

WELL SITE CHEMICAL ANALYSIS DECEMBER 2006

Calculated Parameters	Well #5	Well #7	Well #8	Filter #2	MAC or esthetic objective
Hardness (CaCO ₃)	210	320	290	310	AO 500 mg/L
Ion Balance	0.96	0.96	0.92	0.99	
Conductivity	425	653	596	579	... 2000 uS/cm
Week Acid Dissoc. Cyanide (Cn)					
PH	7.97	8.11	8.15	8.14	6.5 to 8.5
Total Dissolved Solids	242	383	356	355	≤500 mg/L
Anions					
Alkalinity (PP as CaCO ₃)	<0.5	<0.5	<0.5	<0.5	30 to 500 mg/L
Alkalinity (Total as Ca CO ₃)	163	265	253	236	< 500 mg/L
Bicarbonate (HCO ₃)	199	324	309	288	< 600 mg/L
Carbonate (CO ₃)	<0.5	<0.5	<0.5	<0.5	350 mg/L
Dissolved Chloride (CL)	1.3	8.5	5.8	6.2	250 mg/L
Dissolved Fluoride (F)				0.30	MAC 1.5 mg/L
Hydroxide (OH)	<0.5	<0.5	<0.5	<0.5	
Dissolved Sulfate (SO ₄)	62.9	86.4	80.0	84.8	AO ≤ 500 mg/L
Nutrients					
Total Ammonia (n)				0.02	
Total Kieldahl Nitrogen	0.05	0.07	0.09	0.10	≤3.0 mg/L
Dissolved Nitrate (n)	0.097	0.078	0.287	0.195	MAC 45 mg/L
Nitrate plus Nitrite (n)	0.097	0.78	0.287	0.195	MAC 3.2 mg/L
Dissolved Nitrite (n)	<0.003	<0.003	<0.003	<0.003	1 mg/L
Total Organic Carbon	0.6	1.4	1.0	1.8	4 to 20 mg/L
Physical Properties					
True Color				<5	≤15 TCU
Turbidity				0.2	AO ≤ 5 NTU MAC 1 NTU
Elements					
Total Aluminum (Al)	<0.04	<0.04	<0.04	0.010	≤100 ug/L
Total Antimony (Sb)	<0.0002	<0.0002	<0.0002	<0.0002	
Total Arsenic (As)	<0.001	<0.001	<0.001	<0.0002	IMAC 0.4000
Total Barium (Ba)	0.7	0.06	0.05	0.07	MAC 1.0mg/L
Total Beryllium (Be)	<0.001	<0.001	<0.001	<0.001	BQ/L025 mg/L
Total Boron (B)	<0.02	0.02	0.03	0.02	IMAC 5 mg/L
Total Cadmium (Cd)	<0.0002	<0.0002	<0.0002	0.04	0.005 mg/L
Total Calcium (Ca)	66.1	101	98.9	89.8	200 mg/L (500 mg/L0
Total Chromium (Cr)	<0.01	<0.01	<0.01	0.003	MAC 0.05 mg/L
Total Cobalt (Co)	0.0004	0.0006	0.0006	0.0006	
Total Copper (Cu)	0.0014	0.0020	0.0017	0.0082	AO ≤1.0 mg/l
Total Iron (Fe)	<0.06	<0.06	<0.06	0.82	AO 0.3 mg/L
Total Lead (Pb)	<0.0002	<0.0002	<0.0002	0.0009	MAC 0.0010 mg/L
Total Lithium (Li)	<0.02	<0.02	<0.02	<0.02	Not Specified
Total Magnesium (Mg)	14.9	23.0	21.2	20.2	MAC 30 mg/L
Total Manganese (Mn)	<0.004	0.006	<0.004	0.012	≤ 0.05 mg/L
Total Mercury (Hg) ug/L				<0.05	MAC 0.001mg/l
Total Molybdenum	0.0008	0.0005	0.0006	0.0007	70BQ/L

Total Nickel (Ni)	0.0037	0.0060	0.0058	0.0091	
Total Phosphorus	<0.1	<0.1	<0.1	<0.1	
Dissolved Potassium (K)	0.6	1.2	1.2	1.0	≤1000 mg/L
Total Selenium (Se)	0.001	<0.001	0.001	<0.0002	MAC 0.01 mg/L
Total Silicon (Si)	1.7	2.4	2.7	2.3	50 affects NTU
Total Silver (Ag)	<0.0001	<0.0001	<0.0001	<0.0001	Not Specified
Total Sodium (Na)	4.0	12.4	13.1	10.3	≤ 300 mg/L
Total Strontium (Sr)	0.24	0.36	0.35	0.33	300 BQ/L
Total Sulphur (S)	20.8	28.7	27.3	26.2	
Total Thallium (Tl)	<0.0002	<0.0002	<0.0002	<0.0002	2000BQ/L
Total Tin (Sn)	<0.001	<0.001	<0.001	<0.001	
Total Titanium (Ti)	0.002	0.003	0.003	0.003	
Total Uranium (U)	0.0005	0.0008	0.0007	0.0007	0.02 mg/L
Total Vanadium (V)	<0.001	<0.001	<0.001	<0.001	
Total Zinc (Zn)	0.007	0.009	0.011	0.027	5 m/L
Total Zirconium (Zr)					100Bq/L
Miscellaneous					
Sulphide				<0.01	AO ≤ 0.05 mg/L
Cations					
Dissolved Calcium (Ca)	61.6	94.1	85.9	90.0	
Dissolved Magnesium (Mg)	14.2	21.7	18.7	19.9	
Dissolved Potassium (K)	0.5	1.0	0.9	1.1	
Dissolved Sodium (Na)	3.8	11.8	11.3	10.3	
Dissolved Iron (Fe)	<0.01	<0.01	<0.01	0.01	
Dissolved Manganese (Mn)	<0.004	0.006	<0.004	0.006	