phase I ESA

G.E Marshall Inc.  
1351 Joliet Road  
Valparaiso, Indiana 46385  
Telephone: 219-462-3415  
Primary Services: Soil Excavation, UST Removals, Earthwork, Decontamination

Global Engineering & Land Surveying (DBE)  
601 Franklin Square, Suite 407  
Michigan City, Indiana 46360  
Telephone: 219-872-4444  
Primary Services: Engineering Support, Surveying

Ground Penetrating Radar Services  
5217 Monroe Street, Suite A  
Toledo, Ohio 43623  
Telephone: 419-843-9804  
Primary Services: Utility Locate Services

Historical Information Gatherers (WBE)  
1589 Highway 7, Suite B  
Hopkins, MN 55305  
Telephone: 952-253-2004  
Primary Services: Regulatory Database File Review for Phase I ESA

**Table 1. List of Subcontractors Continued**

Hoosier Equipment Services, Inc. (WBE)  
8149 Network Drive  
Plainfield, Indiana 46168  
Telephone: 317-838-8988  
Primary Services: Soil Excavation, UST Removals, Earthwork, Decontamination

Liquid Waste Removal  
500 South Polk Street, Suite 100  
Greenwood, Indiana 46143  
Telephone: 317-881-9754  
Primary Services: Vacuum Truck Service, Waste Disposal, Industrial Decontamination.

Microbac Laboratories  
250 West 84<sup>th</sup> Drive  
Merrillville, IN 46410  
Telephone: 219-769-8378  
Primary Services: Laboratory Services

National Industrial Maintenance  
4530 Baring Avenue  
East Chicago, IN 46312  
Telephone: 219-398-6660  
Primary Services: Vacuum Truck Service, Waste Disposal, Industrial Decontamination.

Pace Analytical Services  
7726 Moller Road  
Indianapolis, Indiana 46268  
Telephone: 317-228-3100  
Primary Services: Laboratory Services

SanAir Technologies Laboratory, Inc  
1551 Oakbridge Dr. Suite B  
Powhatan, Va 23139  
Telephone: 804-897-1177  
Primary Services: Laboratory Services (Lead and Asbestos)

SCS Environmental Contracting, Inc.  
P.O. Box 8980  
Fort Wayne, Indiana 46898  
Telephone: 1-800-526-3774  
Primary Services: Soil Excavation, Drilling/Probing, UST Removals, Earthwork.

**Table 1. List of Subcontractors Continued**

Summit Environmental, LLC

5601 Progress Road

Indianapolis, Indiana

Telephone 317-284-0377

Primary Services: Emergency Response, Soil Excavation, UST Removals,  
Earthwork

**Table 2. Project Team – Key Employees**

Aegis Environmental, Inc.  
601 Franklin Street  
Michigan City, Indiana

<b>Team Member</b>	<b>Certifications</b>	<b>Title</b>
James Hoover	18 years of experience BS Environmental Management Certified Hazardous Materials Manager State of Indiana UST Certification Licensed Indiana Asbestos Inspector Licensed Indiana Lead Risk Assessor Licensed Indiana Radon Tester OSHA 40 hr. Hazwoper OSHA 8 hr. Hazwoper Refresher OSHA 10 hr. Construction Safety	Branch Manager
Bruce Bultman	31 years of experience MS Geology BS Geology Licensed Professional Geologist Indiana Indiana Qualified Illegal Drug Lab Inspector Licensed Indiana Asbestos Inspector Licensed Indiana Lead Risk Assessor Licensed Indiana Radon Tester Licensed Class B Wastewater Treatment Plant Operator Licensed Indiana Water Well Driller and Pump Installer OSHA 40 hr. Hazwoper OSHA 8 hr. Hazwoper Refresher OSHA 10 hr. Construction Safety	Principal Geologist
Martin Clifford	22 years of experience BS Geology Licensed Professional Geologist Licensed Indiana Asbestos Inspector Licensed Indiana Asbestos Management Planner OSHA 40 hr. Hazwoper OSHA 8 hr. Hazwoper Refresher OSHA 10 hr. Construction Safety	Senior Geologist
Nathan Krohne	2 years of experience BA Geology Indiana Qualified Illegal Drug Lab Inspector Licensed Indiana Asbestos Inspector Licensed Indiana Asbestos Abatement Worker Licensed Indiana Lead Building Inspector Licensed Indiana Radon Tester	Project Manager



**Table 3. Field Equipment List - Aegis Environmental, Inc.**

<b>Item</b>	<b>Manufacturer</b>	<b>Model</b>
Truck- 2018	Toyota	Tundra
Truck- 2010	Toyota	Tacoma
Truck- 2012	Toyota	Sequoia
Car - 2016	Toyota	Prius
Supply Trailer-16'	United-Derto	Cargo
Supply Trailer-10'	Cargo-Mate	Cargo
Oilless piston 10 cfm 115/230 volt air compressor	Gast	8HDM-10-M850X
5550 Watt Gas Generator	Troy-Bilt	30245
Magnehelic Gauges	Dwyer	3T
Diaphragm Pump and Marine Battery	SHURflo	2088
Drum Vac System	Vac-U-Max	55DE
Digital Camera (3)	Various	Various
Gas Powered Concrete Saw	Stihl	TS400
Laser Surveying Equipment (2)	Spectra	Model LL200
GIS Survey Unit	Trimble	GeoXH
Measuring Wheels (2)	Various	
Passive Free Product Skimmer (1)	FAP	FAP
Hand Auger (2)	Forester	
Vacuum pump (water)	Ghast	P125-JH
Vacuum pump (air)	Zefon	Biopump
pH Testers (3)	Oakton (2), Hanna (1)	pH Tester 1, pH Tester Basic, Hanna
ORP Tester	Oakton	ORP tester 10
Portable VOC Monitor	RAE systems	MiniRAE 2000
Portable VOC Monitor	Photovac	2020 ProPlus
Gas Monitor (VOCs, H <sub>2</sub> S, CO,LEL)	RAE systems	Multi RAE Plus
Peristaltic Pump	Geotech	Geopump
Bladder Pump	Geotech	
Submersible Pumps (3)	Whale	12V Whale
DO & Temp Meter	YSI	Model 55
Low Flow DO, Temp, Conductivity, ORP Meter (2)	YSI	556 MPS
Ferrous Iron Test Kit	Hach	IR-18C
Water Level Indicator	Water Mark	
Water Level Indicators (3)	Solinst	Model 101
Oil/Water Interface Indicator	Solinst	Model 122
Surface Temp Meter	Fluke	Mini <sup>IR</sup>
X-Ray Fluorescence (XRF)	Heuresis	Pbi200
Thermal Infrared Meter	Flir	B7000
Blower Door	Retroteck	Q46
Metal Detector	Eliminator Model	
Assorted Tools for System O&M	Various	

**Attachment A**  
**Resumes for Key Employees**



*James enjoys spending his free time with his family at their family cottage in Michigan. He enjoys sailing, water skiing, mountain biking, road biking, and home improvement projects.*

**Project Role**  
Branch Manger

**Office**  
Michigan City, Indiana

**Experience**  
18 years

**Education**  
Bachelor of Science, Environmental Science and Management, Indiana University

**Licenses & Certifications**  
 Certified Hazardous Materials Manager  
 Asbestos Inspector; IN, IL, MI  
 Lead Risk Assessor; IN, IL, MI  
 Nation Radon Proficiency Program (NRPP)  
 Residential Measurement Provider  
 NRPP Multifamily Measurement Advanced Certificate  
 Secondary Radon Tester; IN  
 Underground Storage Tank Certification; IN  
 Certified Underground Storage Tank Professional; MI  
 Qualified Underground Storage Tank Consultant; MI

James is a certified hazardous materials manager; has been certified by the State of Indiana in underground storage tank decommissioning; is a licensed asbestos inspector in Indiana and Michigan; is a State of Michigan Certified Underground Storage Tank Professional. He is responsible for overall project coordination, implementation/oversight remedial technologies, management of subcontractors, all site reporting requirements, budget management, invoicing and maintaining strong communication with clients and regulators. James has a technical background in environmental due diligence, remedial investigations, feasibility studies, environmental assessments, remedial action and risk assessments, and remediation system operation and maintenance, and spill/emergency response.

**Phase I Environmental Site Assessments:** As part of due diligence for Brownfields, several Phase I ESAs were completed at truck sales and repair facilities in Indiana and Ohio. Based on the findings of the investigations, the lender was able to fully evaluate the potential liability associated with the loans and achieve a successful outcome.

**Brownfields Management:** James served as the senior project manager for a client seeking liability protections under the Indiana Brownfields Program as a bona fide prospective purchaser (BFPP) of a 40 acre 58 year old industrial facility with several buildings and a diverse history. He was able to successfully secure a Comfort Letter with minimal continuing obligations that defined the reasonable steps necessary to protect human health and the environment. The client was able to utilize the Comfort Letter to secure the necessary funding to repurpose the site for its intended operations.

**Leaking Underground Storage Tanks:** James served as a senior project manager for the investigation, remediation, and closure of 44 Leaking Underground Storage Tank (LUST) sites for a major oil company. No Further Action (NFA) status was achieved utilizing a variety of remedial options including risk analysis, soil vapor extraction, aquifer sparge, groundwater pump & treatment, oxygen compound injections, source excavation, and institutional controls.

**Pipeline Facilities:** James provided services for the characterization and disposal of wastes at petroleum pipeline facilities throughout Indiana and Michigan. His precise planning and coordination with multiple internal and external stakeholders, and regulators effectively minimized downtime to operations

**Spill Response:** James served as the on-site manager of an emergency spill response due to the catastrophic rupture of a 50,000-gallon tank. He managed a multifunctional team which successfully contained and recovered the spilled materials, tested groundwater, and plugged subsurface drains. James and his team recovered several hundred tons of the spilled material and more than 20 thousand gallons of storm water. As a result of the thoughtful actions and rapid response, the spill was successfully resolved, protecting area water supplies and the environment.



*Bruce enjoys spending his free time with his wife, their two dogs, and his family. He also enjoys fishing and travelling.*

Bruce has a diverse background in hydro geology, site characterization, risk assessment, plume stability evaluation, remediation design and implementation, in-site soil and groundwater treatment technologies and regulatory negotiations. He has provided consultation services for refineries, pipelines, bulk storage facilities, terminals, and numerous service stations and has overseen many projects involving the assessment and remediation of chlorinated solvents, metals and other contaminants at manufacturing and industrial facilities.

**Major Oil Company Portfolio:** Bruce has 27 years of experience managing environmental investigations and remediation services for a major oil company which has included over 500 projects at service stations, pipeline facilities, terminals, bulk storage facilities and refineries throughout the Midwest. He has designed and implemented high and low vacuum soil vapor extraction systems, multi-phase vapor extraction systems, passive soil venting systems, groundwater sparge systems, and groundwater pump and treatment systems in both low permeable soils and high yield aquifers. Other remedial technologies used include dig and haul, Oxygen Release Compound (ORC), 3D-Microemulsion, contaminant destruction utilizing hydrogen peroxide injection, bioaugmentation, and monitored natural attenuation. Bruce has prepared site-specific risk assessments to establish the potential for adverse effect upon exposure to potentially toxic substances and to optimize appropriate mitigation measures.

**Project Role**  
Senior Project Manger

**Office**  
Michigan City, Indiana

**Experience**  
31 years

**Education**  
Master of Science in Geology, Hydrogeology concentration, Indiana University-Purdue University  
Bachelor of Science in Geology, Indiana University-Purdue University at Indianapolis

**Licenses & Certifications**  
Professional Geologist; Indiana, Illinois  
Wastewater Operator Class B; Indiana  
Illegal Drug Lab Inspector; Indiana  
Water Well Drilling/ Pump Installer; Indiana  
Asbestos Inspector; Indiana, Illinois, Kentucky  
Asbestos Supervisor; Indiana  
Asbestos Abatement Contractor; Indiana  
Lead Inspector; Indiana  
Lead Risk Assessor; Indiana, Ohio  
Radon Tester; Indiana & Ohio

**Phase I ESA Portfolio – Throughout the United States:** As part of a 1 billion-dollar business acquisition the Portfolio package included corporate headquarters and 17 manufacturing and distribution facilities. The facilities ranged from 20,000 square feet to over 300,000 square feet and operations included jewelry manufacturing, printing, dry cleaning (largest in Illinois), distribution facilities and garment manufacturing. Some of the facilities were recently constructed and consisted of vacant farmland prior to development while others had complex histories and had been utilized for industrial purposes since the 1800s. Although Recognized Environmental Conditions (RECs) were identified, risks were evaluated and the acquisition proceeded without delay.

**Brownfield Management:** Bruce assisted clients seeking Brownfield liability protections for over 30 former schools and commercial buildings being redeveloped as a multi-family residential housing complex. Investigations included Phase I ESA, Phase II investigations, asbestos surveys, lead-paint inspections, mold surveys and radon testing. He also provided oversight for UST removals, asbestos and LBP abatement, vapor mitigation, and radon mitigation. Responsibilities included proposal preparation, budget management, working with regulators, management of technical staff, abatement contractors and subcontractors, site safety inspections, completing project documentation forms, final report preparation, and development of O&M programs. Bruce successfully obtained Comfort Letters for his clients to secure the necessary funding to repurpose the sites for their intended purposes.



*Marty and his wife reside in Brown County, Indiana. In his free time, he enjoys carpentry and fine woodworking.*

**Project Role**  
Project Geologist

**Office**  
Michigan City, Indiana

**Experience**  
22 years

**Education**  
Bachelor of Science, Geology, University of Cincinnati

**Licenses & Certifications**  
Professional Geologist; Indiana, NC, GA  
Asbestos Hazard Evaluation Specialist; OH  
Asbestos Inspector; IN, IL, KY  
Asbestos Worker; Indiana  
ASTM Environmental Site Assessments for Commercial Real Estate  
OSHA  
40 Hour Hazardous Waste Operations and Emergency Response Standard (HAZWOPER)  
10 Hour OSHA Construction Certification  
Ionization Radiation Safety

Marty's environmental consulting experience features a technical background in Phase I and Phase II environmental assessments, remedial investigations, remedial action plans, risk assessments, landfill monitoring, asbestos surveys and mold inspections. Marty is skilled in the development of project plans that meet his clients' goals and satisfy regulatory requirements. Marty has successfully and cost effectively managed projects for a diverse group of clients in industrial, commercial and residential settings.

**Asbestos Surveys:** Marty has conducted detailed asbestos surveys for several high-rise buildings, small to large industrial/commercial buildings, former school buildings, apartment complexes and residences. The surveys involved visually locating suspected asbestos containing materials, finding chases and other hidden locations containing suspected ACM, collecting samples, and determining quantities for abatement. Marty is knowledgeable in the Asbestos Hazard Emergency Response Act (AHERA), National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Occupational Health and Safety (OSHA) asbestos regulations as they apply to surveys and abatement projects.

**Mold Assessments:** Marty has conducted mold investigations and inspections for numerous residential properties, apartment complexes and commercial properties. Responsibilities included sampling and assessments of indoor and outdoor mold, determination of indoor amplification, causation determination, quantity estimation and clear concise reporting.

**Petroleum Industry:** Marty has extensive experience conducting site investigations for petroleum terminals, pipelines, pipeline pumping stations, bulk storage facilities and gas stations. He has investigated, planned, remediated and obtained regulatory closure for crude oil, gasoline and diesel releases at numerous terminal/pipeline sites in North Carolina, Indiana and Illinois. Working at these sites required precise planning and coordination with multiple stakeholders and regulators. In a recent terminal project, cured in place pipe-lining (CIPP) technology was used to rehabilitate a leaky storm sewer located under important infrastructure to prevent contaminant migration into the sewer. The use of this innovative technology saved the owner tens of thousands of dollars in construction costs, did not require any terminal downtime, was protective of human health and of the environment and was an important factor in obtaining regulatory closure of the release.



*Nathan enjoys camping, snow skiing, golfing and exercise. He is an avid fan of the Colts, Pacers and Hoosiers.*

**Project Role**  
Project Manager

**Office**  
Michigan City, Indiana

**Experience**  
2 years

**Education**  
Bachelor of Arts, Geological Science, 2017  
Indiana University, Bloomington, IN  
Business minor, Kelley School of Business,  
2017 Indiana University, Bloomington, IN

**Licenses & Certifications**  
Asbestos Abatement Worker; Indiana  
Illegal Drug Lab Inspector; Indiana  
Asbestos Building Inspector; Indiana  
Lead Building Inspector; Indiana  
Radon Tester, Indiana

Nathan serves as a project manager and is responsible for a diverse number of tasks including: field sampling of soil, water, lead-based paint, phase I assessments, and mold inspections. Other responsibilities include report preparation, scheduling, budgeting, and client coordination. Nathan has quickly learned field operations while successfully managing projects increasing in complexity

*Phase II Subsurface Investigations, Indiana:* Nathan has completed multiple Phase II subsurface investigations. Most notably, he completed the investigation of a 12-acre former foundry in northern Indiana. The investigation included the installation of 20 soil borings, monitoring wells and the preparation of written safety programs. Field responsibilities included utility locates, oversight of drillers, logging soil borings, screening soils with photoionization detector, and selection of samples for laboratory analysis. He assisted with geologic and hydrogeologic interpretations and preparation of the final written report.

Nathan installed multiple monitoring wells and temporary piezometers for the collection of groundwater samples and identification of light non-aqueous phase liquids (LNAPL). He has considerable experience with collection of groundwater using bladder pumps, peristaltic pumps, and whale pumps and using traditional bailing and low-flow sampling techniques. He is well-versed in the collection of monitored natural attenuation parameters and sampling for volatile organic compounds, semi-volatile organic compounds, metals, PCBs, while following EPA Quality Assurance/Quality Control protocols.

*Radon Testing & Mitigation, Midwest:* Nathan has provided contractor oversight and assisted with the installation of radon mitigation systems for several large apartment buildings in Indiana and Ohio. He assisted with diagnostic tests for system design to ensure effective and reliable mitigation of radon concerns. Nathan also assisted with troubleshooting existing systems to ensure proper operation and radon mitigation. Responsibilities included assisting with post-construction and post-mitigation radontesting.

*Illegal Drug Lab Sampling & Clearance, Indiana:* Nathan is a qualified drug lab inspector and has provided clearance and decontamination for multiple residential properties and apartment units where illegal drug labs have operated. Responsibilities include conducting initial inspections and interpretation of results to develop plans to either demolish and/or decontaminate the property. Experience includes the use of traditional cleaning techniques and hydrogen peroxide-based decontaminants. Nathan's responsibilities include complying with state sampling requirements to verify cleanup levels have been achieved and preparation of written report and/or Certificate of Decontamination documenting decontamination activities.

**Attachment B**  
**Schedule of Fees**

**Aegis Environmental, Inc.**  
**Schedule of Fees and Services**  
**For Northwest Indiana Regional Planning Commission**

**ENGINEERING AND GEOLOGIC SERVICES**

<b><u>Service</u></b>	<b><u>Unit</u></b>	<b><u>Unit Price</u></b>
<b>Personnel</b>		
a) Senior Project Manager	per hour	130.00
b) Project Manager	per hour	100.00
c) Staff	per hour	80.00
d) Senior Technician	per hour	80.00
e) Technician	per hour	70.00
f) Drafting	per hour	60.00
g) Secretarial	per hour	40.00
<b>Field Monitoring Equipment</b>		
a) Photoionization Detector	day	75.00
b) Gastehtor LEL/O <sub>2</sub> Meter	day	50.00
c) Q-track Air Monitor	day	100.00
d) Solinst Water Level Indicator	day	12.00
e) Solinst Product/water Interface probe	day	50.00
f) pH meter	day	20.00
g) Survey Equipment	day	50.00
h) Multi-Meter (pH, Turbidity, DO, ORP, Conductivity)	day	60.00
i) Outside Rental Equipment		Cost + 10%
<b>Sampling Equipment</b>		
a) Bucket Auger	day	25.00
b) Peristaltic or Bladder Pump	day	100.00
c) Disposable Bailers	ea.	10.00
d) Sample Jars	ea.	NC
<b>Per Diem</b>		
a) Truck Usage	per day	50.00
b) Transportation	per mile	0.50

**Notes:**

- The prices are for work under EPA "Level D" safety conditions. For work under EPA "Level C" conditions add 20% to the unit prices.

All work to be done on a non-union basis.

Subcontract cost and other costs for site dedicated equipment will be invoiced at cost + 10%