



Bear Creek Watershed Association
Wastewater Treatment Facility Information Sheet 06

Forest Hills Metropolitan District

Facility: Forest Hills Metropolitan District	
TYPE OF PERMIT	Domestic – Minor Municipal, Mechanical Plant
Permit Number:	Permit No. CO-0037044
Permit Issue Date	4/24/2007
Permit Expire Date	8/1/2012 (Administrative extension)
Facility Location:	NE 1/4, SW 1/4, Section 17, T4S, R70W; 39° 42' 09" N, 105° 15' 07" W
SIC Code:	4952
Facility Classification:	Class C per Section 100.5.2 of the Water and Wastewater Facility Operator Certification Requirements
Facility Hydraulic Capacity:	0.05 million gallons per day (MGD) for hydraulic flow (30-day average)
Facility Organic Capacity:	96 lbs. BOD ₅ per day for organic loading (30-day average)
Treatment Works:	Existing Plant: Ultrasonic INF flow meter, bar screen, 50K Fluidyne SBR plant, EFF tank/ with pumps to discharge, chlorination, dechlorination, ultrasonic EFF meter. Sludge removal via pumping ISAM tank of SBR. As Defined in Permit: The existing WWTP is located at on the northeast corner of the service area. The current Discharge Permit is valid until August 31, 2012. The rated capacity is 50,000 gpd and is currently receiving approximately 20,000 gpd. The following summary of the treatment components are based on the Discharge Permit, operating documents and field observations. Provided below is a summary of the treatment process: 1. Raw sewage screen, 2. Equalization tank with a single discharge pump, 3. Anaerobic tank (1,100 gallon), 4. Anoxic tank (1,100 gallon), 5. Rotating Biological Contactor (RBC), 6. Clarifier, 7. Disinfection, 8. Chlorine Contact Chamber, 9. Parshall flume, 10. Dechlorination, 11. Discharge, 12. Digester
Lift Stations:	The District has two lift stations: Lift Station #1 and the Panorama Lift Station. Both service a small portion of the collection system and discharge into a gravity sewer line that flows to the existing WWTP. The existing sewer lines are adequately sized to convey current average day and peak hour flows. It consists of 8" PVC lines and two forces mains, one from each lift station.
Service Area:	It is comprised of approximately 145 single-family residential homes. The District does not have any multi-family residential, office, school or commercial uses. It does have one small park area. there are no future plans to expand the service area boundary beyond its current limits. There are approximately five vacant lots within the District that could be developed.

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Compliance Schedules	TRC, ammonia and phosphorous; no longer entered into trade agreement for Total Phosphorus; some compliance problems with new plant at start-up, now corrected.
Industrial Pretreatment Program	None
2014 Service Area Population Estimate:	375 (150 Taps served)
2035 Service Area Population Estimate:	400 (Limited taps left and no plans for expansion)
2014 Average Daily Effluent Treated:	0.021 MGD
Plant Expansion:	None planned; New treatment facility.
Discharge Point:	Outfall 001A, following disinfection and prior to mixing with the receiving stream.
Waterbody Identification:	Mt. Vernon Creek
Receiving Water Designation (Segment):	4a, All tributaries to Bear Creek, including all wetlands, from the outlet of Evergreen Lake to the confluence with the South Platte River, except for specific listings in Segments 5, 6a, and 6b.
Receiving Water Classification (Segment):	Aq Life Warm 2, Recreation E, Water Supply, Agricultural
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
Control Regulation #74 Wasteload Allocation	Cumulative annual limitation is 80 pounds of total phosphorus
Control Regulation #74 Total Phosphorus Limit	1.0 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 9-11-2012 completed for Bear Creek, Troublesome Gulch, Mount Vernon Creek, and an unnamed tributary to Bear Creek, near the Evergreen Metropolitan District Wastewater Treatment Facility (WWTF), Bear Creek Cabins WWTF, Kittredge Sanitation and Water District (S&WD) WWTF, West Jefferson County Metro District WWTF, Genesee Water and Sanitation District WWTF, the Forest Hills Metropolitan District WWTF, and the Town of Morrison WWTF.
BCWA Factsheets	BCWA Factsheet 26 BCW Demographics, BCWA Factsheet 41 Wastewater Demographics
Web Site	http://www.fhmd.net/

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