

# Mining Services

An integrated approach to engineering, environment, and project delivery



## 01 ESG, Sustainability & Indigenous Relations

- Climate Change & Resilience Planning
- Community Relations & Human Rights
- Corporate & Regulatory GHG Reporting
- Corporate-Level ESG Strategy Development & Implementation
- Energy Usage & Efficiency
- ESG Disclosure Readiness, Development & Enhancement
- Indigenous Relations & Partnership Building
- KPI/Target Setting, Tracking & Reporting
- Nature Based Solutions
- Renewable Energy Assessments
- Water Conservation & Stewardship
- Workforce Health & Safety



## 02 Surface Infrastructure

- Accommodation Camps
- Administration & Offices
- Airstrips & Facilities
- Communications
- Haul Roads & Access Roads
- Mine Dry, Workshops & Warehouses
- Ports, Stockyards, & Shiploading
- Power Supply & Distribution
- Railways & Rolling Stock
- Sewage & Wastewater
- Solid Waste Management
- Watercourse Assessments & Restoration



## 03 Underground Infrastructure

- Compressed Air Systems
- Crushing & Picking
- Dewatering Systems
- Electrical Distribution Systems
- Incline Conveying
- Instrumentation & Control
- Mechanical Mine Services
- Shaft Hoisting Systems
- Ventilation & Equipment



## 04 Plant Engineering

- Balance of Plant
- Process Modifications
- Crushing & Screening
- Mine Services
- Overland Conveyance
- Plant Conveyors
- Slurry Pipelines
- Stockyards & Loadouts
- Structural Assessment & Repair



## 05 Water Management

- Advanced Analytic Testing
- Climate Change & Adaptation
- Computational Fluid Dynamics
- Environmental Impacts Assessments (Surface & Groundwater)
- Erosion & Sediment Control
- Flood Management
- Geomorphology
- Hydrogeology
- Hydrologic & Hydraulic Modeling
- Metals & Hydrocarbon Removal
- Nature Based Solutions
- Nutrient Removal
- Potable Water Systems
- Pumping Stations
- Site Water Balance
- Stormwater Management
- Stream Diversions
- Surface Water & Groundwater Monitoring
- Ultra-Fine Filtration
- Water Quality Modeling & Correction
- Security & Stewardship Programs
- Supply & Withdrawal
- Transportation & Storage



## 06 Tailings & Dams

- Conventional, Thickened, Paste & Filtered Dewatered & Dry Stacked
- Dam Safety Reviews & Inspections
- Design, Construction, Operations Support, Closure & Post-Closure
- Engineer of Record Services
- FMEA / Risk Management
- Geosynthetic Barriers
- Hydrotechnical Structures
- Paddock, In-Pit, Central Discharge
- Sub-Aerial, Subaqueous & Submarine
- Surveillance, Maintenance & Emergency Preparedness
- Tailings & Waste Rock Co-Disposal / Co-Mingling
- Tailings Dams / Embankments Design
- Tailings Deposition Planning
- Tailings Storage Facilities / Transport
- Third Party / Independent Design Reviews
- Water / Effluent Retention Dams

## AECOM supports the entire project life cycle.

Our team works across the project lifecycle from exploration and development through to operations and decommissioning. Innovation, efficiency, global reach and collaboration — AECOM's winning combination benefits clients, communities and stakeholders around the globe.



### MINING RESPONSIBLY, RESTORING SUSTAINABLY

**Pictured top:** Giant Mine Remediation Project, Northwest Territories, Canada  
**Pictured bottom:** Strange Lake Rare Earth Mining Project, Quebec, Canada





UNEARTHING A LOW-CARBON FUTURE

**Pictured top:** Faro Mine Remediation Project, Yukon, Canada  
**Pictured middle:** Sydney Tar Ponds and Coke Ovens Site Remediation, Cape Breton Island, Nova Scotia, Canada  
**Pictured bottom:** Snow Lake Mine Remediation, Manitoba, Canada



07 Ground Engineering

- Deterministic & Probabilistic Seismic Hazard Assessments
- Foundation Designs
- Geochemistry
- Geologic Assessments
- Geologic Surveys
- Geotechnical Engineering Recommendations
- Ground Freezing
- Ground Improvements / Freezing
- Groundwater Fate & Transport Modeling
- Horizontal Directional Drilling
- Hydrology & Site-Wide Water Balance
- Mine Dewatering
- Retaining Structures
- Site Investigations
- Slope / Mine Waste Dump / Heap Leach Stability



08 Environment Services

- Acoustic Modeling & Noise Control Evaluation
- Air Quality Modeling Assessments & Ambient Monitoring
- Archaeological Investigations & Reporting
- Climate Assessments
- Compliance Checklists & Manuals
- Emerging Contaminant Expertise (PFAS)
- Endangered Species Surveys / Consultation
- Environmental Planning & Permitting
- Impact Avoidance & Mitigation
- Noise & Vibration Monitoring
- Regulatory Compliance Programs
- Spill Prevention, Control & Countermeasures
- Wetland & Stream Delineation



09 Construction Services

- Bid Package Preparation & Management
- Compliance Monitoring Programs
- Constructibility Reviews
- Contract Administration
- Planning, Scheduling & Cost Estimating
- Pre-Commissioning & Commissioning
- Project Execution
- Quality Assurance & Inspection
- Safety Management



10 Operations

- Asset Management & Integrity
- Commissioning Assistance
- GIS / GPS / Drone Services
- Liability Portfolio Management
- Noise, Vibration & Dust Compliance Monitoring & Reporting
- Operational Readiness
- Unmanned Systems



11 Planning

- Agency Strategy & Negotiations
- Concept Studies & Site Selection
- Definition & Cost Estimating
- Engineering Studies & FEED
- Environmental Baseline Studies
- Exploration Permitting
- Public & Stakeholder Engagement
- Regulatory Permitting



12 Closure & Reclamation

- Closure Planning & Remediation
- Compliance Monitoring & Annual Sampling/Reporting
- Demolition Oversight & Management
- Hydrogeological, Geochemical & Transport Modelling
- ML/ARD & Metal Attenuation Studies
- Predictive Water Balance & Water Quality Monitoring
- Regulatory Approvals & Permitting
- Surface Reclamation
- Waste Management