



**EXPRESSION OF  
INTEREST**

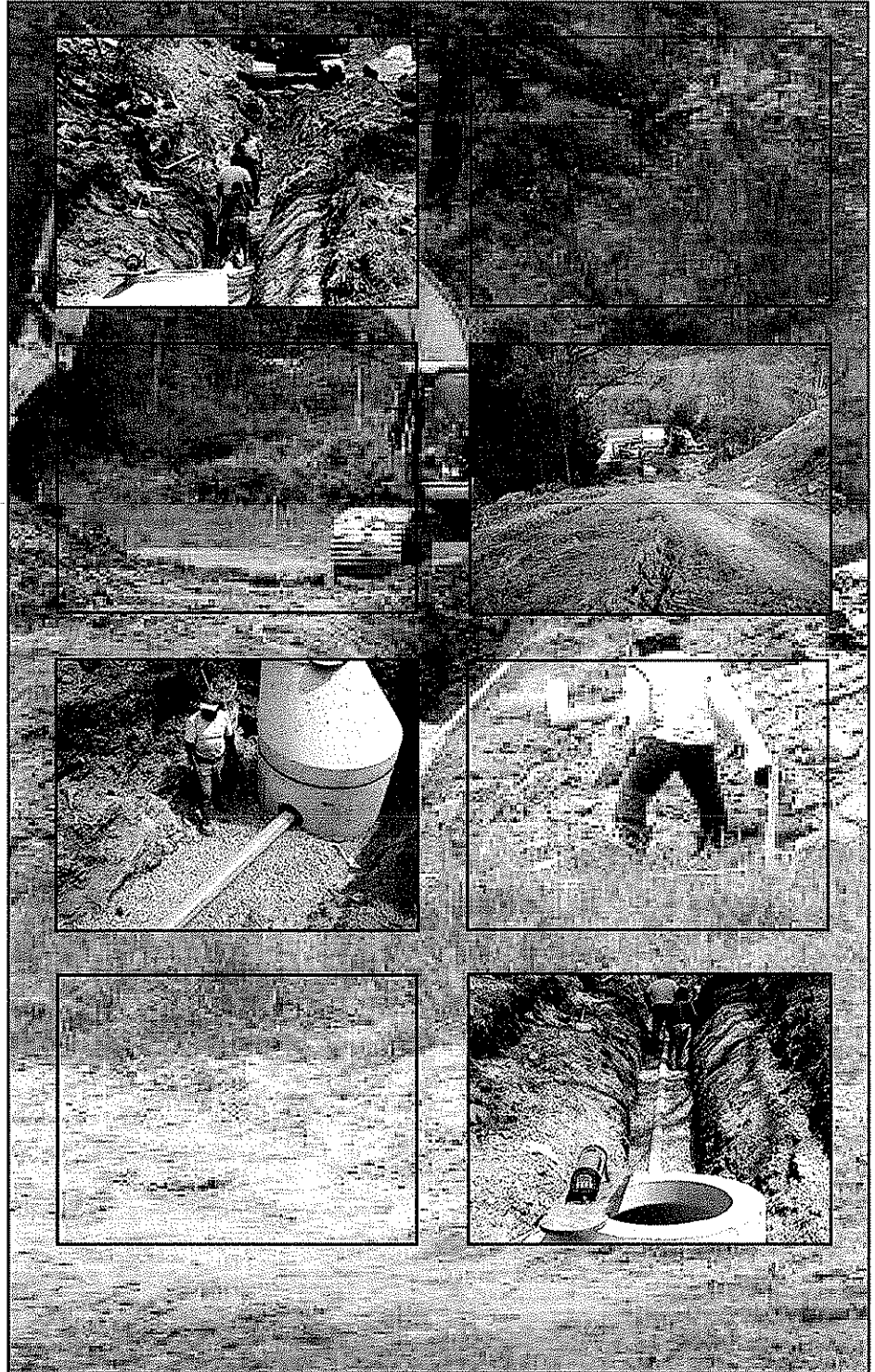
to provide engineering services  
to the

West Virginia Department of  
Environmental  
Protection

for

**WHEELING  
LANDFILL CLOSURE  
DESIGN & QA/QC  
DEP14705**

**August 12, 2009**



RECEIVED

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PURCHASING DIVISION  
STATE OF WV



P.O. Box 519, Nitro, WV 25143  
304.755.8291  
www.terraddon.com

August 13, 2009

Mr. Chuck Bowman, Buyer  
Purchasing Division  
WV Department of Environmental Protection  
2019 Washington Street East  
Charleston WV 25305-0130



P. O. Box 519  
Nitro, WV 25143  
Tel: 304.755.7642  
Fax: 304. 755.2636  
e-mail: jesson.zafar@terraddon.com

Re: Expression of Interest DEP14705  
Wheeling Landfill Closure Design & QA/QC

Dear Mr. Bowman:

TERRADON Corporation (TERRADON) is pleased to submit this Expression of Interest for the Wheeling Landfill Closure Design & QA/QC. TERRADON is a locally owned civil and environmental consulting firm specializing in solid waste landfills and related services.

TERRADON offers a very experienced staff of professionals which will be assigned to this project. The project manager, soils engineer and QA/QC manager each have 30 years or more of experience.

TERRADON has a proven record and reputation with LCAP, Waste Management, AML&R and private industry for 20 years of understanding the customer's needs and focusing on results. We have the technical, managerial and financial resources to complete this work in a timely and cost-efficient manner.

We appreciate your careful review of our Expression of Interest and consideration to be short-listed for an interview.

Sincerely,  
TERRADON Corporation

A handwritten signature in black ink that reads "Jesson Zafar". The signature is written in a cursive, flowing style.

Jesson Zafar  
Regional Marketing Coordinator



# Evaluation Criteria

## Insurance Requirements

TERRADON maintains the following insurance:

\$5,000,000 Professional Liability  
\$1,000,000 General Liability  
\$1,000,000 Property Damage

## Personnel

**Total number of WV Registered Professional Engineers in the Primary Office.**

1. John James, PE	Project Manager/Project Engineer
2. Bud McCallister, PE	Project Manager/Project Engineer
3. William (Bill) White, PE	Project Manager/Project Engineer
4. Timothy White, PE	Project Manager/Project Engineer
5. E. Michael Pyles, PE	Project Manager/Project Engineer
6. Jim Nagy, PE	Project Manager/Project Engineer
Phil Reed, PE (*Lewisburg)	Project Manager/ Project Engineer

**Total number of WV Registered Professional Surveyors in the Primary Office.**

1. Robert Thaw, P.S.
2. Brian Bakanas, P.S.
3. David Brown, P.S.

TERRADON has the following **personnel available** to assign. All persons listed have landfill project experience.

### Project Manager

Jim Downey, Engineering Manager

### Project Engineers

John James, PE  
Timothy White, PE  
Phil Reed, PE  
Michael Pyles, PE

### CAD Designers

Earl Oldham  
Kevin Garnes  
Bill Gerencir  
Kevin Sarrett

### Engineer Techs

Bruce Frame  
David Wallace  
Jonathan Young  
Jason Hill

The individuals listed above are eager to perform the required services for WVDEP/LCAP. See Project Management Plan for complete list of personnel to be made available for this project.

## Current Work Load

Having recently completed our second large design project for the Tucker County Solid Waste Authority, and with Pine Creek/Omar Landfill Closure under construction, we have capacity and need new landfill design work. TERRADON will successfully complete this project in an efficient and timely manner.

# Evaluation Criteria

## Project Management Plan

### **Jim Downey - Project Manager**

Mr. Downey will be responsible for the overall performance of TERRADON on this project. His primary responsibilities will be contract management, resource management, quality review, cost control, & regulatory compliance.

### **John James, P.E. - Project Engineer**

Mr. James will serve as the lead Project Engineer bringing 40 years of experience in geotechnical engineering and 24 years of experience in landfill design in West Virginia.

### **Bruce Frame - Engineering Technician**

Mr. Frame has over 40 years extensive experience in subsurface investigation and soil material testing.

## Subconsultants

### Geologist, Drilling and Soils Laboratory

TERRADON proposes to use H. C. Nutting for Geologist, Drilling and Soils Laboratory Services. We have a long history of working with H.C. Nutting on such projects. H.C. Nutting also provides services directly to the State of West Virginia on various projects.

### Water Laboratory

TERRADON proposes to use Bio-Chem to test water from the site. We have a long history of using Bio-Chem for similar services. Bio-Chem also provides services directly to the State of West Virginia on various projects.

### Photogrammetric Mapping

TERRADON proposes to use Tuck Mapping Solutions, Inc. to develop mapping from aerial photography. We have used Tuck on recent projects in Tucker County and Raleigh County and have found their services to be accurate and professional.

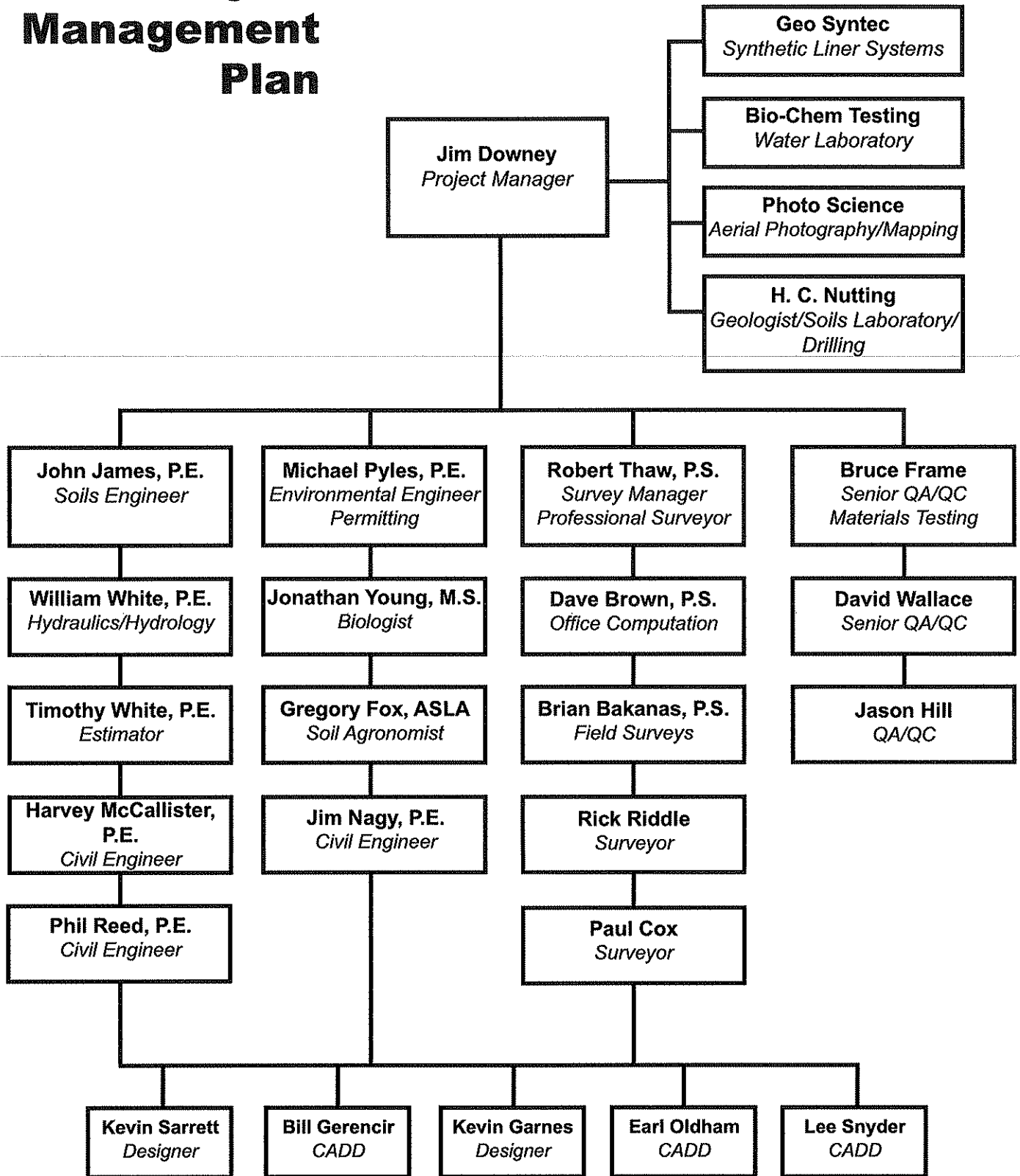
### Geosynthetic Materials

TERRADON proposes to use GeoSyntec Consultants to test and inspect geosynthetic materials. We have a history of working with GeoSyntec and TERRADON was very pleased with their services on a recent liner installation at Tucker County.

## Summary

TERRADON has the technical, managerial and financial resources to complete this project in a timely and cost-effective manner. We would appreciate your consideration to be short-listed so that we may discuss our approach to this project with members of the selection committee.

# Project Management Plan



# Project Experience

## **WVDEP LCAP**

**Pine Creek/Omar, Logan County, West Virginia** - Site characterization, gas collection/venting system, stormwater management, leachate management including storage tank, slope stability regrading, and Subtitle D cap. *West Virginia Division of Environmental Protection, Landfill Closure Assistance Program*

**Montgomery Sanitary Landfill, Fayette and Kanawha Counties, West Virginia** - Site characterization, wastewater collection system to service landfill and local residents, stormwater management, leachate management including storage tank, slope stability regrading, and Subtitle D cap. *West Virginia Division of Environmental Protection, Landfill Closure Assistance Program*

**Wyoming County Sanitary Landfill, Wyoming County, West Virginia** - Site characterization; stormwater management; leachate management including storage tank, pump station and force main to POTW; slope stability regrading; and Subtitle D cap. *West Virginia Division of Environmental Protection, Landfill Closure Assistance Program*

**Jackson County Sanitary Landfill, Jackson County, West Virginia** - Prepared interim closure plan including stormwater management, leachate management, sediment pond and leachate pond repairs, regrading and re-vegetation of disturbed areas. *West Virginia Division of Environmental Protection, Landfill Closure Assistance Program*

**Moundsville Sanitary Landfill, Marshall County, West Virginia** - Prepared interim closure plan including site regrading, stormwater channels, diversion ditch improvements, erosion and sediment control structures, three landslide repairs, underdrains, and revegetation of disturbed areas. *West Virginia Division*

# **Project Experience**

## **Sanitary Landfill Projects**

*of Environmental Protection, Landfill Closure Assistance Program*

**Ham Landfill, Monroe County, West Virginia** - Currently providing site characterization, surveying, mapping, subsurface investigation, groundwater study, monitoring, cell design, major modification to permit, and Certificate of Need application. *H.A.M. Sanitary Landfill, One Bozoo Road, Peterstown, WV 24963*

**Tucker County Landfill, Tucker County, West Virginia** - Performed surveying, mapping, subsurface investigation, groundwater study, monitoring, cell design, and construction observation for the extension of Cell 5. *Tucker County Solid Waste Authority, PO Box 445, Davis, WV 26260, (304) 259-4867*

**Tucker County Landfill, Tucker County, West Virginia** - Performed surveying, mapping, subsurface investigation, groundwater study, monitoring, cell design, major modification to permit, and Certificate of Need application for six acre cell (Cell 6). *Tucker County Solid Waste Authority, PO Box 445, Davis, WV 26260, (304) 259-4867*

**Tucker County Landfill, Tucker County, West Virginia** - Currently performing major modification of permit, new cell design, closure plan, groundwater statistical report, leachate management, QA/QC services, leachate pond repair & upgrade, stormwater ponds, subsurface investigation, and Certificate of Need (CON) application for 20 acre cell (Cell 7). *Tucker County Solid Waste Authority, PO Box 445, Davis, WV 26260, (304) 259-4867*

**Disposal Service, Inc./United Waste Systems, Inc., Putnam County, West Virginia** - Extensive permitting, planning, design, construction management, QA/QC, and construction certification since 1994. Work included two new waste cells, leachate ponds, stormwater ponds, forcemain to POTW, diversion channels, access road relocation, landslide repair, interim cap and other miscellaneous services. *1100 State Route 34 South, Hurricane, WV 25526, (304)562-3262.*

**Pocahontas County Sanitary Landfill, Pocahontas County, West Virginia** - Permitting, QA/QC and construction certification of constructed wetland and leachate storage pond; permitting, planning, design, construction management, QA/QC and construction certification of new composite lined waste cell, closure plan for unlined cell, permitting and installation of monitoring wells, geologic and hydrogeologic investigation, quarterly monitoring well sampling, and other miscellaneous services. *Pocahontas County SWA, 900 10<sup>th</sup> Avenue #C, Marlinton, WV 24954, (304)799-4199.*

**Kanawha Western Sanitary Landfill, Kanawha County, West Virginia** - Design and permitting of landfill closure plan in accordance with Solid Waste Regulations. *Kanawha County SWA, 600 Slack Street, Charleston, WV 25301, (304)342-4477.*

# Project Experience

## Sanitary Landfill Projects (Continued)

**Jackson County Sanitary Landfill, Jackson County, West Virginia** - Design and permitting of landfill closure plan in accordance with Solid Waste Regulations; daily operation of landfill for 1 year contract; leachate and gas management plans; sited and installed groundwater monitoring wells; quarterly monitoring of wells; and general consulting services. *Jackson County SWA, Post Office Box 800, Ripley, WV 25274, (304)372-2011.*

**Pine Creek-Omar Landfill, Logan County, West Virginia** - Design and permitting of landfill closure plan in accordance with Solid Waste Regulations. *Post Office Box 99, Cora, WV 25614, (304)779-3332.*

**Morgan County Sanitary Landfill, Morgan County, West Virginia** - Design and permitting of landfill closure plan in accordance with Solid Waste Regulations. *Morgan County SWA, 401 S. Washington Street, Berkeley Springs, WV 25411, (304)258-8718.*

## Industrial Landfills

**Jarrett Branch Landfill, Elkem Metals Company, Fayette County, West Virginia** - Permitting industrial solid waste landfill and NPDES permit modification. Work included geologic, hydrogeologic and soils investigations, operations manual, QA/QC manual and construction certifications. *Post Office Box 613, Alloy, WV 25002, (304)779-2111.*

**Old FMC Site, COE Inc., Wood County, West Virginia** - Waste characterization, waste extents, site characterization, groundwater monitoring, remediation and closure plan. *400 Market Street, Parkersburg, WV 26101, (304)485-2051.*

**Armour Creek Landfill, Monsanto Chemical Company, Putnam County, West Virginia** - Groundwater monitoring, permit modification, leachate collection, pumping and forcemain, closure plan and repair of existing synthetic cap. *1 Monsanto Road, Nitro, WV 25143, (304)755-4400.*

**BASF Landfill, BASF Corporation, Cabell County, West Virginia** - Install groundwater monitoring wells and quarterly monitoring. *Post Office Box 2166, Huntington, WV 25722, (304)528-2300.*

**Dry Run Landfill, DuPont Corporation, Wood County, West Virginia** - Permitting of solid waste landfill. *Post Office Box 1217, Parkersburg, WV 26102 (304)863-2000.*



# Resume

**JIM DOWNEY**  
Project Manager

TERRADON's Civil Engineering manager is Jim Downey. Mr. Downey has more than 33 years of experience in planning, design, funding, permitting, construction management and operations of wastewater treatment, pumping and collection systems. His current assignments include water pumping, storage and distribution systems, wastewater treatment projects, and several public and private sanitary landfill construction projects.

**Education** A.S. Civil Engineering Technology, 1975, WV Institute of Technology  
B.A. Regents, 2001, West Virginia University Institute of Technology  
17 Post-Graduate Hours in Environmental Engineering, Marshall University School of Graduate Studies

2006 - Present TERRADON Corporation  
1993 - 2006 Charleston Sanitary Board, Operations Manager  
1976 - 1993 Kelley Gidley Blair & Wolfe, Senior Project Manager, and Vice President of Engineering Production

**Affiliations** Water Environment Federation  
West Virginia Environmental Association, State President-Elect

**Key Projects** **Tucker County Landfill**  
Served as Project Manager and assisted with design of a 6 acre landfill cell at Davis, West Virginia. Currently serving as Project Manager for a new 20 acre cell. Also Project Manager for open-end engineering contract for day-to-day needs including surveying, quarterly ground water monitoring.

**Pine Creek/Omar**  
Providing project management for the current construction of a wastewater collection system to service landfill and local residents, stormwater management, leachate management including storage tank, slope stability regrading, and Subtitle D cap.

**City of Montgomery WWTP Upgrade Project**  
Served as Project Manager and primary designer of a new 1.0 meter belt filter press system and building, replacement of the headworks fine screening system, and upgrades to the sludge holding tank.

**Northwest Landfill Leachate Pumping System**  
Designed leachate pumping system to pump leachate from a collection pond to the Parkersburg sanitary sewer. Project included stainless steel pumps, metering, and dual containment force main. (While at KGB&W).

# Resume

**JOHN W. JAMES, P.E.**  
Senior Geotechnical  
Engineer

Senior engineer for various geotechnical, environmental, and mining projects. Prior to joining TERRADON in 2004, Mr. James was the proprietor of JAMES ENGINEERING, a one man consulting engineering company with projects in geotechnical, hydrological, environmental, foundation, structural and general civil engineering, as well as forensic engineering. Mr. James specializes in innovative and cost saving concepts for his projects. Typical projects include numerous foundation investigations, studies and designs for landfills and environmental facilities, surface and ground water studies and remediation, foundation investigations and designs ranging in size from houses to major industrial complexes, roads, highways and bridges, earth and rockfill dams, storm drainage facilities, airport facilities, landslide analysis and correction, and forensic engineering.

**Education** B.S. Civil Engineering, 1968, West Virginia Institute of Technology  
30 Post-Graduate hours in Civil and Environmental Engineering

**Registration** Professional Engineer, West Virginia #6083

**Affiliations** American Society of Civil Engineers  
Past President of Charleston Branch and West Virginia Section  
National and West Virginia Society of Professional Engineers  
Past President (Charleston Chapter)  
Young Engineer of the Year Award (Charleston Chapter)

**Experience** Geotechnical investigation and design of numerous landfills, dams, buildings, water and wastewater treatment plants. Project Engineer for Pine Creek/Omar Landfill Closure, Tucker County Landfill Expansion, and H.A.M. Sanitary Landfill expansion project.

Design and upgrade of water supply dams including Upper & Lower Dog Run water supply dams, Salem, West Virginia; Key Dam, Bluefield, West Virginia; Chatham Lake Dam (irrigation supply), Shady Springs, West Virginia. Involvement with geotechnical aspects included interaction with process and structural aspects and structural design of many components.

**Key Projects** **Pine Creek/Omar, Logan County, West Virginia** - Project Engineer providing design and oversight of site characterization, wastewater collection system to service landfill and local residents, stormwater management, leachate management including storage tank, slope stability regrading, and Subtitle D cap.

**Ham Landfill, Monroe County, West Virginia** - Project Engineer providing design and oversight of site characterization, surveying, mapping, subsurface investigation, groundwater study, monitoring, cell design, major modification to permit, and Certificate of Need application. *H.A.M. Sanitary Landfill, One Bozoo Road, Peterstown, WV 24963*

# Resume

## J. Bruce Frame Construction Inspector

Bruce Frame is TERRADON'S Manager of Construction Inspection and Materials Testing. He has 35 years of experience in materials testing in the Materials Section of the West Virginia Department of Transportation, Division of Highways. Since joining TERRADON in 2000 he has been responsible for material testing and inspection on a wide variety of construction projects.

Notable recent projects include:

Pine Creek/Omar Landfill

Tucker County Landfill

WV Materials Control, Soil and Testing Division

Headquarters

Point Pleasant River Front Park

Upper Kanawha County Community Building

State Route 34 Widening

US 35 - Interstate 64 Interchange

WV Corridor G

WV Corridor H

WV Corridor D

Coalfields Expressway

Merritts Creek Connector

## Certifications

- NICET Level 3 Engineering Technician
- West Virginia Certified Portland Cement Concrete Technician & Insp.
- West Virginia Certified Aggregate Inspector
- West Virginia Certified Hot Mix Asphalt Technician & Inspector
- Fairmont State College Engineering Technician/Technologist Certification, Program #1727 Level III - TET