

NFRWQPA 2007 WATER QUALITY PLAN UPDATE
Industrial Point Source Inventory Data

Operating Agency: *Swift Beef – Lone Tree*

NPDES Permit #: CO-0027707

Permit Expires: 8/31/2010

Description of Treatment Facilities: Four anaerobic lagoons, activated sludge system with nitrification / denitrification, polishing ponds, disinfection with chlorine gas, and effluent re-aeration. There is also a pretreatment plant that pretreats wastewater at the packing plant to remove BOD₅, suspended solids, fats, oil, and grease to produce a saleable byproduct and reduce the load on the treatment plant.

Treatment Facility Location: SE ¼, Section 31, T6N, R64W

Discharge Location: SE ¼, Section 31, T6N, R64W

Stream Segment Classification: Lone Tree Creek Segment 3 just upstream of the confluence with the South Platte River, Warm Water Aquatic Life Class 2, Recreation Class 2, and Agriculture.

Capacities:

	Design Capacity	Existing Load
Flow (mgd)	5.2	3.0*
Organic (lbs/day BOD ₅)		23,000*

* The beef plant is transitioning from one to two shifts so the existing load will continue to increase into early 2008.

Biosolids treatment and disposal: Waste activated sludge and primary sludge are currently being hauled from the plant by Liquid Waste Management Company.

Residuals Disposal: Preferred Cartage provides hauling off site for land application and for composting.

Effluent limits required beyond secondary to meet stream standards: New permit contains more stringent limits on final effluent ammonia-nitrogen and total nitrogen as a result of revised federal effluent guidelines requirements for the red meat industry.

Estimated 5-year construction needs: None anticipated.