

TMDL SERVICES

Environmental

Providence has assembled a dedicated team of professionals to address the total maximum daily loads (TMDLs) of pollutants that are being implemented for Louisiana water bodies.

OUR TMDL SERVICES INCLUDE:

- **Monitoring/evaluation of current/on-going TMDL development including:**
 - Individual point source waste load allocations (WLAs)
 - Non-point source load allocations (Las)
- Forecasts of impacts to wastewater permitting
- Evaluation of probable impacts on permit compliance
- LDEQ and EPA agency liaison and negotiations
- Public notice response
- Strategy development and implementation
- Team members are experienced in the following areas pertinent to the TMDL process:
 - Surface and groundwater hydrology
 - Surface and groundwater modeling
 - Mixing zone determinations and modeling
 - TMDL development

Cont'd:

- Calculation of WLAs and water quality-based effluent limitations (WQBELS)
- Field water quality survey design
- Aquatic ecology
- Water quality chemistry
- Environmental toxicology
- EPA's recently developed 1600 Series Clean Techniques for trace metals monitoring
- Water effects ratio (WER) determinations
- Wastewater and storm water management and permitting
- Groundwater assessment
- Environmental data management including geographic information systems (GIS)
- Computer graphics and modeling
- Computer programming
- Project management

A TMDL:

- The maximum amount of a given pollutant that can be discharged into a water body from all natural and anthropogenic sources
- Includes both point and nonpoint source discharges
- Is assimilated in the water body and does not result in instream violations of ambient numerical criteria, narrative criteria, or impairment of designated uses



PROVIDENCE

Offices located throughout Louisiana, Texas and Mississippi

www.providenceeng.com

Providence Engineering and Environmental Group LLC