

NFRWQPA 2011 WATER QUALITY PLAN UPDATE  
Major Point Source Inventory Data

Operating Agency: *Boxelder Sanitation District*

Utility Plan Approved: 7/2010

CDPS Permit #: CO-0020478

Permit Expires: 8/31/2013

Description of Treatment Facilities: Lagoons – 2 aerated lagoons, 2 polishing ponds, chlorination, and dechlorination.

Treatment Facility Location: NE ¼, Section 28, T7N, R68W

Discharge Location: COSPCP13b, Boxelder Creek just above the confluence with the Cache la Poudre River, NE ¼, Section 28, T7N, R68W.

Stream Segment Classification: Warm Water Aquatic Life Class 2, Recreation Class P (May 15 – Sept. 15), Recreation Class N (Sept. 16 – May 14), and Agriculture.

Service Area Population:

Existing	2015	2020	2025	2030
9,246	11,786	14,326	16,866	19,406

Capacities:

	Design Capacity	Existing Load	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd)	2.34	2.22	2.41	2.60	2.79	3.00	existing flows > 80%	2011
Organic (lbs./day BOD <sub>5</sub> )	4,200	1,850	2,357	2,865	3,373	3,881	2025	>2030

Biosolids treatment and disposal: Not routine

Treatment level: The degree of treatment required and effluent limitations are outlined in Permit #CO-0020478.

Estimated 5-year construction needs: In 2010 NFRWQPA recommended approval of a site application for a new mechanical treatment facility that will meet required effluent limits and provide capacity well into the future. The new facility will include an influent lift station, screening and grit handling facilities, extended aeration using oxidation ditch(s), secondary clarifiers, recycle and waste activated sludge pumping facilities, ultraviolet light disinfection, and aerobic digesters. Construction of this facility is expected to begin in 2011 with start-up in 2013. A capital improvements plan for the District's collection system was also included with the Utility Plan approved in 2010.