

NFRWQPA 2011 WATER QUALITY PLAN UPDATE  
Major Point Source Inventory Data

Operating Agency: *Town of Lochbuie*

CDPS Permit #: CO-0047198

Permit Expires: 12/31/2010

Description of Treatment Facilities: Extended aeration activated sludge plant with UV disinfection.

Treatment Facility Location: NW ¼, NW ¼, Section 29, T1N, R65W

Discharge Location: Lochbuie is permitted to discharge at two points along the Beebe Seep Canal – at the previous plant site located at the SE ¼, NW ¼, Section 31, T1N, R65W and also at the new plant site located at the NW ¼, NW ¼, Section 29, T1N, R65W.

Stream Segment Classification: Unclassified irrigation ditch.

Service Area Population:

Existing	2015	2020	2025	2030
12,860	14,500	18,900	21,800	25,000

Population includes Lochbuie and a portion of Bromley Park in Adams County.

Capacities:

	Design Capacity	Existing Load	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd)	2.0	0.870	1.00	1.30	1.5	2.0	2018	2025
Organic (lbs./day BOD <sub>5</sub> )	3,840	1,600	1,850	2,400	2,900	3,840	2018	2025

Biosolids treatment and disposal: Aerobic stabilization of biosolids, decanted and wet-hauled for land application.

Treatment level: Lochbuie is currently treating to water quality standards higher than permit requirements (nitrate and phosphate removal) per an agreement with FRICO, owner of the irrigation canal that Lochbuie discharges to.

Estimated 5-year construction needs: The town has expanded the plant to 2.0 mgd. No capacity related expansion anticipated in the next five years.