

Wastewater Management/Reuse



Capabilities

- Wastewater Land Application System Design & Operation
- Development of Alternative Permitting Approaches
- Site Suitability Investigations
- Level 1 & Level 2 Nutrient-Pathogen Evaluations
- Wastewater Treatment System Design & Operation
- Permit Application Preparation

Key Projects

Grossman Family Properties

- Prepared permit application for wastewater land application to agricultural and common areas at a proposed residential community
- Analyzed physical/chemical properties of surface soils/shallow groundwater, evapo-transpiration rates, process water budget and impacts to water supply aquifers
- Evaluated wetland hydrology and associated impacts from seasonal irrigation practices
- Ongoing collection and monitoring of hydrologic data for surface water and groundwater management at the site

Elk Valley Subdivision

- Conducted a nutrient-pathogen study to evaluate the impacts of septic systems on the groundwater from a proposed residential subdivision
- Generated three-dimensional model of the groundwater system beneath the site to calculate nitrate impacts from sewage disposal
- Designed a water supply well siting strategy and assessed long-term impacts to groundwater and adjacent surface water

Spring Hill LLC

- Performed a comprehensive site assessment to evaluate the site's suitability for slow-rate land application
- Prepared Preliminary Technical Report and permit application documents to request use of a 203-acre site to dispose of 600,000 gpd of highly-treated wastewater from a proposed residential development
- Proposed treatment and monitoring approach to allow irrigation of residential lawns

Jerome Cheese Company

- Characterized wastewater generated by plant processes and evaluated treatment alternatives capable of meeting TMDL standards for tributaries to the Snake River and state water quality standards
- Prepared permit application for 920-acre wastewater land application facility
- Designed innovative precision irrigation and nutrient monitoring/dosing systems to address application of wastewater in a complex topographic and geologic environment
- Developed Best Management Practices including nutrient management and control of irrigation runoff to prevent discharges from the site

WestFarm Foods

- Evaluated disposal alternatives for residual solids from the plant's wastewater treatment system including recycle and use as a soil amendment, and slow-rate land application

