



WASTEWATER TREATMENT PLANTS

Fact Sheet 31 Total Phosphorus TMDLs 2015

Update June 7, 2016

The Bear Creek Control Regulation #74 (5 CCR 1002-74) establishes a total wasteload allocation of effluent phosphorus (TMDL)

The Bear Creek Watershed Association protects and restores water and environmental quality within the Bear Creek Watershed from the effects of land use.

The total current wasteload allocation for all wastewater treatment facilities in the Bear Creek Watershed is 5,255 pounds per year. Each individual discharger in the Bear Creek Watershed is limited to an annual wasteload poundage of total phosphorus, except as provided through trading provisions. Wastewater discharges cannot exceed a total phosphorus effluent concentration of 1.0 mg/l as a 30-day average. All wastewater treatment facilities in the watershed are required to meet the 1.0 mg/l total phosphorus concentration effluent limitation.

Clear Creek County
 Jefferson County
 City of Lakewood
 Town of Morrison
 Aspen Park Metropolitan District
 Brook Forest Inn
 Conifer Sanitation Association
 Conifer Metropolitan District
 Denver Water Department
 Evergreen Metropolitan District
 Forrest Hills Metropolitan District
 Genesee Sanitation & Water District
 Geneva Glen
 Jefferson County School District
 Kittredge Water & Sanitation District
 Tiny Town Foundation, Inc.
 West Jefferson County Metropolitan District
 Evergreen Trout Unlimited
 U.S. Army Corps of Engineers

The Bear Creek Watershed total maximum daily load (TMDL) was set by the WQCC as an not to exceed annual total phosphorus load limit designed to achieve a 75 percent or greater reduction of total phosphorus from the combined set of wastewater treatment plants effluent discharges from 1991 levels. The effluent total phosphorus load reductions from the treatment plants has exceeded 90%.

"Wasteload Allocation" means the portion of receiving water's assimilative capacity allocated to a specific point source (s) of pollution.

Bear Creek Watershed Wastewater Treatment Plants by Drainage Basin	WQCC Adopted Phosphorus WLA Pounds/year	2015 Discharged Phosphorus Pounds/year	% Allocation Used by WWTF
Bear Creek Drainage			
Jefferson County Schools – Mt. Evans Outdoor Lab	20	4.05	20%
Brook Forest Inn	5	0.76	15%
Evergreen Metropolitan District	1,500	430.5	29%
West Jefferson County Metro District	1,500	330.03	22%
Kittredge Sanitation and Water District	240	77.52	32%
Genesee Water and Sanitation District	1,015	249.31	25%
Forest Hills Metropolitan District	80	47.99	60%
Town of Morrison	600	79.69	13%
<i>Bear Creek Total</i>	4,960	1,219.9	25%
Turkey Creek Drainage			
Conifer Metropolitan District	40	5.2	0%
Conifer Sanitation Association	40	1.2	3%
Aspen Park Metropolitan District	40	7.1	18%
Jefferson County Schools - Conifer High School	110	1.83	2%
Geneva Glen ¹	5	Land Applied	0%
Bear Creek Development Corp. - Tiny Town ²	5	Hauling Columbia	0%
The Fort ³	18	No Monitoring	0%
<i>Turkey Creek Total</i>	258	15.3	6%
Total Operational Facilities Lbs./year	5,218	1,235.18	24%
Reserve Pool	37	0	0%
Total Phosphorus Wasteload lbs./year	5,255		

1-Geneva Glen treatment system land applies, No Reported Pounds for Lysimeters

2-Records from Columbia Sanitary show they hauled 54,900 gallons in the 2015 operation season

3-Permit; No established monitoring, changing to OWTS, no longer a member

Bear Creek Cabin changed to OWTS, pounds placed in reserve pool, no longer a member

Singing River Ranch Changed to OWTS, pounds placed in reserve pool, no longer a member