

Your P.O. #: 6573
Your C.O.C. #: V001944

Attention: Scott Churko

City of Parksville
Engineering and Operations Dpt
PO Box 1390
Parksville, BC
Canada V9P 2H3

Report Date: 2010/11/05

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0A1862

Received: 2010/10/21, 14:45

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water ☺	5	2010/10/25	2010/10/21	56-C-001	Based on SM2320B
Chloride by Automated Colourimetry	5	N/A	2010/10/25	BRN-SOP 00234 R3.0	Based on EPA 325.2
Colour (True) ☺	5	N/A	2010/10/22	56-C-011	Based on SM-2120B
Coliforms & E.coli by Quantitray (MPN) ☺	5	N/A	2010/10/21	56-C-015	Based on SM-9223
Conductance - water ☺	5	N/A	2010/10/21	56-C-003	Based on SM-2510
Fluoride	5	N/A	2010/10/27	BRN SOP-00282 R4.0	Based SM - 4500 F C
Hardness Total (calculated as CaCO3)	4	N/A	2010/11/04		
Hardness Total (calculated as CaCO3)	1	N/A	2010/11/05		
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	2010/10/21	2010/11/04	BRN SOP-00206	Based on EPA 200.8
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	2010/10/21	2010/11/05	BRN SOP-00206	Based on EPA 200.8
Elements by CRC ICPMS (total)	4	2010/11/01	2010/11/03	BRN SOP-00206	Based on EPA 200.8
Elements by CRC ICPMS (total)	1	2010/11/02	2010/11/04	BRN SOP-00206	Based on EPA 200.8
Nitrogen (Total)	5	2010/10/25	2010/10/25	BRN SOP-00242 R3.0	Based on SM-4500N C
Ammonia-N	5	N/A	2010/10/26	BBY6SOP-00044	Based on EPA 350.1
Nitrate + Nitrite (N) ☺	5	N/A	2010/10/21	56-C-005	Based SM-4500 NO2 E
Nitrite (N) by CFA ☺	5	N/A	2010/10/22	56-C-006	Based SM-4500 NO2 B
Nitrogen - Nitrate (as N) ☺	5	N/A	2010/10/25	56-C-005	Based SM-4500 NO3 E
pH Water ☺	5	N/A	2010/10/21	56-C-007	Based on SM-4500 pH
Sulphate by Automated Colourimetry	5	N/A	2010/10/25	BRN-SOP 00243 R1.0	Based on EPA 375.4
Total Dissolved Solids (Filt. Residue) ☺	5	N/A	2010/10/22	56-C-009	Based on SM 2540C
TKN (Calc. TN, N/N) total	5	N/A	2010/10/26		
Tannin & Lignin (Total) ☺	5	N/A	2010/10/22	56-C-020	Based on SM-5550 A
Carbon (Total Organic)	5	N/A	2010/10/26	BRN SOP-00224 R4.0	Based on SM-5310C
Turbidity ☺	5	N/A	2010/10/22	56-C-012	Based on SM - 2130
UV transmittance @254nm ☺	1	N/A	2010/10/22	70-C-002	Based on SM-5910

* Results relate only to the items tested.

(1) This test was performed by Maxxam Victoria



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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MORGAN MELNYCHUK, BBY Customer Service
Email: MMelnychuk@maxxam.ca
Phone# (604) 638-8034

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID				X85265	X85266	X85267	X85268	X85269		
Sampling Date				2010/10/20 08:00	2010/10/20 09:45	2010/10/20 09:30	2010/10/20 08:30	2010/10/20 08:55		
	Units	Criteria A	Criteria 2 A	RIVER P/S	SPRINGWOOD WELL #3	SPRINGWOOD WELL #7	RAILWAY WELL #2	RAILWAY WELL #6	RDL	QC Batch
CONVENTIONALS										
Transmittance at 254nm	%T/cm			89.9					N/A	4376032
ANIONS										
Nitrite (N)	mg/L	1		<0.002	<0.002	<0.002	<0.002	<0.002	0.002	4363246
Calculated Parameters										
Nitrate (N)	mg/L	10		0.027	0.460	0.583	0.937	0.339	0.002	4360565
Misc. Inorganics										
Fluoride (F)	mg/L	1.5		0.02	0.05	0.05	0.04	0.05	0.01	4377868
Alkalinity (Total as CaCO ₃)	mg/L			26	98	92	116	106	2	4360043
Total Organic Carbon (C)	mg/L			1.2	<0.5	0.6	0.8	<0.5	0.5	4370122
Bicarbonate (HCO ₃)	mg/L			32	119	112	136	130	2	4360043
Carbonate (CO ₃)	mg/L			<2	<2	<2	<2	<2	2	4360043
Hydroxide (OH)	mg/L			<2	<2	<2	<2	<2	2	4360043
Anions										
Dissolved Sulphate (SO ₄)	mg/L		500	<0.5	2.6	2.3	2.0	2.9	0.5	4370151
Dissolved Chloride (Cl)	mg/L		250	11	16	11	31	23	0.5	4370145
MISCELLANEOUS										
True Colour	Col. Unit		15	8	<5	<5	<5	<5	5	4362344
Tannins and Lignins	mg/L			0.2	<0.1	<0.1	<0.1	<0.1	0.1	4362189
Nutrients										
Ammonia (N)	mg/L			<0.005	<0.005	<0.005	0.008	<0.005	0.005	4370353
Total Total Kjeldahl Nitrogen (Calc)	mg/L			0.12	<0.02	0.04	<0.02	0.05	0.02	4358353
Nitrate plus Nitrite (N)	mg/L	10		0.027	0.460	0.583	0.937	0.339	0.002	4356281
Total Nitrogen (N)	mg/L			0.14	0.45	0.62	0.90	0.38	0.02	4368862
Physical Properties										
Conductivity	uS/cm			96	265	239	390	319	1	4360126
pH	pH Units		6.5:8.5	7.0	7.2	7.3	7.2	7.3		4360129
Physical Properties										
Total Dissolved Solids	mg/L		500	69	153	145	204	177	10	4361120
Turbidity	NTU			0.2	0.2	0.4	0.4	0.4	0.1	4362351

N/A = Not Applicable

RDL = Reportable Detection Limit

Criteria A: CDWQG Potability (Health Criteria at Point of Use / Distribution) - for Victoria requirement for <1 micro RDLs

Criteria 2 A: Aesthetic Objective as set by "Guidelines for Canadian Drinking Water Quality."

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MICROBIOLOGY (WATER)

Maxxam ID			X85265	X85266	X85267	X85268	X85269		
Sampling Date			2010/10/20 08:00	2010/10/20 09:45	2010/10/20 09:30	2010/10/20 08:30	2010/10/20 08:55		
	Units	Criteria A	RIVER P/S	SPRINGWOOD WELL #3	SPRINGWOOD WELL #7	RAILWAY WELL #2	RAILWAY WELL #6	RDL	QC Batch
Microbiological Param.									
E. coli	MPN/100mL	0	11	<1	<1	<1	<1	1	4361110
Total Coliforms	MPN/100mL	0	250	<1	<1	<1	<1	1	4361110

RDL = Reportable Detection Limit

Criteria A, Criteria B, Criteria C: CDWQG Potability (Health Criteria at Point of Use / Distribution) - for Victoria requirement for <1 micro RDLs

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CSR TOTAL METALS IN WATER (WATER)

Maxxam ID						X85265	X85266	X85267		
Sampling Date						2010/10/20 08:00	2010/10/20 09:45	2010/10/20 09:30		
	Units	Criteria A	Criteria B	Criteria C	Criteria 2 A	RIVER P/S	SPRINGWOOD WELL #3	SPRINGWOOD WELL #7	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	5	20	100		37.3	122	126	0.5	4357857
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L					35	4	9	3	4389236
Total Antimony (Sb)	ug/L	6				<0.5	<0.5	<0.5	0.5	4389236
Total Arsenic (As)	ug/L	10				<0.1	0.5	0.3	0.1	4389236
Total Barium (Ba)	ug/L	1000				7	6	4	1	4389236
Total Beryllium (Be)	ug/L					<0.1	<0.1	<0.1	0.1	4389236
Total Bismuth (Bi)	ug/L					<1	<1	<1	1	4389236
Total Boron (B)	ug/L	5000				<50	<50	<50	50	4389236
Total Cadmium (Cd)	ug/L	5				<0.01	<0.01	0.02	0.01	4389236
Total Chromium (Cr)	ug/L	50				2	<1	1	1	4389236
Total Cobalt (Co)	ug/L					<0.5	<0.5	<0.5	0.5	4389236
Total Copper (Cu)	ug/L				1000	33.1	0.6	3.8	0.2	4389236
Total Iron (Fe)	ug/L				300	59	34	24	5	4389236
Total Lead (Pb)	ug/L	10				0.2	0.2	0.4	0.2	4389236
Total Lithium (Li)	ug/L					<5	<5	<5	5	4389236
Total Manganese (Mn)	ug/L				50	2	56	15	1	4389236
Total Mercury (Hg)	ug/L	1				<0.02	<0.02	<0.02	0.02	4389236
Total Molybdenum (Mo)	ug/L					<1	<1	<1	1	4389236
Total Nickel (Ni)	ug/L					<1	<1	<1	1	4389236
Total Selenium (Se)	ug/L	10				<0.1	0.1	<0.1	0.1	4389236
Total Silicon (Si)	ug/L					3330	12900	13900	100	4389236
Total Silver (Ag)	ug/L					<0.02	<0.02	<0.02	0.02	4389236
Total Strontium (Sr)	ug/L					50	69	63	1	4389236
Total Thallium (Tl)	ug/L					<0.05	<0.05	<0.05	0.05	4389236
Total Tin (Sn)	ug/L					<5	<5	<5	5	4389236
Total Titanium (Ti)	ug/L					<5	<5	<5	5	4389236
Total Uranium (U)	ug/L	20				<0.1	0.1	<0.1	0.1	4389236
Total Vanadium (V)	ug/L					<5	<5	6	5	4389236
Total Zinc (Zn)	ug/L				5000	13	<5	11	5	4389236
Total Zirconium (Zr)	ug/L					<0.5	<0.5	<0.5	0.5	4389236
Total Calcium (Ca)	mg/L					12.0	26.1	25.3	0.05	4357858

RDL = Reportable Detection Limit

Criteria A, Criteria B, Criteria C: CDWQG Potability (Health Criteria at Point of Use / Distribution) - for Victoria requirement for <1 micro RDLs

Criteria 2 A: Aesthetic Objective as set by "Guidelines for Canadian Drinking Water Quality."

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CSR TOTAL METALS IN WATER (WATER)

Maxxam ID						X85265	X85266	X85267		
Sampling Date						2010/10/20 08:00	2010/10/20 09:45	2010/10/20 09:30		
	Units	Criteria A	Criteria B	Criteria C	Criteria 2 A	RIVER P/S	SPRINGWOOD WELL #3	SPRINGWOOD WELL #7	RDL	QC Batch
Total Magnesium (Mg)	mg/L					1.76	13.8	15.2	0.05	4357858
Total Potassium (K)	mg/L					0.20	0.79	1.01	0.05	4357858
Total Sodium (Na)	mg/L				200	5.83	8.99	7.37	0.05	4357858
Total Sulphur (S)	mg/L					<3	<3	<3	3	4357858

RDL = Reportable Detection Limit

Criteria A, Criteria B, Criteria C: CDWQG Potability (Health Criteria at Point of Use / Distribution) - for Victoria requirement for <1 micro RDLs

Criteria 2 A: Aesthetic Objective as set by "Guidelines for Canadian Drinking Water Quality."

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CSR TOTAL METALS IN WATER (WATER)

Maxxam ID						X85268		X85269		
Sampling Date						2010/10/20 08:30		2010/10/20 08:55		
	Units	Criteria A	Criteria B	Criteria C	Criteria 2 A	RAILWAY WELL #2	QC Batch	RAILWAY WELL #6	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO ₃)	mg/L	5	20	100		166	4357857	121	0.5	4357857
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L					4	4389236	8	3	4391394
Total Antimony (Sb)	ug/L	6				<0.5	4389236	<0.5	0.5	4391394
Total Arsenic (As)	ug/L	10				0.2	4389236	0.5	0.1	4391394
Total Barium (Ba)	ug/L	1000				15	4389236	18	1	4391394
Total Beryllium (Be)	ug/L					<0.1	4389236	<0.1	0.1	4391394
Total Bismuth (Bi)	ug/L					<1	4389236	<1	1	4391394
Total Boron (B)	ug/L	5000				<50	4389236	62	50	4391394
Total Cadmium (Cd)	ug/L	5				<0.01	4389236	0.01	0.01	4391394
Total Chromium (Cr)	ug/L	50				<1	4389236	<1	1	4391394
Total Cobalt (Co)	ug/L					<0.5	4389236	<0.5	0.5	4391394
Total Copper (Cu)	ug/L				1000	1.2	4389236	1.0	0.2	4391394
Total Iron (Fe)	ug/L				300	55	4389236	25	5	4391394
Total Lead (Pb)	ug/L	10				<0.2	4389236	<0.2	0.2	4391394
Total Lithium (Li)	ug/L					<5	4389236	<5	5	4391394
Total Manganese (Mn)	ug/L				50	17	4389236	6	1	4391394
Total Mercury (Hg)	ug/L	1				<0.02	4389236	<0.02	0.02	4391394
Total Molybdenum (Mo)	ug/L					<1	4389236	<1	1	4391394
Total Nickel (Ni)	ug/L					<1	4389236	<1	1	4391394
Total Selenium (Se)	ug/L	10				<0.1	4389236	0.1	0.1	4391394
Total Silicon (Si)	ug/L					11900	4389236	10100	100	4391394
Total Silver (Ag)	ug/L					<0.02	4389236	<0.02	0.02	4391394
Total Strontium (Sr)	ug/L					103	4389236	82	1	4391394
Total Thallium (Tl)	ug/L					<0.05	4389236	<0.05	0.05	4391394
Total Tin (Sn)	ug/L					<5	4389236	<5	5	4391394
Total Titanium (Ti)	ug/L					<5	4389236	<5	5	4391394
Total Uranium (U)	ug/L	20				0.2	4389236	0.7	0.1	4391394
Total Vanadium (V)	ug/L					<5	4389236	<5	5	4391394
Total Zinc (Zn)	ug/L				5000	11	4389236	<5	5	4391394
Total Zirconium (Zr)	ug/L					<0.5	4389236	<0.5	0.5	4391394
Total Calcium (Ca)	mg/L					35.1	4357858	27.4	0.05	4357858

RDL = Reportable Detection Limit

Criteria A, Criteria B, Criteria C: CDWQG Potability (Health Criteria at Point of Use / Distribution) - for Victoria requirement for <1 micro RDLs

Criteria 2 A: Aesthetic Objective as set by "Guidelines for Canadian Drinking Water Quality."

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CSR TOTAL METALS IN WATER (WATER)

Maxxam ID						X85268		X85269		
Sampling Date						2010/10/20 08:30		2010/10/20 08:55		
	Units	Criteria A	Criteria B	Criteria C	Criteria 2 A	RAILWAY WELL #2	QC Batch	RAILWAY WELL #6	RDL	QC Batch
Total Magnesium (Mg)	mg/L					19.1	4357858	12.7	0.05	4357858
Total Potassium (K)	mg/L					0.86	4357858	0.71	0.05	4357858
Total Sodium (Na)	mg/L				200	8.96	4357858	7.22	0.05	4357858
Total Sulphur (S)	mg/L					<3	4357858	<3	3	4357858

RDL = Reportable Detection Limit

Criteria A, Criteria B, Criteria C: CDWQG Potability (Health Criteria at Point of Use / Distribution) - for Victoria requirement for <1 micro RDLs

Criteria 2 A: Aesthetic Objective as set by "Guidelines for Canadian Drinking Water Quality."

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Package 1	6.7°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

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QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
4356281	Nitrate plus Nitrite (N)	2010/10/21	99	80 - 120	93	80 - 120	<0.002	mg/L	7.2	20
4360043	Alkalinity (Total as CaCO ₃)	2010/10/21			97	N/A	<2	mg/L	1.5	20
4360043	Bicarbonate (HCO ₃)	2010/10/21					<2	mg/L		
4360043	Carbonate (CO ₃)	2010/10/21					<2	mg/L		
4360043	Hydroxide (OH)	2010/10/21					<2	mg/L		
4360126	Conductivity	2010/10/21			100	96 - 104	<1	uS/cm	0.7	20
4361110	E. coli	2010/10/21							NC	50
4361110	Total Coliforms	2010/10/21							NC	45
4361120	Total Dissolved Solids	2010/10/22			101	80 - 120	<10	mg/L	NC	20
4362189	Tannins and Lignins	2010/10/22					<0.1	mg/L	NC	20
4362344	True Colour	2010/10/22			100	N/A	<5	Col. Unit	NC	10
4362351	Turbidity	2010/10/22			96	N/A	<0.1	NTU	7.5	20
4363246	Nitrite (N)	2010/10/22	100	79 - 115	100	80 - 122	<0.002	mg/L	NC	20
4368862	Total Nitrogen (N)	2010/10/25	NC	80 - 120	92	80 - 120	<0.02	mg/L	11.0	20
4370122	Total Organic Carbon (C)	2010/10/26	113	80 - 120	107	80 - 120	<0.5	mg/L	NC	20
4370145	Dissolved Chloride (Cl)	2010/10/25	NC	80 - 120	105	80 - 120	<0.5	mg/L	2.6	20
4370151	Dissolved Sulphate (SO ₄)	2010/10/22	86	80 - 120	101	80 - 120	<0.5	mg/L	3.2	20
4370353	Ammonia (N)	2010/10/26	NC	80 - 120	102	80 - 120	<0.005	mg/L	NC	20
4376032	Transmittance at 254nm	2010/10/22					100, RDL=N/A	%T/cm	0.4	20
4377868	Fluoride (F)	2010/10/27	88	80 - 120	100	80 - 120	<0.01	mg/L	0.9	20
4389236	Total Arsenic (As)	2010/11/03	108	80 - 120	107	80 - 120	<0.1	ug/L	7.9	20
4389236	Total Beryllium (Be)	2010/11/03	100	80 - 120	102	80 - 120	<0.1	ug/L	NC	20
4389236	Total Cadmium (Cd)	2010/11/03	106	80 - 120	111	80 - 120	<0.01	ug/L	3.5	20
4389236	Total Chromium (Cr)	2010/11/03	106	80 - 120	112	80 - 120	<1	ug/L	NC	20
4389236	Total Cobalt (Co)	2010/11/03	NC	80 - 120	109	80 - 120	<0.5	ug/L	7.3	20
4389236	Total Copper (Cu)	2010/11/03	NC	80 - 120	110	80 - 120	<0.2	ug/L	6.0	20
4389236	Total Lead (Pb)	2010/11/03	109	80 - 120	111	80 - 120	<0.2	ug/L	NC	20
4389236	Total Lithium (Li)	2010/11/03	109	80 - 120	109	80 - 120	<5	ug/L		
4389236	Total Nickel (Ni)	2010/11/03	NC	80 - 120	113	80 - 120	<1	ug/L	4.6	20
4389236	Total Selenium (Se)	2010/11/03	107	80 - 120	110	80 - 120	<0.1	ug/L	NC	20
4389236	Total Uranium (U)	2010/11/03	109	80 - 120	110	80 - 120	<0.1	ug/L	NC	20
4389236	Total Vanadium (V)	2010/11/03	109	80 - 120	107	80 - 120	<5	ug/L	NC	20
4389236	Total Zinc (Zn)	2010/11/03	NC	80 - 120	107	80 - 120	<5	ug/L	3.2	20
4389236	Total Aluminum (Al)	2010/11/03					<3	ug/L	3.0	20
4389236	Total Antimony (Sb)	2010/11/03					<0.5	ug/L	NC	20
4389236	Total Barium (Ba)	2010/11/03					<1	ug/L	1.5	20
4389236	Total Bismuth (Bi)	2010/11/03					<1	ug/L	NC	20
4389236	Total Boron (B)	2010/11/03					<50	ug/L	NC	20
4389236	Total Iron (Fe)	2010/11/03					<5	ug/L	4.4	20



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QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
4389236	Total Manganese (Mn)	2010/11/03					<1	ug/L	6.3	20
4389236	Total Mercury (Hg)	2010/11/03					0.02, RDL=0.02	ug/L		
4389236	Total Molybdenum (Mo)	2010/11/03					<1	ug/L	NC	20
4389236	Total Silicon (Si)	2010/11/03					<100	ug/L	4.0	20
4389236	Total Silver (Ag)	2010/11/03					<0.02	ug/L	NC	20
4389236	Total Strontium (Sr)	2010/11/03					<1	ug/L	2.1	20
4389236	Total Thallium (Tl)	2010/11/03					<0.05	ug/L	NC	20
4389236	Total Tin (Sn)	2010/11/03					<5	ug/L	NC	20
4389236	Total Titanium (Ti)	2010/11/03					<5	ug/L	NC	20
4389236	Total Zirconium (Zr)	2010/11/03					<0.5	ug/L	NC	20
4391394	Total Arsenic (As)	2010/11/04	NC	80 - 120	103	80 - 120	<0.1	ug/L	1.5	20
4391394	Total Beryllium (Be)	2010/11/04	121 ⁽¹⁾	80 - 120	116	80 - 120	<0.1	ug/L	NC	20
4391394	Total Cadmium (Cd)	2010/11/04	105	80 - 120	105	80 - 120	<0.01	ug/L	NC	20
4391394	Total Chromium (Cr)	2010/11/04	97	80 - 120	98	80 - 120	<1	ug/L	NC	20
4391394	Total Cobalt (Co)	2010/11/04	97	80 - 120	102	80 - 120	<0.5	ug/L	NC	20
4391394	Total Copper (Cu)	2010/11/04	98	80 - 120	101	80 - 120	<0.2	ug/L	NC	20
4391394	Total Lead (Pb)	2010/11/04	103	80 - 120	107	80 - 120	<0.2	ug/L	NC	20
4391394	Total Lithium (Li)	2010/11/04	104	80 - 120	109	80 - 120	<5	ug/L	NC	20
4391394	Total Nickel (Ni)	2010/11/04	NC	80 - 120	99	80 - 120	<1	ug/L	0.8	20
4391394	Total Selenium (Se)	2010/11/04	103	80 - 120	106	80 - 120	<0.1	ug/L	4.0	20
4391394	Total Uranium (U)	2010/11/04	112	80 - 120	110	80 - 120	<0.1	ug/L	0.8	20
4391394	Total Vanadium (V)	2010/11/04	98	80 - 120	98	80 - 120	<5	ug/L	NC	20
4391394	Total Zinc (Zn)	2010/11/04	101	80 - 120	106	80 - 120	<5	ug/L	NC	20
4391394	Total Aluminum (Al)	2010/11/04					<3	ug/L	5.5	20
4391394	Total Antimony (Sb)	2010/11/04					<0.5	ug/L	NC	20
4391394	Total Barium (Ba)	2010/11/04					<1	ug/L	2.1	20
4391394	Total Bismuth (Bi)	2010/11/04					<1	ug/L	NC	20
4391394	Total Boron (B)	2010/11/04					<50	ug/L	NC	20
4391394	Total Iron (Fe)	2010/11/04					5, RDL=5	ug/L	2.6	20
4391394	Total Manganese (Mn)	2010/11/04					<1	ug/L	0.6	20
4391394	Total Mercury (Hg)	2010/11/04					<0.02	ug/L		
4391394	Total Molybdenum (Mo)	2010/11/04					<1	ug/L	NC	20
4391394	Total Silicon (Si)	2010/11/04					<100	ug/L	0.8	20
4391394	Total Silver (Ag)	2010/11/04					<0.02	ug/L	NC	20
4391394	Total Strontium (Sr)	2010/11/04					<1	ug/L	0.7	20
4391394	Total Thallium (Tl)	2010/11/04					<0.05	ug/L	NC	20
4391394	Total Tin (Sn)	2010/11/04					<5	ug/L	NC	20

Maxxam Job #: B0A1862
 Report Date: 2010/11/05

City of Parksville

Your P.O. #: 6573

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
4391394	Total Titanium (Ti)	2010/11/04					<5	ug/L	NC	20
4391394	Total Zirconium (Zr)	2010/11/04					<0.5	ug/L	NC	20

N/A = Not Applicable

RDL = Reportable Detection Limit

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

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 not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

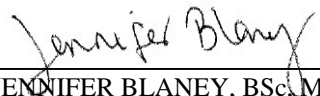
Validation Signature Page

Maxxam Job #: B0A1862

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



David Huang, BBV Scientific Specialist



JENNIFER BLANEY, BSc, Microbiology Group Coordinator

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Job#: BOA1862

V001944

Invoice To: Require Report? Yes No
 Company Name: City of Parksville
 Contact Name: Scott Churko
 Address: PO Box 1390
Parksville, BC. PC: V9P 2H3
 Phone / Fax#: Ph: 250-248-5412 Fax: 250-248-6140
 E-mail: _____

Report To:
 Company Name: _____
 Contact Name: SAME
 Address: _____
 PC: _____
 Phone / Fax#: Ph: _____ Fax: _____
 E-mail: _____

PO #: 6573
 Quotation #: _____
 Project #: Contest # 101022038
 Proj. Name: _____
 Location: _____
 Sampled By: Scott Churko

REGULATORY REQUIREMENTS SERVICE REQUESTED:

CSR Regular Turn Around Time (TAT)
 (5 days for most tests)
 CCME
 BC Water Quality RUSH (Please contact the lab)
 Other 1 Day 2 Day 3 Day
 DRINKING WATER Date Required: _____

Special Instructions:
 Return Cooler Ship Sample Bottles (please specify)

ANALYSIS REQUESTED																																			
MTBE	BTEX/VPH	VOC/MPH	EPH	PAH	LEPH/HEPH	CCME-PHC (Fractions 1-4 Plus BTEX)	CCME-PHC (Fractions 2-4)	CCME-BTEX (Fraction 1 Plus BTEX)	POB	Phenols by 4AAP	Phenols by GC/MS	MOG	SWOG	Disolved Metals	Field Filtered?	Field Acidified?	Total Metals Field Acidified?	Nitrate	Nitrite	Ammonia	Chloride	Sulfate	Total Suspended Solids TSS	TDS	Alkalinity	pH	Conductivity	BOD	COD	Coliform, Total & E.coli	Fecal	Asbestos	UV Transmittance	HOLD	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

YES NO
 YES NO
 Samples are from a Drinking Water Source?
 Does source supply multiple households?

*Relinquished by: <u>R. Edwards</u>	Date (YY/MM/DD): <u>2010/10/20</u>	Time: <u>10:30</u>	Received by: <u>[Signature]</u>	Date (YY/MM/DD): <u>21 Oct 2010</u>	Time: <u>1415</u>	Temperature on Receipt (°C): <u>6.6 C</u>	Custody Seal Intact on Cooler? <u>Yes</u>
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