



**EXPRESSION OF
INTEREST**

**to provide engineering
services to the**

**West Virginia Department
of Environmental
Protection**

for

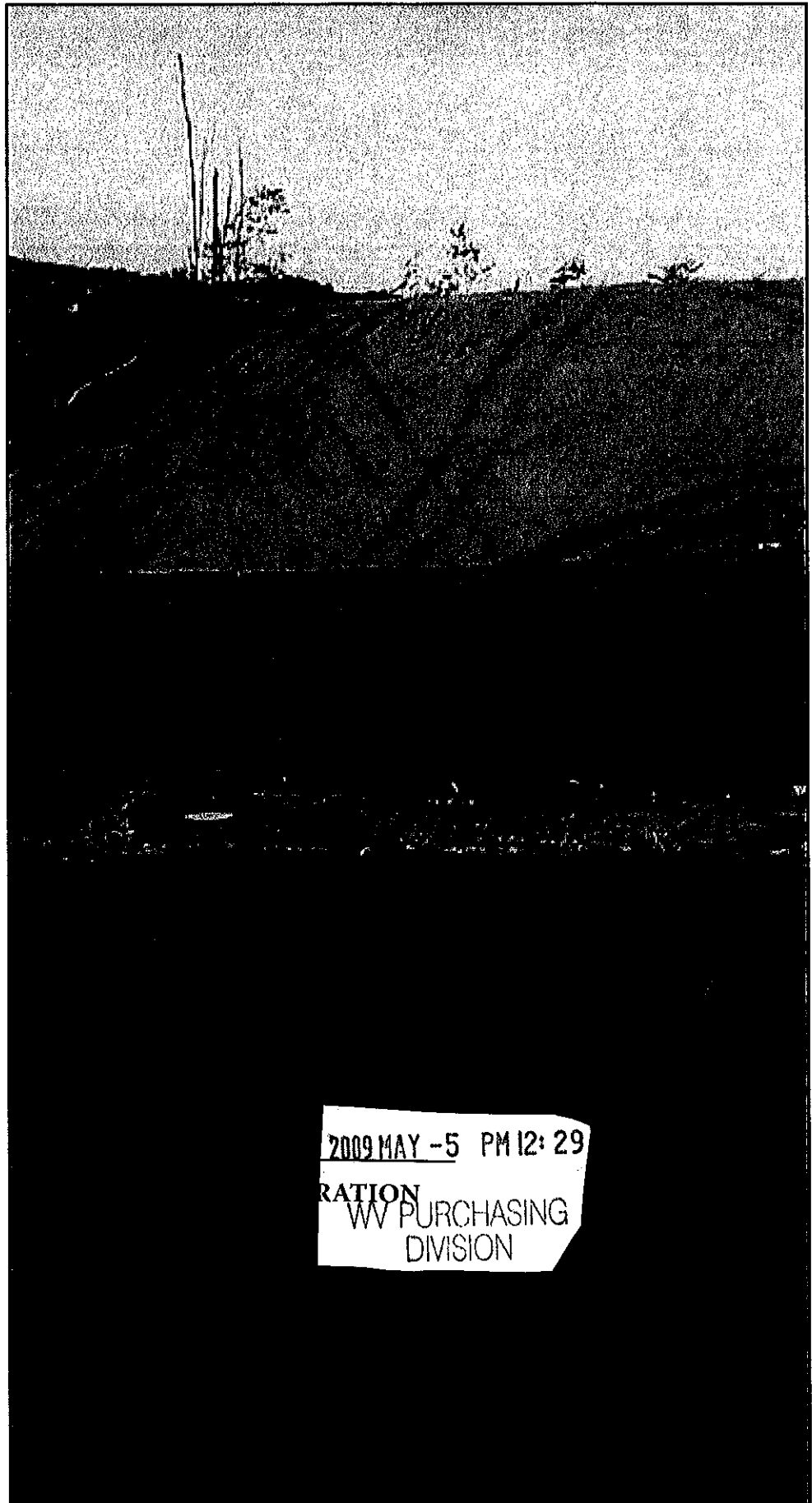
**SOUTH CHARLESTON
LANDFILL CLOSURE
DESIGN & QA/QC
DEP14619**

May 5, 2009

*Tucker County Landfill,
Davis, West Virginia*



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



2009 MAY -5 PM 12: 29
RATION
WV PURCHASING
DIVISION



May 4, 2009

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

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

Re: Expression of Interest DEP14619
South Charleston Landfill Closure Design & QA/QC

Dear Mr. Bowman:

TERRADON Corporation (TERRADON) is pleased to submit this Expression of Interest for the South Charleston 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

Steven T. Engelhardt
Director of Marketing and Personnel



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 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.

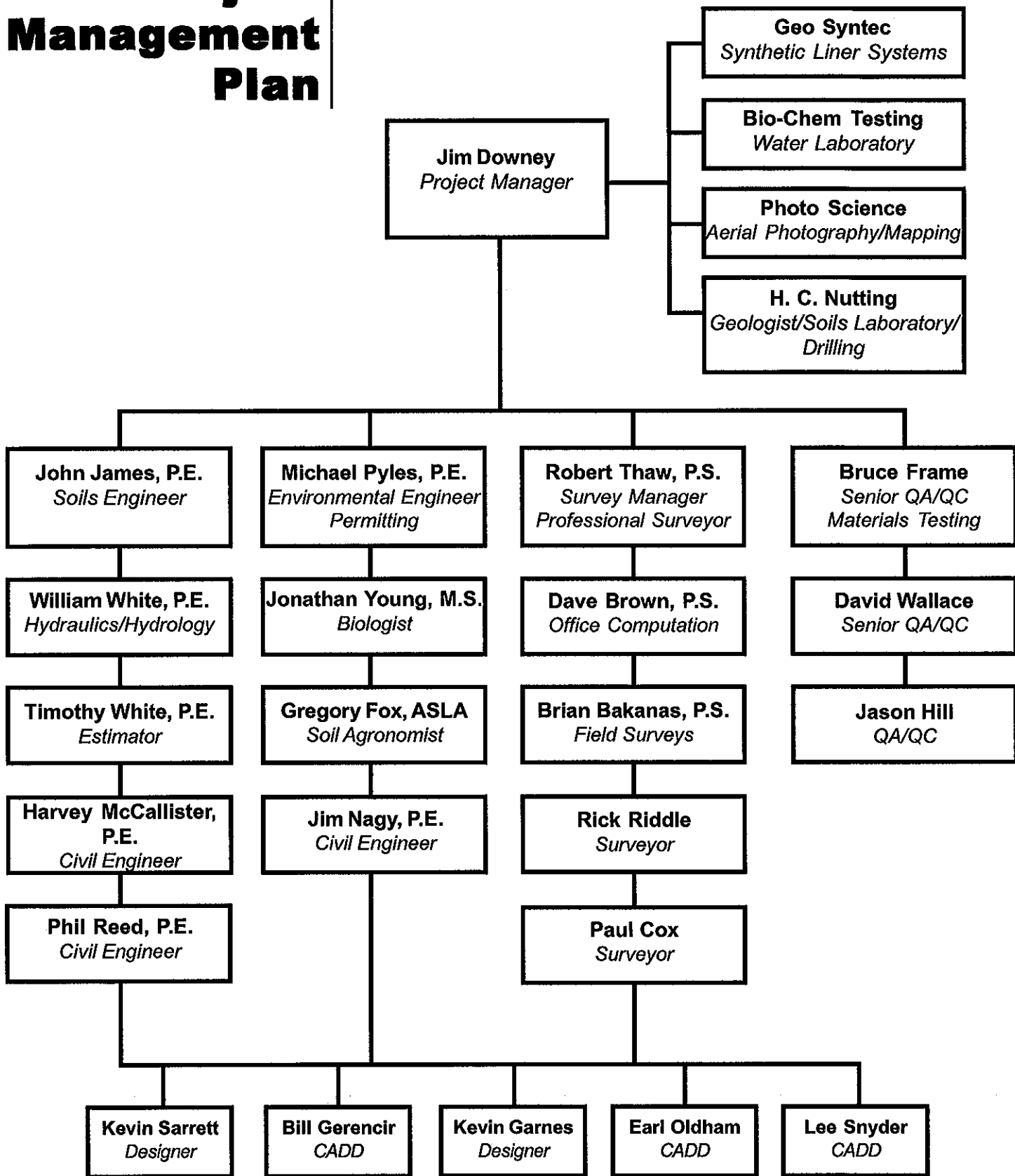
Geosynthetic Materials

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 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*

Project Experience Sanitary Landfill Projects

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 10th 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

Industrial Landfills

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.*

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



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER:
DEP14619

PAGE:
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
**CHUCK BOWMAN
304-558-2157**

RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO

SHIP TO

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF WASTE MANAGEMENT
 601 57TH STREET SE
 CHARLESTON, WV
 25304
 304-926-0499

DATE PRINTED 04/02/2009	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **05/05/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
SOUTH CHARLESTON LANDFILL CLOSURE DESIGN & QA/QC						
EXPRESSION OF INTEREST						
THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR SITE CHARACTERIZATION STUDY, LEACHATE MANAGEMENT & CLOSURE CAP DESIGN, AND QUALITY ASSURANCE/QUALITY CONTROL FOR THE SOUTH CHARLESTON LANDFILL PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.						
BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID AND IS TERMINATED WITHOUT FURTHER ORDER.						
***** THIS IS THE END OF RFQ DEP14619 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 304-755-8293	DATE 4/5/09
TITLE <i>Marketing Director</i>	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

STATE OF WEST VIRGINIA
Purchasing Division

024

PURCHASING AFFIDAVIT**VENDOR OWING A DEBT TO THE STATE:**

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor must make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: TENAGOOD CORPORATION
Authorized Signature: [Signature] Date: 4/5/09

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
LANDFILL CLOSURE CONSULTANT QUALIFICATION QUESTIONNAIRE

EXPERIENCE DATA		DATE (DAY, MONTH, YEAR)		FEIN		
South Charleston Landfill Closure Design & QA/QC (DEP14619)		5, May, 2009		55-0687626		
1. FIRM NAME		2. HOME OFFICE BUSINESS ADDRESS		3. FORMER FIRM NAME		
TERRADON Corporation		401 Jacobson Drive, Poca, WV 25159				
4. HOME OFFICE TELEPHONE		5. ESTABLISHED (YEAR)		6. TYPE OWNERSHIP		
(304)-755-8291		1989		Individual <input checked="" type="checkbox"/> Corporation Partnership <input type="checkbox"/> Joint-Venture <input type="checkbox"/>		
7. PRIMARY OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. LCAP DESIGN PERSONNEL EACH OFFICE						
401 Jacobson Drive, Poca, WV 25159 / (304) 755-8291 / Tom Kittredge, President / 24						
8. NAMES OF PRINCIPAL OFFICIALS OR MEMBERS OF FIRM			8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS			
Tom Kittredge, President			Timothy White, P.E., Principal Engineer			
Virginia L. King, Owner/CEO			(304) 755-8291			
9. NUMBER OF PERSONNEL BY DISCIPLINE (Bold Lettering Indicates Minimum Design Team Members) Detailed Information on Team To Be Included.						
<u>5</u> ADMINISTRATIVE	--	ECOLOGISTS	<u>5</u>	LANDSCAPE ARCHITECTS	<u>1</u>	STRUCTURAL ENGINEERS
-- ARCHITECTS	--	ECONOMISTS	--	MECHANICAL ENGINEERS	<u>10</u>	SURVEYORS
<u>1</u> BIOLOGIST	--	ELECTRICAL ENGINEERS	--	MINING ENGINEERS	--	TRAFFIC ENGINEERS
<u>9</u> CADD OPERATORS	<u>2</u>	ENVIRONMENTALISTS	--	PHOTOGRAMMETRISTS	<u>1</u>	OTHER
-- CHEMICAL ENGINEERS	<u>1</u>	ESTIMATORS	--	PLANNERS: URBAN/REGIONAL		
<u>5</u> CIVIL ENGINEERS	<u>1</u>	GEOLOGISTS	--	SANITARY ENGINEERS		
<u>8</u> CONSTRUCTION INSPECTORS	--	HISTORIANS	<u>1</u>	SOILS ENGINEERS		
<u>1</u> DESIGNERS	<u>1</u>	HYDROLOGISTS	--	SPECIFICATION WRITERS	<u>52</u>	TOTAL PERSONNEL
-- DRAFTSMEN						
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 6						
*RPEs other than Civil must provide supporting documentation that qualifies them to supervise and perform this type of work.						
10. If submittal is by joint venture, list participating firms & outline specific areas of responsibility (including administrative, technical, & financial) for each firm. Each participating firm must complete a "Consultant Confidential Qualification Questionnaire".						
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES NO N/A						

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED:

NAME AND ADDRESS	SPECIALITY	WORKED WITH BEFORE
<p>GeoSyntec 5901 Broken Sound Parkway, NW Suite 300 Boca Raton FL 33487</p>	<p>Synthetic Liner Systems QA/QC</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>Bio-Chem Testing, Inc. PO Box 634 Teays WV 25569</p>	<p>Water Laboratory</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>H.C. Nutting 914 Morris Street Charleston, WV 25301</p>	<p>Geologist, Soils Laboratory and Drilling</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>Tuck Mapping Solutions, Inc. P.O. Box 760 Big Stone Gap, VA 24219</p>	<p>Aerial Photogrammetric Mapping</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>

12. A. Is your firm experienced in Solid Waste Landfill Closure Design?

YES Description and Number of Projects: TERRADON has provided Landfill Closure Design at: Tucker County Landfill, Pocahontas County Sanitary Landfill, Kanawha Western Sanitary Landfill, Jackson County Sanitary Landfill, Old FMC Site in Wood County, Armor Creek Landfill in Putnam County, Pine Creek/Omar Landfill, Moundsville Sanitary Landfill, and Morgan County Sanitary Landfill. 9 Projects

NO

B. Is your firm experienced in Solid Waste landfill site characterization assessment and evaluation?

YES Description and Number of Projects: TERRADON has provided these services at: Pine Creek/Omar Landfill, Montgomery Sanitary Landfill, Wyoming County Sanitary Landfill, and Ham Landfill in Monroe County. 4 Projects in West Virginia

NO

C. Is your firm experienced in landfill closure construction inspection?

YES Description and Number of Projects: TERRADON recently provided these services at Tucker County Landfill and is currently providing these services at Pine Creek/Omar Landfill in Logan County. TERRADON has provided these services on 9 projects

NO

D. Is your firm experienced in Aerial Photography and the development of Contour Mapping?

YES Description and Number of Projects: 100+ We set the field control and use a sub to fly it. We prepare contour maps on a daily basis.

NO

E. Is your firm experienced in evaluating ground water contamination, such as may be associated with landfills?

YES Description and Number of Projects: TERRADON is experienced in evaluating ground water contamination associated with Landfills. We are currently providing a groundwater study at Ham Landfill in Monroe County and monitoring groundwater at Pine Creek/Omar Landfill in Logan County. TERRADON had provided these services on 9 projects

NO

F. Is your firm experienced in Landfill Closure cost estimating?

YES Description and Number of Projects: TERRADON has provided Landfill Closure cost estimating at: Tucker County Landfill, Pocahontas County Sanitary Landfill, Kanawha Western Sanitary Landfill, Jackson County Sanitary Landfill, Old FMC Site in Wood County, Armor Creek Landfill in Putnam County, Pine Creek/Omar Landfill, Moundsville Sanitary Landfill, and Morgan County Sanitary Landfill. 9 Projects

NO

<p>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (describe project) (Furnish Complete data but keep to essentials)</p>		
<p>NAME & TITLE (Last, first, Middle Int.)</p> <p>James, John, W, PE Soils/Geotechnical Engineer</p>		
<p>YEARS OF (type) EXPERIENCE: 24 Landfill</p>	<p>YEARS OF (type) EXPERIENCE: 40 Geotechnical</p>	<p>YEARS OF (name type) EXPERIENCE:</p>
<p>Brief Explanation of Responsibilities: Senior Engineer responsible for subsurface and field investigation; design engineering; specification writing; engineer's cost estimate; prebid and preconstruction meetings; construction management/certifications; and QA/QC oversight.</p>		
<p>EDUCATION (DEGREE, YEAR, SPECIALIZATION)</p> <p>B.S., 1968, Civil Engineering</p>		
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS: American Society of Civil Engineers (Past President, WV Section)</p>		<p>REGISTRATION (Type, Year, State) PE, 1973, West Virginia</p>
<p>13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)</p>		
<p>NAME & TITLE (Last, First, Middle Int.)</p> <p>Jim Downey, Project Manager</p>		
<p>YEARS OF EXPERIENCE (name type): 4 Landfills</p>	<p>YEARS OF EXPERIENCE (name type): 33 Civil Project Manager</p>	<p>YEARS OF EXPERIENCE (name type):</p>
<p>Brief Explanation of Responsibilities: Mr. Downey will be responsible for Project Management, Resource Management, Cost, Budget, and Schedule Management, Regulatory Compliance, and Construction Estimating.</p>		
<p>EDUCATION (Degree, Year, Specialization) A.S., 1975, Civil Engineering Technology, B.A., 2001, Regents</p>		
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Water Environment Federation & West Virginia Environmental Association</p>		<p>REGISTRATION (Type, Year, State)</p>

13b. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE QA/QC (Furnish complete data but keep to essentials)		
NAME & TITLE (last, first, middle Int.) Frame, Bruce Testing & Inspection Manager	YEARS OF EXPERIENCE (name type): 2 Landfill	YEARS OF EXPERIENCE (name type): 37 Materials Testing
Brief Explanation of Responsibilities: Responsible for Materials Testing QA/QC		
EDUCATION (Degree, Year, Specialization)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		
13c. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR HEAVY EARTH WORK CONSTRUCTION PROJECTS (Furnish complete data but keep to essentials)		
NAME & TITLE (last, first, middle Int.) White, Timothy T, PE	YEARS OF EXPERIENCE (name type): 16 Civil Engineering	YEARS OF EXPERIENCE (name type)
Brief Explanation of Responsibilities Engineering Support, Peer Review, Construction Cost Estimate		
EDUCATION (Degree, Year, Specialization) B.S., 1992, Civil Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Chi Epsilon, American Council of Engineering Companies		
REGISTRATION (Type, Year, State) PE, 1999, West Virginia		

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE THIS PROJECT.

Software

Autodesk Civil 3D 2010

SedCad 4 - Erosion Control and Hydrology Software

HELP

DUMPStat

Haested Method Flowmaster Software for Channel Design

Haested Methods – Water CADD (Pipe Network Analysis)

Slope Stability -

PC Stable

REAME

SBSLOPE

WinStable and WinStable 2003

Piling Walls, Anchors and Reinforced Earth Walls -

Lpile

HeliCAP

Anchor 400

KeyWall 2004

TR 55, TR 20, TR 66 (Sites) - Hydrology

Hec-1, Hec HMS 2.22, Hec R As 3.1.2 – Hydrology

LC 58 + RP 61 – Structural (wall)

Microstation V8

Surveying Equipment

Trimble 4700 modular, RTK Global Positioning Total Station

Trimble Geomatics Office Software

Topcon Total Stations (3)

SMI Data Collectors (3)

Printing/Plotting/Reproduction

HP DesignJet 1050C Plotter

HP DesignJet 759C Plotter

HP LaserJet 8000 Printer (2)

HP Color LaserJet 3700

Sharp AR-550 Copier/Printer (2)

Sharp AR-C150 Full Color Copier/Printer

Océ 7056 Engineering Size Copier

15. CURRENT ACTIVITIES ON WHICH YOU ARE THE DESIGNATED ENGINEER OF RECORD ASSOCIATED WITH OR RELATING TO LANDFILL CLOSURE OR CONSTRUCTION.

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRMS RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Pine Creek/Omar Landfill Closure (DEP13197), Logan County, West Virginia	West Virginia DEP LCAP Program Charleston, WV	Engineer of Record for Construction Documents, Q/A and Q/C	\$5,000,000	99%
H.A.M. Sanitary Landfill, Preliminary Design, Certificate of Need for Major Expansion, Monroe County, West Virginia	H.A.M. Sanitary Landfill One Bozoo Road Peterstown, WV 24963	Prime Consultant	\$20,000,000	30%
Total Number of Projects: 2		Total Estimated Construction Costs:	\$25,000,000	

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD (LIST 5 TO 7)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Tucker County Landfill Permit Renewal, Major Modification, New Cell Design, Closure Plan, Groundwater Statistical Report, Leachate Management, QA/QC Services Davis, WV	Tucker County Solid Waste Authority PO Box 58 Thomas WV 26292	\$2,000,000	2007	YES
US 35 Value Engineering, Ramp 1, WV 34 Interchange Putnam County, West Virginia	WV DOT Building 5, Room A-110 1900 Kanawha Blvd. East Charleston WV 25305	Saving \$3,000,000	2007	Yes
Sedalia Arch Bridge, Bridge Replacement Sedalia, West Virginia	WV DOT Building 5, Room A-110 1900 Kanawha Blvd. East Charleston WV 25305	\$890,000	2006	Yes
Hinton Landslide, Landslide Reclamation Hinton, West Virginia	WV DOT, Division of Highways Building 5, Room A-110 1900 Kanawha Boulevard East Charleston, WV 25305	\$1,000,000	2006	Yes
Tucker County Landfill Expansion Design of Cell 6 Thomas, West Virginia	Tucker County Solid Waste Authority PO Box 58 Thomas WV 26292	\$2,500,000	2007	Yes
Montgomery Wastewater Treatment Plant Upgrade, Design Montgomery, West Virginia	City of Montgomery 706 3 rd Avenue Montgomery WV 25136	\$2,800,000	2009	Under Const.
Jenkin Jones Refuse Piles Mine Reclamation McDowell County, West Virginia	WVDEP/AML&R 601 57 th Street SE Charleston WV 25304	\$4,000,000	2005	Yes

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM AS RESPONSIBLE) LIST 5 TO 7.

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Fairmont State University Campus Improvements Fairmont, West Virginia	Fairmont State University 1201 Locust Avenue Fairmont, WV 26554	\$1,000,000	2007	Yes	Omni Associates
WVDEP Headquarters Building, Site/Civil, Survey Kanawha County, WV	WVDEP 601 57 th Street SE Charleston WV 25304	\$30,000,00.00	2005	Yes	BBL-Carlton
Marshall University, Health & Wellness Center, Dormitories Huntington, WV	Marshall University Facilities Planning & Management, Huntington, WV	\$27,000,000	2009	Yes	Capstone Development
Fairmont Middle School Civil, Site Design Fairmont, WV	Marion Co. BOE 200 Gaston Avenue Fairmont WV 26554	\$1,600,000	2004	Yes	Omni Associates
Kanawha Co. 911 Civil, Site Design Kanawha Co., WV	Kanawha County Commission 407 Virginia Street E Charleston WV 25301	\$800,000	2004	Yes	Kreps & Kreps
Mountain State University Health Science Building Civil/Site/Surveying Beckley, WV	Mountain State University PO Box 9003 Beckley, WV 25802-9003	\$1,500,000	2007	Yes	Dan Sneed Architects
WVU Recreation Center Master Plan Morgantown, WV	West Virginia University	\$2,000,000	2006	No	Omni Associates
Doddridge County High School Doddridge County, West Virginia	Doddridge County BOE 104 Sistersville Pike West Union, WV 26456	\$1,500,000	2006	Yes	Williamson Shriver Architects

Understanding of Scope

TERRADON is uniquely qualified to provide a Site Characterization Study, Leachate Management, Closure Cap Design and QA/QC control for the South Charleston Landfill. We have a very good understanding of the scope of work, the issues involved with this type of work and have a unique understanding of the potential problems that may arise.

Focus on Outcomes

TERRADON is focused on the outcomes that are important to LCAP. We understand that LCAP wants a site characterization and design that meets the intent of the solid waste regulations of the State; has been designed for ease of constructability; has been value-engineered; is well defined by plans and specifications that result in good competitive bids and minimal change orders.

Our QA/QC technician, with 20 years of experience, will serve as a full-time resident project representative to ensure that the work is performed in conformance with construction drawings, specifications and other contract documents; be the liaison between the Owner, Contractor and Engineer; document progress and performance; maintain records; report occurrences regarding health and safety and environmental conditions; make measurements for payment; prepare as-built drawings; and prepare documentation for Registered Professional Engineer certification.

Why TERRADON?

1. Senior Personnel

Jim Downey, Engineering Manager	33 Years
John James, P.E., Soils/Geotechnical Engineer	40 years
Bruce Frame, Materials Testing QA/QC	40 years

2. Subconsultants

TERRADON has selected subconsultants that are leaders in the industry and bring superior qualifications and experience to LCAP.

Continued on next page.

3. Current Work Load/Staff Availability

The personnel identified in the attached management plan for this project are available to begin work immediately and can complete the work in the time allotted.

4. History/Reputation

TERRADON has a history of working for LCAP, public and private landfills and other state agencies. We have a reputation for preparing designs, plans, specifications and bid documents that are constructible, that have been value-engineered and result in low bids, minimal change orders, and have stood the test of time by performing as intended.

20. The foregoing is a statement of facts.

Signature: _____



Title: **Director of Marketing**

Date: **May 5, 2009**

Printed Name: **Steven T. Engelhardt**

NOTE: THIS DOCUMENT WILL BECOME VOID AFTER DECEMBER 31 IN CALENDAR YEAR OF DATE HEREON.