

NORTH COAL LIMITED ATTN: Bill Arling 652 F Sparwood Drive PO Box 576 Sparwood BC VOB 2G0 Date Received: 17-MAR-21 Report Date: 25-MAR-21 13:12 (MT) Version: FINAL

Client Phone: 250-423-8854

Certificate of Analysis

Lab Work Order #: L2568030 Project P.O. #: NOT SUBMITTED Job Reference: 18CANA02 C of C Numbers: Legal Site Desc:

1 May 1

Patryk Wojciak, B.Sc., P.Chem. Account Manager

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L2568030 CONTD.... PAGE 2 of 14 25-MAR-21 13:12 (MT) Version: FINAL

	Sample ID Description Sampled Date Sampled Time Client ID	L2568030-1 Water 16-MAR-21 13:25 MICH-13.0	L2568030-2 Water 16-MAR-21 12:40 MICH-33.8	L2568030-3 Water 16-MAR-21 11:45 AND1	L2568030-4 Water 16-MAR-21 10:50 MICH-39.1	L2568030-5 Water 16-MAR-21 12:10 FIELD BLANK
Grouping	Analyte					
WATER						
Physical Tests	Colour, True (CU)	<5.0	<5.0	<5.0	<5.0	<5.0
	Hardness (as CaCO3) (mg/L)	218	385	138	670	<0.50
	Total Suspended Solids (mg/L)	7.8	<3.0	<3.0	<3.0	<3.0
	Total Dissolved Solids (mg/L)	DLHC 259	DLHC 488	DLHC 158	DLHC 918	<10
	Turbidity (NTU)	8.58	0.55	0.23	0.33	<0.10
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	155	184	126	243	<2.0
	Ammonia as N (mg/L)	0.0092	0.0065	<0.0050	<0.0050	<0.0050
	Bicarbonate (HCO3) (mg/L)	190	224	154	296	<5.0
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	DLHC <0.25	<0.050
	Carbonate (CO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Chloride (Cl) (mg/L)	2.48	2.67	<0.50	DLHC 5.0	<0.50
	Conductivity (EC) (uS/cm)	415	694	263	1190	<2.0
	Fluoride (F) (mg/L)	0.068	0.144	0.316	OLHC <0.10	<0.020
	Hydroxide (OH) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Nitrate (as N) (mg/L)	0.368	1.32	0.164	DLHC 3.56	<0.0050
	Nitrite (as N) (mg/L)	0.0011	<0.0010	<0.0010	0.0057	<0.0010
	Total Kjeldahl Nitrogen (mg/L)	0.084	0.466	<0.050	0.252	<0.050
	рН (рН)	8.19	8.13	8.11	8.15	5.55
	Orthophosphate-Dissolved (as P) (mg/L)	0.0062	0.0055	0.0015	0.0021	<0.0010
	Phosphorus (P)-Total (mg/L)	0.0130	0.0025	<0.0020	<0.0020	<0.0020
	Sulfate (SO4) (mg/L)	80.5	209	22.4	DLHC 508	<0.30
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	0.60	<0.50	<0.50	<0.50	<0.50
	Total Organic Carbon (mg/L)	0.90	<0.50	<0.50	<0.50	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)	0.151	0.0339	0.0068	0.0082	<0.0030
	Antimony (Sb)-Total (mg/L)	0.00013	0.00013	<0.00010	0.00020	<0.00010
	Arsenic (As)-Total (mg/L)	0.00027	0.00029	0.00046	0.00019	<0.00010
	Barium (Ba)-Total (mg/L)	0.142	0.0797	0.0239	0.0741	<0.00010
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Total (mg/L)	0.010	0.022	<0.010	0.046	<0.010
	Cadmium (Cd)-Total (mg/L)	0.0000506	0.0000326	0.0000199	0.0000265	<0.0000050
	Calcium (Ca)-Total (mg/L)	65.0	102	46.6	169	<0.050
	Chromium (Cr)-Total (mg/L)	0.00032	0.00022	0.00030	0.00021	<0.00010
	Cobalt (Co)-Total (mg/L)	<0.00010	0.00018	<0.00010	0.00130	<0.00010
	Copper (Cu)-Total (mg/L)	0.00057	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	0.153	0.045	<0.010	0.011	<0.010

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	Sample ID Description Sampled Date Sampled Time Client ID	L2568030-6 Water 16-MAR-21 10:00 TRIP BLANK	L2568030-7 Water 16-MAR-21 10:35 DUPLICATE	
Grouping	Analyte			
WATER				
Physical Tests	Colour, True (CU)	<5.0	<5.0	
	Hardness (as CaCO3) (mg/L)	<0.50	653	
	Total Suspended Solids (mg/L)	<3.0	<3.0	
	Total Dissolved Solids (mg/L)	<10	DLHC 926	
	Turbidity (NTU)	<0.10	0.34	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	244	
	Ammonia as N (mg/L)	<0.0050	0.0081	
	Bicarbonate (HCO3) (mg/L)	<5.0	298	
	Bromide (Br) (mg/L)	<0.050	OLHC <0.25	
	Carbonate (CO3) (mg/L)	<5.0	<5.0	
	Chloride (Cl) (mg/L)	<0.50	DLHC 10.1	
	Conductivity (EC) (uS/cm)	<2.0	1200	
	Fluoride (F) (mg/L)	<0.020	0.10	
	Hydroxide (OH) (mg/L)	<5.0	<5.0	
	Nitrate (as N) (mg/L)	<0.0050	3.65	
	Nitrite (as N) (mg/L)	<0.0010	DLHC 0.0257	
	Total Kjeldahl Nitrogen (mg/L)	<0.050	тклі 0.241	
	рН (рН)	5.52	8.16	
	Orthophosphate-Dissolved (as P) (mg/L)	<0.0010	0.0023	
	Phosphorus (P)-Total (mg/L)	<0.0020	<0.0020	
	Sulfate (SO4) (mg/L)	<0.30	501 DLHC	
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	<0.50	<0.50	
	Total Organic Carbon (mg/L)	<0.50	0.52	
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0030	0.0086	
	Antimony (Sb)-Total (mg/L)	<0.00010	0.00020	
	Arsenic (As)-Total (mg/L)	<0.00010	0.00015	
	Barium (Ba)-Total (mg/L)	<0.00010	0.0721	
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	
	Boron (B)-Total (mg/L)	<0.010	0.049	
	Cadmium (Cd)-Total (mg/L)	<0.0000050	0.0000273	
	Calcium (Ca)-Total (mg/L)	<0.050	169	
	Chromium (Cr)-Total (mg/L)	<0.00010	0.00016	
	Cobalt (Co)-Total (mg/L)	<0.00010	0.00125	
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	
	Iron (Fe)-Total (mg/L)	<0.010	0.012	

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	Sample ID Description Sampled Date Sampled Time Client ID	L2568030-1 Water 16-MAR-21 13:25 MICH-13.0	L2568030-2 Water 16-MAR-21 12:40 MICH-33.8	L2568030-3 Water 16-MAR-21 11:45 AND1	L2568030-4 Water 16-MAR-21 10:50 MICH-39.1	L2568030-5 Water 16-MAR-21 12:10 FIELD BLANK
Grouping	Analyte					
WATER						
Total Metals	Lead (Pb)-Total (mg/L)	0.000154	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	0.0062	0.0117	0.0023	0.0248	<0.0010
	Magnesium (Mg)-Total (mg/L)	19.0	38.8	10.3	79.5	<0.0050
	Manganese (Mn)-Total (mg/L)	0.00350	0.00290	<0.00010	0.0103	<0.00010
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	0.000703	0.000805	0.000959	0.00104	<0.000050
	Nickel (Ni)-Total (mg/L)	0.00081	0.00291	<0.00050	0.0159	<0.00050
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	0.76	0.99	0.25	2.10	<0.10
	Selenium (Se)-Total (mg/L)	0.00224	0.00526	0.00192	0.0102	<0.000050
	Silicon (Si)-Total (mg/L)	2.48	2.09	1.62	2.47	<0.050
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	5.44	11.8	0.932	25.2	<0.050
	Strontium (Sr)-Total (mg/L)	0.186	0.320	0.167	0.555	<0.00020
	Sulfur (S)-Total (mg/L)	29.0	80.5	8.45	182	<0.50
	Thallium (TI)-Total (mg/L)	0.000013	0.000011	0.000035	0.000015	<0.000010
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	0.00226	0.00054	<0.00030	<0.00030	<0.00030
	Uranium (U)-Total (mg/L)	0.000836	0.00197	0.000910	0.00369	<0.000010
	Vanadium (V)-Total (mg/L)	0.00106	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)	0.0032	< 0.0030	<0.0030	<0.0030	< 0.0030
	Zirconium (Zr)-Total (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Antimony (Sb)-Dissolved (mg/L)	0.00013	0.00013	<0.00010	0.00019	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00015	0.00019	0.00044	0.00016	<0.00010
	Barium (Ba)-Dissolved (mg/L)	0.139	0.0799	0.0227	0.0713	<0.00010
	Beryllium (Be)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.010	0.019	<0.010	0.040	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.0000252	0.0000199	0.0000091	0.0000251	<0.0000050
	Calcium (Ca)-Dissolved (mg/L)	57.4	91.4	40.1	149	<0.050
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	0.00015	0.00026	0.00014	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	0.00111	<0.00010
	Copper (Cu)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010
	Iron (Fe)-Dissolved (mg/L)	<0.00020	<0.00020	<0.010	<0.00020	<0.00020

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	Sample ID Description Sampled Date Sampled Time Client ID	L2568030-6 Water 16-MAR-21 10:00 TRIP BLANK	L2568030-7 Water 16-MAR-21 10:35 DUPLICATE
Grouping	Analyte		
WATER			
Total Metals	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	<0.0010	0.0251
	Magnesium (Mg)-Total (mg/L)	<0.0050	76.9
	Manganese (Mn)-Total (mg/L)	<0.00010	0.00953
	Mercury (Hg)-Total (mg/L)	<0.000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	<0.000050	0.00106
	Nickel (Ni)-Total (mg/L)	<0.00050	0.0156
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050
	Potassium (K)-Total (mg/L)	<0.10	2.03
	Selenium (Se)-Total (mg/L)	<0.000050	0.00975
	Silicon (Si)-Total (mg/L)	<0.050	2.43
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	<0.050	24.2
	Strontium (Sr)-Total (mg/L)	<0.00020	0.557
	Sulfur (S)-Total (mg/L)	<0.50	174
	Thallium (TI)-Total (mg/L)	<0.000010	0.000014
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.00030	<0.00030
	Uranium (U)-Total (mg/L)	<0.000010	0.00365
	Vanadium (V)-Total (mg/L)	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)	<0.0030	<0.0030
	Zirconium (Zr)-Total (mg/L)	<0.00030	<0.00030
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD
	Dissolved Metals Filtration Location	LAB	FIELD
	Aluminum (AI)-Dissolved (mg/L)	<0.0010	<0.0010
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	0.00018
	Arsenic (As)-Dissolved (mg/L)	<0.00010	0.00014
	Barium (Ba)-Dissolved (mg/L)	<0.00010	0.0697
	Beryllium (Be)-Dissolved (mg/L)	<0.000020	<0.000020
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.010	0.040
	Cadmium (Cd)-Dissolved (mg/L)	<0.0000050	0.0000273
	Calcium (Ca)-Dissolved (mg/L)	<0.050	147
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	0.00013
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	0.00111
	Copper (Cu)-Dissolved (mg/L)	<0.00020	<0.00020
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010

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	Sample ID Description Sampled Date Sampled Time Client ID	L2568030-1 Water 16-MAR-21 13:25 MICH-13.0	L2568030-2 Water 16-MAR-21 12:40 MICH-33.8	L2568030-3 Water 16-MAR-21 11:45 AND1	L2568030-4 Water 16-MAR-21 10:50 MICH-39.1	L2568030-5 Water 16-MAR-21 12:10 FIELD BLANK
Grouping	Analyte					
WATER						
Dissolved Metals	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0056	0.0102	0.0021	0.0225	<0.0010
	Magnesium (Mg)-Dissolved (mg/L)	18.2	38.1	9.24	72.4	<0.0050
	Manganese (Mn)-Dissolved (mg/L)	0.00059	0.00107	<0.00010	0.00834	<0.00010
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.000050	<0.0000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.000577	0.000718	0.000842	0.000942	<0.000050
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	0.00264	<0.00050	0.0146	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	0.66	0.96	0.22	1.91	<0.10
	Selenium (Se)-Dissolved (mg/L)	0.00260	0.00603	0.00216	0.0120	<0.000050
	Silicon (Si)-Dissolved (mg/L)	2.04	1.83	1.45	2.16	<0.050
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	5.06	10.6	0.781	21.9	<0.050
	Strontium (Sr)-Dissolved (mg/L)	0.162	0.287	0.142	0.496	<0.00020
	Sulfur (S)-Dissolved (mg/L)	28.7	80.0	8.03	175	<0.50
	Thallium (TI)-Dissolved (mg/L)	<0.000010	<0.000010	0.000029	0.000011	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
	Uranium (U)-Dissolved (mg/L)	0.000725	0.00174	0.000776	0.00338	<0.000010
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	<0.0010	0.0014	0.0025	<0.0010
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	< 0.00030
Aggregate Organics	Chemical Oxygen Demand (mg/L)	<10	<10	<10	<10	<10
Volatile Organic Compounds	Acetone (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Acrolein (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Acrylonitrile (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	Benzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bromobenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Bromochloromethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Bromodichloromethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bromoform (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bromomethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	2-Butanone (MEK) (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	n-Butylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	sec-Butylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	tert-Butylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010

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	Sample ID Description Sampled Date Sampled Time Client ID	L2568030-6 Water 16-MAR-21 10:00 TRIP BLANK	L2568030-7 Water 16-MAR-21 10:35 DUPLICATE		
Grouping	Analyte				
WATER					
Dissolved Metals	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050		
	Lithium (Li)-Dissolved (mg/L)	<0.0010	0.0219		
	Magnesium (Mg)-Dissolved (mg/L)	<0.0050	69.5		
	Manganese (Mn)-Dissolved (mg/L)	<0.00010	0.00804		
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.000050		
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050	0.000927		
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	0.0145		
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050		
	Potassium (K)-Dissolved (mg/L)	<0.10	1.89		
	Selenium (Se)-Dissolved (mg/L)	<0.000050	0.0107		
	Silicon (Si)-Dissolved (mg/L)	<0.050	2.07		
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010		
	Sodium (Na)-Dissolved (mg/L)	<0.050	20.9		
	Strontium (Sr)-Dissolved (mg/L)	<0.00020	0.496		
	Sulfur (S)-Dissolved (mg/L)	<0.50	162		
	Thallium (TI)-Dissolved (mg/L)	<0.000010	0.000013		
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010		
	Titanium (Ti)-Dissolved (mg/L)	<0.00030	<0.00030		
	Uranium (U)-Dissolved (mg/L)	<0.000010	0.00337		
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.00050		
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	0.0021		
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00030		
Aggregate Organics	Chemical Oxygen Demand (mg/L)	<10	<10		
Volatile Organic Compounds	Acetone (mg/L)	<0.050	<0.050		
	Acrolein (mg/L)	<0.050	<0.050		
	Acrylonitrile (mg/L)	<0.020	<0.020		
	Benzene (mg/L)	<0.00050	<0.00050		
	Bromobenzene (mg/L)	<0.0010	<0.0010		
	Bromochloromethane (mg/L)	<0.0010	<0.0010		
	Bromodichloromethane (mg/L)	<0.00050	<0.00050		
	Bromoform (mg/L)	<0.00050	<0.00050		
	Bromomethane (mg/L)	<0.0010	<0.0010		
	2-Butanone (MEK) (mg/L)	<0.020	<0.020		
	n-Butylbenzene (mg/L)	<0.0010	<0.0010		
	sec-Butylbenzene (mg/L)	<0.0010	<0.0010		
	tert-Butylbenzene (mg/L)	<0.0010	<0.0010		

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	Sample ID Description Sampled Date Sampled Time Client ID	L2568030-1 Water 16-MAR-21 13:25 MICH-13.0	L2568030-2 Water 16-MAR-21 12:40 MICH-33.8	L2568030-3 Water 16-MAR-21 11:45 AND1	L2568030-4 Water 16-MAR-21 10:50 MICH-39.1	L2568030-5 Water 16-MAR-21 12:10 FIELD BLANK
Grouping	Analyte					
WATER						
Volatile Organic Compounds	Carbon disulfide (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Carbon tetrachloride (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Chlorobenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Dibromochloromethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Chloroethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Chloroform (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Chloromethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	2-Chlorotoluene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	4-Chlorotoluene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,2-Dibromo-3-chloropropane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Ethylene dibromide (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Dibromomethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	cis-1,4-Dichloro-2-butene (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	trans-1,4-Dichloro-2-butene (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	1,2-Dichlorobenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,3-Dichlorobenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,4-Dichlorobenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Dichlorodifluoromethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,1-Dichloroethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,2-Dichloroethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,1-Dichloroethene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	cis-1,2-Dichloroethene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	trans-1,2-Dichloroethene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Methylene chloride (mg/L)	<0.0010	<0.0010	DLQ <0.0020	<0.0010	<0.0010
	1,2-Dichloropropane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,3-Dichloropropane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	2,2-Dichloropropane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,1-Dichloropropene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	cis-1,3-Dichloropropene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	trans-1,3-Dichloropropene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Ethanol (mg/L)	<0.20	<0.20	<0.50	<0.20	<0.20
	Ethyl methacrylate (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Ethylbenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Hexachlorobutadiene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	2-Hexanone (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	lodomethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0000	<0.0010
	Isopropylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010

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	Sample ID Description Sampled Date Sampled Time Client ID	L2568030-6 Water 16-MAR-21 10:00 TRIP BLANK	L2568030-7 Water 16-MAR-21 10:35 DUPLICATE		
Grouping	Analyte				
WATER					
Volatile Organic Compounds	Carbon disulfide (mg/L)	<0.0010	<0.0010		
	Carbon tetrachloride (mg/L)	<0.00050	<0.00050		
	Chlorobenzene (mg/L)	<0.00050	<0.00050		
	Dibromochloromethane (mg/L)	<0.00050	<0.00050		
	Chloroethane (mg/L)	<0.0010	<0.0010		
	Chloroform (mg/L)	<0.00050	<0.00050		
	Chloromethane (mg/L)	<0.0010	<0.0010		
	2-Chlorotoluene (mg/L)	<0.0010	<0.0010		
	4-Chlorotoluene (mg/L)	<0.0010	<0.0010		
	1,2-Dibromo-3-chloropropane (mg/L)	<0.0010	<0.0010		
	Ethylene dibromide (mg/L)	<0.00050	<0.00050		
	Dibromomethane (mg/L)	<0.00050	<0.00050		
	cis-1,4-Dichloro-2-butene (mg/L)	<0.0050	<0.0050		
	trans-1,4-Dichloro-2-butene (mg/L)	<0.0050	<0.0050		
	1,2-Dichlorobenzene (mg/L)	<0.00050	<0.00050		
	1,3-Dichlorobenzene (mg/L)	<0.00050	<0.00050		
	1,4-Dichlorobenzene (mg/L)	<0.00050	<0.00050		
	Dichlorodifluoromethane (mg/L)	<0.00050	<0.00050		
	1,1-Dichloroethane (mg/L)	<0.00050	<0.00050		
	1,2-Dichloroethane (mg/L)	<0.0010	<0.0010		
	1,1-Dichloroethene (mg/L)	<0.00050	<0.00050		
	cis-1,2-Dichloroethene (mg/L)	<0.0010	<0.0010		
	trans-1,2-Dichloroethene (mg/L)	<0.00050	<0.00050		
	Methylene chloride (mg/L)	<0.0010	<0.0010		
	1,2-Dichloropropane (mg/L)	<0.00050	<0.00050		
	1,3-Dichloropropane (mg/L)	<0.0010	<0.0010		
	2,2-Dichloropropane (mg/L)	<0.0010	<0.0010		
	1,1-Dichloropropene (mg/L)	<0.0010	<0.0010		
	cis-1,3-Dichloropropene (mg/L)	<0.00050	<0.00050		
	trans-1,3-Dichloropropene (mg/L)	<0.0010	<0.0010		
	Ethanol (mg/L)	<0.20	<0.20		
	Ethyl methacrylate (mg/L)	<0.0050	<0.0050		
	Ethylbenzene (mg/L)	<0.00050	<0.00050		
	Hexachlorobutadiene (mg/L)	<0.0010	<0.0010		
	2-Hexanone (mg/L)	<0.0050	<0.0050		
	lodomethane (mg/L)	<0.0010	<0.0010		
	Isopropylbenzene (mg/L)	<0.0010	<0.0010		

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WATER Volatile Organic Compounds 4-N Me n-F Sty	Analyte sopropyltoluene (mg/L) Methyl-2-pentanone (MIBK) (mg/L) ethyl-t-butyl ether (mg/L)	<0.0010 <0.0050	<0.0010	<0.0010	<0.0010	<0.0010
Volatile Organic p-ls Compounds 4-N Me n-F Sty	Methyl-2-pentanone (MIBK) (mg/L) ethyl-t-butyl ether (mg/L)			<0.0010	<0.0010	<0.0010
Compounds 4-N Me n-F Sty	Methyl-2-pentanone (MIBK) (mg/L) ethyl-t-butyl ether (mg/L)			<0.0010	<0.0010	<0.0010
Me n-F Sty	thyl-t-butyl ether (mg/L)	<0.0050				
n-F Sty			<0.0050	<0.0050	<0.0050	<0.0050
Sty	1	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
-	Propylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1	/rene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	,1,2-Tetrachloroethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1	,2,2-Tetrachloroethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Te	trachloroethylene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
To	luene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2	2,3-Trichlorobenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2	2,4-Trichlorobenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3	3,5-Trichlorobenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1	,1-Trichloroethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,1	,2-Trichloroethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Tri	chloroethene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Tri	chlorofluoromethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2	2,3-Trichloropropane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2	2,4-Trimethylbenzene (mg/L)	<0.00000	<0.0010	<0.00000	<0.00000	<0.00030
1.3	3,5-Trimethylbenzene (mg/L)					
	nyl chloride (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	(ylene (mg/L)	<0.00050	<0.00050	< 0.00050	<0.00050	<0.00050
	-p-Xylenes (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	lenes (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	rrogate: 4-Bromofluorobenzene (%)	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071
	rrogate: 3,4-Dichlorotoluene (%)	76.4	77.2	107.6	75.3	73.1
	S , (, ,	121.2	96.9	98.0	124.1	99.0
	rrogate: 1,4-Difluorobenzene (%)	97.2	97.2	70.9	96.6	96.2
•	2H10-19 (ug/L)	<100	<100	<100	<100	<100
	'H19-32 (ug/L)	<100	<100	<100	<100	<100
Su	rrogate: 2-Bromobenzotrifluoride (%)	83.7	86.4	86.3	86.5	94.3

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	Sample ID Description Sampled Date Sampled Time Client ID	L2568030-6 Water 16-MAR-21 10:00 TRIP BLANK	L2568030-7 Water 16-MAR-21 10:35 DUPLICATE		
Grouping	Analyte				
WATER					
Volatile Organic Compounds	p-Isopropyltoluene (mg/L)	<0.0010	<0.0010		
	4-Methyl-2-pentanone (MIBK) (mg/L)	<0.0050	<0.0050		
	Methyl-t-butyl ether (mg/L)	<0.00050	<0.00050		
	n-Propylbenzene (mg/L)	<0.0010	<0.0010		
	Styrene (mg/L)	<0.00050	<0.00050		
	1,1,1,2-Tetrachloroethane (mg/L)	<0.0010	<0.0010		
	1,1,2,2-Tetrachloroethane (mg/L)	<0.00050	<0.00050		
	Tetrachloroethylene (mg/L)	<0.00050	<0.00050		
	Toluene (mg/L)	<0.00050	<0.00050		
	1,2,3-Trichlorobenzene (mg/L)	<0.0010	<0.0010		
	1,2,4-Trichlorobenzene (mg/L)	<0.0010	<0.0010		
	1,3,5-Trichlorobenzene (mg/L)	<0.0010	<0.0010		
	1,1,1-Trichloroethane (mg/L)	<0.00050	<0.00050		
	1,1,2-Trichloroethane (mg/L)	<0.00050	<0.00050		
	Trichloroethene (mg/L)	<0.00050	<0.00050		
	Trichlorofluoromethane (mg/L)	<0.0010	<0.0010		
	1,2,3-Trichloropropane (mg/L)	<0.00050	<0.00050		
	1,2,4-Trimethylbenzene (mg/L)	<0.0010	<0.0010		
	1,3,5-Trimethylbenzene (mg/L)	<0.0010	<0.0010		
	Vinyl chloride (mg/L)	<0.00050	<0.00050		
	o-Xylene (mg/L)	<0.00050	<0.00050		
	m+p-Xylenes (mg/L)	<0.00050	<0.00050		
	Xylenes (mg/L)	<0.00071	<0.00071		
	Surrogate: 4-Bromofluorobenzene (%)	75.2	76.3		
	Surrogate: 3,4-Dichlorotoluene (%)	128.9	103.6		
	Surrogate: 1,4-Difluorobenzene (%)	97.0	96.7		
Hydrocarbons	EPH10-19 (ug/L)	<100	<100		
	EPH19-32 (ug/L)	<100	<100		
	Surrogate: 2-Bromobenzotrifluoride (%)	84.4	76.3		

C Samples wit	h Qualifiers & Comm	Reference I	mormatic	///	Version:	FINAL
QC Type Descri		Parameter	Qualifier	Applies to Sample Number(s	.)	
Matrix Spike		Chemical Oxygen Demand	MS-B	L2568030-1, -2, -3, -4, -5, -6		
Qualifiers for I	ndividual Parameters	Listed:				
Qualifier	Description					
DLHC	Detection Limit Raise	ed: Dilution required due to high concen	ntration of test and	alvte(s).		
DLQ	Detection Limit raised	d due to co-eluting interference. GCMS	S qualifier ion ratio	o did not meet acceptance criter	ria.	
MS-B	Matrix Spike recovery	could not be accurately calculated due	e to high analyte	background in sample.		
RRV	Reported Result Veri	fied By Repeat Analysis				
TKNI	TKN result may be bi	ased low due to Nitrate interference. N	Nitrate-N is > 10x	TKN.		
est Method Re						
LS Test Code	Matrix	Test Description		Method Reference**		
BE-D-L-CCMS-C Water samples		Diss. Be (low) in Water by CRC ICI preserved with nitric acid, and analyzed		APHA 3030B/6020A (mod)		
Method Limitation	on (re: Sulfur): Sulfide	and volatile sulfur species may not be i	recovered by this	method.		
BE-T-L-CCMS-C	L Water	Total Be (Low) in Water by CRC IC	PMS	EPA 200.2/6020A (mod)		
Water samples	are digested with nitric	and hydrochloric acids, and analyzed	by CRC ICPMS.			
Method Limitatio	on (re: Sulfur): Sulfide	and volatile sulfur species may not be i	recovered by this	method.		
3R-L-IC-N-CL	Water	Bromide in Water by IC (Low Level))	EPA 300.1 (mod)		
		Chromatography with conductivity and/				
-DIS-ORG-LOW	V-CL Water	Dissolved Organic Carbon		APHA 5310 B-Instrumental		
carrier gas conta halogen scrubbe	aining the combustion er into a sample cell se	0.45um filtered = TDC. Samples are in product from the combustion tube flow at in a non-dispersive infrared gas analy ample is injected into an IC reactor vess	s through an inor yzer (NDIR) wher	ganic carbon reactor vessel and e carbon dioxide is detected. Fo	l is then sent th or total inorgani	rough a c carbon
subtracting the	TIC from the TC.	indicates the TC/TDC or TIC/DIC as a ticulate = Total - Dissolved.	pplicable. The to	tal organic carbon content of the	e sample is calo	culated by
C-TOT-ORG-LOV		Total Organic Carbon		APHA 5310 TOTAL ORGANI	C CARBON (T	OC)
pretreatment: U carrier gas conta halogen scrubbe	Infiltered sample = TC, aining the combustion er into a sample cell se	sis of ground water, wastewater, and su 0.45um filtered = TDC. Samples are in product from the combustion tube flow et in a non-dispersive infrared gas analy ample is injected into an IC reactor vess	njected into a com s through an inor yzer (NDIR) wher	bustion tube containing an oxid ganic carbon reactor vessel and e carbon dioxide is detected. Fo	lation catalyst. I is then sent th or total inorgani	The rough a c carbon
subtracting the	TIC from the TC.	indicates the TC/TDC or TIC/DIC as a ticulate = Total - Dissolved.	pplicable. The to	tal organic carbon content of the	e sample is calo	culated by
CL-IC-N-CL	Water	Chloride in Water by IC		EPA 300.1 (mod)		
Inorganic anions	s are analyzed by Ion (Chromatography with conductivity and/	or UV detection.			
OD-T-COL-CL	Water	Chemical Oxygen Demand (COD)		APHA 5220 D Colorimetry		
		d reflux colourimetric method				
OLOUR-TRUE-	-CL Water	Colour (True) by Spectrometer		APHA 2120 Color		
filtration of same	ple through a 0.45 um	pmetrically by comparison to platinum-c filter. Colour measurements can be hig oncurrent measurement of sample pH is	ghly pH depende			
EPH-L-ME-FID-C		EPH (C10-C19) & EPH (C19-C32)		BC Lab manual		
	ed from water using a h herefore not equivalent	nexane micro-extraction technique, with t to LEPH or HEPH.	analysis by GC-	FID, as per the BC Lab Manual.	EPH results in	nclude

Reference Information

F-IC-N-CL	Water	Fluoride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyz	zed by Ion Ch	nromatography with conductivity and/or UV detection.	
HARDNESS-CALC-CL	Water	Hardness	APHA 2340 B
		ss) is calculated from the sum of Calcium and Magnesiu centrations are preferentially used for the hardness calc	
HG-D-CVAA-CL	Water	Dissolved Mercury in Water by CVAAS	APHA 3030B/EPA 1631E (mod)
Water samples are filtered with stannous chloride, and		reserved with hydrochloric acid, then undergo a cold-oxi v CVAAS.	idation using bromine monochloride prior to reduction
HG-T-CVAA-CL	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)
Water samples undergo a	cold-oxidatior	n using bromine monochloride prior to reduction with sta	annous chloride, and analyzed by CVAAS.
MET-D-CCMS-CL	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020A (mod)
·	, ,,,,	reserved with nitric acid, and analyzed by CRC ICPMS.	
	,	nd volatile sulfur species may not be recovered by this n	
MET-T-CCMS-CL	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020A (mod)
		and hydrochloric acids, and analyzed by CRC ICPMS.	
		nd volatile sulfur species may not be recovered by this n	
MTBE-ADD-CL	Water	MTBE - additional to BTEX	EPA 8260C/5021A
MTBE Target compound co		, is heated in a sealed vial to equilibrium. The headspace is measured using mass spectrometry detection.	e from the vial is transferred into a gas chromatograph.
NH3-L-F-CL	Water	Ammonia, Total (as N)	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
			n J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society levels of ammonium in seawater", Roslyn J. Waston et
NO2-L-IC-N-CL	Water	Nitrite in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyz	zed by Ion Ch	nromatography with conductivity and/or UV detection.	
NO3-L-IC-N-CL	Water	Nitrate in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyz	zed by Ion Ch	nromatography with conductivity and/or UV detection.	
P-T-L-COL-CL	Water	Phosphorus (P)-Total	APHA 4500-P PHOSPHORUS
This analysis is carried out after persulphate digestion		lures adapted from APHA Method 4500-P "Phosphorus e.	". Total Phosphorus is determined colourimetrically
PH/EC/ALK-CL	Water	pH, Conductivity and Total Alkalinity	APHA 4500H,2510,2320
recommended for pH when pH measurement is determ Alkalinity measurement is b	e highly accu hined from the based on the	pH will have exceeded the 15 minute recommended hor rate results are needed) e activity of the hydrogen ions using a hydrogen electroo sample's capacity to neutralize acid the sample's capacity to convey an electric current	
PO4-DO-L-COL-CL	Water	Orthophosphate-Dissolved (as P)	APHA 4500-P PHOSPHORUS
		dures adapted from APHA Method 4500-P "Phosphorus een lab or field filtered through a 0.45 micron membran	
SO4-IC-N-CL	Water	Sulfate in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyz	zed by Ion Ch	nromatography with conductivity and/or UV detection.	
SOLIDS-TDS-CL	Water	Total Dissolved Solids	APHA 2540 C
		a glass fibre filter paper. The filtrate is then evaporated the total dissolved solids (TDS).	to dryness in a pre-weighed vial and dried at $180 - 2$ °C.
TKN-L-F-CL	Water	Total Kjeldahl Nitrogen	APHA 4500-NORG (TKN)
		dures adapted from APHA Method 4500-Norg D. "Block stion followed by Flow-injection analysis with fluorescen	
TSS-CL	Water	Total Suspended Solids	APHA 2540 D-Gravimetric
		dures adapted from APHA Method 2540 "Solids". Solids ple through a glass fibre filter, and by drying the filter at	are determined gravimetrically. Total suspended solids 104 deg. C.

Reference Information

TURBIDITY-CL	Water	Turbidity APHA 2130 B-Nephelometer						
This analysis is carried out	using proced	ures adapted from APHA Method 2130 "Turbidity". Tur	bidity is determined by the nephelometric method.					
VOC-HS-MS-CL	Water	VOCs in Water	EPA 8260C/5021A					
I <i>i i</i>	0 /	is heated in a sealed vial to equilibrium. The headspace re measured using mass spectrometry detection.	ce from the vial is transferred into a gas chromatograph.					
XYLENES-CALC-CL	Water	Sum of Xylene Isomer Concentrations	CALCULATION					
Calculation of Total Xylenes	6							
		ations of the ortho, meta, and para Xylene isomers. R e no less than the square root of the sum of the square						
* ALS test methods may inco	rporate modif	ications from specified reference methods to improve	performance.					
The last two letters of the abo	ove test code	(s) indicate the laboratory that performed analytical an	alysis for that test. Refer to the list below:					
Laboratory Definition Code	Laborat	ory Location						
CL	ALS EN	VIRONMENTAL - CALGARY, ALBERTA, CANADA						
Chain of Custody Numbers:								

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

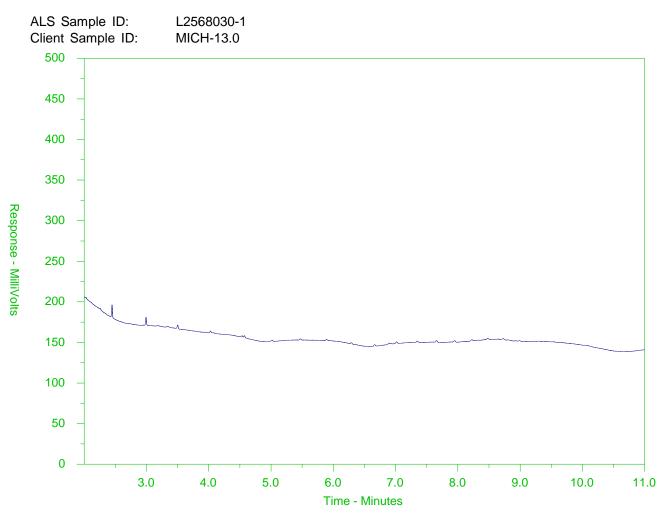
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



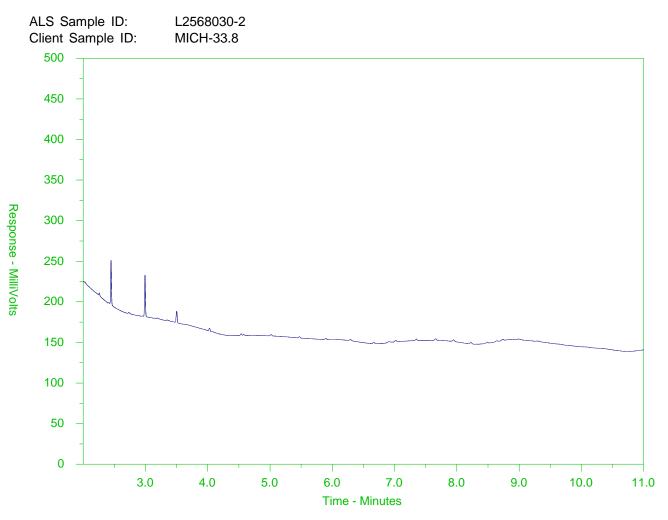
<	- EPH10-19 EPH	419-32→
nC10	nC19	nC32
174'C	330°C	467'C
346'F	626'F	873'F
\leftarrow Gasoline \rightarrow	<motor <="" oils="" th=""><th>Lube Oils/ Grease</th></motor>	Lube Oils/ Grease
<	Diesel/ Jet Fuels →	

The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.



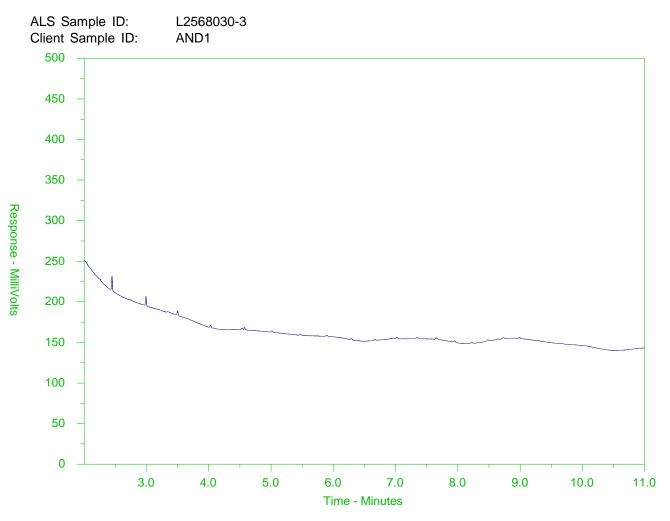
<	— EPH10-19 ———— EP	H19-32→
nC10	nC19	nC32
174'C	330'C	467'C
346'F	626'F	873'F
\leftarrow Gasoline \rightarrow	<motor <="" oils="" th=""><th>Lube Oils/ Grease</th></motor>	Lube Oils/ Grease
<	Diesel/ Jet Fuels →	

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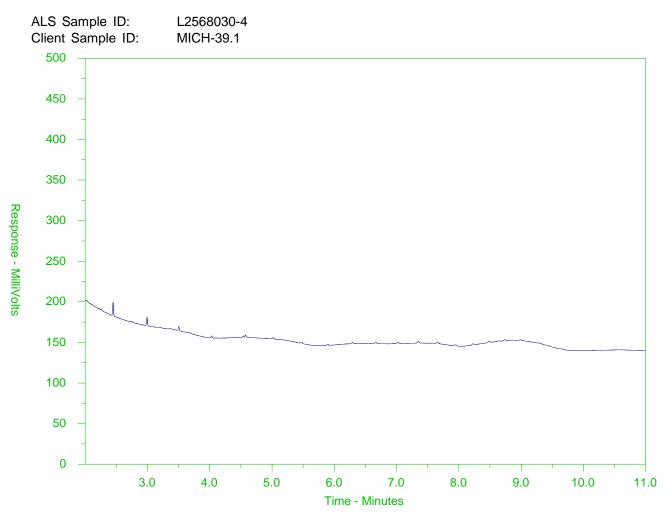
<	- EPH10-19	— EPH19-32→
nC10	nC19	nC32
174'C	330'C	467'C
346'F	626'F	873'F
\leftarrow Gasoline \rightarrow	<motor< th=""><th>Oils/ Lube Oils/ Grease \longrightarrow</th></motor<>	Oils/ Lube Oils/ Grease \longrightarrow
<	Diesel/ Jet Fuels	•

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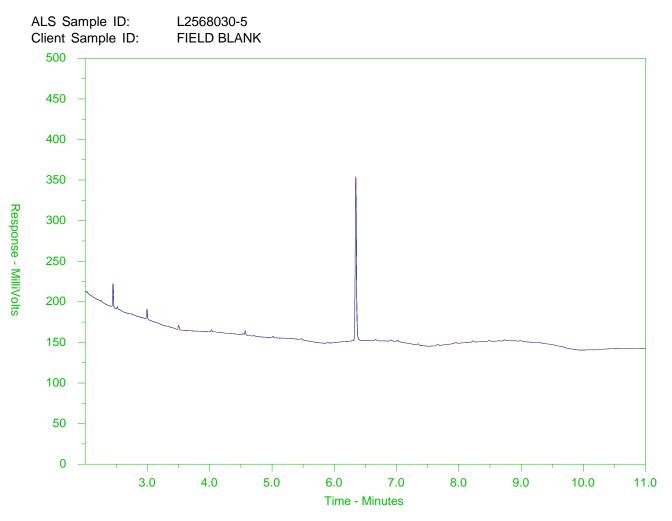
<	— EPH10-19 ———— EP	H19-32→
nC10	nC19	nC32
174'C	330'C	467'C
346'F	626'F	873'F
\leftarrow Gasoline \rightarrow	<motor <="" oils="" th=""><th>Lube Oils/ Grease</th></motor>	Lube Oils/ Grease
<	Diesel/ Jet Fuels →	

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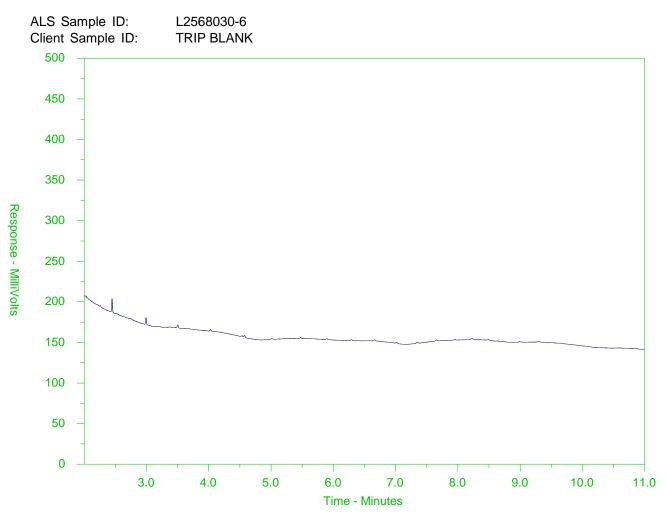
<	– EPH10-19 E	2H19-32→
nC10	nC19	nC32
174'C	330'C	467'C
346'F	626'F	873'F
\leftarrow Gasoline \rightarrow	<motor oils,<="" th=""><th>/ Lube Oils/ Grease ────</th></motor>	/ Lube Oils/ Grease ────
*	Diesel/ Jet Fuels →	

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The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.



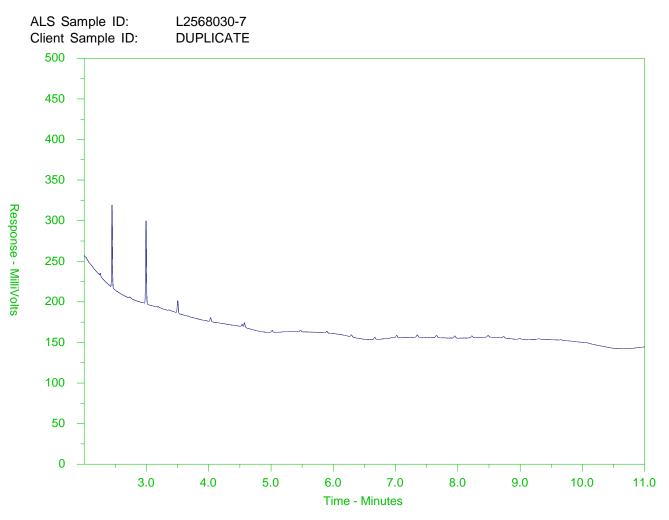
<	— EPH10·19 ———— EPH	19-32→
nC10	nC19	nC32
174'C	330'C	467'C
346'F	626'F	873'F
\leftarrow Gasoline \rightarrow	Motor Oils/ L	ube Oils/ Grease
<	Diesel/ Jet Fuels ────→	

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A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.



<	— EPH10·19 ———— EPH	119-32→
nC10	nC19	nC32
174'C	330'C	467'C
346'F	626'F	873'F
\leftarrow Gasoline \rightarrow	<motor i<="" oils="" th=""><th>.ube Oils/ Grease</th></motor>	.ube Oils/ Grease
<	Diesel/ Jet Fuels →	

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Environment

Chain of Custody / Analytical Request Form Canada Toll Free: 1 800 668 9878 www.alsglobal.com

COC #

ALS Environmental		<u>www.a</u>	isglobal.com										Pa	age	1 of			
Report To							Service Requested (Rush for routine analysis subject to availability)											
Company: North Coal Limited	rd 🗆 Other				Regular (Standard Turnaround Times - Business Days)													
Contact:	Excel Digital Fax O Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm							onfirm TA	— Г									
Address: #5000 Hwy 43 Email 1:						O Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT												
Sparwood, BC, V0B 2G1	Email 2:	mike.robinson@	<u>)lotic.co</u>		O Same Day or Weekend Emergency - Contact ALS to Confirm TAT													
Phone: Fax:	Email 3:	mia.otto@lotic.c	20		Analysis Request													
Invoice To Same as Report ? Yes	No Client / F	Project Information	on		Please indicate below Filtered, Preserved or both (F, P, F/P)													
Hardcopy of Invoice with Report? Ves	□ No Job # :	18CANA02				Ρ		Р	Р	F/P	Р	P	Р					
Company:	PO / AFE	:										1				-		
Contact:	LSD:]													
Address					.											ers		
Phone: Fax:	Quote #:	Q75701						100		6	≥	1				tain		
Lab Work Order # (lab use only)	ALS Contact:	Patryk Wojciak	Sampler:	Mia Otto				COD/NH3/TKN/TOC	Metals	Dissolved Metals	Dissolved mercury	arcury				of Containers		
# (This description w	dentification ill appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	General	EPH x2	DOC	COD/NF	Total Me	Dissolve	Dissolve	Total Mercury	VOCx2			Number		
MICH-13.0		16-03-2021	13:25	Surface Water	X	X	Х	Х	х	X	ТХ.	X	X		-	11		
2 MICH-33.8		16-03-2021		Surface Water	X	Х	X	х	X	X	X	X	x			11		
AND1		16-03-2021	11:45	Surface Water	X	X	X	X	X	X	X	x	x					
MICH-39.1		1505-50-61	10:50	Surface Water	X	X	X	X	X	x	X	×	^ X					
Field Blank		1502-20-01		Surface Water	X	X	X	x								11		
Trip Blank	· · · · · · · · · · · · · · · · · · ·								X	X	<u>X</u>	X	X			11		
7 Duplicate		16-03-2021		Surface Water	X	X	X	X	X	X	X	х	X			11		
	· · · · · · · · · · · · · · · · · · ·	16-03-2021	10:35	Surface Water	X	X	X	X	x	x	X	х	x			11		
	-			· · · · · · · · · · · · · · · · · · ·														
	 																	
				· · ·														
Zz	8030-COFC															+		
										-+						+		
Special Instructions / Regu	lations with water or land use (CCM	AE-Ereshwater A	quotic Life (D.C									لينت				<u> </u>		
				CSR - Commerc		lier	1 - N	atura	I, etc) / на	zard	ous L	etails	3				
oth VOCs and DOC for duplicate not preserved																		
	Failure to complete all portions of	f this form may	delay analysis	Please fill in thi	s forr	n LE(GIBL	(.										
By the use o	this form the user acknowledges a	and agrees with t	the Terms and	Conditions as n	ovide	no he	2 50	narati	e Exc	el tal	o.							
Also provided on another Exce	tab are the ALS location addresse	s, phone numbe	rs and sample	container / prese	rvati	on / h	oldin	g tim	e tab	le for	con	mon	analy	/ses.				
Released by: Date (cd.mmm-yy)	SHIP	MENT RECEPTIC	ON (lab use onl	<u>у)</u>			SH							e only)	-,		
	Time (hh-mm) Received by:".	Date:	Time:	Temperature:	Verif	ied by	r:		Date:			Time	:		bservat			
Aia Otto 9-Mar-21	16:00 B	3/17	452	∠ °C				1						ΙY	es / No	?		

NA-FM-0326d v07 Front / 19 August 2013