

## BIOLOGICAL NUTRIENT REMOVAL

**STATE PROGRAM:** Colorado Water Resources and Power Development Authority

**ASSISTANCE RECIPIENT:** Boxelder Sanitation District

**ASSISTANCE AMOUNT:** \$11M



### PROJECT DESCRIPTION

In 2014, the Boxelder Sanitation District used \$11 million in assistance from the Colorado Water Pollution Control Revolving Fund to replace its aerated lagoon system with a new system that will remove ammonia year-round. The new treatment system will help purify discharges into a creek that is 303(d) listed for selenium and E. coli. The project has been one of many success stories showcased by the Colorado Water Quality Control Division's ground-breaking measurable results program. The program captured detailed instream monitoring data between 2011-2015 of the impressive water quality improvements from the new Boxelder treatment plant, including decreases of 95-99% in nutrient levels, 88% in biological oxygen demand, 48% in selenium, and 67% in E. coli. These dramatic improvements have slashed the number of wastewater effluent violations from 19 to 5.

To read more about this case study, please visit [epa.gov/sites/default/files/2017-11/documents/pisces\\_compendium\\_final2.pdf](https://www.epa.gov/sites/default/files/2017-11/documents/pisces_compendium_final2.pdf).