

Environmental and Engineering Services



Commercial • Industrial • Oil & Gas • Mining • Solid Waste

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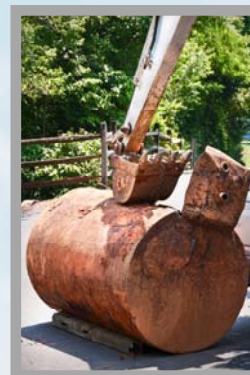
EarthRes: Technical Know-how and Experience

EarthRes has the knowledge and experience to support project needs, while providing clients with attentiveness in due diligence, engineering, permitting, land use, and construction. Our quality of work and reputation with state and local regulatory authorities provides assurance of compliance with applicable land use requirements, ordinances, environmental, health, and safety regulations and laws. We can support your project by helping to evaluate alternative solutions from both an economic and technical perspective, drawing from the experience of our multi-disciplined environmental and engineering professionals.

Our firm offers comprehensive services that efficiently manage the complex environmental, engineering, and regulatory requirements of projects ranging from due diligence for a real estate transaction to land development planning, environmental permitting, and engineering for your facility. Our experienced staff is prepared to help you evaluate, plan, complete and coordinate every step of your project so that you can stay focused on your business.

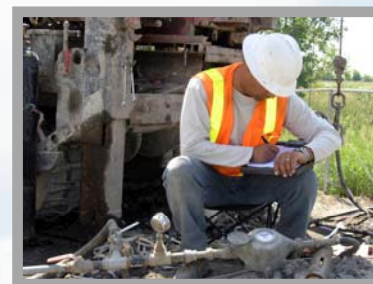
Investigation and Remediation

- Phase I and Phase II Environmental Site Assessments (ESA)
- Brownfields Investigations, reporting, and re-development
- Pennsylvania Act 2 Investigation and Reporting
- Site characterization, remediation, and post-closure monitoring
- Pilot testing, remedial alternatives analysis, selection, and design
- UST, AST, and bulk storage facility closure investigations and reporting
- RCRA and CERCLA Investigations and Reporting



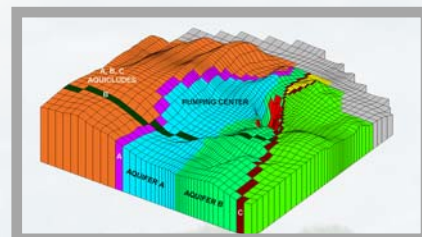
Geologic and Hydrogeologic Investigations

- Geologic and hydrogeologic investigations, mapping, and evaluations
- Aquifer characterization and hydraulic testing
- Groundwater and spring water source evaluations
- Stormwater management practices / infiltration studies



Geotechnical and Geologic-Hazard Investigations

- Karst investigation and mitigation
- Geophysical surveying
- Geotechnical and slope stability evaluation
- Downhole permeability testing



Water Resources

- Groundwater, spring water, and surface water development
- Source water siting, engineering design and permitting
- Source water inventory valuation and analysis
- FDA spring/borehole connection determination
- Water basin commission investigation and permitting
- Multi-state permitting and annual permit renewals for source, bottling plant, and products
- Source refurbishment and optimization



Wetland Delineation and Permitting

- Field determination of wetlands (1987 US ACE Manual and Regional supplements)
- USACE and multi-state permitting
- Alternative analysis
- Wetland functions and values assessments
- Threatened and endangered species search coordination
- Compensatory wetland mitigation plan design, hydrologic assessments, and implementation



Land Development Engineering and Permitting

- Pre-development assessment
- Municipal Zoning / Subdivision and land development criteria analysis
- Conceptual site plans for project feasibility and/or marketing
- Integrated brownfield re-development strategy
- Zoning and land development site plan preparation
- Site grading and earthwork analysis
- Soil erosion and sediment control plans
- Roadway design and DOT Highway Occupancy permits
- Preparation of construction contract documents and project specifications
- Project management and construction coordination



Water and Wastewater Treatment

- Wastewater treatment and disposal alternatives evaluation
- Conceptual studies, cost estimates, and design for wastewater collection, pumping, and treatment systems
- Wastewater treatment plant design and permitting
- NPDES permitting; post-construction stormwater management
- Discharge monitoring and reporting; troubleshooting support
- Part II water supply treatment design and permitting
- Pilot testing and feasibility studies
- Sewage facility planning and permits; nitrate plume analysis and modeling
- Stormwater management and facility design
- Pretreatment and surcharge cost reduction evaluation



Additional EarthRes Services

- Air quality permitting and compliance
- Solid waste engineering
- Pollution prevention and beneficial use services
- Process engineering and optimization
- Hazardous and combustible liquids permitting
- Mining engineering and geology
- Civil and mechanical engineering for oil and gas development



About EarthRes

EarthRes Group, Inc. (EarthRes) is a multidisciplinary engineering and consulting firm with offices located in Pennsylvania and West Virginia. We provide timely, high quality engineering and environmental services to the commercial, industrial, mining, oil and gas, solid waste, and government market sectors. Our goal is to help you be successful in completing your project quickly, efficiently and on budget. Our clients gain value through our creative thinking and an understanding of what is important to their business. We maintain honest, open communications, and adhere to sound ethics and project management principles to achieve successful project completion and client satisfaction.

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ENGINEERING AND SCIENCE