



GSA ADVANTAGE ENVIRONMENTAL QUALIFICATIONS

**Providing Practical Experience,
Technical Excellence and
Client Responsiveness**

GSA ADVANTAGE ENVIRONMENTAL SERVICES STATEMENT OF QUALIFICATIONS

**GSA #: GS 10F 0227S
CAGE #: 1B2E8
DUNS #: 054168372
SIN 899-1, 899-2, 899-4**



**PREPARED BY:
THE MANNIK & SMITH GROUP, INC.
1800 INDIAN WOOD CIRCLE
MAUMEE, OHIO 43537**



Mannik & Smith
The Group, Inc.

Civil Engineering, Surveying & Environmental Consulting
Toledo ♦ Canton ♦ Detroit ♦ Lansing ♦ Monroe
www.manniksmithgroup.com

GSA Schedule
GSA# GS 10F 0227S

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GSA CONTRACT & CONTACT INFORMATION



Contract Number: GS 10F 0227S

Contract Period:

April 14, 2006 through April 13, 2011

The Mannik & Smith Group, Inc.

Corporate Headquarters:

1800 Indian Wood Circle
Maumee, Ohio 43537
(p) 419-891-2222
(f) 419-891-1595
www.manniksmithgroup.com



CLIENT INFORMATION

Client Information for Ordering Activities

GSA Schedule Contract Number: GS-10F-0227S

Federal Supply Service

Authorized Federal Supply Schedule Pricelist

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order is available through **GSA Advantage!**, a menu-driven database system.

The INTERNET address for **GSA Advantage!** is <http://www.gsa.gov>.

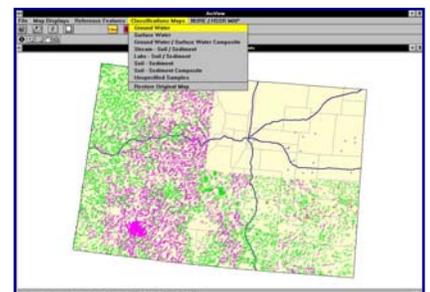
Industrial Group: 899

Industrial Class: 8999

Business Size: Large

- 1a Special Item Numbers (SINs):
 - 899-1 Environmental Planning Services & Documentation
 - 899-2 Environmental Compliance Services
 - 899-4 Waste Management Services
- 1b Pricing for Services: See Rate Table inside this brochure
- 2 Maximum Order: \$5,000,000.00
- 3 Minimum Order: \$100
- 4 Geographic Coverage: Domestic
- 5 Point(s) of Production: Same as company address
- 6 Discount from List Prices or Statement of Net Price:
Prices shown herein are net prices
- 7 Quantity Discounts: N/A
- 8 Prompt Payment Terms: 5% - 10 days, Net - 30 days
- 9 Government Commercial Credit Card: Yes
- 10 Foreign Items: None
- 11 Time of Delivery: Specified on the task order
- 12 F.O.B. Point(s): Destination
- 13a Ordering Address:

The Mannik & Smith Group, Inc.
Corporate Headquarters
1800 Indian Wood Circle



Maumee, Ohio 43537
(p) 419-891-2222
(f) 419-891-1595

Attention: Richard F. Bertz, P.E., P.S., Sr. VP
Contracting Officer
rbertz@manniksmithgroup.com

Todd R. Dickerson
Marketing Point of Contact
tdickerson@manniksmithgroup.com



- 13b BPA Ordering Procedures: The ordering procedures, information on Blanket Purchase Agreements, and a sample BPA can be found at the GSA/FSS Schedule homepage (fss.gsa.gov/schedules).
- 14 Payment address: The Mannik & Smith Group, Inc.
1800 Indian Wood Circle
Maumee, Ohio 43537
- 15 Warranty Provisions: Contractor's Standard Commercial Warranty
- 16 Export Packing Charges: N/A
- 17 Terms & Conditions of Government Commercial Credit Card: Contact Contractor
- 18 Terms & Conditions of Rental, Maintenance and Repair: N/A
- 19 Terms & Conditions of Installation: N/A
- 20 Terms & Conditions of Repair Parts: N/A
- 20a Terms & Conditions for any Other Services: N/A
- 21 List of Service & Distribution Points: N/A
- 22 List of Participating Dealers: N/A
- 23 Preventative Maintenance: N/A
- 24a Special Attributes, such as Environmental Attributes: N/A
- 24b Section 508 Compliance Information: N/A
- 25 DUNS number: 054168372
- 26 Central Contractor Registration (CCR): The Mannik & Smith Group, Inc. is registered in the CCR database



COMPANY LABOR RATES

The Mannik & Smith Group, Inc. Labor Rates

The government hourly rates (billable rates) for SINs 899-1, 899-2 and 899-4 are listed below by labor category and pertaining contract period.

Contract Base Period: April 14, 2006 through April 13, 2011

Commercial Labor Categories	First Year Base Price
Administrative Assistant	\$ 37.00
CR Specialist I	\$39.00
CR Specialist II	\$46.00
CR Specialist III	\$58.00
CR Specialist IV	\$68.00
CR Specialist VI	\$106.00
Engineer I	\$ 61.00
Engineer II	\$ 70.00
Engineer III	\$ 84.00
Engineer IV	\$ 93.00
Environmental Scientist I	\$ 46.00
Environmental Scientist II	\$ 61.00
Environmental Scientist III	\$ 70.00
Environmental Scientist IV	\$ 84.00
Environmental Scientist V	\$ 93.00
Environmental Scientist VI	\$ 107.00
GIS Specialist	\$ 63.00
Planner V	\$ 80.00
Principal	\$ 130.00
Project Manager	\$ 107.00
Technician I	\$ 38.00
Technician II	\$ 46.00
Technician III	\$ 54.00
Technician IV	\$ 63.00
Survey Crew	\$ 129.00



COMPANY HISTORY & SERVICE PROFILE

Company History & Service Profile

Originating in 1955 as the T.C. Biebesheimer Engineering Company, the firm later evolved into Mannik & Smith, Inc., focusing mainly on highway and bridge design. In the 1980's, the company added environmental services to compliment its civil engineering capabilities and created Midwest Environmental Consultants. The two companies merged in 2000, and now operate solely as The Mannik & Smith Group, Inc. (MSG).

Today with over 200 employees, MSG provides engineering consulting services from its offices in Maumee, Ohio and Canton, Lansing and Monroe, Michigan. The company's core service areas include civil and geotechnical engineering, environmental services, surveying and construction support. We have the ability to handle your basic needs, as well as your most complex projects.

Our GSA Schedule only includes SIN 899-1, SIN 899-2 and SIN 899-4, however as a company our multi-discipline service portfolio includes:

Civil Engineering

Transportation

- ◆ Roadway/Highway Design
- ◆ Bridge Design & Inspection
- ◆ Highway Lighting Design
- ◆ Traffic Planning & Engineering
- ◆ EA/EIS Corridor Planning
- ◆ Context Sensitive Solutions

Site Development

- ◆ Industrial, Commercial & Residential Site Design
- ◆ Site Planning – Concept & Feasibility Studies
- ◆ Permitting & Zoning Assistance
- ◆ Landscape Architecture

Utility Design

- ◆ Storm, Sanitary & Water System Design
- ◆ Pump Station Design
- ◆ GIS Mapping

Right of Way Acquisition

- ◆ Real Estate Research
- ◆ Negotiations
- ◆ Appraisals
- ◆ Relocation Assistance

Surveying Services

- ◆ Property Surveys - ALTA
- ◆ Construction Layout & Staking
- ◆ Topographic Surveys

Environmental Consulting

Environmental Engineering Services

- ◆ Environmental Site Assessments
- ◆ Permitting & Compliance
- ◆ Remediation
- ◆ Brownfield Redevelopment
- ◆ Waste Management / Landfills
- ◆ Environmental Health & Safety Studies

Cultural Resources

- ◆ Archaeological Surveys & Mitigation
- ◆ Historic Resource Assessment & Compliance

Ecological Resources

- ◆ Wetland Delineation/Permitting/Mitigation
- ◆ Threatened & Endangered Species Surveys
- ◆ Ecological Assessments
- ◆ Botanical Surveys

Geotechnical Engineering

- ◆ Geotechnical Investigation & Testing
- ◆ Geotechnical Analysis & Recommendations
- ◆ Hydrogeological Studies

Construction Support

- ◆ Construction Mgmt. & Inspection
- ◆ Laboratory Testing
- ◆ Field Construction Materials Testing



**CIVIL
ENGINEERING**

**ENVIRONMENTAL
ENGINEERING**

**GEOTECHNICAL
ENGINEERING**

**CONSTRUCTION
SUPPORT**

SURVEYING

SIN 899-1

Environmental Planning Services & Documentation

- Environmental Assessments
- Environmental Impact Statements
- NEPA Compliance
- Threatened & Endangered Species Surveys
- Wetland Services
- Watershed & Natural Resource Management Plans
- Archaeological & Cultural Resource Management Plans
- Environmental Program Management
- Environmental Regulation Development
- Economic, Technical & Risk Analysis
- Environmental Studies & Consultations

Service Descriptions:

Environmental Site Investigation Services

Rapid growth of environmental cleanup and hazardous material management regulation has turned many commonly accepted business practices of the not-too-distant past into today's high priority environmental problems. Such problems translate directly into risk of uncontrolled contamination, high cleanup costs, or penalties for non-compliance in the risky worlds of commerce, industry, and government.

As a full-service engineering and science firm, MSG offers a multidiscipline staff experienced in project planning and implementation to produce quality investigations and environmental solutions for clients. Well-trained in the interpretation and implementation of environmental regulations, MSG's studies and remedial action programs are designed to assist clients in working with lenders, insurance companies and regulatory agencies to arrive at effective solutions.

Service Profile:

- ◆ Phase I, II, & III Environmental Site Investigations
- ◆ Baseline Environmental Assessments
- ◆ UST-Related Investigations
- ◆ Remedial Investigations/ Feasibility Studies
- ◆ Treatability Studies
- ◆ Hazardous Material Surveys
- ◆ Hydrogeological Investigations
- ◆ Geophysical Investigations
- ◆ Brownfield – VAP Procedures
- ◆ Soil, Groundwater, Surface Water, Sediment & Environmental Air Sampling & Monitoring Programs
- ◆ Explosive Gas Monitoring



- ◆ Asbestos/ PCB Sampling
- ◆ Soil Gas Surveying
- ◆ Field Gas Chromatography Biomonitoring
- ◆ Environmental Fate/ Transport Modeling
- ◆ Human Health & Ecological Risk Assessment
- ◆ Toxicity Evaluation

Ecological Services

MSG offers ecological services in support construction projects, site remediation investigations and water quality protection projects and studies. With its multidisciplinary staff, MSG offers the best blend of biology and engineering to produce quality studies, permit applications and designs and functional remedial and constructed wetlands.

Service Profile:

- ◆ Biotoxicity Evaluation
- ◆ Constructed Wetlands for Water Quality Enhancement
- ◆ Faunal Surveying
- ◆ Fish Sampling/ Identification/ Classification
- ◆ GIS-Based Natural Resource Inventories
- ◆ Hydrogeological Investigation
- ◆ Level 2 & 3 Ecological Assessment
- ◆ Macroinvertebrate Sampling/ Identification/ Classification
- ◆ NPDES Water Quality Monitoring/Biomonitoring
- ◆ Periphyton Colonization Studies
- ◆ Section 404/Michigan Act 203 Permit Preparation
- ◆ Soil Sampling/Classification
- ◆ Threatened/Endangered Species Surveys
- ◆ Vegetation Sampling/ Identification/ Classification
- ◆ Water Quality Testing – Physical & Chemical Parameters
- ◆ Wetlands Assessment, Determination, Delineation & Mitigation
- ◆ Wetlands Design, Planning, CQA & Monitoring
- ◆ Wetlands Functional Assessment

MSG is very experienced with projects involving major highway corridors, U.S. Army Corps permits, environmentally sensitive areas and large developments. Our highly respected staff has successfully assisted clients with wetland issues that could have jeopardized major developments. Our professionals are the people you want for your wetland concerns.

Cultural Resource Services

MSG offers cultural resource services designed to help clients who are planning projects involving federal assistance, licenses or permits to comply with the requirements of the National Historic Preservation Act of 1966.



Appropriate planning not only demonstrates a commitment to responsible management of nonrenewable archaeological resources, but can also avoid costly project delays. As an experienced consultant, MSG can assist clients in identifying significant sites affected by the project, lead the client through the review process, and where potential adverse impacts are identified negotiate a solution which achieves public and agency approval and successful completion of the project.

MSG has been providing expert cultural resource services to both private and public sector clients since the early 1990s. Our Specialists are very knowledgeable about current regulations, procedures and policies. We understand the federal and state cultural resource laws and regulations that impact a project, especially those projects receiving government permitting, funding, or other assistance. We are experienced with getting our clients' projects through the regulatory procedures. MSG's professionals are qualified to work with clients and regulators to identify, describe and evaluate the significance of archaeological sites and buildings and structures. MSG's cultural resource experts have a long and distinguished record of successful projects that addressed all aspects of a project, from initial agency negotiations through identification and assessment to mitigation and final agency coordination.

MSG has completed hundreds of projects throughout Ohio, Michigan, and Indiana. Our clients have even requested our services in Illinois, Idaho, Missouri, New Jersey and Massachusetts. Our cultural resource staff has completed studies ranging from small-scale projects, such as survey evaluation of a single parcel of land or building, to large complex multi-faceted projects, such as transportation corridor studies and cultural landscape evaluations with hundreds of sites and buildings. The following two sections discuss services related to archaeology and historic preservation.

Archaeological Services

With the talents of recognized archaeologists, a trained and experienced field staff and excellent support services, MSG is uniquely positioned to provide comprehensive and cost-effective archaeological services.

Service Profile:

- ◆ Section 106 Consultation & Compliance
- ◆ Phase I Reconnaissance Surveys
- ◆ Phase II Site Evaluation
- ◆ Phase III Data Recovery/Mitigation
- ◆ Regulatory Agency Consultation
- ◆ Artifact Analysis
- ◆ Floral, Faunal, Osteological Analysis
- ◆ Paleoenvironmental Reconstruction
- ◆ Significance Assessment
- ◆ Adverse Impact Mitigation Planning
- ◆ Records/Document Research
- ◆ Informant Interviews
- ◆ Predictive Modeling



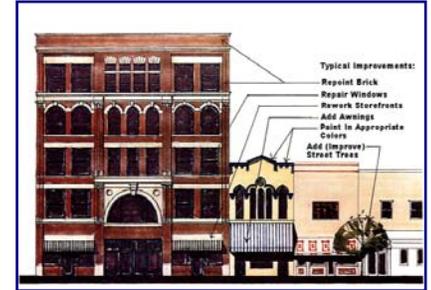
- ◆ Remote Sensing Interpretation
- ◆ GIS, GPS & Computer Mapping
- ◆ Federal/State Register Nominations

Historical Architecture Services

With the talents of recognized architectural historians, preservation planners, a trained and experienced field staff, and excellent support services, MSG is uniquely positioned to provide comprehensive and cost-effective historic architecture services.

Service Profile:

- ◆ Section 106 Consultation & Compliance
- ◆ National Register of Historic Places Nominations
- ◆ HABS/HAER Recordation
- ◆ Federal/State Historic Preservation Tax Act Application
- ◆ Cultural Resource Management Plans
- ◆ Cultural Landscape Evaluations
- ◆ State Register Nominations
- ◆ Reconnaissance Surveys
- ◆ Historical Significance Evaluations
- ◆ Site Mitigation
- ◆ Adverse Impact Mitigation Planning
- ◆ Regulatory Agency Consultation
- ◆ Records/Document Research
- ◆ Informant Interviews
- ◆ GIS, GPS & Computer Mapping



Environmental Planning & Documentation Project Experience:

US Route 24 "Fort to Port" - Environmental Services

Ohio Department of Transportation (ODOT)
Fort Wayne, Indiana to Toledo, Ohio

Services Provided

- Phase I & Phase II Site Assessments
- Wetland & Ecological Studies
- Threatened & Endangered Species Surveys
- Environmental Mitigation, Permitting & Design
- Archaeological Study & Recordation
- Historical Architecture Study & Recordation
- Section 106/4(f) Documentation & Coordination Activities

Completion Date

On-Going

Budget

\$1.3 Million



600 Bassett Street - Environmental Site Assessment

City of Toledo
Toledo, Ohio

Services Provided

Pre-Acquisition Assessment of Property
Phase I & II Property Assessments
Site-Specific Background Determination for Arsenic
Surveyed Property Boundary & Summarized Findings
Worked w/Local Municipality & School Board to Redevelop the Property

Completion Date

December 2004

Budget

\$32,000



Selfridge Air National Guard Base - CR Regulatory Compliance

MWH Americas, Inc.
Macomb County, Michigan

Services Provided

Sections 106 and 110 Compliance Implementation
Cultural Resource Reconnaissance and Evaluation
Federal and State Regulatory Agency Consultation
Historic American Engineering Record Documentation
Section 106 and Cultural Resource Training Program

Completion Date

November 2003

Budget

\$21,500



Camp Grayling Army National Guard Base – Archaeological Investigation

Huron Pines Resource Conservation and Development Council
Grayling, Michigan

Services Provided

Phase I Reconnaissance
Informant Interviews
Predictive Modeling
Artifact Analysis

Completion Date

April 2003

Budget

\$135,000



County Road 134 Bridge Replacement – Archaeological Data Recovery
Fort Defiance Construction & Supply, Inc.
Defiance County, Ohio

Services Provided

Phase III Data Recovery
Artifact Analysis
Floral, Faunal Analysis
Informant Interviews
Report of Investigations

Completion Date

May 2004

Budget

\$85,500



M-64 Bridge Realignment – Archaeological Data Recovery

Michigan Department of Transportation (MDOT)
Ontonagon County, Michigan

Services Provided

Phase III Data Recovery
Archival Research
Artifact Analysis

Completion Date

March 2004

Budget

\$61,944



Reservoir Shoreline - Archaeological Survey

Consumers Energy
Muskegon, Manistee & Au Sable Rivers in Michigan

Services Provided

Section 106 Compliance
Reconnaissance Surveys
Significance Evaluations
GIS, GPS Computer Mapping

Completion Date

June 2004

Budget

\$48,741



Muskegon River - Phase II Archaeological Surveys

Consumers Energy
Mecosta & Newaygo Counties, Michigan

Services Provided

Section 106 Compliance
Phase II Site Evaluation
GIS, GPS Computer Mapping

Completion Date

June 2004

Budget

\$54,330



Ravenna Training & Logistics Site – Archaeological Surveys

MWH Americas, Inc.
Portage & Trumbull Counties, Ohio

Services Provided

Archival Research
Predictive Modeling
Phase I Reconnaissance Survey
Phase II Evaluative Testing
Artifact Analysis
Significance Evaluation/Report

Completion Date

February 2005

Budget

\$142,734



Camp Perry – HABS Recordation

Adjutant General's Department, State of Ohio
Port Clinton, Ohio

Services Provided

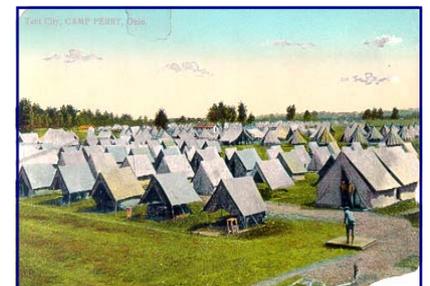
Historic Documentation
Large-Format Photo Recordation
Products conform to HABS Standards

Completion Date

May 2001

Budget

\$7,330



U.S. Coast Guard Air Station Borinquen – Historic Architecture Survey

MWH Americas Inc. & US Coast Guard
Aguadilla, Puerto Rico

Services Provided

Reconnaissance Survey
Architectural Documentation & Significance Evaluations
Bilingual (English-Spanish) Deliverables

Completion Date

April 2004

Budget

\$46,923



Thematic Survey of Early Automotive History

City of Lansing - Department of Planning & Neighborhood Development
Lansing, Michigan

Services Provided

Reconnaissance & Intensive Level Survey
Research & Documentation
Thematic Context Development
National Register Significance Evaluation

Completion Date

May 2003

Budget

\$24,000



SIN 899-2

Environmental Compliance Services

- Environmental Compliance Audits
- Compliance Management & Contingency Planning
- Permitting
- Spill Prevention Control & Countermeasure Plans
- Pollution Prevention Surveys
- ISO 14000/Environmental Management Systems (EMS)
- Community Right-to-Know Act Reporting

Service Descriptions:

Environmental Compliance Services

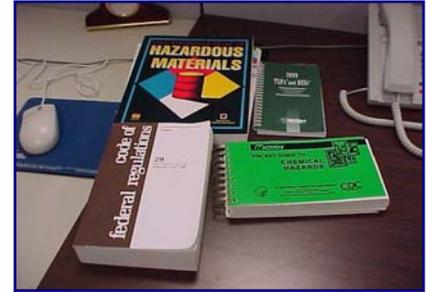
MSG is a highly qualified and knowledgeable civil engineering, environmental science and cultural resource firm with over 200 professionals with expertise in almost every regulatory discipline including air, water, waste, hazardous materials, storm water, wetlands, endangered species, historical architecture, OSHA and others.

MSG's compliance specialists routinely work with the regulatory agencies and have developed a sound understanding of what the agencies require. Because of this relationship, MSG's projects are less likely to have deficiencies or be classified as incomplete. In fact, some of our professionals are former agency personnel. MSG employees are experienced and knowledgeable with federal, state and local regulations, and requirements. With years of technical and practical experience, MSG personnel is skilled at developing compliance documents, required record keeping and monitoring reports, providing required training and safety services, conducting inspections and audits, determining compliance schedules/tasks and technical support for negotiations with regulators.

MSG assists clients with all phases of regulatory and/or enforcement requirements from permitting and compliance to remediation, if necessary. MSG's experience and practical approach to problem solving saves our clients time, frustration and money.

National Pollutant Discharge Elimination System (NPDES)

MSG is a qualified civil and environmental engineering and science firm that has extensive knowledge and experience with the requirements of the Clean Water Act and specifically with the applicability and compliance of the NPDES (40 CFR 122). MSG's clients routinely require environmental permit application preparations and compliance documents. Our environmental and engineering expertise enables us to offer our clients a "one-stop" service source for their permitting, monitoring and compliance needs.



MSG has completed hundreds of projects that have required Storm Water Management. We have addressed design, construction and monitoring concerns of storm water systems and structures competently and effectively.

Service Profile:

- ◆ Storm Water Permitting & Compliance Documents
- ◆ Storm Water Pollution Prevention Plan
- ◆ Facility Pollution Prevention Audits & Assessments
- ◆ Storm Water System Designs & Construction Assurance
- ◆ NPDES Permitting, Sampling, Analysis (Monitoring)
- ◆ Documentation/Reports
- ◆ Best Management Practice (BMP)
- ◆ Permits, Plans, Operation Documents, & Training for Storm Water Management for Industrial Activities

Spill Prevention Control & Countermeasure (SPCC)

MSG has extensive experience with the planning, design and development of required plans and operational procedures; monitoring and compliance audits; and certifications of plans as required by U.S. EPA Oil Pollution Prevention Regulations, Title 40, Code of Federal Regulations, Part 112 (40 CFR 112) and applicable State regulations.

MSG's professional staff can assist facility's managers with initial development of SPCC plans, implementation of operations requirements such as inventory procedures, spill contingency equipment and training, and employee procedures manuals/notifications. MSG also provides assistance to update and modification of existing SPCC Plans and operational documents. MSG's clients include waste treatment and disposal facilities; quarries; light manufacturing, and remediation and construction sites.

Service Profile:

- ◆ 40 CFR 112 Applicability Determination
- ◆ SPCC Plan Development & Certification
- ◆ SPCC Reviews, Updates & Modifications
- ◆ SPCC Operational, Employee & Notification Manuals
- ◆ Facility Inspection & Engineering Analysis of Applicable Systems
- ◆ Tank, Containment & Design Compliance
- ◆ Supporting Engineering Calculations/Drawings
- ◆ Spill Contingency Plans & Training
- ◆ Documentation & Agency Report Preparation
- ◆ Containment & Removal Equipment Requirements/Specifications
- ◆ Development of Spill Notification Lists (Agencies & Contractors)
- ◆ SPCC Inspection Training for Compliance Manager
- ◆ Sampling & Analysis
- ◆ Environmental Compliance Audit



Environmental Compliance Project Experience:

Electric Autolite Plant – Site Remediation/Environmental Compliance

City of Toledo
Toledo, Ohio

Services Provided

Environmental Compliance
Phase I Property Assessment
Phase II Property Assessments
Underground Storage Tank Closure
Drum Characterization & Removal
PCB Characterization
Asbestos Delineation
Remediation Planning
Supplemental Site Assessment
Site Specific Background Determination

Completion Date

July 2005

Budget

\$35,000

Toledo Correctional Facility – Ohio VAP Project

City of Toledo
Toledo, Ohio

Services Provided

Environmental Compliance
Phase I & Property Assessments
Remediation Planning & Assistance
Ohio VAP Groundwater Determination
Ecological Assessment
Risk Assessment
Engineering Controls to Eliminate Exposure Pathways
Preparation of An Operations & Maintenance Plan for NFA No. 1
Use of Deed Restrictions for NFA No. 2

Completion Date

September 2004

Budget

\$1.5 Million



SIN 899-4

Waste Management Services

- Data Collection
- Feasibility & Risk Analyses
- RCRC/CERCLA Site Investigations
- Hazardous/Non-Hazardous Exposure Assessments
- Waste Characterization & Source Reduction Studies
- Review & Recommendation of Waste Tracking or Handling Systems
- Waste Management Plans & Surveys
- Waste Minimization /Pollution Prevention Initiatives
- Emergency Response Plans

Service Descriptions:

Waste Management Services

Today, integrated waste management has become more important than ever in the long range of program managers, facility owners and operators, and regulators. MSG offers a variety of waste management consulting services, including:

- Waste Management Facility Design/ Permitting Services/ Site Development
- Waste Management Construction Quality Assurance
- Waste Management Program Planning

It takes an experienced, up-to-date, and qualified consultant to assist both public and private sector clients in dealing with these complex regulatory, land management, public interest, and funding issues. With over 20 years of experience in the field, MSG has the qualified personnel, the experience and the expertise to assist clients with waste management facility, planning, permitting, design, and implementation.

Service Profile:

- ◆ Solid, Residual, CD&D, Hazardous & Industrial Waste Disposal & Storage Facilities; Compost, Recycling, Transfer Station Facilities
- ◆ Site Evaluation & Selection
- ◆ Site Development
- ◆ Design, Permitting, Operation & Compliance Plans
- ◆ Closure & Post-Closure Plans, Estimates & Monitoring
- ◆ Construction Bid Documentation Preparation
- ◆ Bid Evaluation & Construction Quality Assurance Oversight
- ◆ Construction Management
- ◆ Surveying & Topographic Mapping
- ◆ Soil, Air & Water Testing
- ◆ QA/QC Program Monitoring
- ◆ Geosynthetic Testing



- ◆ Soil Compaction Testing
- ◆ Hydrogeological Investigation
- ◆ Ground Water Detection & Monitoring Programs
- ◆ Surface Water Programs & Permits
- ◆ Explosive Gas Programs, Systems Design & Monitoring
- ◆ Leachate Collection/Leak Detection System Design
- ◆ Facility Infrastructure Design
- ◆ Waste Volume Analysis & Soil Balance
- ◆ Regulatory Reporting & Documentation
- ◆ Correction Action Investigations & Remediation
- ◆ Regulatory Assistance
- ◆ Personnel Training
- ◆ Personnel Air Monitoring
- ◆ Surface Mining Permit Application
- ◆ Tank System, Surface Impoundment's, Waste Pile, Waste Stabilization & Container Storage Design & Construction Services



Landfill & Construction Quality Assurance

MSG understands the various factors that influence the development of waste management facilities including the need for, and design of practical landfill permitting, design, operational requirements and closure/post-closure. This understanding coupled with our knowledge and experienced professionals make MSG the firm that is most capable to provide Construction Quality Assurance (CQA) Services for your landfill cell project. We know how important proper construction quality is to your facility's operation and compliance short cuts by construction contractors can impact the security of a cell's slope or jeopardize the containment of leachate within the cell. Construction of your facility's cell should be thoroughly inspected and certified by an independent firm to assure you that the cell is built in accordance with its design and its permit requirements. Most regulatory agencies require independent certifications of each cell's construction.

MSG has professionals available to provide construction management, quality assurance oversight, liner testing, and performance of field testing such as compaction. We have registered survey crews ready to assist you in sight preparation through excavation and final drainage plans. MSG's staff also includes former waste management managers, compliance specialists and even cell construction managers and engineers from several of the largest, best known, commercial waste companies.

Our extensive experience with design and construction of major landfill cells, regulatory agencies know and respect MSG's experienced professionals. The regulators want to deal with companies and engineering firms that understand the specification and requirements for design and construction of landfill cells. They want to know that the plans, quality assurance documents and certifications are complete and consist with acceptable regulatory principals and practices. They know that MSG has extensive experience in these areas which enables the



regulators to process approvals with less costly delays. MSG's reputation and proven success can benefit your company's next landfill.

Service Profile:

- ◆ Bid Preparation & Contractor Selection
- ◆ Cost Estimating
- ◆ Geosynthetic Testing
- ◆ Scheduling
- ◆ Soil, Air & Water Testing
- ◆ Construction Monitoring
- ◆ Surveying
- ◆ Construction Documentation
- ◆ Quality Control Program Monitoring

Hazardous Material Exposure Services

MSG offers the services and expertise necessary to conduct building indoor air quality and exposure surveys to determine whether people within these building are being exposed to contaminants or hazardous materials.

MSG's specialists can perform air monitoring of the interior spaces of the building and/or personal air monitoring of occupants of the building. Other sampling and testing provided by MSG includes mold, asbestos, PCB or other "at risk" materials.

MSG can conduct sampling, testing and provide remediation options for those areas or buildings that exhibit a risk to its occupants. We can assist the owners with "public information" or employee presentations, if required.

Once a remediation approach is selected, MSG can handle the entire remediation process utilizing qualified professional sub-contractors to perform cleaning, sanitizing, encapsulation, materials removal/replacement, right on through to post remediation monitoring.

Our specialists and our network of qualified sub-contractors enable us to provide the owner with data to define the problem; remediation options; and the experienced professionals to perform the remediation tasks; quality assurance specialists to provide technical oversight from the beginning to the end of the project, and measure the effectiveness of the remediation.

Exposure risks to occupants of schools, office buildings, and other types of structures are a growing concern. Mold and other materials, when occupants are exposed to these materials, can cause varying reactions such as rashes, breathing difficulties or worse.



Waste Management Project Experience:

Hardin County Landfill – Environmental Monitoring & Corrective Action

Hardin County Board of Commissioners
Kenton, Ohio

Services Provided

Hydrogeologic Investigation
Management of Groundwater Detection & Assessment Programs
Design of Corrective Measure & Monitoring Program
COA During Corrective Measure Installation
Management of Explosive Gas Monitoring Program
Design of Explosive Gas Corrective Action Plan
Wetland Determinations & Permitting
Assistance with Leachate Management
Regulatory Interaction

Completion Date

On-going

Budget

\$85,000 (annually)



ESOI Landfill – RCRA Facility Investigation

Envirosafe Services of Ohio, Inc.
Oregon, Ohio

Services Provided

Description of Current Conditions Document
Identification of Waste Management Units & Areas of Concern
RFI Work Plan Preparation
RFI Work Plan Implementation
Ecological Assessment
Groundwater Monitoring
Data Validation
RFI Phase I Report Preparation

Completion Date

On-going

Budget

\$450,000



Systech – RCRA Facility Investigation

Systech Environmental Corporation
Paulding, Ohio

Services Provided

Preparation & Description of Current Conditions Document
RFI Work Plan Preparation
RFI Work Plan Implementation
Ecological Assessment
Groundwater Monitoring
RFI Report Preparation

Completion Date

November 2005

Budget

\$135,000



CAPACITY TO PERFORM WORK

Staff Availability

MSG employs a diverse team of more than 200 multi-disciplinary experts and support staff who are available to serve our clients. MSG's staff of technical personnel has extensive real life experience, training and professional education in their area's of expertise.

MSG's general classification of personnel follows:

Mannik & Smith Group Staff Availability (Totals Include MSG's Maumee, Monroe, & Dearborn Offices)	
Personnel Classification	Total
Administrative	31
Archeologists	18
CADD Technicians	22
Chemical Engineers	1
Civil Engineers	25
Construction Inspectors	7
Construction Managers	3
Electrical Engineers	2
Environmental Engineers	6
Environmental Scientists	14
Geotechnical Engineers	12
GIS Specialists	3
Land Surveyors	20
Landscape Architects	2
Planners	2
Project Managers	5
Transportation Engineers	20
Geoenvironmental Engineers	7
Real Estate Acquisition Specialists	5
TOTAL	205

"Working with members of the Mannik & Smith team on any project gives me a sense of confidence that the job will be completed in a timely and professional manner."

-City Administrator
City of Defiance

"With the quality and high degree of professionalism that the Mannik and Smith Group has shown me in the past several years, I have absolutely no qualms in recommending them for any project."

-Project Manager
Walbridge Aldinger

"MSG's value-added engineering during the design phase and their attention to detail during construction activities resulted in the project being completed on time and within budget."

- Township Clerk
Hamburg Township

Client List

- Ohio Army National Guard
- Air National Guard
- Maumee Valley Planning Organization
- Consumers Energy
- Toledo Metroparks
- City of Detroit Planning & Development Department
- Sauder Village
- City of Lansing Planning Office
- EnviroSource Technologies
- City of Toledo Department of Economic & Community Development
- Toledo-Lucas County Port Authority
- Hancock County Park District
- Toledo Metropolitan Area Council of Governments
- City of Toledo
- Ohio Department of Transportation
- Ohio Department of Natural Resources
- Huron Pines RC & D Area Council
- Ohio Department of Transportation
- Lafarge North America
- Honeywell
- CH2MHILL
- Parsons Brinkerhoff
- Montgomery Watson



"The MSG staff is prompt, professional and thorough. They were responsive to our needs and interacted well with the community. They helped foster a sense of public involvement, which was a key element to the project's success. It was a pleasure working with MSG."

-Principal Planner
City of Lansing Planning Dept.



"We are very pleased with the quality of your work on the projects you have recently completed for us. MSG was very responsive and communicated efficiently with regard to project status, etc."

--Administrator
Ohio Department of Transportation



"MSG has been under contract with us for over nine years and we have been very pleased with their service to the City. MSG continues to provide us with quality historic preservation and compliance services."

-Historic Preservation Specialist
City of Detroit Planning Dept.