

PROJECT PROFILE

MRI Inclined Plate Settlers
MRI Hoseless Cable-Vac™ Sludge Collector
Erie, Colorado



Lynn Morgan Water Treatment Facility

Location: Erie, Colorado

Plant Type: Microfiltration

Product(s) Installed: MRI Inclined Plate Settlers; MRI Hoseless Cable-Vac™ Sludge Collector

Year Installed: 2005 (plate settlers and sludge collector)

Design Flow Rate: 10 MGD/basin

Basin Size: 48.3' x 30.3' x 17'

Loading Rate: 0.274 GPM/ft²

Residence Time: 27 minutes

Effluent Turbidity: 0.5 NTU

Raw Water Source: South Boulder Creek and Carter Lake

Normal Turbidity: 5 NTU (raw water) / 0.5 - 1 NTU (effluent off plates)

Highest Turbidity: 50 NTU (raw water) / unknown (effluent off plates)

Coagulant: 30 PPM alum

Effects of Spikes on Plate Settlers: Maintains < 1NTU

Type of Sludge Removal: Hoseless Cable-Vac™ Sludge Collector



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