



Bear Creek Watershed Association

Wastewater Treatment Facility Information Sheet 07

Aspen Park Metropolitan District

Facility: Aspen Park Metropolitan District	
TYPE OF PERMIT	Domestic – Minor Municipal, Mechanical Plant, New
Permit Number:	Old Number CO-0631016; Changed to CO-000001.
Permit Issue Date	9/12/2012
Permit Expire Date	31-Oct-17
Facility Location:	Aspen Park MD wastewater treatment plant located at 25517 Conifer Road, Conifer, CO 80433, in the NE 114 of the SW 114 of S12, T6S, R71W; at 39.544° latitude North and 105.286° longitude West
SIC Code:	4952 Sewerage Systems
Facility Classification:	Class B per section 100.9.2 of the regulations for Water and Wastewater facility Operator Certifications requirements
Facility Hydraulic Capacity:	Based on Site Approval 4683, the design capacity of this domestic wastewater treatment works is 0.025 million gallons per day (MGD) for hydraulic flow (30-day average)
Facility Organic Capacity:	104 lbs. BOD5 per day for organic loading (30-day average)
Treatment Works:	The facility consists of a microstrainer and bar screen, equalization basin, anoxic basin, Zenon membrane, and then UV disinfection with the discharge then going to exfiltration gallery's #1 and #2. Any flow not absorbed in the exfiltration basins will then be discharged to South Turkey Creek.
Major Changes to Treatment Works	The Aspen Park MD WWTF had an existing permit (COX0046591) to discharge solely to groundwater. However, the exfiltration galleries for the groundwater discharge were not able to keep up with the effluent flows to the WWTF. The district intends to continue using the exfiltration galleries to the extent possible to fulfill groundwater augmentation requirements while discharging any water to South Turkey Creek that is not exfiltrated by these galleries. Therefore, the district added a new discharge point to surface water (e.g. South turkey Creek). This new discharge point is a reviewable segment so antidegradation considerations apply to this new surface water discharge point. The district worked with the Division on an Alternatives Analysis (AA) as outlined and explained in the Preliminary Effluent Limitations for the new discharge to South Turkey Creek. To protect all receiving waters the effluent limits in this permit is protective of both groundwater, and WQBELs and ADBELs for surface water in South Turkey Creek.

Aspen Park Metropolitan District

Lift Stations:	There are no lift stations in the service area.
Service Areas:	The Aspen Park MD treats domestic sewage from the King Soopers shopping center area. See BCWA Policy 9 - Aspen Park Wastewater Strategy for defined service area.
Compliance Schedules	Install Influent Monitoring, August 31, 2013
Industrial Pretreatment Program	See permit requirements
2014 Service Area Population Estimate:	11 EQRs. Retail, 11 businesses (150 non-transients and 1,500 Transients/day, yearly average)
2035 Service Area Population Estimate:	South Turkey Creek Regional Plant operated by the Aspen Park Metropolitan District (Wastewater Utility Plan November 2004 and February 2008). This plant can expand to serve all viable commercial interest in the South Turkey Creek drainage, Aspen Park area.
2014 Average Daily Effluent Treated:	0.014 MGD
Plant Expansion:	Defined in wastewater utility plan with expectation to expand to 0.05 MGD before 2035. None planned in next five-years.
Discharge Point:	Groundwater and surface water discharge (South Turkey Creek); 001A following disinfection and prior to mixing with groundwater or surface receiving waters 39° 32' 34.10" N, 105° 17' 8.94"W. 002A for effluent flow only, following exfiltration galleries and prior to mixing with surface receiving waters.
Waterbody Identification:	South Turkey Creek and Groundwater
Receiving Water Designation (Segment):	COSPBE06a, South Turkey Creek; Turkey Creek system, including all tributaries and wetlands, from the source to the inlet of Bear Creek Reservoir, except for specific listings in Segment 6b.
Receiving Water Classification (Segment):	Aq Life Cold 2, Recreation E, Water Supply, Agriculture
Threatened and Endangered Species	None
Control Regulation #74	Because the discharge from this facility ultimately impacts Bear Creek Reservoir, it is subject to the Bear Creek Control Regulation, Regulation 74. This regulation imposes a total phosphorus concentration limitation of 1.0 mg/l on all dischargers in the watershed. In addition, the regulation specifies a mass limitation for dischargers of record.
Control Regulation #74 Wasteload Allocation	Cumulative annual limitation is 40 pounds of total phosphorus
Control Regulation #74 Total Phosphorus Limit	0.5 mg/l as monthly average
303(d) Listing Regulation #93	None
Temporary Modifications	None
Water Quality Pollutants of Concern	Phosphorus, nitrogen, temperature, ammonia
Water Quality Assessment	WQCD 12-28-2011 Assessment completed for PEL200172, Revised effluent limitations for the Aspen Park Metropolitan District WWTF based on an Alternatives Analysis for the District for a surface water discharge to South Turkey Creek, and continuing discharge to groundwater. WQCD Fact Sheet available.
BCWA Factsheets	BCWA Factsheet 26 BCW Demographics, BCWA Factsheet 41 Wastewater Demographics
Web Site	Aspenparkmetropolitandistrict.org

Aspen Park Metropolitan District

