Appendix D. Drinking Water Standards

			Standards in mg/L				# Total Exceedances			Typical Range in
Parameter	Health Hazards	Effects Above Secondary Standard	MCL	Secondary Standard	WA State Trigger	WA State Reporting Limit	MCL	Secondary Standard	WA State Trigger	SVRP Aquifer (in mg/L)
Arsenic (As)	Skin damage, circulatory system problems, increased risk of cancer		0.010		0.010	0.001	1		1	0.002 - 0.0036
Cadmium (Cd)	Kidney damage		0.005		0.005	0.001	0		0	ND
Chromium (Cr)	Allergic dermatitis		0.10		0.10	0.007	0		0	ND
Fluoride	Bone disease, mottled teeth in children	Tooth discoloration	4.00	2.00	2.00	0.20	0	0	0	ND
Mercury (Hg)	Kidney damage		0.002		0.002	0.0002	0		0	ND
Nitrate	Blue baby syndrome in infants		10.00		5.00	0.50	0		33	1.1 - 2.5
Copper (Cu)	Gastrointestinal distress, kidney or liver damage	Metallic taste, blue-green staining	1.3*	1.00		0.02	0	0		ND - 0.0011
Lead (Pb)	Delays in development in children, kidney problems in adults		0.015*			0.001	4			ND
Iron (Fe)		Metallic taste, rusty color, staining		0.30		0.10		188		ND - 0.0181
Chloride		Salty taste		250.00		2.00		0		2.6 - 7.1
Manganese (Mn)		Bitter metallic taste, black or brown color, staining		0.05		0.01		40		ND
Sulfate		Salty taste		250.00		2.00		0		9.3 - 14.8
Zinc (Zn)		Metallic taste		5.00		0.20		0		ND
	*Action levels under Lead and Copper Rule									

Defininitions

MCL: Maximum Contaminant Level; highest level allowed in drinking water to protect human health. Concentrations above this level are a violation of drinking water standards.

Action Level: for lead and copper; concentrations above this level triggers treatment or other requirements for drinking water purveyors

Secondary Standard: non-mandatory guidelines set by the EPA to protect drinking water aesthetic qualities such as taste, odor and color

WA State Trigger: a level set by the WA State Dept. of Health; detections above this level trigger additional sampling by drinking water purveyors

WA State Reporting Limit: concentrations above this level are required to be reported to WA State Dept. of Health

ND: not detectable, occurs at concentrations below the analytical reporting limit