

## ***Surface Water Quality & Watershed Management Services***



### **Capabilities**

- Watershed Assessments/TMDLs
- NPDES Permitting & Monitoring
- Aquatic Biota Surveys
- Aquatic Habitat Surveys
- Riparian Habitat Assessments
- Hydrologic Studies
- Water Quality Studies
- Erosion and Sediment Control
- Erosion Inventories
- Stream Restoration

## Key Projects

### Culvert Assessment, Salmon and Challis/Idaho

- Surveyed culvert condition and fish passage potential
- Determined fish species swim capabilities
- Prepared design recommendations for culvert restoration
- Prioritized culvert restoration projects

### Fremont River TMDL, Utah

- Assessed water quality impairment in the Fremont River watershed
- Quantified loadings for limiting water quality parameters
- Developed total maximum daily loads
- Developed a water quality management plan

### NPDES Permitting, Ada County Highway District, Idaho

- Assist in NPDES permit application
- Perform NPDES permit required stormwater monitoring
- Analyze stormwater quality data to identify statistically significant trends
- Evaluate storm sewer system performance
- Prepare NPDES permit required annual report to EPA

### Macroinvertebrate Surveys, Big Boulder Creek, Idaho

- Collected macroinvertebrate samples
- Evaluated mining impacts based on macroinvertebrate community composition

### PFC Assessments, NF John Day River, Oregon

- Conducted riparian habitat assessments
- Conducted hydrologic assessments
- Evaluated baseline conditions of streams on public lands

### Streambank Erosion Inventories, Willow Cr. Watershed, Idaho

- Conducted streambank erosion inventories in support of a TMDL
- Assisted with a geomorphic risk assessment to evaluate erosion risks in the watershed

### Water Quality Monitoring, Big Wood River Basin, Idaho

- Collected water quality data over a one-year period in support of TMDL development
- Assessed water quality analytical results and seasonal variations

### Erosion and Sediment Control, Stibnite Mine, Idaho

- Prepared an erosion and sediment control workplan
- Implemented erosion control measures during construction

### Additional Projects

- Investigated metal contamination in surface waters for abandoned mine facilities
- Assessed contaminant loading from point and non-point sources into surface waters
- Conducted watershed modeling for peak flows



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