

INORGANIC ANALYSES 2008

ANALYTE	UNITS	LOD	MCL	Min	Median	Mean	Max
ALKALINITY	(mg/l)	10		273	302	306	345
ALUMINUM	(ug/l)	0.2		0.44	0.79	1.3	8.1
ANTIMONY	(ug/l)	0.2	6	<0.2	<0.2	<0.2	<0.2
ARSENIC	(ug/l)	0.2	10	<0.2	0.25	0.31	1.1
BARIUM	(ug/l)	0.2	2000	8.4	19	24	57
BERYLLIUM	(ug/l)	0.2	4	<0.2	<0.2	<0.2	<0.2
CADMIUM	(ug/l)	0.2	5	<0.2	<0.2	<0.2	<0.2
CALCIUM	(mg/l)	0.01		56	69	73	97
CHLORIDE	(mg/l)	1.2		2.3	16	24	88
CHROMIUM	(ug/l)	0.2	100	<0.2	0.52	0.61	2.1
CONDUCTIVITY	umhos / cm	3		371	597	647	961
COPPER	(ug/l)	0.2	1300	1.5	3.5	6	42
FLUORIDE	(mg/l)	0.12	4	0.93	1.1	1.1	1.4
HARDNESS TOTAL (CaCO ₃)	(mg/l)	0.07		280	339	354	456
IRON	(mg/l)	0.0014		<0.0014	0.06	0.11	0.61
LEAD	(ug/l)	0.2	15	<0.2	0.21	0.32	0.86
MAGNESIUM	(mg/l)	0.011		34	41	42	52
MANGANESE	(ug/l)	0.2		<0.2	13	19	74
MERCURY	(ug/l)	0.02	2	<0.02	<0.02	<0.02	0.03
NICKEL	(ug/l)	0.2	100	0.30	0.79	1.0	3.9
NITROGEN-Nitrate	(mg/l)	0.12	10	<0.12	0.64	1.2	3.6
NITROGEN-Nitrate&Nitrite	(mg/l)	0.18		<0.18	0.64	1.2	3.6
NITROGEN-Nitrite	(mg/l)	0.06	1	<0.06	<0.06	<0.06	<0.06
pH LAB	s.u.			7.5	7.6	7.6	7.9
SELENIUM	(ug/l)	0.2	50	<0.2	0.42	0.49	1.0
SILVER	(ug/l)	0.2		<0.2	<0.2	<0.2	<0.2
SODIUM	(mg/l)	0.027		2.2	7.1	10	31
SULFATE	(mg/l)	1.2		4.1	17	20	56
THALLIUM	(ug/l)	0.2	2	<0.2	<0.2	<0.2	0.27
TOTAL SOLIDS	(mg/l)	6		298	404	423	618
ZINC	(ug/l)	0.2		4.4	23	22	38

Results are for all wells except UW 10

Shaded boxes correspond to regulated contaminants

NOTE: This table shows detections for aluminum, arsenic, lead, mercury, nickel, selenium, and thallium, substances that have not been detected in previous years. However, rather than showing worsening water quality, these detections represent more sensitive analytical equipment capable of detecting smaller concentrations of trace metals than was previously possible. For example, the previous level of detection (LOD) for aluminum was 20 micrograms per liter (ug/L) compared with the current LOD of 0.2 ug/L. The LOD for many of the other trace metals has been lowered from 1 ug/L to 0.2 ug/L. Nearly all of the detections are within this range. Nevertheless, even at the more precise level of detection, some metals were still not detected. Mercury was found at a single well, thallium at two wells, and lead at twelve wells. As the ability to detect trace contaminants continues to improve, the term "not detected" will be replaced by an increasingly smaller number.