Water Quality Standards based on TMDL Requirements

Table 1-1 (a): Water Quality Standards

Parameter	Low Flow (summer season) May 1-Nov 30	High Flow (winter season) Dec 1-April 30
Ammonia as Nitrogen	0.25 mg/l	1.0 mg/l
Biological Oxygen Demand (BOD)	3.0 mg/l	2.5 mg/l
Dissolved Oxygen	8.0 mg/l or 90% saturated[3]	11 mg/l or 90% saturated[3]
Total Phosphorus	0.08 mg/l	-

Table 1-2 (b): Water Quality Standards

Parameter	Low Flow (summer season) May1-Nov 30	High Flow (winter Season) Dec 1-April 30
Fecal Coliform [4] E. coli	200 cfu[1] (median value) 10%samples > 400 cfus 126 E. coli/100 ml average 406 E. coli/100 ml absolute June 1- Sept. 30	200 cfu[1] (median value) Same values Oct. 1 - May 31
Temperature*	64º F[2]	
Sedimentation	Narrative Standard	Narrative Standard
Habitat Modification	No numerical standard	No numerical standard
Flow Modification	No numerical standard	No numerical standard

1. CFU = colony forming unit (Current Standard is for E. coli, 126 CFU/100 ml)
2. 7 day consecutive average high temperature. Temperature standard for *salmonid fish rearing* is from June1 - September 30
3. Dissolved Oxygen Standard, April 1 - September 30 (summer), October 1 - May 31 (winter)
4. Fecal coliform standard was changed to E. coli in 1996.

*"Unless superseded by the natural conditions criteria…" currently the temperature standard is 55.4 F for streams identified as having salmon and steelhead spawning use (October 15 - May 15), and 64.4 F for streams identified as having salmon and trout rearing and migration (May 16 – October 14). (OAR Chapter 340, Division 41-0271figures 271A and 271B).

Parameters of Concern for Bear Creek and Its Tributaries

The following table depicts which stream segments in the Bear Creek Watershed are listed and for what parameters. Standards in the table are based on Oregon Administrative Rules Chapter 340, Division 041, OWEB recommendations, and other sources.

Stream Segments (All listed streams are from mouth to headwaters, unless otherwise stated)	**Parameters Covered in 2002 303(d) list**				
	Fecal Coliform	Temperature	Sedimentation	Dissolved Oxygen	pH
Ashland Creek (Mouth to Ashland City)	Y				
Ashland Creek (Mouth to Ashland STP)	Y				
Bear Creek (Mouth to Neil Creek)	Y	S			
Butler Creek	F W Sp	S		Y	
Carter Creek		S			
Coleman Creek	Y	S		Y	
Crooked Creek	Y				
Emigrant Creek (mouth to dam)		S			
Emigrant Creek (dam to Green Mtn. Crk)		S			
Gaerky Creek		S			
Galls Creek		S			
Griffin Creek	Y	Y		F W Sp	
Hobart Creek		S			
Jackson Creek	Y	Y			
Larson Creek	Y	S		F W Sp	Y
Lazy Creek	Y	S			F W Sp
Lone Pine Creek		S			
Meyer Creek	Y	S			
Neil Creek (mouth to I-5)	Y	Y			
Reeder Reservoir			Y		
Tyler Creek		S			
Wagner Creek		S			
Walker Crk (Horn Gulch to headwaters)		F W Sp			

Y=*year round* **S**=*summer June 1-September 30*

F W Sp = *fall/winter/spring October 1-May 31*