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## SURFACE WATER SERVICES

Since its inception in 2000, Water & Environmental Technologies (WET) has grown from a highly specialized group of groundwater professionals into a full-service geoscience, environmental, and engineering consulting firm that offers surface water services that include impaired surface water assessments and stream restoration.

### Impaired Surface Water Assessment

Since the early 2000's, WET has been involved with Total Maximum Daily Loads (TMDL) development. Our environmental services staff conducts TMDL assessment studies on behalf of the Montana Department of Quality (DEQ), watershed groups, conservation districts, and other interested stakeholders. Assessments include pollutants of concern including sediment, nutrients, metals, and temperature, and typically include the following major tasks: watershed assessment and background GIS analysis, field assessment/sampling, data analysis/modeling, and development of pollutant reduction scenarios using selected Best Management Practices (BMPs).

Specific stream impacts that WET personnel have studied in detail include:

- Heavy metals impacts from past mining activities
- Nutrient impacts from point (wastewater discharge) and non-point source (grazing, agriculture, urban) impacts
- Streambank erosion studies from multiple land use impacts
- Sediment delivery to waterbodies from unpaved road networks
- Upland sediment delivery to waterbodies
- Temperature monitoring and modeling to determine impacts from multiple sources (irrigation, riparian corridor management, shade, etc.)

### Stream Restoration

WET works on stream reconstruction and bank restoration projects on both small and mid-size waterbodies.

Our staff recognizes the importance of understanding a stream's hydrology, sediment supply, and transport mechanisms to ensure that a successful design is selected and implemented. The restoration staff has attended many applied fluvial geomorphology training classes on river assessment and design and have

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implemented successful restoration strategies in the field. Our staff has also designs “soft” bank restoration projects on area streams. The regulatory climate has moved away from hard armoring (rip-rap, etc.) to designs that result in more natural channel features.

In addition to bank and stream restoration design, WET has experience in designing, permitting, and constructing fish ponds.

To learn more about our Surface Water services, visit [waterenvtech.com/gsw-modeling/](http://waterenvtech.com/gsw-modeling/).

