



OVERVIEW OF INDUSTRIAL MINING SERVICES

Working continuously through the boom of frac sand mining in west central Wisconsin, Cooper Engineering Company, Inc. provides an array of engineering services to accommodate industrial mining. Our highly-trained staff specialize in process planning, site design, surveying, transportation, environmental, and structural engineering. We perform measurements and volume and weight calculations of sand inventory. In addition, Cooper Engineering provides material testing and density analysis of aggregate, asphalt, and concrete pavement at our in-house laboratory. Cooper Engineering is a full-service provider able to coordinate all aspects of your mine site.

PLANNING/SURVEYING SERVICES

- Feasibility Studies
- Reclamation Plans
- Boundary Surveys
- Certified Survey Maps
- Topographic Surveys
- ALTA Surveys
- Wetland Delineation/Mapping

SITE DEVELOPMENT

- Industrial Site Design
- High Capacity Well Permitting
- Process Water Management
- Structural Foundations
- Grading Plans
- Erosion & Sediment Control Plans
- Stormwater Management

TRANSPORTATION DESIGN

- Rail Design
- Multi-Modal Facilities
- Intersection Improvements
- Road Evaluation and Traffic Flow Analysis
- Driveway Permits
- Culvert Improvements

OPERATIONAL PHASE SERVICES

- Process Improvements
- Mine Surveys
- Inventory Estimation
- Reserve Calculations

CONSTRUCTION SERVICES

- Construction Staking
- Construction Observation
- Stormwater Permit Monitoring/Reporting
- Material Testing
- Construction Contract Administration
- Record Drawings