

## Remediation, Design, Installation, and Operation and Maintenance Services

**S**AS environmental, Inc. (SAS) has provided economical environmental remediation services to our clients which include petroleum suppliers and distributors, industrial and commercial enterprises, municipalities, and solid waste disposal facilities. SAS possesses a strong experience and expertise in a variety of remediation services including:

- ◆ In-situ Remediation System Design, Installation, Operations and Maintenance (O&M) including soil vapor extraction, chemical oxidation, bioremediation, zero-valent iron, and pump and treat technologies;
- ◆ Vapor Mitigation System Design, Installation, and O&M;
- ◆ National Pollutant Discharge Elimination System (NPDES) Permitting and Sampling;
- ◆ Underground Injection Control (UIC) permitting and sampling;
- ◆ Monitored Natural Attenuation (MNA) sampling;
- ◆ Landfill Leachate and Gas Collection System Design, Installation, and (O&M);
- ◆ Air Stripper Cleaning and Repacking;
- ◆ Remedial System Efficiency Evaluations;
- ◆ System Modifications and Upgrades;
- ◆ Compliance Sampling & Reporting;
- ◆ Asbestos Surveys and Sampling;
- ◆ Waste Management Facilities Assessment, Monitoring, Permitting and Auditing;
- ◆ Hazardous Materials Management; and
- ◆ Remedial Investigations, Feasibility Studies, and Pilot Testing.

SAS continually strives to provide the most economical solutions to maintain system efficiency and compliance. SAS is committed to determining and implementing procedures in order to reduce the overall remedial processes and shorten the time to site closure. SAS realizes the time constraint of our clients and will, at their request, perform the routine reporting to government regulatory agencies.

## Overview of SAS's History, Experience, and Service Capabilities

**A**fter incorporation in 1995, SAS has continued to grow and expand to where we have successfully completed projects in over 20 different states. SAS's clientele include Fortune 500 companies, mid-size and small companies, local government organizations, as well as other environmental consulting firms. Our direct project-related experiences include:

- ◆ **In-situ Remediation Systems** at over 100 sites;
- ◆ **Preparation and Submittal of NPDES Reports** to State Agencies (using e-DMR in Ohio);
- ◆ **Design, Installation, and O&M of a Vapor Mitigation Systems** to deal with an off-site groundwater plume;
- ◆ **Preparation and Submittal of Remediation System Update Reports to Federal, State, and Local Agencies** including five year review reports;
- ◆ **Evaluation and Redesign of Remediation Systems** at the request of clients including other environmental consultants;
- ◆ **Zero-valent Barrier Installation/Monitoring** to protect a downgradient community;
- ◆ **Landfill Leachate Collection System Design, Installation, and Maintenance Projects** at over 60 active and closed landfills in three states;
- ◆ **RCRA Corrective Actions** and hazardous waste management projects; and
- ◆ **CERCLA-driven RI/FS and RD/RA projects** involving industrial properties in buried valley aquifers and other terrains.

To protect the interests of our clients, SAS is comprehensively insured with \$5 million general liability, errors and omissions, automobile, and contractors' pollution liability insurance. Health and safety is also a primary concern. SAS has a comprehensive health and safety program and has maintained "A" rating with ISNetwork.

## SAS's Technical Management Team Training and Experience

**S**AS's senior staff of environmental professionals are experienced in providing environmental and technical support services for a diverse group of clients. Through successful completion of projects under several different federal and state environmental regulatory programs, SAS's management team has established cooperative working relationships with state and federal regulators. Responsiveness is one of our strengths that allows us to meet the unique needs of individual clients.

*Mark V. Allen, CHMM (Chief Executive Officer)* has over 35 years of expertise in the petroleum and environmental arenas. As one of the founders of SAS his goal is to provide high quality economical solutions and services to SAS's clientele. Although well versed in all environmental project aspects, his primary focus has been directed toward the design, permitting, installation, and operations and maintenance of in-situ soil, groundwater, and vapor mitigation remediation systems. He has also been requested to evaluate remediation systems developed by others in order to improve their performance.

*Douglas P. Klicman, P.G., CP269 (Manager, Environmental Services Group)* is a Certified Professional in Ohio, a licensed Professional Geologist in several states, and has provided environmental and hydrogeological assessments and remediation services to clients throughout the United States since 1989. He has experience supervising thousands of due diligence investigations, conducting projects under the Resource Conservation and Recovery Act, state voluntary clean-up programs, numerous state underground storage tank programs. He has also conducted several audits of industrial WWTPs and TSD facilities both nationally and internationally.

*Matt G. Geissinger (Manager, Remediation Services Group)* has over 18 years of experience in environmental investigation, remediation, and landfill operations. He has overseen drilling operations, performed soil and groundwater sampling, conducted aquifer testing, and maintained and operated a variety of systems. As a project manager, he has experience with project cost estimation, equipment operation and maintenance, permit preparation, data review and validation, field oversight, and regulatory agency interaction.

## Present and Past Clientele

SAS's have diligently performed our remediation services for the following companies:

United Technology Corp.	Dalad Group
Shell Oil Company	McWane-Ductile
Republic Services	Waste Management
Buckeye Pipeline, LLC	Cleveland State Univ.
BP Oil & Exploration Co.	Sunoco Oil Co.
Travel Centers of America	Teledyne Tech., Inc.

## Testimonials

*"Great job all! It is easy for us take for granted that you can be counted on to rise to the occasion, but this type of accomplishment definitely deserves special recognition. Teamwork in action is a fantastic thing, and you have set a new standard with this result. Thanks so much for your efforts on this important project."* Clarke Lundell, Republic Services

*"I was impressed with everything your guys did yesterday. They did a great job out here."* Eric Squire, Asst. Env. Manager, McWane-Ductile

*"SAS was very professional and accommodating to our department."* Philip Revlock, R.S., Env. Div., Stark County Health Department

*"SAS Environmental is the preferred environmental consultant for the Dalad Group. SAS has always been very responsive to our needs and those of our lenders, whether it has been for Phase I, Phase II, or asbestos services."* Keith Masters, Dalad Group

### **SAS Receives the Cascade Capital Corporation Business Growth Award**

SAS has received the Business Growth Award from the Cascade Capital Corporation. Every year, Cascade Capital Corporation honors businesses that achieve an increase of at least 100 percent or \$5 million sales during their most recently completed five-year period.

### **For further information, contact:**

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# REMEDIATION SERVICES



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INC.**

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