



**Clean Globe
Environmental**

Operation, Monitoring and Maintenance Services

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SERVICES OVERVIEW

- Remedial System OM&M Services
- Preventive Maintenance
- Monitoring and Optimizing System Performance
- Groundwater Pump and Treat
- Air Sparging and Soil Vapor Extraction
- Oxygen Injection Systems
- Granular Activated Carbon
- Control Panel Troubleshooting and Repair
- PLC Maintenance, Repairs, & Modifications
- Wastewater Treatment Plant Operation and Sampling

"CGE's services include the mechanical, electrical, plumbing, and environmental aspects of OM&M of a system."

CGE's Operation and Maintenance Qualifications

CGE was formed with the mission of providing cost effective field services to Remediation Contractors, and Engineering Firms. Using, dedication, value, and sustainability as a model, CGE is helping clients succeed in their respective markets in the Northeastern United States. CGE can provide expert Operation, Monitoring, and Maintenance (OM&M) services to exceed client expectations.

Our technicians and engineers have extensive experience operating, monitoring, and maintaining various types of treatment systems. CGE's services include the mechanical, electrical, plumbing, and environmental aspects of OM&M of a system. These systems include groundwater treatment both in-situ and ex-situ; soil treatment; and wastewater treatment. CGE technicians have over 20 years of experience making sure that systems are operating as per the design specifications and within compliance with applicable permits and regulations.

CGE's OM&M Technicians have provided services that include preventative maintenance to improve the operational uptime and avoid costly repairs. Systems that treat contaminated vapor and groundwater are prone to scaling and fouling and require regular cleaning and adjustments. CGE understands the importance of obtaining accurate operational and monitoring readings from systems so that decisions can be made to improve performance, keep systems running efficiently, and make adjustments as necessary.

All CGE field personnel are trained to safely perform the work that they do. They are taught to recognize hazards and how to deal with them. CGE personnel have 40 hour OSHA HAZWOPER, 8 hour Supervisor's, American Petroleum Institute (API) Safe Work, American Red Cross First Aid / CPR, and Smith System Driver Certifications.

Company Experience

Air Sparge and Soil Vapor Extraction OM&M: Queens, NY – CGE is currently providing operation, maintenance, and monitoring for an air sparge and soil vapor extraction system in Queens, NY at a retail petroleum service station. CGE conducts routine visits to complete preventative maintenance of the rotary vane air compressor and the regenerative blower. Monitoring includes measuring and recording pressure, vacuum, temperature and air flow using field instruments and gauges. The system is equipped with granular activated carbon vessels to treat the off gas prior to discharge. CGE is responsible for vapor sampling and maintaining compliance with applicable discharge requirements.



Subsurface / Sub-slab Ventilation System OM&M: Manhattan, NY – CGE personnel provide operation, maintenance, and monitoring services for a ventilation system at a New York City Police Precinct in Manhattan, NY. Petroleum contamination exists beneath the building which resulted in petroleum vapors entering the building. CGE maintains the system which operates 24 hours a day 7 days a week. The system consists of 12 individual vent lines manifolded back to two 30 horsepower regenerative blowers. The system is equipped with telemetry to notify CGE if the system shuts down. CGE conducts routine sampling of the 12 vent lines and the effluent before and after the granular activated carbon treatment units.



Programmable Logic Controls – CGE has experienced engineers and technicians capable of designing, building, troubleshooting, and repairing PLC's. Technicians hold multiple Allen-Bradley and Rockwell Automation certificates and have a working knowledge of most others on the market. CGE has safely diagnosed problems, made changes without overriding safety features, and made improvements on existing systems to maximize system runtime and efficiency. Examples of improvements have been adding timers to systems, programming sparge systems for pulsed operations, adding telemetry and online control and monitoring features, and component upgrades.