

September 25, 2019

Mr. Mikael Kilpela  
City of Marquette  
Engineering Department  
1110 Wright Street  
Marquette, Michigan 49855

Re: *Technical and Cost Proposal* – Professional Services to Advance Soil Borings and Classify Soil for Four Projects in Marquette, Michigan  
TriMedia Proposal Number 2019-5944

Dear Mr. Kilpela:

TriMedia Environmental & Engineering Services, LLC (TriMedia) is in receipt of the *Request for Proposals* (RFP) issued by the City of Marquette (City) and appreciates having the opportunity to present this *Technical and Cost Proposal* detailing how our staff of scientists, engineers, and surveyors can be of assistance to advance approximately 27 soil borings and provide necessary project documentation.

This *Technical and Cost Proposal* presents our professional qualifications to complete the project. Additionally, you will find corporate information regarding our contracting credentials, professional staff, insurance coverage, and our strategic approach, schedule and cost estimate to complete the project.

#### **CORPORATE OVERVIEW**

Established in 1995, TriMedia provides a full range of services including: environmental engineering, locating services, land surveying, industrial hygiene, health and safety, and geographic information systems (GIS). Our team includes Professional Engineers and Engineers-in-Training, Certified Industrial Hygienists, Safety Professionals, GIS Specialists, Professional Surveyors, CADD Specialists, and other technical support staff. For additional information about our corporate qualifications and services, please also visit us at [www.trimediaee.com](http://www.trimediaee.com).

#### **TriMedia Office Locations**

TriMedia maintains offices in Marquette, Marshall, Escanaba, and Metro Detroit, Michigan; Livingston, Montana; Minot, North Dakota; Phoenix, Arizona; and Superior, Wisconsin. The services outlined herein will be provided through our Marquette, Michigan office.

### **Professional Liability Insurance Protection**

In consideration of protecting the interests of our clients, TriMedia maintains professional liability insurance coverage for all projects. A summary of this coverage includes: Professional Liability Errors/Omissions, inclusive of Pollution Liability in the amount of \$1,000,000 per occurrence/\$2,000,000 aggregate, Comprehensive General Liability in the amount of \$1,000,000 per occurrence/\$2,000,000 aggregate, and Automobile Liability and Workers Compensation in the amount of \$1,000,000. In addition, a \$10,000,000 umbrella applies to all aspects of our insurance coverage. Enclosed please find a Certificate of Insurance for your records.

### **PROJECT TEAM**

TriMedia will provide an experienced and technically-proficient project team to complete the project. We anticipate the undersigned, Mr. Ryan Whaley, CHMM, REHS, will direct the project. The remaining team members are listed below with their mobile phone numbers, and copies of their resumes are enclosed for your review and consideration.

Project Manager:	Ryan Whaley, CHMM	(906) 362-6006
Environmental Drilling Manager:	Nick Kosinski	(906) 236-2555
Senior Scientist:	Lance Lindberg	(906) 869-0619
Staff Scientist:	Adam Kiddle	(906) 235-3755
Project Coordinator:	Michele Thomas	(906) 361-0033
GIS Manager:	Ken Kaiser, GISP	(906) 869-5082

### **RELEVANT EXPERIENCE**

TriMedia has the experience, technical expertise and qualifications you can rely on. Our engineering experience is broad and extensive. A representative summary of our regional projects, including descriptions and client information is presented below:

<b>Project Name:</b>	<b>Soil Borings for <u>2018</u> Street Projects</b>
<b>Client:</b>	<b>City of Marquette</b>
<b>Client Contact Person:</b>	<b>Keith Whittington, City Engineer</b>
<b>Phone Number:</b>	<b>(906) 225-8979</b>
<b>Client Address:</b>	<b>1100 Wright Street Marquette, Michigan 49855</b>

#### **Project Description:**

TriMedia advanced 36 soil borings at locations marked by the City of Marquette for utility projects along Third Street, Kaye Avenue, Front Street, Altamont Street, Park Streets, Arch Street, and the Coast Guard Road. TriMedia scheduled the MISS DIG subsurface utility clearance prior to advancing soil probes. Each soil boring was advanced to a maximum depth of 20 feet below ground surface or until refusal was encountered. Soil samples were collected continuously using a Geoprobe® DT22 Dual Tube Sample System with disposable plastic liners. TriMedia characterized each recovered soil sample using the Unified Soil Classification System (USCS). Upon completion of soil borings, TriMedia provided a summary report and typed Soil Boring Logs for each soil boring prior to the deadline for the completion of the scope of services.

**Project Name:** Soil Borings for 2017 Street Projects  
**Client:** City of Marquette  
**Client Contact Person:** Keith Whittington, City Engineer  
**Phone Number:** (906) 225-8979  
**Client Address:** 1100 Wright Street  
Marquette, Michigan 49855

**Project Description:**

TriMedia advanced 23 soil borings at locations marked by the City of Marquette for utility projects along Presque Isle Avenue, College Avenue, Fifth Street, and Homestead Street. TriMedia scheduled the MISS DIG subsurface utility clearance prior to advancing soil probes. Each soil boring was advanced to a maximum depth of 20 feet below ground surface or until refusal was encountered. Soil samples were collected continuously using a Geoprobe® DT22 Dual Tube Sample System with disposable plastic liners. TriMedia characterized each recovered soil sample using the USCS. Upon completion of soil borings, TriMedia provided a summary report and typed Soil Boring Logs for each soil boring prior to the deadline for the completion of the scope of services.

**Project Name:** Soil Borings for 2016 Street Projects  
**Client:** City of Marquette  
**Client Contact Person:** Greg Borzick  
**Phone Number:** (906) 228-0444  
**Client Address:** 850 West Baraga Avenue  
Marquette, Michigan 49855

**Project Description:**

TriMedia advanced 61 soil borings at locations marked by the City of Marquette for utility projects along Wright Street, Presque Isle Avenue, Wilson/Ward Street, Front/Sprint Street, Hancock Avenue, Jefferson Street, Sheridan Avenue, Sherman Street, East Baraga Avenue, and Fair Avenue. TriMedia scheduled the MISS DIG subsurface utility clearance prior to advancing soil probes. Each soil boring was advanced to a maximum depth of 20 feet below ground surface or until refusal was encountered. Soil samples were collected continuously using a Geoprobe® DT22 Dual Tube Sample System with disposable plastic liners. TriMedia characterized each recovered soil sample using the USCS. Upon completion of soil borings, TriMedia provided a summary report and typed Soil Boring Logs for each soil boring prior to the deadline for the completion of the scope of services.

**Project Name:** Soil Borings for 2015 Street Projects  
**Client:** City of Marquette  
**Client Contact Person:** Greg Borzick  
**Phone Number:** (906) 228-0444  
**Client Address:** 850 West Baraga Avenue  
Marquette, Michigan 49855

**Project Description:**

TriMedia advanced 37 soil borings at locations marked by the City of Marquette for utility projects along Spring Street, Jonathan Carver Road, St. Luson Drive, and Lincoln Avenue. TriMedia scheduled the MISS DIG subsurface utility clearance prior to advancing soil probes. Each soil boring was advanced to a maximum depth of 20 feet below ground surface or until refusal was encountered. Soil samples were collected continuously using a Geoprobe® DT22

Dual Tube Sample System with disposable plastic liners. TriMedia characterized each recovered soil sample using the USCS. Upon completion of soil borings, TriMedia provided a summary report and typed Soil Boring Logs for each soil boring prior to the deadline for the completion of the scope of services.

#### **PROJECT UNDERSTANDING**

TriMedia understands the City is seeking a consultant to advance soil borings, classify soils using the USCS, and develop soil boring logs documenting the results of the soil investigation for nine infrastructure improvement projects including the following:

##### **Marquette Drive from U.S. Highway 41 to North End Cul-De-Sac**

- Eight soil borings to a depth of 15 feet or bedrock refusal, whichever comes first.
- Additional borings will be required if refusal is encountered in areas not anticipated. This will determine if refusal was per an isolated rock, boulder, or macadam situation.
- Additional borings and/or additional depth may be required if peat is encountered and the extents need to be verified.
- USCS soil classification for each sample.
- Static water level for each boring.
- Traffic control as required.

##### **Lakeview Drive from Marquette Drive to the South End Cul-De-Sac**

- Five soil borings to a depth of 15 feet or refusal.
- Additional borings will be required if refusal is encountered in areas not anticipated. This will determine if refusal was per an isolated rock, boulder, or macadam situation.
- Additional borings and/or additional depth may be required if peat is encountered and the extents need to be verified.
- USCS soil classification for each sample.
- Static water level for each boring.
- Traffic control as required.

##### **Union Street from Wilkinson Avenue to Presque Isle Avenue**

- Six soil borings to a depth of 15 feet or refusal.
- Additional borings will be required if refusal is encountered in areas not anticipated. This will determine if refusal was per an isolated rock, boulder, or macadam situation.
- Additional borings and/or additional depth may be required if peat is encountered and the extents need to be verified.
- USCS soil classification for each sample.
- Static water level for each boring.
- Traffic control as required.

##### **Lakeshore Boulevard Relocation from Pine Street to Hawley Street**

- Eight soil borings to a depth of 15 feet or refusal.
- Additional borings will be required if refusal is encountered in areas not anticipated. This will determine if refusal was per an isolated rock, boulder, or building foundation situation.
- Additional borings and/or additional depth may be required if peat is encountered and the extents need to be verified.
- USCS soil classification for each sample.
- Static water level for each boring.

- Penetration resistance, or N-value per ASTM D 1586, MDOT requirements for ultimate bearing capacities.
- Traffic control as required.

#### **SCOPE-OF-SERVICE**

##### **Task 1: Project Management / Traffic Control**

TriMedia will provide necessary project management services to support the project. Our effort will include contract administration, project documentation and invoicing, project planning and scheduling with the City Engineering Department, and traffic control. We will develop and maintain project records that include field records and project communication.

TriMedia will provide appropriate traffic control while conducting the work. Traffic control will be consistent with specifications outlined in the "Manual on Uniform Traffic Control Devices" (MUTCD) - Temporary Traffic Control. Sample *Traffic Control Plans* have been enclosed for your review.

The following summary provides an overview of the services to ensure a safe traffic control plan for the duration of the project:

- TriMedia will provide the City with a project work zone schedule a minimum of three work days prior to beginning work and request the City place no parking signs (if applicable) in those work zones on a day-to-day basis;
- TriMedia will utilize a two person crew. One crew member will perform the borings, while the other member will be responsible for maintaining two way traffic and flagging as needed;
- All members of the TriMedia field crew will don appropriate personal protective equipment; and
- Traffic cones and/or signage may be utilized for drilling work.

##### **Task 2: Utility Clearance / Advance Soil Borings / Classify Soils**

Based on the proposed soil boring locations to be marked by the City, TriMedia will request a MISS DIG subsurface utility clearance a minimum of three business days prior to advancing soil borings. Soil borings will be advanced to the depths specified in the *RFP* (maximum depth of 15 feet bg) or refusal, whichever is encountered first. Additional borings will be advanced if refusal is encountered to determine if refusal is the result of an isolated rock, boulder, or macadam situation. The approximate groundwater level, as indicated by saturated soil conditions, will be recorded on the soil boring log, if observed.

Soil borings located in the areas of the Marquette Drive, Lakeview Drive, and Union Street projects will be advanced using a track-mounted Geoprobe® Model 7822DT or a truck-mounted Geoprobe® Model 5400 probing rig. Soil samples will be collected continuously in four- or five-foot intervals using Geoprobe® DT22 Dual Tube Sample System equipped with disposable acetate liners. TriMedia will characterize each recovered soil sample using the USCS. All borings will be backfilled with bentonite chips and patched with like surface materials (i.e. concrete or asphalt).

Borings in the area of the Lakeshore Boulevard relocation project will be advanced using Geoprobe Model 7822DT track-mounted drilling rig using 3 1/4" ID x 6 1/2" OD hollow stem augers (HSAs) or 4 1/4" ID x 8 1/2" OD HSAs, depending on site conditions. Split-spoon soil samples will be collected using 2-foot long split-spoon samplers at continuous intervals to five feet bg, and then 2.5-foot intervals to 15 feet bg to collect soil samples and blow count (n-value) data. All borings will be backfilled with bentonite chips and patched with like surface materials (i.e. concrete or asphalt).

**Task 3: Soil Boring Logs**

Upon completion of Task 2, TriMedia will develop and provide soil boring logs for each soil boring. Soil sample descriptions will follow the USCS and include specific information such as soil boring depth, soil strata, blow counts, and static water level and saturation (if applicable). A sample soil boring log has been enclosed for your reference.

**Task 4: GIS / Digital Deliverables (Optional)**

As an optional service, TriMedia will deliver data and documents in a format useable with the City's GIS system. This data will include a geodatabase containing boring locations, attributed with boring name, depth, soil descriptions, groundwater level, and saturation. Additionally, all boring logs will be embedded into the geodatabase and linked to each soil boring.

**PROJECT COST**

In an effort to provide the City with a reasonable means of estimating expenses for the project, TriMedia proposes the following lump sum costs to complete the tasks in accordance with the *RFP*:

Tasks 1, 2, and 3	\$ 5,670.00
Additional Direct Push Boring Cost (per boring)	\$ 175.00
Additional HSA Boring Cost (per boring)	\$ 315.00
Task 4 GIS (Optional)	\$ 500.00
Additional Cost (per boring)	\$ 20.00

**PROPOSED SCHEDULE**

TriMedia will invoice the project upon issuance of the final report and requests payment within 30 days. Assuming that the notice to proceed is granted by October 17, 2019, the required soil boring logs and related documentation will be forwarded to the City Engineering Department on or before November 23, 2019.

TriMedia appreciates having the opportunity to present this *Technical and Cost Proposal*. We trust the content and format of this correspondence is consistent with your expectations and the requirements of the *RFP*. TriMedia is prepared to immediately initiate this project upon receiving your formal authorization to proceed.

Mr. Mikael Kilpela  
City of Marquette  
September 25, 2019  
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Should you have any questions, or wish to discuss this correspondence in greater detail relative to the technical requirements or anticipated project costs and pricing controls, please do not hesitate to contact me at (906) 228-5125, or via email at [rwhaley@trimediaee.com](mailto:rwhaley@trimediaee.com).

**Your Priority. Our Promise.** On behalf of the professional staff at TriMedia, we look forward to your review and the opportunity to successfully complete this project for the City of Marquette.

Sincerely,  
TriMedia Environmental & Engineering Services, LLC



Ryan J. Whaley, CHMM, REHS  
Senior Scientist / Project Manager

RJW/mlh

Enclosures (10): Certificate of Insurance  
Resumes (6)  
Sample Traffic Control Plans (2)  
Sample Soil Boring Log

cc: TriMedia File 2019-5944



TRIMENV-01

KANDRICK

## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/25/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Mourer Foster, Inc 615 N. Capitol Ave. Lansing, MI 48933	<b>CONTACT</b> James Slear		
	<b>PHONE</b> (A/C, No, Ext): (517) 371-2300 219	<b>FAX</b> (A/C, No): (517) 371-7121	
	<b>E-MAIL ADDRESS:</b> jslear@mourer-foster.com		
<b>INSURED</b>  TriMedia Environmental & Engineering Services LLC 830 W. Washington St. Marquette, MI 49855	<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
	<b>INSURER A:</b> Admiral Insurance Company		24856
	<b>INSURER B:</b> Harleysville Lake States Ins.		14516
	<b>INSURER C:</b> Granite State Insurance Co.		
	<b>INSURER D:</b>		
	<b>INSURER E:</b>		
	<b>INSURER F:</b>		

## COVERAGES

## CERTIFICATE NUMBER:

## REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractor Pollution <input checked="" type="checkbox"/> Stop Gap GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER	X	X	FEIECC2519701	7/21/2019	7/21/2020	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 50,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	X		BA 00000026941U	7/21/2019	7/21/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			FEIEXS2519801	7/21/2019	7/21/2020	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	WC019397724	7/21/2019	7/21/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Professional			FEIECC2519701	7/21/2019	7/21/2020	1,000,000
B	Inland Marine			C19N6416	7/21/2019	7/21/2020	Leased/Rented 100,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Project: Soil Borings - The City of Marquette, its agents, representatives, directors officials and employees are listed as additional insured. Coverage is primary and non-contributory. 30 day notice of cancellation applies

## CERTIFICATE HOLDER

## CANCELLATION

City of Marquette  
300 W. Baraga  
Marquette, MI 49855

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



## **Ryan J. Whaley, CHMM, REHS**

Senior Scientist

*rwhaley@trimediaee.com*

### **Summary of Professional Experience**

Mr. Ryan Whaley serves as Senior Scientist focusing on site assessment, contaminant clean-up, regulatory compliance assessment, and natural resource and environmental management projects. He has a working knowledge of state and federal regulations/guidelines associated with a wide range of environmental and natural resource projects.

Mr. Whaley has considerable experience in the environmental and regulatory compliance industry. Areas of expertise include: underground storage tank management, site characterization and investigation, remediation, environmental monitoring and permitting, waste management, brownfield redevelopment, environmental drilling and the investigation and cleanup of accidental spills.

Prior to joining TriMedia, he was the Noncommunity Public and Private Water Supply Coordinator for the Luce-Mackinac-Alger-Schoolcraft District Health Department.

### **Certifications**

- Certified Hazardous Material Manager – Institute of Hazardous Material Management
- Registered Environmental Health Specialist/Registered Sanitarian – National Environmental Health Association
- OSHA 40-Hour Hazardous Waste Operation and Emergency Response
- OSHA 30-Hour Construction Safety and Health
- MSHA Experienced Miner Training – Metal and Non-Metal, Aboveground

### **Affiliations**

- Michigan Association of Hazardous Materials Professionals
- Alliance of Hazardous Materials Professionals
- Michigan Association of Environmental Professionals

### **Education**

- B.S. – Natural Resources & Environmental Management, Ball State University, Muncie, Indiana.

### **Areas of Specialty**

- Environmental Due Diligence
- Regulatory Compliance
- Soil & Groundwater Remediation
- Brownfield Redevelopment
- Hazardous Waste Management/Waste Minimization
- Environmental Drilling
- Risk Assessment
- Natural Resources Management
- Compliance Assessments
- Emergency Response/Accidental Spills
- Facility Audits
- 



**Ken G. Kaiser, GISP**

GIS Manager

*kkaiser@trimediaee.com***Summary of Professional Experience**

Mr. Kaiser serves as Geographic Information Systems (GIS) Manager providing GIS and GPS services at TriMedia. He has over 20 years of experience with the last 15 being as a GIS consultant. Previous to that, Mr. Kaiser served as both GIS Director and GIS Specialist at the County and City Government level. He also has a strong background in planning and zoning, having worked as a planner and served as both Secretary and Vice Chair on the Marquette County Planning Commission.

Mr. Kaiser has managed a wide variety of GIS projects. While at Marquette and Ottawa Counties, he managed the implementation of GIS across all county departments. While at the City of Marquette, he developed the initial GIS and integrated it into multiple departments. As a GIS consultant, he has managed many GIS projects such as transportation feasibility studies, environmental site historic data management, E-911 GIS/GPS integration, wind farm siting, county wide parcel mapping, enterprise GIS planning and integration, high hazard dam flood inundation mapping, utility mapping, field data collection/GIS integration, and large scale environmental response geospatial data management.

**Certifications**

- Geographic Information Systems Professional (GISP)
- ESRI ArcIMS
- ESRI ArcSDE
- Zoning Administration
- OSHA 40-Hour Hazardous Waste Operation and Emergency Response

**Education**

- B.S. – Earth Science, Northern Michigan University, Marquette, Michigan
- Graduate Studies –GIS/Resource Analysis, Saint Mary's University, Winona, Minnesota

**Areas of Specialty**

- Geographic Information Systems
- GIS Software Integration
- Emergency Response GIS
- GIS Implementation Planning
- GPS Field Data Collection
- Geospatial Data Management and Design
- Parcel Mapping
- E-911 Data Collection and Implementation
- Location Analysis
- Facilities Mapping
- Cemetery Mapping
- Digital Orthophotography Acquisition
- Comprehensive Planning and Zoning

## **Lance Lindberg**

Senior Scientist

*llindberg@trimediaee.com*

### **Summary of Professional Experience**

As a Senior Scientist with TriMedia, Mr. Lindberg has over 20 years of experience in environmental investigation and remediation projects. He is responsible for project management, regulatory and client contact, evaluation and assessment of contaminated sites, field activities and preparation of reports. His areas of specialty include Phase I/II environmental site assessments and baseline environmental assessments; asbestos surveys and lead-based paint inspections, CERCLA and RCRA facility investigations; and soil and groundwater contamination and remediation. Mr. Lindberg has conducted site investigations and closures associated with Part 201 of Michigan's Public Act 451 and underground storage tank (UST) regulations of Michigan's Part 213 of Public Act 451. Mr. Lindberg's experience also includes direct involvement with on-site activities associated with investigation and remediation activities.

Prior to joining TriMedia, Mr. Lindberg was responsible for project management for clients with sites of environmental contamination. He coordinated and conducted environmental investigations, groundwater monitoring, free product monitoring and removal, soil disposal, and remediation system installation and operation. He conducted monthly site inspections of railyards to meet the requirements of SWPPs, SPCCs and PIPPs for a major railroad company. He coordinated the sampling and disposal of hazardous materials, completed annual groundwater monitoring reports and environmental site assessments for a mining company client.

Mr. Lindberg is also experienced in coordinating and conducting sediment sampling activities and permitting involved with dredging in the Great Lakes for the United States Coast Guard and municipal clients. He has prepared bid specifications, work plans, oversaw field operations and remediation activities involving dredging and vacuum trucks of contaminated stream beds. These activities included the construction of trout spawning habitat of the creek.

### **Education**

- B.S. – Major: Industrial Technology, Minor: Drawing and Design, Northern Michigan University, Marquette, Michigan

### **Areas of Specialty**

- Regulatory Compliance
- Soil and Groundwater Investigations
- Storm Water Pollution Prevention Plans
- Environmental Due Diligence
- Permitting
- Waste Sampling and Disposal
- Project Management
- Environmental Sampling and Monitoring
- Environmental Reports
- Asbestos Inspections

### **Certifications**

- 40-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER)
- MSHA Experienced Miner – Metal and Non-Metal-Above Ground
- State of Michigan Asbestos Inspector
- EGLE Storm Water Management – Industrial Sites
- EGLE Storm Water Management – Construction Sites
- American Red Cross Adult CPR and First Aid Training

**Adam D. Kiddle**

Staff Scientist

akiddle@trimediaee.com

**Summary of Professional Experience**

Mr. Kiddle is a Staff Scientist with over four years of experience in environmental services and marine construction. His expertise includes environmental impact studies, dredging operations, and water treatment systems. He has a working knowledge of environmental policy and regulations and has worked with marine and heavy equipment in high hazard environments in Northern Michigan for the past six years.

Mr. Kiddle has experience in permit compliance during environmental field activities serving industrial clients. As a Staff Scientist, Mr. Kiddle is involved in pipeline utility sweeps and emergency response work. He provides support to our environmental department and has experience conducting inspections.

**Certifications/Trainings**

- OSHA 40-Hour Hazardous Waste Operations
- First Aid/CPR Certified
- Certified Wildland Firefighter, S130, L190, L180
- Transportation Worker Identification Credential (TWC)
- Merchant Mariner Credential
- Safe Ice Resurfacers Operations (SIRO)
- Construction Stormwater Operator Inspector (CSWO)

**Education**

- B.S. – Environmental Studies and Sustainability, Northern Michigan University, Marquette, Michigan
- Liberal Arts coursework, U.S. History, St. Clair County Community College, Port Huron, Michigan

**Areas of Specialty**

- Environmental Sustainability
- Wetlands
- Environmental Impact Studies
- Environmental Policy and Regulations
- Emergency Spill Response
- Water Treatment Systems
- Marine Construction
- Marine Dredging

**Nicholas A. Kosinski**  
Environmental Drilling Manager  
*nkosinski@trimediaee.com*

### **Summary of Professional Experience**

Mr. Kosinski specializes in the application of environmental field activities and accurate data collection. He is particularly experienced with environmental drilling techniques, and possesses expertise in the advancement of soil borings and the installation of monitoring wells in accordance with applicable regulations as well as various sampling methods and applications. He is skilled in the safe use and maintenance of drilling equipment to ensure on-site safety and efficiency, having led direct push and hollow stem auger environmental drilling initiatives at sites throughout the United States.

Additionally, Mr. Kosinski has worked extensively on emergency chemical and petroleum product spills, most recently on crude oil pipeline releases in Grand Marsh, WI and Marshall, MI. He managed environmental drilling activities in Grand Marsh, and served as an Environmental Inspector during submerged oil clean-up activities on the Kalamazoo River (Marshall) spill - one of the largest pipeline releases in Midwest history.

As an experienced environmental professional, Mr. Kosinski routinely assists senior staff with contamination investigations, environmental monitoring, waste management, and operation and maintenance of remedial treatment systems. He is proficient in the use, calibration and maintenance of environmental instrumentation, including photoionization devices, water level probes and interface probes, water quality meters, data loggers, and combustible gas meters among others.

### **Education**

- B.S. – Conservation, Northern Michigan University, Marquette, Michigan

### **Certifications**

- OSHA 40-Hour Hazardous Waste Operation and Emergency Response
- OSHA 30-Hour Construction Safety and Health
- Operator Qualification (OQ) Covered Tasks – Locate Line, Install Temporary Marker, Inspect and Maintain Temporary Marker, General Abnormal Operating Conditions
- Geographic Information Systems (Certificate)
- North Dakota Certified Monitoring Well Contractor

### **Areas of Specialty**

- Environmental Drilling (Direct Push and Hollow Stem Auger) Techniques
- Managing Environmental Drilling Activities
- Safe Use and Maintenance of Drilling Machinery
- Installation of Monitoring Wells
- Monitoring Well Abandonment
- Groundwater, Soil, Sludge and Waste Sampling
- Environmental and Geotechnical Subsurface Investigations
- Remedial Treatment System Construction, Operation and Maintenance
- Emergency Spill Response
- Four-Way Sweeps
- Utility Locating



**Michele L. Thomas**

Project Coordinator

*mthomas@trimediaee.com***Summary of Professional Experience**

Ms. Thomas has a strong background and experience as a project coordinator and cost controls analyst. She brings administrative expertise, leadership, communication, and organizational skill to her position and in service to TriMedia clientele.

As Project Coordinator, responsibilities include compiling and formatting project information and data consistent with TriMedia's Quality Assurance/Quality Control standards. Specific duties include preparing outgoing documents, field data entry, and the tracking and coordinating of field assignments. In addition, she is cost analyst for a multi-million-dollar project.

Ms. Thomas is proficient in many of the latest computer software applications. She coordinates, manages, and records site-specific information and data, including analytical laboratory documentation, project correspondence, field measurements and analytical analysis, as well as provides cost controls including work order management and accounting processing. She is involved with many aspects of client service and administration.

Ms. Thomas has an extensive background in administration and facilities management for engineering and environmental firms. Prior to joining TriMedia she served as a Regional Facilities Manager and managed several administrative offices. Her effective communication and organization skills make Ms. Thomas a great asset to both TriMedia and our clients.

**Education**

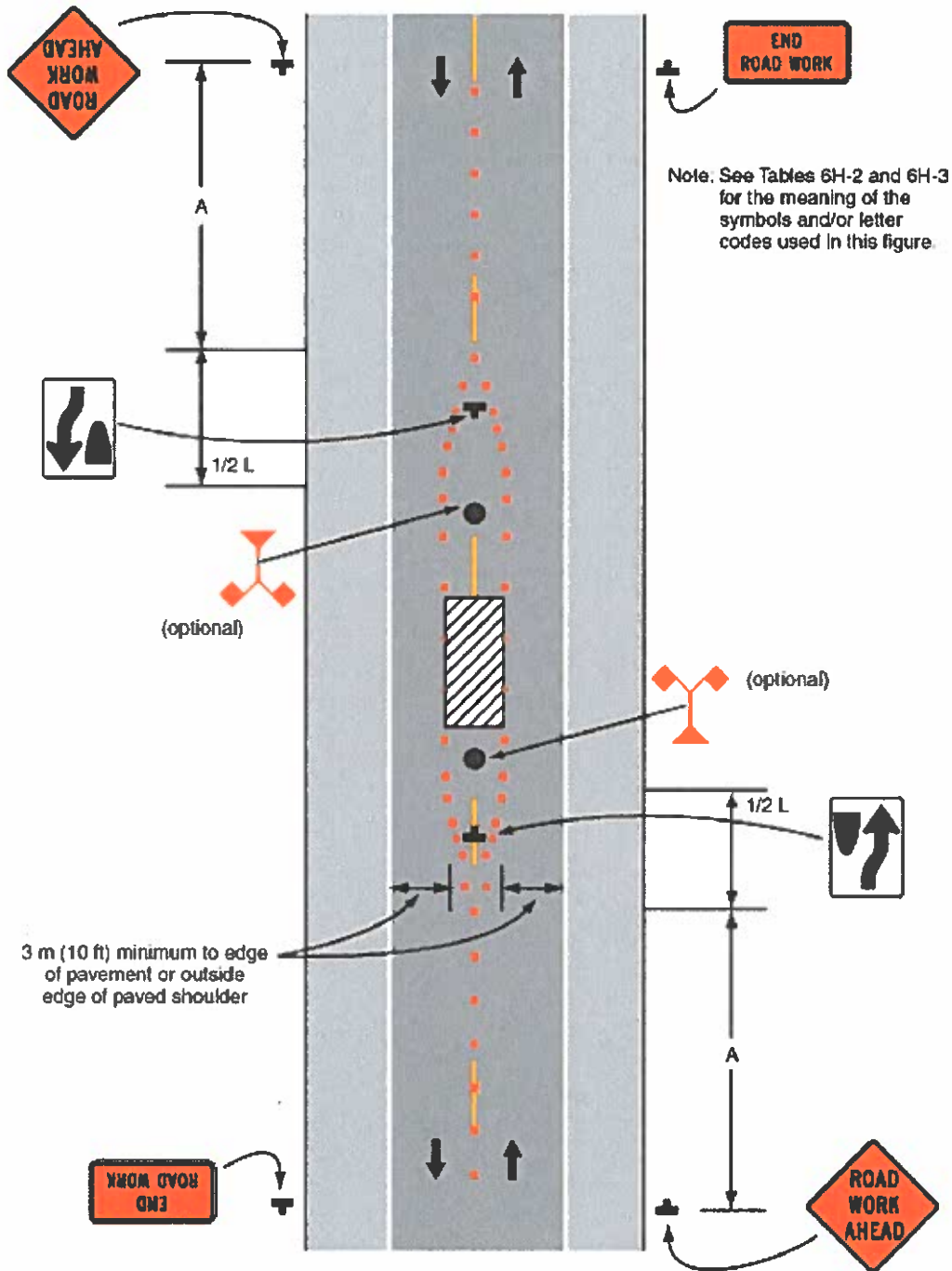
- A.A. Business Management – Northern Michigan University

**Areas of Specialty**

- Quality Assurance/Quality Control
- Cost Control
- Report Data Dissemination
- Computer Applications: MicroSoft Word, Excel, Access, Power Point
- Client Service
- Facilities Management
- Written Communication
- Internal Policies and Procedures

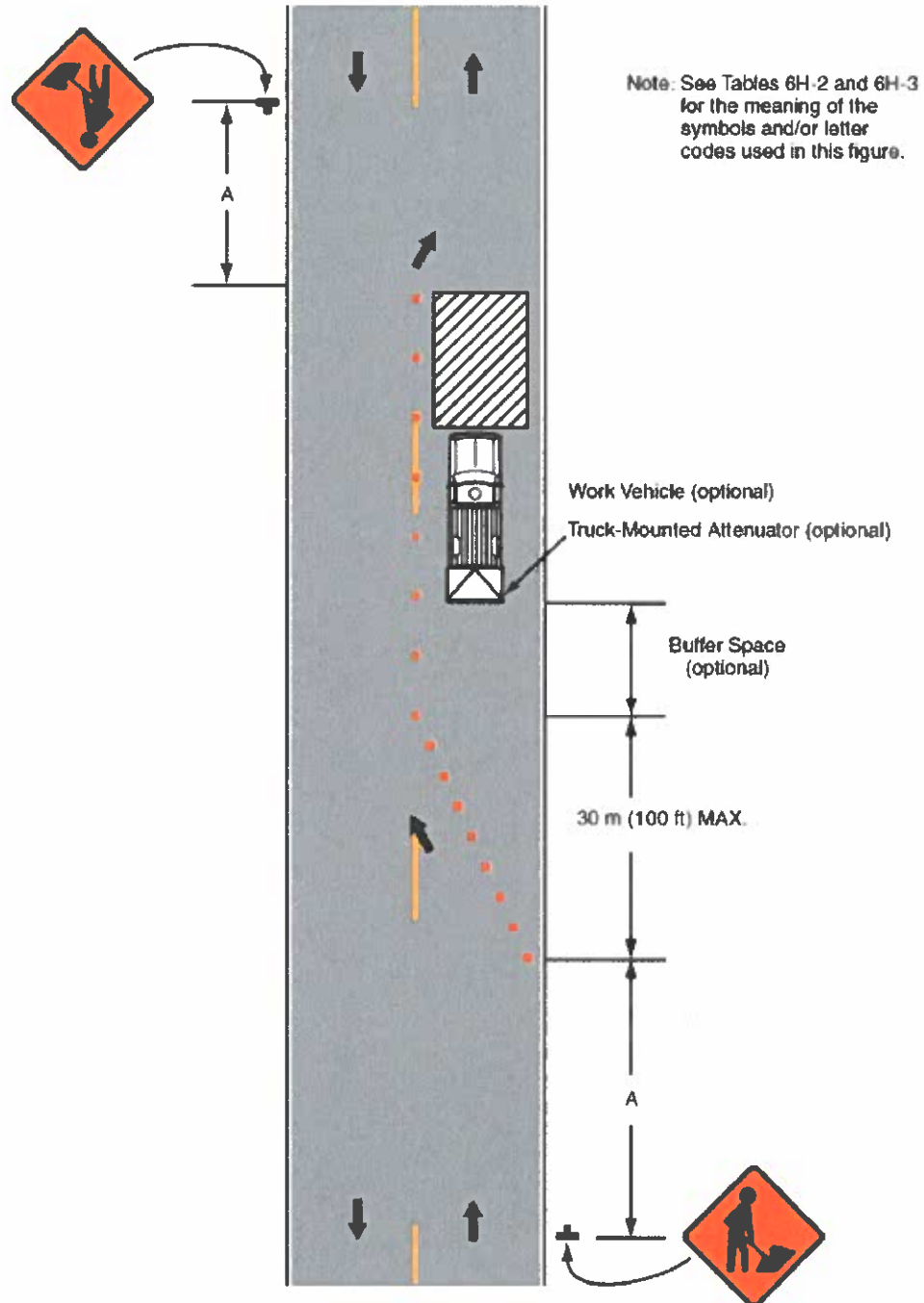


**Figure 6H-15. Work in Center of Road with Low Traffic Volumes (TA-15)**





**Figure 6H-18. Lane Closure on Minor Street (TA-18)**



**Typical Application 18**





**TRIMEDIA**  
ENVIRONMENTAL & ENGINEERING

TriMedia Environmental & Engineering Services, LLC  
830 W. Washington Street  
Marquette, MI 49855  
Telephone: (906) 228-5125  
Fax: (906) 228-5126

**BORING NUMBER B - 1**

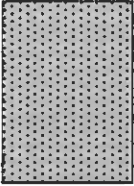


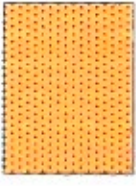


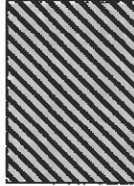





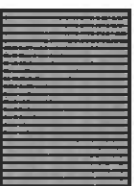





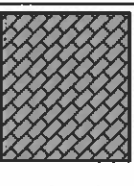
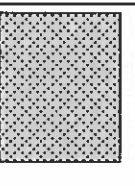
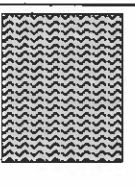
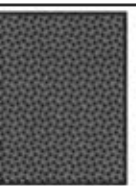

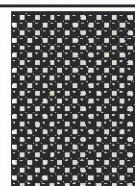
PAGE 1 OF 1

CLIENT City of Marquette  
PROJECT NUMBER 2015-000  
DATE STARTED 10/12/2015 DATE COMPLETED 10/12/2015  
DRILLING CONTRACTOR TriMedia Environmental & Engineering Services, LLC  
DRILLING METHOD Geoprobe Model 7822DT BORING DIAMETER 2-Inches  
LOGGED BY RJW CHECKED BY MAK  
NOTES EXAMPLE BORING LOG

PROJECT NAME 2015 Soil Boring RFP - Example  
PROJECT LOCATION Mattson Park  
GW ELEV. Approx. 15.5 feet below grade  
ELEVATION DATUM NAVD 88  
BORING ELEVATION 609.15'  
NORTHING 753881.246  
EASTING 25933923.68

SAMPLE NUMBER	RECOVERY LENGTH (INCHES)	BLOW COUNT	DEPTH (ft)	MATERIAL DESCRIPTION	USCS	PIG (PPM)	LITHOLOGY	REMARKS
B-1 (9')	38 / 60		0	0-3" CONCRETE	SP			Concrete Sidewalk
			1	3-38" POORLY GRADED SAND Light brown, fine to medium grained, dry				
			2					
			3					
	50 / 60		4		SP			
			5	0-48" POORLY GRADED SAND Light brown, fine to medium grained, damp				
			6					
			7					
	52 / 60		8		SP			
			9	48-50" POORLY GRADED SAND Black, fine to medium grained, moist				
			10	0-14" POORLY GRADED SAND Black, fine to medium grained, saturated				Groundwater @ 10' bg
			11	14-52" POORLY GRADED SAND Reddish brown, fine to medium grained, saturated				
			12		SP			
			13					
			14					
			15	End of Boring @ 15' bg				

Patterns:

					
Sand, gray	Sand, brown	Sand, orange	Sand, tan	Sand, red to reddish brown	Sand, black
					
Silt, gray	Silt, brown	Silt, orange	Silt, tan	Silt, red to reddish-brown	Silt, black
					
Clay, gray	Clay, brown	Clay, orange	Clay, tan	Clay, red to reddish-brown	Clay, brown
				 Asphalt	 Concrete
Bedrock, limestone	Bedrock, sandstone	Bedrock, shale	Organic soil, peat		Fill

Symbols



Approximate Depth of Observed Saturated Soil

Soil Symbols and Descriptions

GW – Well Graded Gravels, gravel-sand mixtures, little or no fines  
 GP – Poorly Graded Gravels, poorly graded gravels, gravel-sand mixtures, little or no fines  
 GM – Silty Gravels, poorly graded gravel-sand-silt mixtures  
 GC – Clayey Gravels, poorly graded gravel-sand-clay mixtures  
 SW – Well Graded Sands, gravelly sands, little or no fines  
 SP – Poorly Graded Sands, gravelly sands, little or no fines  
 SM – Silty Sands, poorly graded sand-silt mixture  
 SC – Clayey Sands, poorly graded sand-clay mixture  
 ML – Inorganic Silts, very fine sands, silty or clayey fine sands with slight plasticity  
 CL – Inorganic Clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays  
 OL – Organic Silts and organic silt-clays of low plasticity  
 MH – Inorganic Silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts  
 CH – Inorganic Clays of high plasticity, fat clays  
 OH – Organic Clays of medium to high plasticity  
 PT – Peat and other highly organic soils