

NFRWQPA 2007 WATER QUALITY PLAN UPDATE
Major Point Source Inventory Data

Operating Agency: *Town of Kersey*

NPDES Permit #: CO-0021954

Permit Expires: 10/31/95 - Extended

Description of Treatment Facilities: Oxidation ditch, activated sludge plant with discharge from the secondary clarifier to an evaporative / percolation pond for disposal. The town is currently using emergency surface discharge bypass to the South Platte River on a part-time basis due to the condition of the evaporation / percolation pond.

Treatment Facility Location: SE ¼, Section 16, T5N, R64W

Discharge Location: Groundwater in SE ¼, Section 16, T5N, R64W. Surface water to Middle South Platte Segment 01, SW ¼, SW ¼, Section 16, T5N, R64W.

Stream Segment Classification: Warm Water Aquatic Life Class 2, Recreation Class 1a, and Agriculture.

Service Area Population:

Existing	2010	2015	2020	2025
1,410	1,839	2,132	2,471	2,865

Capacities:

	Design Capacity	Existing Load	2010	2015	2020	2025	Year at 80% Design (for activated sludge plant)	Year at 95% Design (for activated sludge plant)
Flow (mgd)	0.18	0.100	0.208	0.258	0.313	0.373	2015-2020	2020-2025
Organic (lbs./day BOD ₅)	500	245.72	504	625	757	903	2015-2020	2020-2025

Biosolids treatment and disposal: Not routine with the existing facility. The new facility will be storing on site and land applying.

Effluent limits required beyond secondary to meet stream standards: None

Estimated 5-year construction needs: The town has purchased the land that the existing WWTF is located on and has completed a preliminary engineering report for the construction of a new activated sludge process plant. An RFP has been issued for proposals to design/build a new WWTF. The new plant is expected to be an activated sludge type process with the preferred method to be SBR. The new plant is expected to be 0.38 mgd and is scheduled to be under construction in early 2006.