

Municipal Solid Waste, Construction and Demolition Debris(C&DD), and Industrial Waste Landfill Operations and Maintenance

SAS Environmental, Inc. provides leachate and gas collection systems installation, maintenance, and on-call repair services. Our experienced staff is able to promptly troubleshoot leachate collection and gas extraction systems problems and is also able to restore system operations in a timely manner. We pride ourselves in the ability to provide same or next day service in most emergency situations. We possess strong experience and expertise in a variety of operations and maintenance areas including:

- ◆ On-call emergency maintenance for non-functioning, or improperly functioning leachate collection systems;
- ◆ Leachate pump systems and related component installation;
- ◆ Routine leachate collection system inspections to ensure uninterrupted and efficient operation;
- ◆ Leachate pump cleaning to prolong operational lifespan;
- ◆ Leachate control panel installation and maintenance;
- ◆ Tank storage systems inspection and maintenance;
- ◆ Gas collection systems operations & maintenance;
- ◆ Leachate treatment system design, operation, and maintenance;
- ◆ Surface water management system inspections and maintenance; and
- ◆ Jet cleaning of leachate riser and clean out lines;
- ◆ Sediment pond aeration pump installation and maintenance

Adaptability is one of our strengths that allow us to respond to the unique needs of individual clients. Our landfill services sector staff possesses a diverse set of skills and experience, which allow us to assemble project teams suited to the requirements of each project as well as provide individual solutions to the specific needs of our clients. All SAS field personnel are OSHA 40 Hour HAZWOPER certified.



SAS's Landfill Services Sector Senior Staff Training and Experience

SAS's principal partner and landfill services sector team have numerous years of experience in municipal solid waste, Construction and Demolition Debris (C&DD), and industrial landfills operation and maintenance and environmental compliance. SAS's client list includes major, county, and privately owned landfills.

Mark V. Allen (Chief Executive Officer) has provided environmental assessment and remediation support services (as an employee of oil corporations and environmental consulting firms) in the Great Lakes Region since 1981. He has directed and managed complex environmental assessment and remediation projects in a variety of regulatory contexts. For more than a decade, his focus has been directed toward the design, installation, and operations and maintenance of in-situ soil and groundwater remediation systems, and landfill leachate and gas collection systems. He is well-versed in developing cost-effective remediation strategies, and evaluating remediation systems developed by others. He also has extensive experience with oversight of other consultants.

Matt G. Geissinger (Project Manager, Landfill Operations) has over sixteen years of experience in environmental consulting and landfill operations. He has overseen drilling operations, performed soil and groundwater sampling, conducted aquifer testing, and maintained and operated various pumping and vapor extraction 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. He has also been responsible for technical report preparation, including health and safety plans, sampling, monitoring and compliance reports, and SPCC plans.

Jim Mix (Landfill Services Field Supervisor) has over sixteen years of experience working with landfill leachate and gas collection systems. He is well versed in the operation and troubleshooting of electrical and mechanical control systems. He trains and supervises technicians in the proper operation and maintenance of the various pumps, blowers, and

control equipment comprising leachate, gas, and remediation systems. He has also implanted innovative solutions to increase system performance and reduce operating costs.

Landfill Technicians:

Mike Reynolds over 5 years SAS experience.

Charles Brewster over 2 years SAS experience.

Sean Brandt new to SAS in 2015, brings experience gleaned while in military service and recent classes.

SAS's Landfill Service Provides Competitively Priced, Quality Components in a Timely Manner.

SAS Environmental, Inc. provides the highest quality leachate riser pumps and motors at competitive prices. SAS can provide Teflon fitted leachate riser pumps and motors at nearly half the cost of some of our competitors. Leachate riser pump motors can be obtained either same day or next day and most pump ends in 48 hours or less. This timely acquisition of riser pumps and motors means getting malfunctioning leachate risers back up and running with quality components.

SAS also builds HDPE leachate riser pump sleds. Each sled is custom built to fit any size leachate riser pump provided. Each SAS technician is certified in HDPE fusion joining.

Stock Components Means a Faster Repair

SAS keeps a plentiful stock of control panel level displays, pressure transducers, floats, stainless steel and HDPE fittings to accommodate most common repairs. SAS also has a fleet of HDPE welders to make immediate repairs and/or modifications to pumping systems.



SAS's Landfill Services Beginnings and Experience

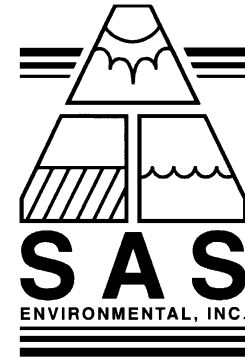
In 1995 SAS opened its doors as an environmental consultant in Akron, Ohio. SAS specialized in Phase I, II, and III Environmental Site Assessments. In the early years, SAS began providing operation and maintenance on a variety of commercial and industrial remediation systems in Ohio and neighboring states. Systems included numerous vapor extraction systems and groundwater pump and treat systems for a variety of clients. A year later SAS designed and installed a leachate pretreatment system at a local landfill to treat the leachate prior to discharge to the local sanitary sewer system. The performance of the system as well as our operation and maintenance of the system quickly thrust SAS into performing service at several additional landfill sites for the same client.

Over the next 20 years SAS expanded the list of municipal solid waste, construction and demolition debris, and industrial landfill sites we service to over 50 sites in five states that are operated by private industry as well as individual counties and municipalities.

SAS has also increased the types of services we provide which now includes the design and installation of site specific leachate collection and treatment systems including remote monitoring capabilities.

SAS Environmental, Inc.
1486 Medina Road
Suite 201
Medina, Ohio 44256
Ph: (330) 239-9800
Fax: (330) 239-2983

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Construction and Demolition
Debris and Industrial Waste
Landfill Services*

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Corporate Office
1486 Medina Rd, Suite 201
Medina, Ohio 44256
(330) 239-9800
www.sasenvironmental.com