

NFRWQPA 2007 WATER QUALITY PLAN UPDATE
Major Point Source Inventory Data

Operating Agency: *City of Ft. Lupton*

NPDES Permit #: CO-0021440

Permit Expires: 5/31/2011

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: Middle South Platte River Segment 1, Warm Water Aquatic Life Class 2, Recreation Class 2, and Agriculture.

Service Area Population:

Existing	2010	2015	2020	2025
8,036	8,860	10,780	12,500	14,140

Capacities:

	Design Capacity	Existing Load	2010*	2015	2020	2025	Year at 80% Design	Year at 95% Design
Flow (mgd)	2.75	2.2	2.0	2.43	2.82	3.19	2007	2012
Organic (lbs./day BOD ₅)	4,355	2,105	2,320	2,823	3,276	3,706	2023	>2025

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. From the annual biosolids reports for the last few years the amounts were as follows: 2004 – 167.57; 2005 – 182.828; 2006 – 120.91 DMT (dry metric tons).

Effluent limits required beyond secondary to meet stream standards: None

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 is planning on a water treatment plant expansion in 2008 that will utilize technologies that reduce the amount of backwash water leaving the facility. It is the goal of the City to not require a WWTF expansion before 2012.