

Metals, Hardness Testing

July 03, 2014

Maxxam ID		JZ8471	JZ8472	JZ8473		
Sampling Date		2014-07-03 8:00	2014-07-03 8:00	2014-07-03 8:40		
COC Number		08367831	08367831	08367831		
	UNITS	HOLLAND LAKE	STOCKING LAKE	CHICKEN LADDER	CDW/BC Guideline	Comments
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	4.17	11.5	6.96	0.50	OK
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	25	29.6	27.9	100	OK
Total Antimony (Sb)	ug/L	<.50	<0.50	<0.50	6	OK
Total Arsenic (As)	ug/L	0.15	0.11	0.10	5	OK
Total Barium (Ba)	ug/L	3.2	3.2	3.8	1000	OK
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10		
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0		
Total Boron (B)	ug/L	<50	<50	<50	500	OK
Total Cadmium (Cd)	ug/L	0.013	0.013	0.112	5	OK
Total Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	50	OK
Total Cobalt (Co)	ug/L	<0.50	<0.50	<0.50		
Total Copper (Cu)	ug/L	2.95	1.72	2.04	2	NOT OK
Total Iron (Fe)	ug/L	79	53	28	300 AO	OK
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	1	OK
Total Lithium (Li)	ug/L	<5.0	<5.0	<5.0		
Total Manganese (Mn)	ug/L	11.2	2.5	1.4	50 AO	OK
Total Mercury (Hg)	ug/L	<0.050	<0.050	<0.050	1	OK
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	73	
Total Nickel (Ni)	ug/L	<1.0	<1.0	<1.0		
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	2	OK
Total Silicon (Si)	ug/L	480	1510	1550		
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020		
Total Strontium (Sr)	ug/L	7.3	11.5	11.2	1.0	
Total Thallium (Tl)	ug/L	<0.050	<0.050	<0.050		
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0		
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0		
Total Uranium (U)	ug/L	<0.10	<0.10	<0.10		
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0		
Total Zinc (Zn)	ug/L	5.1	<5.0	<5.0	7.5	OK
Total Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50		
Total Calcium (Ca)	mg/L	1.24	3.72	2.09		
Total Magnesium (Mg)	mg/L	0.26	0.531	0.421		
Total Potassium (K)	mg/L	0.15	0.255	0.137		
Total Sodium (Na)	mg/L	0.758	1.2	1.15	< 200 AO	OK
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0		

Metals, Hardness Testing

Dec. 12, 2014

Maxxam ID		LH5919	LH5920	LH5921		
Sampling Date		2014-12-12 8:00	2014-12-12 8:00	2014-12-12 8:40		
COC Number		440549-01-01	440549-01-01	440549-01-01		
	UNITS	HOLLAND LAKE	STOCKING LAKE	CHICKEN LADDER	C,BC DW Guideline	Comments
Total Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	50	OK
Total Cobalt (Co)	ug/L	<0.50	<0.50	<0.50		
Total Copper (Cu)	ug/L	1.11	0.91	0.80	2	OK
Total Iron (Fe)	ug/L	267	46	41	300 AO	OK
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	1	OK
Total Lithium (Li)	ug/L	<5.0	<5.0	<5.0		
Total Manganese (Mn)	ug/L	26.9	2.8	<1.0	50 AO	OK
Total Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	1	OK
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	1	
Total Nickel (Ni)	ug/L	<1.0	<1.6	<1.0	1	Stocking is over
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	2	OK
Total Silicon (Si)	ug/L	954	1840	3180	100	OVER
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020		
Total Strontium (Sr)	ug/L	8.3	11.1	9.9	1.0	OVER
Total Thallium (Tl)	ug/L	<0.050	<0.050	<0.050		
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0		
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0		
Total Uranium (U)	ug/L	<0.10	<0.10	<0.10		
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0		
Total Zinc (Zn)	ug/L	115	<5.0	<5.0	7.5	Holland is over
Total Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50		
Total Calcium (Ca)	mg/L	1.88	3.79	1.99		
Total Magnesium (Mg)	mg/L	0.432	0.508	0.390		Stocking is over
Total Potassium (K)	mg/L	0.198	0.272	0.070		OVER
Total Sodium (Na)	mg/L	1.23	1.16	1.22	< 200 AO	OK
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0		