

Client: Department of Environment
Attention: Ms. Annette Tobin
Client Project: Grand Falls-Windsor
Purchase Order: 212004311

COC Number: 1346
Date Reported: 2012-12-27
Date Submitted: 2012-12-21
Sample Matrix: Water

<u>LAB ID</u>	<u>Supply / Description</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>ANALYTE</u>	<u>UNIT</u>	<u>MRL</u>	<u>RESULT</u>
1005104	WS-S-0668 Dam Breach	2012-2319-00-SI-SP	2012-12-18	Alkalinity as CaCO3	mg/L	5	<5
				Bromide	mg/L	0.25	<0.25
				Chloride	mg/L	1	3
				Colour	TCU	2	4
				Conductivity	uS/cm	5	303
				Dissolved Organic Carbon	mg/L	0.5	1.3
				Fluoride	mg/L	0.10	0.12
				Hardness as CaCO3	mg/L	1	123
				N-NH3 (Ammonia)	mg/L	0.02	<0.02
				N-NO2 (Nitrite)	mg/L	0.10	<0.10
				N-NO3 (Nitrate)	mg/L	0.10	0.12
				pH		1.00	4.55
				Sulphate	mg/L	3	172
				Total Dissolved Solids (COND - CALC)	mg/L	1	197
				Total Kjeldahl Nitrogen	mg/L	0.10	0.13
				Total Organic Carbon	mg/L	0.5	2.0
				Total Phosphorus	mg/L	0.01	0.29
				Turbidity	NTU	0.1	>100
				Aluminum	mg/L	0.01	6.80
				Antimony	mg/L	0.0005	<0.0005
				Arsenic	mg/L	0.001	<0.001
				Barium	mg/L	0.01	0.06
				Boron	mg/L	0.01	<0.01
				Calcium	mg/L	1	26
				Cadmium	mg/L	0.0001	0.0003
				Chromium	mg/L	0.001	0.009

Comment:
Holding time for turbidity analysis was exceeded.

D. Cameron

APPROVAL: _____

Diana Cameron
Inorganic Laboratory Team Leader

Results relate only to the parameters tested on the samples submitted.
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1005104	WS-S-0668 Dam Breach	2012-2319-00-SI-SP	2012-12-18	Copper	mg/L	0.001	0.621
				Iron	mg/L	0.3	14.2
				Lead	mg/L	0.001	0.002
				Magnesium	mg/L	1	14
				Manganese	mg/L	0.01	0.55
				Mercury	mg/L	0.0001	<0.0001
				Nickel	mg/L	0.005	0.076
				Potassium	mg/L	1	<1
				Selenium	mg/L	0.001	<0.001
				Sodium	mg/L	2	2
				Strontium	mg/L	0.001	0.035
				Uranium	mg/L	0.001	<0.001
				Zinc	mg/L	0.01	0.07

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1005105	WS-S-0668 Upstream Breach	2012-2320-00-SI-SP	2012-12-18	Alkalinity as CaCO ₃	mg/L	5	6
				Bromide	mg/L	0.25	<0.25
				Chloride	mg/L	1	2
				Colour	TCU	2	51
				Conductivity	uS/cm	5	26
				Dissolved Organic Carbon	mg/L	0.5	6.0
				Fluoride	mg/L	0.10	<0.10
				Hardness as CaCO ₃	mg/L	1	7
				N-NH ₃ (Ammonia)	mg/L	0.02	<0.02
				N-NO ₂ (Nitrite)	mg/L	0.10	<0.10
				N-NO ₃ (Nitrate)	mg/L	0.10	<0.10
				pH		1.00	6.27
				Sulphate	mg/L	3	4
				Total Dissolved Solids (COND - CALC)	mg/L	1	17
				Total Kjeldahl Nitrogen	mg/L	0.10	0.16
				Total Organic Carbon	mg/L	0.5	6.0
				Total Phosphorus	mg/L	0.01	<0.01
				Turbidity	NTU	0.1	3.8
				Aluminum	mg/L	0.01	0.11
				Antimony	mg/L	0.0005	<0.0005
				Arsenic	mg/L	0.001	<0.001
				Barium	mg/L	0.01	<0.01
				Boron	mg/L	0.01	<0.01
				Calcium	mg/L	1	3
				Cadmium	mg/L	0.0001	0.0001
				Chromium	mg/L	0.001	<0.001

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1005105	WS-S-0668 Upstream Breach	2012-2320-00-SI-SP	2012-12-18	Copper	mg/L	0.001	0.001
				Iron	mg/L	0.03	0.29
				Lead	mg/L	0.001	<0.001
				Magnesium	mg/L	1	<1
				Manganese	mg/L	0.01	0.01
				Mercury	mg/L	0.0001	<0.0001
				Nickel	mg/L	0.005	<0.005
				Potassium	mg/L	1	<1
				Selenium	mg/L	0.001	<0.001
				Sodium	mg/L	2	<2
				Strontium	mg/L	0.001	0.007
				Uranium	mg/L	0.001	<0.001
				Zinc	mg/L	0.01	<0.01

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1005106	WS-S-0668 Downstream of Breach	2012-2321-00-SI-SP	2012-12-18	Alkalinity as CaCO ₃	mg/L	5	8
				Bromide	mg/L	0.25	<0.25
				Chloride	mg/L	1	2
				Colour	TCU	2	50
				Conductivity	uS/cm	5	45
				Dissolved Organic Carbon	mg/L	0.5	5.8
				Fluoride	mg/L	0.10	<0.10
				Hardness as CaCO ₃	mg/L	1	17
				N-NH ₃ (Ammonia)	mg/L	0.02	<0.02
				N-NO ₂ (Nitrite)	mg/L	0.10	<0.10
				N-NO ₃ (Nitrate)	mg/L	0.10	<0.10
				pH		1.00	6.29
				Sulphate	mg/L	3	9
				Total Dissolved Solids (COND - CALC)	mg/L	1	29
				Total Kjeldahl Nitrogen	mg/L	0.10	0.18
				Total Organic Carbon	mg/L	0.5	5.8
				Total Phosphorus	mg/L	0.01	<0.01
				Turbidity	NTU	0.1	2.8
				Aluminum	mg/L	0.01	0.13
				Antimony	mg/L	0.0005	<0.0005
				Arsenic	mg/L	0.001	<0.001
				Barium	mg/L	0.01	<0.01
				Boron	mg/L	0.01	<0.01
				Calcium	mg/L	1	5
				Cadmium	mg/L	0.0001	<0.0001
				Chromium	mg/L	0.001	<0.001

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1005106	WS-S-0668 Downstream of Breach	2012-2321-00-SI-SP	2012-12-18	Copper	mg/L	0.001	0.004
				Iron	mg/L	0.03	0.35
				Lead	mg/L	0.001	<0.001
				Magnesium	mg/L	1	1
				Manganese	mg/L	0.01	0.08
				Mercury	mg/L	0.0001	<0.0001
				Nickel	mg/L	0.005	<0.005
				Potassium	mg/L	1	<1
				Selenium	mg/L	0.001	<0.001
				Sodium	mg/L	2	<2
				Strontium	mg/L	0.001	0.010
				Uranium	mg/L	0.001	<0.001
				Zinc	mg/L	0.01	<0.01

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