

Gozzer Ranch Wastewater Treatment & Effluent Reuse System

Coeur d'Alene, Idaho

WELCH-COMER 
ENGINEERS | SURVEYORS

Discovery
LAND COMPANY



WELCH-COMER

Project Background

- Planned Golf Community with Approximately 400 ER's
- Existing Community Drainfield for 170 ER's was failing
- Class A Effluent Treatment/Reuse System Pursued
- Design Flow 131,000 gpd
- Construction Cost \$1.6 million

Key Design Features

- **130,000 gpd Membrane Bio Reactor**



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- **1 MG Bypass Pond**



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Key Design Features

- 130,000 gpd Membrane Bio Reactor
- 1 MG Bypass Pond
- 7 MG Golf Lake
- Activated Carbon Air Scrubber
- SCADA System
- UV Disinfection System
- Methanol Injection



Permit Conditions

- 2.2 cfu Total Coliform
- 30 mg/l Total Nitrogen
- 10 mg/l BOD
- 0.2 NTU Mean Turbidity – 0.5 NTU Max
- Class III Operator

Treated Effluent Results

- Total Coliforms <1 cfu
- BOD <2 mg/l
- Turbidity <.05 NTU
- Nitrogen <20 mg/l







