

Maxxam Job #: B688063
Report Date: 2016/10/14

District of Ucluelet
Client Project #: ANNUAL COMPREHENSIVE
Your P.O. #: 12268

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Maxxam ID					PS0454	PS0455	PS0456			
Sampling Date					2016/10/05 09:00	2016/10/05 08:45	2016/10/05 09:45			
COC Number					08422380	08422380	08422380			
	UNITS	MAC	AO	OG	U.C.C.	HELEN LIFT	FIREHALL	RDL	QC Batch	MDL
CONVENTIONALS										
Transmittance at 254nm	%T/cm	-	-	-	>97.7	>97.7	97.5	N/A	8424622	N/A
Misc. Inorganics										
UV absorbance (254nm)	AU/cm	-	-	-	<0.010 (1)	<0.010 (1)	0.011 (1)	0.010	8432350	0.010
ANIONS										
Nitrite (N)	mg/L	1	-	-	<0.0050 (2)	<0.0050 (2)	<0.0050 (2)	0.0050	8432764	0.0050
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	-	-	-	22.2	24.4	22.5	0.50	8424074	0.50
Nitrate (N)	mg/L	10	-	-	0.039	0.038	0.040	0.020	8424191	N/A
Misc. Inorganics										
Fluoride (F)	mg/L	1.5	-	-	0.037	0.036	0.035	0.010	8432542	0.010
Alkalinity (Total as CaCO3)	mg/L	-	-	-	22.9	25.2	22.9	0.50	8430067	0.50
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<0.50	<0.50	<0.50	0.50	8430067	0.50
Bicarbonate (HCO3)	mg/L	-	-	-	27.9	30.7	27.9	0.50	8430067	0.50
Carbonate (CO3)	mg/L	-	-	-	<0.50	<0.50	<0.50	0.50	8430067	0.50
Hydroxide (OH)	mg/L	-	-	-	<0.50	<0.50	<0.50	0.50	8430067	0.50
Anions										
Dissolved Sulphate (SO4)	mg/L	-	500	-	1.5	1.5	1.5	1.0	8431883	N/A
Dissolved Chloride (Cl)	mg/L	-	250	-	9.6	9.6	9.5	1.0	8431867	N/A
MISCELLANEOUS										
True Colour	Col. Unit	-	15	-	9.5 (2)	<5.0 (2)	7.7 (2)	5.0	8430195	5.0
Tannins and Lignins	mg/L	-	-	-	<0.10	<0.10	<0.10	0.10	8431865	0.10
Nutrients										
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.039 (2)	0.038 (2)	0.040 (2)	0.020	8432763	0.020
Physical Properties										
pH	pH	-	6.5:8.5	-	7.20	7.20	7.06		8430059	
Physical Properties										
Total Dissolved Solids	mg/L	-	500	-	46	46	40	10	8431015	1.0
Turbidity	NTU	see remark	see remark	see remark	0.20 (2)	0.11 (2)	0.30 (2)	0.10	8430141	0.10
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										
N/A = Not Applicable										
(1) Sample arrived to laboratory past recommended hold time.										
(2) Sample analysed past recommended hold time.										

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ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID					PS0454	PS0455	PS0456			
Sampling Date					2016/10/05 09:00	2016/10/05 08:45	2016/10/05 09:45			
COC Number					08422380	08422380	08422380			
	UNITS	MAC	AO	OG	U.C.C.	HELEN LIFT	FIREHALL	RDL	QC Batch	MDL
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	-	-	100	4.0	4.0	8.6	3.0	8431780	0.030
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	0.50	8431780	0.0020
Total Arsenic (As)	ug/L	10	-	-	0.11	<0.10	0.19	0.10	8431780	0.010
Total Barium (Ba)	ug/L	1000	-	-	<1.0	1.2	<1.0	1.0	8431780	0.0020
Total Beryllium (Be)	ug/L	-	-	-	<0.10	<0.10	<0.10	0.10	8431780	0.0030
Total Bismuth (Bi)	ug/L	-	-	-	<1.0	<1.0	<1.0	1.0	8431780	0.0010
Total Boron (B)	ug/L	5000	-	-	<50	<50	<50	50	8431780	50
Total Cadmium (Cd)	ug/L	5	-	-	<0.010	<0.010	<0.010	0.010	8431780	0.0020
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	<1.0	1.0	8431780	0.020
Total Cobalt (Co)	ug/L	-	-	-	<0.50	<0.50	<0.50	0.50	8431780	0.0030
Total Copper (Cu)	ug/L	-	1000	-	18.3	26.0	198	0.50	8431780	0.030
Total Iron (Fe)	ug/L	-	300	-	36	21	52	10	8431780	0.70
Total Lead (Pb)	ug/L	10	-	-	0.94	0.30	1.54	0.20	8431780	0.0010
Total Lithium (Li)	ug/L	-	-	-	<5.0	<5.0	<5.0	5.0	8431780	0.020
Total Manganese (Mn)	ug/L	-	50	-	17.4	9.0	25.3	1.0	8431780	0.030
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	<1.0	<1.0	1.0	8431780	0.0020
Total Nickel (Ni)	ug/L	-	-	-	<1.0	<1.0	<1.0	1.0	8431780	0.010
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	0.10	8431780	0.0060
Total Silicon (Si)	ug/L	-	-	-	4960	5260	5010	100	8431780	0.30
Total Silver (Ag)	ug/L	-	-	-	<0.020	<0.020	<0.020	0.020	8431780	0.0020
Total Strontium (Sr)	ug/L	-	-	-	17.4	20.0	17.5	1.0	8431780	0.0020
Total Thallium (Tl)	ug/L	-	-	-	<0.050	<0.050	<0.050	0.050	8431780	0.0010
Total Tin (Sn)	ug/L	-	-	-	<5.0	<5.0	<5.0	5.0	8431780	0.0050
Total Titanium (Ti)	ug/L	-	-	-	<5.0	<5.0	<5.0	5.0	8431780	0.30
Total Uranium (U)	ug/L	20	-	-	<0.10	<0.10	<0.10	0.10	8431780	0.0010
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	5.0	8431780	0.020
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	<5.0	12.0	5.0	8431780	0.050
Total Zirconium (Zr)	ug/L	-	-	-	<0.50	<0.50	<0.50	0.50	8431780	0.0080
Total Calcium (Ca)	mg/L	-	-	-	6.66	8.04	6.75	0.050	8424075	0.0010
Total Magnesium (Mg)	mg/L	-	-	-	1.36	1.05	1.37	0.050	8424075	0.00050
Total Potassium (K)	mg/L	-	-	-	0.273	0.273	0.266	0.050	8424075	0.0020
Total Sodium (Na)	mg/L	-	200	-	6.42	6.29	6.41	0.050	8424075	0.0010
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

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ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID					PS0454	PS0455	PS0456			
Sampling Date					2016/10/05 09:00	2016/10/05 08:45	2016/10/05 09:45			
COC Number					08422380	08422380	08422380			
	UNITS	MAC	AO	OG	U.C.C.	HELEN LIFT	FIREHALL	RDL	QC Batch	MDL
Total Sulphur (S)	mg/L	-	-	-	<3.0	<3.0	<3.0	3.0	8424075	1.0
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

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GENERAL COMMENTS

MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, October 2014.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)
It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:

1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC	Date	%					
Batch	Init	QC Type	Parameter	Analyzed			
				Value			
				Recovery			
				UNITS			
				QC Limits			
8430059	MM3	Spiked Blank	pH	2016/10/12	101	%	97 - 103
8430059	MM3	RPD - Sample/Sample Dup	pH	2016/10/12	0.12	%	N/A
8430067	MM3	Matrix Spike	Alkalinity (Total as CaCO3)	2016/10/12	NC	%	80 - 120
8430067	MM3	Spiked Blank	Alkalinity (Total as CaCO3)	2016/10/12	99	%	80 - 120
8430067	MM3	Method Blank	Alkalinity (Total as CaCO3)	2016/10/12	<0.50	mg/L	
			Alkalinity (PP as CaCO3)	2016/10/12	<0.50	mg/L	
			Bicarbonate (HCO3)	2016/10/12	<0.50	mg/L	
			Carbonate (CO3)	2016/10/12	<0.50	mg/L	
			Hydroxide (OH)	2016/10/12	<0.50	mg/L	
8430067	MM3	RPD - Sample/Sample Dup	Alkalinity (Total as CaCO3)	2016/10/12	0.12	%	20
			Alkalinity (PP as CaCO3)	2016/10/12	NC	%	20
			Bicarbonate (HCO3)	2016/10/12	0.12	%	20
			Carbonate (CO3)	2016/10/12	NC	%	20
			Hydroxide (OH)	2016/10/12	NC	%	20
8430141	CGP	Spiked Blank	Turbidity	2016/10/12	100	%	80 - 120
8430141	CGP	Method Blank	Turbidity	2016/10/12	<0.10	NTU	
8430141	CGP	RPD - Sample/Sample Dup	Turbidity	2016/10/12	NC	%	20
8430195	CK	Spiked Blank	True Colour	2016/10/12	104	%	80 - 120
8430195	CK	Method Blank	True Colour	2016/10/12	<5.0	Col. Unit	
8430195	CK	RPD - Sample/Sample Dup	True Colour	2016/10/12	NC	%	20
8431015	CGP	Matrix Spike	Total Dissolved Solids	2016/10/14	NC	%	80 - 120
8431015	CGP	Spiked Blank	Total Dissolved Solids	2016/10/13	88	%	80 - 120
8431015	CGP	Method Blank	Total Dissolved Solids	2016/10/13	<10	mg/L	
8431015	CGP	RPD - Sample/Sample Dup	Total Dissolved Solids	2016/10/14	3.4	%	20
8431780	JT3	Matrix Spike	Total Aluminum (Al)	2016/10/13	111	%	80 - 120
			Total Antimony (Sb)	2016/10/13	99	%	80 - 120
			Total Arsenic (As)	2016/10/13	103	%	80 - 120
			Total Barium (Ba)	2016/10/13	95	%	80 - 120
			Total Beryllium (Be)	2016/10/13	106	%	80 - 120
			Total Bismuth (Bi)	2016/10/13	98	%	80 - 120
			Total Boron (B)	2016/10/13	106	%	80 - 120
			Total Cadmium (Cd)	2016/10/13	101	%	80 - 120
			Total Chromium (Cr)	2016/10/13	99	%	80 - 120
			Total Cobalt (Co)	2016/10/13	97	%	80 - 120
			Total Copper (Cu)	2016/10/13	NC	%	80 - 120
			Total Iron (Fe)	2016/10/13	107	%	80 - 120
			Total Lead (Pb)	2016/10/13	98	%	80 - 120
			Total Lithium (Li)	2016/10/13	99	%	80 - 120
			Total Manganese (Mn)	2016/10/13	99	%	80 - 120
			Total Molybdenum (Mo)	2016/10/13	105	%	80 - 120
			Total Nickel (Ni)	2016/10/13	96	%	80 - 120
			Total Selenium (Se)	2016/10/13	107	%	80 - 120
			Total Silver (Ag)	2016/10/13	105	%	80 - 120
			Total Strontium (Sr)	2016/10/13	NC	%	80 - 120
			Total Thallium (Tl)	2016/10/13	98	%	80 - 120
			Total Tin (Sn)	2016/10/13	100	%	80 - 120
			Total Titanium (Ti)	2016/10/13	99	%	80 - 120
			Total Uranium (U)	2016/10/13	97	%	80 - 120
			Total Vanadium (V)	2016/10/13	99	%	80 - 120
			Total Zinc (Zn)	2016/10/13	NC	%	80 - 120
8431780	JT3	Spiked Blank	Total Aluminum (Al)	2016/10/13	111	%	80 - 120
			Total Antimony (Sb)	2016/10/13	99	%	80 - 120
			Total Arsenic (As)	2016/10/13	103	%	80 - 120
			Total Barium (Ba)	2016/10/13	95	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Date	%	UNITS	QC Limits				
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
			Total Beryllium (Be)	2016/10/13		103	%	80 - 120
			Total Bismuth (Bi)	2016/10/13		100	%	80 - 120
			Total Boron (B)	2016/10/13		102	%	80 - 120
			Total Cadmium (Cd)	2016/10/13		98	%	80 - 120
			Total Chromium (Cr)	2016/10/13		99	%	80 - 120
			Total Cobalt (Co)	2016/10/13		99	%	80 - 120
			Total Copper (Cu)	2016/10/13		98	%	80 - 120
			Total Iron (Fe)	2016/10/13		108	%	80 - 120
			Total Lead (Pb)	2016/10/13		96	%	80 - 120
			Total Lithium (Li)	2016/10/13		102	%	80 - 120
			Total Manganese (Mn)	2016/10/13		102	%	80 - 120
			Total Molybdenum (Mo)	2016/10/13		111	%	80 - 120
			Total Nickel (Ni)	2016/10/13		99	%	80 - 120
			Total Selenium (Se)	2016/10/13		108	%	80 - 120
			Total Silver (Ag)	2016/10/13		106	%	80 - 120
			Total Strontium (Sr)	2016/10/13		101	%	80 - 120
			Total Thallium (Tl)	2016/10/13		97	%	80 - 120
			Total Tin (Sn)	2016/10/13		96	%	80 - 120
			Total Titanium (Ti)	2016/10/13		97	%	80 - 120
			Total Uranium (U)	2016/10/13		93	%	80 - 120
			Total Vanadium (V)	2016/10/13		100	%	80 - 120
			Total Zinc (Zn)	2016/10/13		101	%	80 - 120
8431780	JT3	Method Blank	Total Aluminum (Al)	2016/10/13	<3.0		ug/L	
			Total Antimony (Sb)	2016/10/13	<0.50		ug/L	
			Total Arsenic (As)	2016/10/13	<0.10		ug/L	
			Total Barium (Ba)	2016/10/13	<1.0		ug/L	
			Total Beryllium (Be)	2016/10/13	<0.10		ug/L	
			Total Bismuth (Bi)	2016/10/13	<1.0		ug/L	
			Total Boron (B)	2016/10/13	<50		ug/L	
			Total Cadmium (Cd)	2016/10/13	<0.010		ug/L	
			Total Chromium (Cr)	2016/10/13	<1.0		ug/L	
			Total Cobalt (Co)	2016/10/13	<0.50		ug/L	
			Total Copper (Cu)	2016/10/13	<0.50		ug/L	
			Total Iron (Fe)	2016/10/13	<10		ug/L	
			Total Lead (Pb)	2016/10/13	<0.20		ug/L	
			Total Lithium (Li)	2016/10/13	<5.0		ug/L	
			Total Manganese (Mn)	2016/10/13	<1.0		ug/L	
			Total Molybdenum (Mo)	2016/10/13	<1.0		ug/L	
			Total Nickel (Ni)	2016/10/13	<1.0		ug/L	
			Total Selenium (Se)	2016/10/13	<0.10		ug/L	
			Total Silicon (Si)	2016/10/13	<100		ug/L	
			Total Silver (Ag)	2016/10/13	<0.020		ug/L	
			Total Strontium (Sr)	2016/10/13	<1.0		ug/L	
			Total Thallium (Tl)	2016/10/13	<0.050		ug/L	
			Total Tin (Sn)	2016/10/13	<5.0		ug/L	
			Total Titanium (Ti)	2016/10/13	<5.0		ug/L	
			Total Uranium (U)	2016/10/13	<0.10		ug/L	
			Total Vanadium (V)	2016/10/13	<5.0		ug/L	
			Total Zinc (Zn)	2016/10/13	<5.0		ug/L	
			Total Zirconium (Zr)	2016/10/13	<0.50		ug/L	
8431780	JT3	RPD - Sample/Sample Dup	Total Aluminum (Al)	2016/10/13	NC		%	20
			Total Antimony (Sb)	2016/10/13	NC		%	20
			Total Arsenic (As)	2016/10/13	NC		%	20
			Total Barium (Ba)	2016/10/13	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
			Total Beryllium (Be)	2016/10/13	NC		%	20
			Total Bismuth (Bi)	2016/10/13	NC		%	20
			Total Boron (B)	2016/10/13	NC		%	20
			Total Cadmium (Cd)	2016/10/13	NC		%	20
			Total Chromium (Cr)	2016/10/13	NC		%	20
			Total Cobalt (Co)	2016/10/13	NC		%	20
			Total Copper (Cu)	2016/10/13	0.31		%	20
			Total Iron (Fe)	2016/10/13	NC		%	20
			Total Lead (Pb)	2016/10/13	3.6		%	20
			Total Lithium (Li)	2016/10/13	NC		%	20
			Total Manganese (Mn)	2016/10/13	NC		%	20
			Total Molybdenum (Mo)	2016/10/13	NC		%	20
			Total Nickel (Ni)	2016/10/13	NC		%	20
			Total Selenium (Se)	2016/10/13	NC		%	20
			Total Silicon (Si)	2016/10/13	2.7		%	20
			Total Silver (Ag)	2016/10/13	NC		%	20
			Total Strontium (Sr)	2016/10/13	2.2		%	20
			Total Thallium (Tl)	2016/10/13	NC		%	20
			Total Tin (Sn)	2016/10/13	NC		%	20
			Total Titanium (Ti)	2016/10/13	NC		%	20
			Total Uranium (U)	2016/10/13	NC		%	20
			Total Vanadium (V)	2016/10/13	NC		%	20
			Total Zinc (Zn)	2016/10/13	2.4		%	20
			Total Zirconium (Zr)	2016/10/13	NC		%	20
8431865	WFO	Matrix Spike	Tannins and Lignins	2016/10/13		85	%	80 - 120
8431865	WFO	Spiked Blank	Tannins and Lignins	2016/10/13		92	%	80 - 120
8431865	WFO	Method Blank	Tannins and Lignins	2016/10/13	<0.10		mg/L	
8431865	WFO	RPD - Sample/Sample Dup	Tannins and Lignins	2016/10/13	NC		%	20
8431867	CH7	Matrix Spike	Dissolved Chloride (Cl)	2016/10/13		104	%	80 - 120
8431867	CH7	Spiked Blank	Dissolved Chloride (Cl)	2016/10/13		103	%	80 - 120
8431867	CH7	Method Blank	Dissolved Chloride (Cl)	2016/10/13	<1.0		mg/L	
8431867	CH7	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/10/13	NC		%	20
8431883	CH7	Matrix Spike	Dissolved Sulphate (SO4)	2016/10/13		102	%	80 - 120
8431883	CH7	Spiked Blank	Dissolved Sulphate (SO4)	2016/10/13		100	%	80 - 120
8431883	CH7	Method Blank	Dissolved Sulphate (SO4)	2016/10/13	<1.0		mg/L	
8431883	CH7	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/10/13	NC		%	20
8432350	JSG	Method Blank	UV absorbance (254nm)	2016/10/13	<0.010		AU/cm	
8432350	JSG	RPD - Sample/Sample Dup	UV absorbance (254nm)	2016/10/13	1.3		%	20
8432542	IW1	Matrix Spike	Fluoride (F)	2016/10/13		96	%	80 - 120
8432542	IW1	Spiked Blank	Fluoride (F)	2016/10/13		98	%	80 - 120
8432542	IW1	Method Blank	Fluoride (F)	2016/10/13	0.012, RDL=0.010		mg/L	
8432542	IW1	RPD - Sample/Sample Dup	Fluoride (F)	2016/10/13	NC		%	20
8432763	IW1	Matrix Spike	Nitrate plus Nitrite (N)	2016/10/13		102	%	80 - 120
8432763	IW1	Spiked Blank	Nitrate plus Nitrite (N)	2016/10/13		109	%	80 - 120
8432763	IW1	Method Blank	Nitrate plus Nitrite (N)	2016/10/13	<0.020		mg/L	
8432764	IW1	Matrix Spike	Nitrite (N)	2016/10/13		91	%	80 - 120
8432764	IW1	Spiked Blank	Nitrite (N)	2016/10/13		100	%	80 - 120
8432764	IW1	Method Blank	Nitrite (N)	2016/10/13	<0.0050		mg/L	

Maxxam Job #: B688063
Report Date: 2016/10/14

District of Ucluelet
Client Project #: ANNUAL COMPREHENSIVE
Your P.O. #: 12268

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
8432764	IW1	RPD - Sample/Sample Dup	Nitrite (N)	2016/10/13	NC		%	20
<p>N/A = Not Applicable</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).</p>								