

NFRWQPA 2011 WATER QUALITY PLAN UPDATE  
Major Point Source Inventory Data

Operating Agency: **Town of Berthoud**

CDPS Permit #: Main: CO-0046663                      Permit Expires: 8/31/2009  
CDPS Permit #: Serenity Ridge: CO-0047007              Permit Expires: 5/31/2010

Description of Treatment Facilities: Main facility: screening, grit removal, lift station, activated sludge aeration basins, clarifies, and UV disinfection with an aerated digester. Serenity Ridge facility: sequencing batch reactor activated sludge process, chlorination, and dechlorination.

Treatment Facilities Location: Main: SW ¼, Section 19, T4N, R68W. Serenity Ridge: N ½, NW ¼, Section 27, T4N, R68W.

Discharge Location: Main: SW ¼, Section 19, T4N, R68W. Serenity Ridge: SE ¼, SE ¼, Section 22, T4N, R68W.

Stream Segment Classification: Main: COSPBT09 Little Thompson River Segment 09, Class 2 Warm Water Aquatic Life, Recreation Class E, and Agriculture. Serenity Ridge: COSPBT10 Little Thompson River Segment 10, Use Protected, Class 2 Warm Water Aquatic Life, Recreation Class E, and Agriculture.

Service Area Population:

Existing	2015	2020	2025	2030
7,000	9,900	14,500	19,400	24,700

Capacities:

		Design Capacity	Existing Load	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd)	Main Plant	2.0	0.7	1.0	1.5	1.9	2.5	2016	2020
	Serenity Ridge	0.022		*	*	*	*	*	*
Organic (lbs./day BOD <sub>5</sub> )	Main Plant	3,900	1,360	1,950	2,900	3,700	4,900	2016	2020
	Serenity Ridge	52		*	*	*	*	*	*

\* The Serenity Ridge plant was approved with the condition that it be abandoned when the Berthoud Regional WWTF is built and on line.

Note: Current projections are not available at this time for the regional facility.

Biosolids treatment and disposal: Aerobic digestion and land application

Treatment level: The degree of treatment required and effluent limitations are outlined in Permit #CO-0046663 for the Main facility and Permit #CO-0047007 for the Serenity Ridge facility.

Estimated 5-year construction needs: NFRWQPA recommended for approval of the town's new regional facility in January 2005. This facility will serve the area of Berthoud near I-25 as well as land in this area annexed to Johnstown and possibly other surrounding entities. Because the rate of development has slowed dramatically in the last few years, construction of this facility has not yet begun.