

CASE STUDY

MRI Inclined Plate Settlers MRI Hoseless Cable-Vac™ Sludge Collector

Arvada, Colorado



Ralston Water Treatment Plant

Location: Arvada, Colorado

Plant Type: Municipal water treatment

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

Year Installed: 1999 (plate settlers)
2004 (sludge collector)

Design Flow Rate: 10 MGD/basin

Basin Size: 56' x 25' x 17.5'

Loading Rate: 0.272 GPM/ft²

Residence Time: 26 minutes

Effluent Turbidity: 0.4 NTU

Raw Water Source: Reservoir

Normal Turbidity: 4 NTU (raw water) / 0.4 NTU (effluent off plates)

Highest Turbidity: 50 NTU (raw water) / 1 NTU (effluent off plates)

Coagulant: Alum

Effects of Spikes on Plate Settlers: Maintains < 1NTU

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



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