

NFRWQPA 2011 WATER QUALITY PLAN UPDATE
Minor Point Source Inventory Data

Operating Agency: *Pingree Park Campus,
Colorado State University*

Utility Plan Approved: 5/2011

CDPS Permit #: COG-620000

Permit Expires: 5/31/00 - Administrative Extension

CDPS Facility #: COG-620056

Description of Treatment Facilities: 10,000 gpd extended aeration activated sludge plant, with mixed media filtration.

Treatment Facility Location: SW ¼, SW ¼, Section 16, T7N, R73W

Discharge Location: Groundwater, leach field in the SW ¼, SW ¼, Section 16, T7N, R73W, in the South Fork of the Cache la Poudre River alluvium.

Stream Segment Classification: NA

Service Area Population: Current number of beds available on the campus is 275. With expansions in the future this number could go to 336 beds. The dining hall is, and will continue to be, the limiting factor in campus occupancy and water usage. During 2009 and 2010 a maximum number of 200 people per day were served at the dining hall. With future expansions, this number could be increased by 61 people per day with extend dining hours and rotations.

Capacities:

	Design Capacity	Existing Load
Flow (mgd)	0.010	0.008272
Organic (lbs/day BOD ₅)	100	Not available

Treatment level: The expanded facility was designed based on Preliminary Effluent Limits received from CDPHE in November 2009.

Estimated 5-year construction needs: In 2011 NFRWQPA recommended approval of a Site Application that would expand the capacity of the facility to 0.020 mgd. This capacity will serve the buildings currently connected to the central treatment system as well as additional building that are currently not connected. In addition, the improvements will reduce the total inorganic nitrogen and coliform in the effluent allowing for the facility to consistently meet permit limits. Modifications will include an anoxic chamber for nitrate removal and an ultraviolet disinfection unit.