

City of North Bend Wastewater Treatment Plant



The City of North Bend's Wastewater Treatment Plant is located on airport property just below B.L.M. It is designed to treat 2 million gallons per day of dry weather flows. The plant can handle up to 10 million gallons per day during wet weather.

Currently the treatment plant has average removal rates of 94% of the Biochemical Oxygen Demand and 97% of the Total Suspended Solids that enter the treatment plant. DEQ permit requires a minimum of 85% removal.

Treatment process's include the following:

Preliminary treatment: Rag removal, sediment (sand & rocks etc) removal, flow measurement, chemical addition, and sampling.

Primary treatment: Primary clarification for removal of settleable solids and grease.

Secondary Treatment: Activated Biomass that feeds on organic matter reduces the amount of organic matter in the wastewater and converts it to a more settleable form.

The activated biomass settles in the secondary clarifiers. In the clarifiers the settled biomass is partially wasted to aerobic digesters and partially returned to the aeration basins to feed on organic matter entering the basins. Clarified water leaves the secondary clarifier and enters the chlorine contact chamber for disinfection prior to discharge into Coos Bay.

Solids Handling:

All wasted sludge and greases are pumped to the aerobic digesters where continued reduction of organic matter occurs. The biosolids are in the digesters for 30 to 60 days then transferred to a 2 million gallon facultative sludge lagoon.

1.2 million gallons of biosolids were hauled and applied to forestland and grazing land last year.

Collection System:

There are 50 miles of sewer lines and 9 pumping stations that carry the used wastewater of the community to the treatment plant.

City Staff perform the following tasks:

- High Pressure Cleaning of Sewer Lines
- Video taping of sewer lines.
- Repair and replacement of sewer lines.
- Rodent control.

Treatment Plant:

- Laboratory – permit testing and process control testing
- Operations & Maintenance of equipment and buildings
- Biosolids disposal and application to forest land.
- Pretreatment program – monitoring of commercial business's

City of North Bend
NPDES Permit
Department of Environmental Quality

June 1st. Through October 31

Parameter	Average Effluent Concentrations - mg/l		Monthly average lbs/day	Weekly Average lbs/day	Daily Maximum
	Monthly	Weekly			
Biochemical Oxygen Demand	20	30	367	550	734
Total Suspended Solids	20	30	367	550	734
Fecal Coliform	200 colonies /100 mls	400 colonies /100 mls			

November 1st. Through May 31st.

Parameter	Average Effluent Concentrations - mg/l		Monthly average lbs/day	Weekly Average lbs/day	Daily Maximum
	Monthly	Weekly			
Biochemical Oxygen Demand	30	45	550	826	1100
Total Suspended Solids	30	45	550	826	1100
Fecal Coliform	200 colonies /100 mls	400 colonies /100 mls			

Treatment Removal Efficiencies for BOD & TSS = minimum 85%

pH 6 - 9

No wastewater overflows or by passes.

Current Permit Testing Results for: _____ 2001

BOD _____ mg/l _____ lbs/day _____ % removal

TSS _____ mg/l _____ lbs/day _____ % removal

Fecal Coliform _____ colonies/100 mls.

PH _____

Chlorine usage _____ lbs/day.

Chlorine residual _____ mg/l

Chlorine dosage _____ mg/l

Projects and Accomplishments.

Sewer pipe cleaned _____ ft.

Sewer pipe video taped _____ ft.

Sewer lined

Call outs _____ #

Gallons treated _____

Biosolids hauled & applied _____ gallons.

Projects _____

