

DOUBLE-TREE, INC.

Wastewater Treatment and Water Recovery

OCTOBER 2011



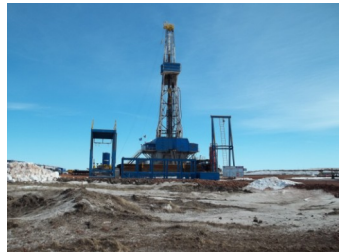
The Bakken Oil Formation in the Williston Basin covers parts of Montana, North Dakota and Saskatchewan. New drilling and rock fracturing technologies have led to an increase in Bakken oil production. The large influx of workforce in the area has outpaced housing supply.

The increased activity in the Bakken has also led large demands on existing municipal sewer systems and shortages in available water supply.

With our experience in both wastewater treatment and water source development, Double-Tree can provide solutions to both permanent and temporary housing in towns, subdivisions, mobile home parks, and full service man-camps.

In the Bakken, the Double-Tree focus is on the development, construction and operation of wastewater treatment plants that provide for the quality treatment of sewage and the recovery of fresh water for reuse.

On-site treatment of sewage at man-camps and other sites in the Bakken eliminates expensive hauling and pressure on community systems. Reuse in the Bakken brings a new source of water for hydraulic fracturing reducing pressure on the fresh water resources.



North Dakota Oil Drilling

Double-Tree, Inc.
www.doubletreemt.com

Phone: (406) 587-0994
Email: admin@doubletreemt.com

Tioga Lodge WWTP

Double-Tree's first North Dakota wastewater treatment plant is designed, approved by the State of North Dakota and is under construction at the Target Logistics Tioga Lodge, a man-camp facility near the City of Tioga. With a treatment capacity of 180,000 gallons per day, the plant is designed to treat to an effluent quality suitable for reuse in hydraulic fracturing.



Tioga Lodge WWTP



Tioga Lodge WWTP

Solutions

Double-Tree, Inc.

Providing experienced management to find optimal solutions to project needs!

- Project Development
- Construction
- Operations
- Turn-Key - 'Concept to Completion'

Recovering Frac Water

Double-Tree is also developing a plant that will recover water from frac flow-back water and pump water. Flow-back water is the water that resurfaces from the oil well during and after the fracturing process. In addition to oil, the flow-back water has a cocktail of chemicals that need to be removed prior to recovering the fresh water. Currently frac flow-back water is disposed of in injection wells. Disposal of flow-back water from hydraulic fracturing is an environmental issue nationally.



For every three barrels of oil pumped from producing oil wells in the Bakken, a barrel or more of pump water is brought to the surface. This pump water is laden with salts, oil, and impurities that can be separated and water recovered for reuse.

Also Available

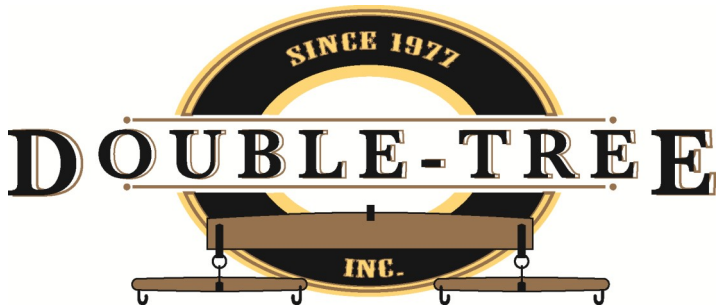
Mobile Treatment Plants

The completed wastewater plants are readily deployable by truck to even the most remote locations.

- Small Footprint
- Constructed Offsite
- High Quality Treatment
- Fully Automated and SCADA Controlled
- Low Capital Cost
- Easy Operation
- Operational and Technical Assistance
- Financing Assistance



Montana Wastewater Systems



**WASTEWATER TREATMENT PLANTS
DESIGN • BUILD • OPERATE**

*Eliminate septage hauling and recover effluent
water for reuse in hydraulic fracturing!*

P.O. Box 10098
Bozeman, MT 59719
Phone: 406-587-0994
Fax: 406-587-9374
Email: barbara@doubletreemt.com

Visit www.doubletreemt.com for more information!

"Responsible Growth Respecting the Environment"

