

NFRWQPA 2011 WATER QUALITY PLAN UPDATE  
Major Point Source Inventory Data

Operating Agency: *City of Ft. Lupton*

NPDES Permit #: CO-0021440

Permit Expires: 5/31/2011  
 (application submitted 11/2010)

Description of Treatment Facilities: Oxidation ditch secondary treatment operated in complete mix aeration mode, clarification, and UV disinfection. Biosolids are treated in aerobic digesters, dewatered, and land applied.

Treatment Facility Location: SE ¼, SW ¼, Section 31, T2N, R66W and NE ¼, NW ¼, Section 6, T1N, R66W

Discharge Location: SE ¼, SW ¼, Section 31, T2N, R66W

Stream Segment Classification: COSPMS01a, Middle South Platte River Segment 1a, Use Protected, Class 2 Warm Water Aquatic Life, Recreation Class E, Water Supply, and Agriculture.

Service Area Population:

Existing	2015	2020	2025	2030
8,860	10,780	12,500	14,140	

Capacities:

	Design Capacity	Existing *	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd)	2.75	1.687	2.20	2.62	3.00	3.40	2015	2020
Organic (lbs./day BOD <sub>5</sub> )	4,355	2,966	3,100	3,400	3,702	4,137	2025	>2030

Existing and projected numbers are based on peak flow.

\* see estimated 5-year construction needs below.

Biosolids treatment and disposal: The facility utilizes aerobic digestion followed by centrifuge for disposal of solids. Dewatered cake is hauled for land application by Parker Ag Services, LLC.

Treatment level: The degree of treatment required and effluent limitations are outlined in Permit #CO-0021440.

Estimated 5-year construction needs: The 2007 Master Plan clearly identified the City's need to focus on removal of excess I/I or the need to begin planning for the next WWTF expansion. Accordingly, the City has applied for grants to rehabilitate those portions of their existing collection system with the greatest I/I contributions. In addition, the City completed an upgrade of the water treatment plant in January 2011 which will utilize technologies that reduce the amount of backwash water leaving the facility. With these improvements to the collection system and water treatment facility, expansion of the WWTP will be delayed past 2015.