Numeric Nutrient Criteria and Limits of Wastewater Treatment Technology

Parameter	Typical Municipal Raw Wastewater, mg/l	Secondary Effluent (No Nutrient Removal), mg/l	Advanced Wastewater Treatment			Typical In-Stream Nutrient Criteria, mg/l
			Typical Biological Nutrient Removal (BNR), mg/l	Enhanced Nutrient Removal (ENR), mg/l	Limits of Treatment Technology[1], mg/l	
Total Phosphorus	4 to 8	4 to 6	1	0.25 to 0.50	0.05 to 0.07	0.02 to 0.05
Total Nitrogen	25 to 35	20 to 30	10	4 to 6	3 to 4	0.300 to 0.600

[1] *Ignoring Considerations of Variability and Reliability of Wastewater Treatment Performance*

Water Environment Research Foundation (WERF) "*Nutrient Management: Regulatory Approaches to Protect Water Quality, Volume 1 – Review of Existing Practices,*" Project #NUT R1R06

Las Vegas, NV (TP 0.170 mg/l)

Clean Water Services, OR (TP 0.[illegible] mg/l)

Lacy, Olympia, Tenmile Tenmile Co (LOTT), WA (TP 1 mg/l)

Coeur d'Alene, ID (TP 0.[illegible] mg/l)

0003865