

# Engineering services throughout the waste management industry

Geo-Logic Associates (GLA) is an employee owned firm that provides civil engineering, geo-environmental, and water resources services to solid waste clients worldwide. GLA was established in 1991 and has expanded to include more than 250 professionals located in 27 offices in 9 U.S. states and an office in Lima, Peru. Our registered civil and geotechnical engineers; professional and certified engineering geologists; and certified hydrologists, as well as field and laboratory technicians have been providing consulting, engineering, field services, and materials testing services to the waste management industry for 30 years, including:

- **Projects at over 300 landfills in 16 states and 7 countries**
- **Landfill expansion services at more than 40 sites**
- **Over 600 million square feet of liner design and/or construction quality assurance (CQA)**
- **Over 200 million cubic yards of soil design and/or CQA**
- **Environmental monitoring and reporting at more than 90 landfill sites**
- **Closure construction services at more than 50 landfill sites**
- **Four full service geotechnical laboratories**

## GLA's scope of solid waste services includes:

### Landfill Siting and Expansion

Site Characterization  
Conceptual Engineering Design/Master Planning  
CEQA Support/Special Studies

### Regulatory Compliance

Permit Documentation  
Regulatory Liaison  
Regulatory Trend Analysis

### Landfill Development

Preliminary Engineering Design/Fill Sequencing  
Liner System Design  
Ancillary Facilities Design  
Geologic/Hydrogeologic Evaluation  
Geotechnical Engineering  
Drainage Control System Design  
Hydrology/Hydraulic Analysis  
Landfill Gas Control System Design  
Environmental Monitoring System Design

### Landfill Operations Support

Interim Fill Sequencing Design  
Liquids Management  
Groundwater/Vadose Zone Monitoring and Reporting  
Stormwater Monitoring and Reporting  
Liquids Treatment Design  
Landfill Gas Control Monitoring  
Laboratory Testing

### Landfill Construction Support

Plans and Specifications  
Constructability Review  
Construction Management  
Quality Assurance  
Materials Testing  
Certification Reporting

### Closure/Post-Closure Maintenance

Alternative Final Cover Design  
Preliminary, Partial and Final Closure/Post-Closure Plans  
Stability Analysis  
Borrow Source Investigation/Analysis  
Cost Estimates

### Other Solid Waste Services

Materials Recovery Facility/Transfer Station Permitting  
Compost Facility Design and Permitting  
Litigation Support/Expert Witness  
Corrective Action Plans  
Economic/Technical Feasibility Studies  
Remediation Design

Solid Waste Services



**Geo-Logic**  
ASSOCIATES