

NFRWQPA 2011 WATER QUALITY PLAN UPDATE
Major Point Source Inventory Data

Operating Agency: *City of Evans*

Utility Plan Approved: 7/2011

CDPS Permit #: Evans: CO-0020508
 Hill-N-Park: CO 0047287

Permit Expires: 9/30/2013
 9/30/2013

Description of Treatment Facilities: Each plant has influent headworks, two aerated lagoons, polishing pond, chlorination, and dechlorination. The Evans facility also has standby power.

Treatment Facility Location: Evans: SE ¼, Section 20, T5N, R65W. Hill-N-Park: NW ¼, NW ¼, Section 36, T5N, R66W.

Discharge Location: Evans: COSPMS01b, South Platte River Segment 1b, SE ¼ of Section 20, T5N, R65W. Hill-N-Park: Unnamed ditch tributary to South Platte River, NW ¼ of Section 36, T5N, R66W.

Stream Segment Classification: Class 2 Warm Water Aquatic Life, Recreation Class E, Water Supply, and Agriculture.

Service Area Population:

	Existing	2015	2020	2025	2030
Total	21,746	26,246	33,246	38,246	41,985

Capacities:

Evans WWTP	Design Capacity	Existing	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd)	1.2	1.230	1.254	1.277	1.355	1.432	currently	currently
Organic (lbs./day BOD ₅)	2,772	2,874	2,929	2,984	3,165	3,346	currently	currently

Hill-N-Park WWTP	Design Capacity	Existing	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd)	0.5	0.491	1.22	1.949	2.435	2.902	currently	currently
Organic (lbs./day BOD ₅)	1,000	1,134	2,844	4,554	5,667	6,780	currently	currently

Biosolids treatment and disposal: Biosolids are removed and disposed of on an approximate schedule of 5-7 years.

Treatment level: The degree of treatment required and effluent limitations are outlined in Permit #CO-0020508 and #CO-47287.

Estimated 5-year construction needs: To meet short and long term needs at the Evans facility the City will convert the polishing pond to an aerated complete mix reactor, and add clarification and return flows. The disinfection system will also be converted to UV. Interim improvements for the Hill-N-Park facility include re-rating to 0.99 mgd. Long term improvements for this facility include converting the existing aeration lagoon system into an aerated and complete mix bioreactor and converting the disinfection system to UV. This would include a capacity increase to 3 mgd. As part of the utility planning process, a number of collection system improvements have also been identified.