

Willamette Mercury TMDL

Summary of TMDL Components

Mercury Water Quality Criterion	0.040 mg/kg fish tissue						
Total Mercury TMDL Water Column Target	0.14 ng/L						
Total Mercury Loading Capacity	42.17 g/day or 15.40 kg/year						
SOURCE SECTORS	EXISTING LOADS			ALLOCATIONS			
	g/day	kg/year	Relative Contribution to Total Load	Percent Reduction	g/day	kg/year	Relative Allocation of Load Capacity
General Nonpoint Source and Background¹ Captures: Forestry, Agriculture, Water Impoundments, Water Conveyance Entities, Non-Permitted Urban Stormwater, Atmospheric Deposition	341.74	124.82	94.5%	88% ²	28.87	10.54	68.46%
Non-Permitted Urban Stormwater				75%	0.63	0.23	1.5%
Atmospheric Deposition				11%	5.22	1.91	12.38%
Legacy Metals Mines	4.00	1.46	1.1%	95%	0.20	0.07	0.5%
NPDES Wastewater Point Source Discharges	4.44	1.62	1.2%	10%	4.00	1.46	9.5%
NPDES MS4 Stormwater Point Source Discharges	11.31	4.13	3.2%	75%	2.83	1.03	6.7%
Reserve Capacity	NA	NA	NA	1% ³	0.42	0.15	1.0%
Margin of Safety	NA	NA	NA	implicit	implicit	implicit	implicit
TOTALS	361.49	132.03	100%	NA	42.17	15.39	100%

NOTES:

¹ Combines the following source categories from the TMDL Technical Support Document: Sediment Erosion, Surface Runoff, Groundwater, Atmospheric Deposition to Water

² There is an additional 3.5% reduction from General Nonpoint Source and Background that results from the 11% decrease in Atmospheric Deposition, which reduces the mercury in precipitation that generates surface runoff. The additional reduction is calculated from the output of the Mass Balance Model.

³ Reserve Capacity is not allocated as a percent reduction, rather an additional 1 percent reduction is required from atmospheric deposition, which will be used for any needed reserve capacity.