



Environmental Division

Certificate of Analysis

PUBLIC WORKS CANADA Report Date: 02-JUL-10 14:05 (MT)

Version: FINAL

TELUS PLAZA NORTH 5TH FLOOR 10025 JASPER AVE EDMONTON AB T5J 1S6

ATTN: MICHAEL BERNARDIN

Lab Work Order #: L895495 Date Received: 09-JUN-10

Project P.O. #: NOT SUBMITTED

Job Reference:

Legal Site Desc: JERICHO MINE SITE

CofC Numbers: 08-000228

Other Information:

Comments:

Nicole Thibault Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY. ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

<0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.10 <0.010 <0.25 <0.25 <0.25		0.00050 0.00050 0.00050 0.00050 0.10 0.1	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	15-JUN-10 15-JUN-10 15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 15-JUN-10 15-JUN-10	R1274042 R1274042 R1274042 R1274042 R1274042 R1274042 R1274042 R1277635 R1277635 R1277635
<0.00050 <0.00050 <0.00050 <0.00050 <0.10 <0.10 <0.010 <0.25 <0.25 <0.25 <0.050		0.00050 0.00050 0.00050 0.00050 0.10 0.1	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10	R1274042 R1274042 R1274042 R1274042 R1274042 R1274042 R1277635 R1277635 R1277635
<0.00050 <0.00050 <0.00050 <0.00050 <0.10 <0.10 <0.010 <0.25 <0.25 <0.25 <0.050		0.00050 0.00050 0.00050 0.00050 0.10 0.1	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10	R1274042 R1274042 R1274042 R1274042 R1274042 R1274042 R1277635 R1277635 R1277635
<0.00050 <0.00050 <0.00050 <0.00050 <0.10 <0.10 <0.010 <0.25 <0.25 <0.25 <0.050		0.00050 0.00050 0.00050 0.00050 0.10 0.1	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10	R1274042 R1274042 R1274042 R1274042 R1274042 R1274042 R1277635 R1277635 R1277635
<0.00050 <0.00050 <0.00050 <0.00050 <0.10 <0.10 <0.010 <0.25 <0.25 <0.25 <0.050		0.00050 0.00050 0.00050 0.00050 0.10 0.1	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10	R1274042 R1274042 R1274042 R1274042 R1274042 R1274042 R1277635 R1277635 R1277635
<0.00050 <0.00050 <0.00050 <0.00050 <0.10 <0.10 <0.010 <0.25 <0.25 <0.25 <0.050		0.00050 0.00050 0.00050 0.00050 0.10 0.1	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10	R1274042 R1274042 R1274042 R1274042 R1274042 R1274042 R1277635 R1277635 R1277635
<0.00050 <0.00050 <0.00050 <0.00050 <0.10 <0.10 <0.010 <0.25 <0.25 <0.25 <0.050		0.00050 0.00050 0.00050 0.00050 0.10 0.1	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10	R1274042 R1274042 R1274042 R1274042 R1274042 R1274042 R1277635 R1277635 R1277635
<0.00050 <0.00050 <0.00050 <0.10 <0.10 <0.0010 <0.25 <0.25 <0.25 <0.05		0.00050 0.00050 0.00050 0.10 0.10 0.0010 0.25 0.25	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 15-JUN-10	R1274042 R1274042 R1274042 R1274042 R1274042 R1277635 R1277635 R1277635
<0.00050 <0.00050 <0.10 <0.10 <0.0010 <0.25 <0.25 <0.25 <0.05		0.00050 0.00050 0.10 0.10 0.0010 0.25 0.25	mg/L mg/L mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 15-JUN-10	R1274042 R1274042 R1274042 R1274042 R1274042 R1277635 R1277635 R1277635
<0.00050 <0.10 <0.010 <0.0010 <0.25 <0.25 <0.25 <0.05		0.00050 0.10 0.10 0.0010 0.25 0.25	mg/L mg/L mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 11-JUN-10 15-JUN-10	R1274042 R1274042 R1274042 R1274042 R1277635 R1277635
<0.10 <0.10 <0.0010 <0.25 <0.25 <0.25 <0.0050		0.10 0.10 0.0010 0.25 0.25	mg/L mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 11-JUN-10 15-JUN-10 15-JUN-10	R1274042 R1274042 R1274042 R1277635 R1277635 R1277635
<0.10 <0.0010 <0.25 <0.25 <0.25 <0.05		0.10 0.0010 0.25 0.25	mg/L mg/L mg/L mg/L	15-JUN-10	11-JUN-10 11-JUN-10 15-JUN-10 15-JUN-10	R1274042 R1274042 R1277635 R1277635 R1277635
<0.0010 <0.25 <0.25 <0.25 <0.05		0.0010 0.25 0.25	mg/L mg/L mg/L	15-JUN-10	11-JUN-10 15-JUN-10 15-JUN-10	R1274042 R1277635 R1277635 R1277635
<0.25 <0.25 <0.25 <0.0050		0.25 0.25	mg/L mg/L	15-JUN-10	15-JUN-10 15-JUN-10	R1277635 R1277635 R1277635
<0.25 <0.25 <0.0050		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635 R1277635
<0.25 <0.25 <0.0050		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635 R1277635
<0.25			-			R1277635
<0.00050		0.20	ilig/ L	10-00N-10	10-3014-10	
		0.00050	mg/L		11-JUN-10	R1274042
< 0.00050		0.00050	mg/L		11-JUN-10	R1274042
< 0.00050		0.00050	mg/L		11-JUN-10	R1274042
< 0.00050		0.00050	mg/L		11-JUN-10	R1274042
< 0.00050		0.00050	mg/L		11-JUN-10	R1274042
<0.10		0.10	mg/L		11-JUN-10	R1274042
<0.10		0.10	mg/L		11-JUN-10	R1274042
< 0.0010		0.0010	mg/L		11-JUN-10	R1274042
			•			
0.60		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635
0.74		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635
<0.25		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635
<0.000E0		0.00050	ma/l		11 ₋ II IN 10	D1274042
			_			R1274042 R1274042
			-			R1274042 R1274042
			-			
			_			R1274042
						R1274042
						R1274042
0.0040		0.0010	mg/L		11-JUN-10	R1274042
0.00		0.05	m c:/l	45 1111 40	15 ILIN 10	D4077005
			-			R1277635
			-			R1277635
<0.25		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635
_	<0.00050 <0.00050 <0.00050 <0.00050 <0.10 <0.10 <0.0010 0.60 0.74	<0.00050 <0.00050 <0.00050 <0.00050 <0.10 <0.10 <0.0010 0.60 0.74 <0.25 <0.00050 <0.00050 <0.00050 <0.00050 <0.00040 0.92 2.61	<0.00050	<0.00050	<0.00050	<0.00050

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L895495-4 POWER PLANT CONTAINMENT							
Sampled By: AC on 04-JUN-10							
Matrix: GRAB							
BTEX & F1-F4							
BTEX and F1 (C6-C10)							
Benzene	<0.00050		0.00050	mg/L		11-JUN-10	R1274042
Toluene	<0.00050		0.00050	mg/L		11-JUN-10	R1274042
Ethylbenzene o-Xylene	<0.00050 <0.00050		0.00050 0.00050	mg/L mg/L		11-JUN-10 11-JUN-10	R1274042 R1274042
m+p-Xylene	0.00069		0.00050	mg/L		11-JUN-10	R1274042
F1(C6-C10)	<0.10		0.10	mg/L		11-JUN-10	R1274042
F1-BTEX	<0.10		0.10	mg/L		11-JUN-10	R1274042
Xylenes	<0.0010		0.0010	mg/L		11-JUN-10	R1274042
F2, F3, F4							
F2 (>C10-C16)	<0.25		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635
F3 (C16-C34)	0.72		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635
F4 (C34-C50)	<0.25		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635
L895495-5 PKCA JER WQ2							
Sampled By: AC on 08-JUN-10 @ 10:00							
Matrix: GRAB							
Miscellaneous Parameters							
Daphnia Magna - Pass/Fail	See Attached				12-JUN-10	12-JUN-10	R1289023
Trout Bioassay - Pass/Fail	See Attached				12-JUN-10	12-JUN-10	R1289043
L895495-6 JER WQ2							
Sampled By: AC on 08-JUN-10 @ 10:00							
Matrix: GRAB							
BTEX & F1-F4							
BTEX and F1 (C6-C10) Benzene	-0.00050		0.00050	ma/l		11-JUN-10	R1274042
Toluene	<0.00050 <0.00050		0.00050 0.00050	mg/L mg/L		11-JUN-10 11-JUN-10	R1274042 R1274042
Ethylbenzene	<0.00050		0.00050	mg/L		11-JUN-10	R1274042
o-Xylene	<0.00050		0.00050	mg/L		11-JUN-10	R1274042
m+p-Xylene	<0.00050		0.00050	mg/L		11-JUN-10	R1274042
F1(C6-C10)	<0.10		0.10	mg/L		11-JUN-10	R1274042
F1-BTEX	<0.10		0.10	mg/L		11-JUN-10	R1274042
Xylenes	<0.0010		0.0010	mg/L		11-JUN-10	R1274042
F2, F3, F4							
F2 (>C10-C16)	<0.25		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635
F3 (C16-C34)	<0.25		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635
F4 (C34-C50) Total organic carbon by combustion	<0.25		0.25	mg/L	15-JUN-10	15-JUN-10	R1277635
Total Organic Carbon by combustion Total Organic Carbon							
Total Organic Carbon Total Organic Carbon	2.76		0.50	mg/L		28-JUN-10	R1299804
Miscellaneous Parameters			2.00	<i>y</i> –			
Acidity (as CaCO3)	2060		1.0	mg/L		17-JUN-10	R1279633
Ammonia as N	0.0353		0.0050	mg/L		11-JUN-10	R1274691
Biochemical Oxygen Demand	14.3		5.0	mg/L		10-JUN-10	R1282242
Chloride (CI)	3.27		0.50	mg/L		13-JUN-10	R1280243
Conductivity	107		2.0	uS/cm		15-JUN-10	R1277925
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L		18-JUN-10	R1281096
Ortho Phosphate as P	<0.0010		0.0010	mg/L		15-JUN-10	R1277284
Fecal Coliforms	<1		1	CFU/100mL		09-JUN-10	R1274315
Hardness (as CaCO3)	35.4		0.81	mg/L		25-JUN-10	

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

Nitrite (as N)	Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
Sampled By: AC on 08-JUN-10 @ 10.00 Matrix: GRAB	L 895495-6 JFR WQ2							
Matric: GRAB Nitrate (as N)								
Nitrite (as N)								
Nitrite (as N)		4.57		0.0050	a/I		12 11 11 10	D4000040
Oil and Grease	, ,				•			R1280243
Suifale (SO4)	` '				ŭ			R1280243
Total Dissolved Phosphate As P 0.0041 0.0020 mg/L 12-JUN-10 R1227 R1210		_		-	ŭ			R1284303
Total Dissolved Solids Total Inorganic Carbon A4 1.0 mg/L 30.0UN-10 R1280 Mercuny (Hg)-Total 4.0,000050 Mg/L Total Phosphate as P 0.0135 0.00020 Mg/L Total Suspended Solids	, ,				•			R1280243
Total Inorganic Carbon	Total Dissolved Phosphate As P	0.0041		0.0020	mg/L			R1274786
Mercury (Hg)-Total	Total Dissolved Solids	58		10	mg/L		11-JUN-10	R1280607
Total Phosphate as P	Total Inorganic Carbon	4.4		1.0	mg/L		30-JUN-10	R1315283
Total Suspended Solids	Mercury (Hg)-Total	<0.000050		0.000050	mg/L		17-JUN-10	R1279121
Turbidity P	Total Phosphate as P	0.0135		0.0020	mg/L		12-JUN-10	R1274786
PH	Total Suspended Solids	<3.0		3.0	mg/L		11-JUN-10	R1274817
PH	Turbidity	2.26		0.10	NTU		12-JUN-10	R1274856
Alkalinity, Dy Auto. Titration Alkalinity, Dicarbonate (as CaCO3) 35.2 1.0 mg/L 15.JUN-10 R1277 Alkalinity, Elicarbonate (as CaCO3) 35.2 1.0 mg/L 15.JUN-10 R1277 Alkalinity, Elicarbonate (as CaCO3) 4.1					_			R1277925
Alkalinity, Total (as CaCO3) 35.2 1.0 mg/L 15.JUN-10 R1277				5.15	r.,			1
Alkalinity, Bicarbonate (as CaCO3) 35.2 1.0 mg/L 15-JUN-10 R1277		35.2		1.0	mg/L		15-JUN-10	R1277925
Alkalinity, Carbonate (as CaCO3) Alkalinity, Hydroxide (as CaCO3)				I	•			R1277925
Alkalinity, Hydroxide (as CaCO3)	Alkalinity, Carbonate (as CaCO3)			I	_			R1277925
Dissolved Metals in Water by ICPMS(Low) Aluminum (A)-Dissolved 0.0176 0.0010 mg/L 24-JUN-10 R1291 Antiminum (Sb)-Dissolved 0.00010 0.00010 mg/L 24-JUN-10 R1291 Arsenic (As)-Dissolved 0.00025 0.00010 mg/L 24-JUN-10 R1291 Beryllium (Be)-Dissolved 0.00050 0.00050 mg/L 24-JUN-10 R1291 Bismuth (Bi)-Dissolved <0.00050		<1.0		1.0	_		15-JUN-10	R1277925
Aluminum (A)-Dissolved					ŭ			
Antimony (Sb)-Dissolved	Dissolved Metals in Water by ICPMS(Low)							
Arsenic (As)-Dissolved	Aluminum (AI)-Dissolved	0.0176		0.0010	mg/L		24-JUN-10	R1291364
Barium (Ba)-Dissolved	Antimony (Sb)-Dissolved	0.00010		0.00010	mg/L		24-JUN-10	R1291364
Beryllium (Be)-Dissolved	Arsenic (As)-Dissolved	0.00025		0.00010	mg/L		24-JUN-10	R1291364
Bismuth (Bi)-Dissolved	Barium (Ba)-Dissolved	0.0206		0.000050	mg/L		24-JUN-10	R1291364
Boron (B)-Dissolved	Beryllium (Be)-Dissolved	<0.00050		0.00050	mg/L		24-JUN-10	R1291364
Cadmium (Cd)-Dissolved <0.000050	Bismuth (Bi)-Dissolved	<0.00050		0.00050	mg/L		24-JUN-10	R1291364
Calcium (Ca)-Dissolved 7.44 0.050 mg/L 24-JUN-10 R1291 Chromium (Cr)-Dissolved <0.00050	Boron (B)-Dissolved	0.016		0.010	mg/L		24-JUN-10	R1291364
Chromium (Cr)-Dissolved <0.00050 0.00050 mg/L 24-JUN-10 R1291 Cobalt (Co)-Dissolved <0.00010	Cadmium (Cd)-Dissolved	<0.000050		0.000050	mg/L		24-JUN-10	R1291364
Cobalt (Co)-Dissolved <0.00010	` '				mg/L		24-JUN-10	R1291364
Copper (Cu)-Dissolved 0.00174 0.00010 mg/L 24-JUN-10 R1291 Lead (Pb)-Dissolved <0.000050) · · · · · · · · · · · · · · · · · · ·	<0.00050		0.00050	mg/L			R1291364
Lead (Pb)-Dissolved <0.000050	` ′			0.00010	_			R1291364
Lithium (Li)-Dissolved <0.0050		0.00174		0.00010	•			R1291364
Magnesium (Mg)-Dissolved 4.07 0.050 mg/L 24-JUN-10 R1291 Manganese (Mn)-Dissolved 0.00305 0.000050 mg/L 24-JUN-10 R1291 Molybdenum (Mo)-Dissolved 0.00210 0.00050 mg/L 24-JUN-10 R1291 Nickel (Ni)-Dissolved 0.00191 0.00050 mg/L 24-JUN-10 R1291 Potassium (K)-Dissolved 3.28 0.50 mg/L 24-JUN-10 R1291 Selenium (Se)-Dissolved <0.0010	` '				•			R1291364
Manganese (Mn)-Dissolved 0.00305 0.000050 mg/L 24-JUN-10 R1291 Molybdenum (Mo)-Dissolved 0.00210 0.000050 mg/L 24-JUN-10 R1291 Nickel (Ni)-Dissolved 0.00191 0.00050 mg/L 24-JUN-10 R1291 Potassium (K)-Dissolved 3.28 0.50 mg/L 24-JUN-10 R1291 Selenium (Se)-Dissolved <0.0010	, ,				Ū			R1291364
Molybdenum (Mo)-Dissolved 0.00210 0.000050 mg/L 24-JUN-10 R1291 Nickel (Ni)-Dissolved 0.00191 0.00050 mg/L 24-JUN-10 R1291 Potassium (K)-Dissolved 3.28 0.50 mg/L 24-JUN-10 R1291 Selenium (Se)-Dissolved <0.0010	3 (3)				_			R1291364
Nickel (Ni)-Dissolved 0.00191 0.00050 mg/L 24-JUN-10 R1291 Potassium (K)-Dissolved 3.28 0.50 mg/L 24-JUN-10 R1291 Selenium (Se)-Dissolved <0.0010	, ,							R1291364
Potassium (K)-Dissolved 3.28 0.50 mg/L 24-JUN-10 R1291 Selenium (Se)-Dissolved <0.0010	, ,				_			R1291364
Selenium (Se)-Dissolved <0.0010	` '				_			R1291364
Silver (Ag)-Dissolved <0.000010	` ,				_			R1291364
Sodium (Na)-Dissolved 4.10 0.50 mg/L 24-JUN-10 R1291 Strontium (Sr)-Dissolved 0.142 0.00010 mg/L 24-JUN-10 R1291 Thallium (TI)-Dissolved <0.00010	` ,				•			R1291364
Strontium (Sr)-Dissolved 0.142 0.00010 mg/L 24-JUN-10 R1291 Thallium (Tl)-Dissolved <0.00010	·				•			R1291364
Thallium (TI)-Dissolved <0.00010					_			R1291364
Tin (Sn)-Dissolved <0.00010	` '				_			R1291364
Uranium (U)-Dissolved 0.00285 0.000010 mg/L 24-JUN-10 R1291 Vanadium (V)-Dissolved <0.0010	` <i>'</i>							1
Vanadium (V)-Dissolved <0.0010					•			R1291364 R1291364
Zinc (Zn)-Dissolved <0.0010	` ,				_			R1291364 R1291364
Dissolved Metals in Water by ICPOES 0.030 mg/L 23-JUN-10 R1283 Silicon (Si)-Dissolved 0.771 0.050 mg/L 23-JUN-10 R1283	` '				_			R1291364 R1291364
Iron (Fe)-Dissolved <0.030 0.030 mg/L 23-JUN-10 R1283 Silicon (Si)-Dissolved 0.771 0.050 mg/L 23-JUN-10 R1283	` '	\0.0010		0.0010	ilig/L		27 3011-10	131281304
Silicon (Si)-Dissolved 0.771 0.050 mg/L 23-JUN-10 R1283		<0.030		0.030	ma/l		23-JUN-10	R1283924
					•			R1283924
(Titanium (Ti)-Dissolved	<0.010		0.030	mg/L		23-JUN-10	R1283924
ICPOES & ICPMS in Water (Total Metals)	` '	15.010						

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
1 905405 6 IED WO2							
L895495-6 JER WQ2							
Sampled By: AC on 08-JUN-10 @ 10:00							
Matrix: GRAB							
Total Metals in Water by ICPMS(Low)	0.0005		0.0040	/I		04 11 151 40	D4004004
Aluminum (AI)-Total Antimony (Sb)-Total	0.0905		0.0010	mg/L		24-JUN-10	R1291364
Aritimony (Sb)-Total Arsenic (As)-Total	0.00011 0.00024		0.00010 0.00010	mg/L		24-JUN-10 24-JUN-10	R1291364 R1291364
Barium (Ba)-Total	0.00024		0.00010	mg/L mg/L		24-JUN-10 24-JUN-10	R1291364 R1291364
Beryllium (Be)-Total	<0.0050		0.00050	mg/L		24-JUN-10 24-JUN-10	R1291364
Bismuth (Bi)-Total	<0.00050		0.00050	mg/L		24-JUN-10	R1291364
Boron (B)-Total	0.015		0.00030	mg/L		24-JUN-10	R1291364
Cadmium (Cd)-Total	<0.00050		0.00050	mg/L		24-JUN-10	R1291364
Calcium (Ca)-Total	8.19		0.050	mg/L		24-JUN-10	R1291364
Chromium (Cr)-Total	0.00056		0.00050	mg/L		24-JUN-10	R1291364
Cobalt (Co)-Total	0.00016		0.00010	mg/L		24-JUN-10	R1291364
Copper (Cu)-Total	0.00179		0.00010	mg/L		24-JUN-10	R1291364
Lead (Pb)-Total	0.000117		0.000050	mg/L		24-JUN-10	R1291364
Lithium (Li)-Total	<0.0050		0.0050	mg/L		24-JUN-10	R1291364
Magnesium (Mg)-Total	4.54		0.050	mg/L		24-JUN-10	R1291364
Manganese (Mn)-Total	0.0282		0.000050	mg/L		24-JUN-10	R1291364
Molybdenum (Mo)-Total	0.00219		0.000050	mg/L		24-JUN-10	R1291364
Nickel (Ni)-Total	0.00286		0.00050	mg/L		24-JUN-10	R1291364
Potassium (K)-Total	3.57		0.50	mg/L		24-JUN-10	R1291364
Selenium (Se)-Total	<0.0010		0.0010	mg/L		24-JUN-10	R1291364
Silver (Ag)-Total	<0.000010		0.000010	mg/L		24-JUN-10	R1291364
Sodium (Na)-Total	4.54		0.50	mg/L		24-JUN-10	R1291364
Strontium (Sr)-Total	0.148		0.00010	mg/L		24-JUN-10	R1291364
Thallium (TI)-Total	<0.00010		0.00010	mg/L		24-JUN-10	R1291364
Tin (Sn)-Total	<0.00010		0.00010	mg/L		24-JUN-10	R1291364
Uranium (U)-Total	0.00330		0.000010	mg/L		24-JUN-10	R1291364
Vanadium (V)-Total Zinc (Zn)-Total	<0.0010		0.0010	mg/L		24-JUN-10 24-JUN-10	R1291364
` '	<0.0010		0.0010	mg/L		24-JUN-10	R1291364
Total Metals in Water by ICPOES Iron (Fe)-Total	0.102		0.030	mg/L		23-JUN-10	R1283924
Silicon (Si)-Total	0.102		0.050	mg/L		23-JUN-10 23-JUN-10	R1283924
Titanium (Ti)-Total	<0.010		0.030	mg/L		23-JUN-10 23-JUN-10	R1283924
	VO.010		0.010	mg/ L		20 0011 10	1(1203324

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Aluminum (Al)-Total	MB-LOR	L895495-6

Test Method References:

ALS Test Code	LS Test Code Matrix Test Description		Method Reference**	
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"	

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

Acidity by Automatic Titration APHA 2310 Acidity ACY-PCT-VA Water

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified

endpoint.

ALK-PCT-VA Water Alkalinity by Auto. Titration APHA 2320 "Alkalinity"

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

ALK-PCT-VA Water Alkalinity by Auto. Titration APHA 2320 Alkalinity

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

ANIONS-CL-IC-VA Water Chloride by Ion Chromatography APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent

Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

ANIONS-NO2-IC-VA Nitrite by Ion Chromatography Water APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Specifically, the nitrite detection is by UV

absorbance and not conductivity.

ANIONS-NO3-IC-VA Water Nitrate by Ion Chromatography APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Specifically, the nitrate detection is by UV absorance

and not conductivity.

ANIONS-SO4-IC-VA Water Sulfate by Ion Chromatography APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

BOD5-YI Biochemical Oxygen Demand APHA 5210 A& B (BOD)

Samples are incubated at 200C +1oC for 5 days. Comparison of DO content at the beginning and end of the incubation period provides a measure of

the biochemical oxygen demand.

BTEX and F1 (C6-C10) EPA 5021/8015&8260 GC-MS & FID BTX,F1-ED Water C-TOT-INORG-CL Water Total Inorganic Carbon APHA 5310 C-Instrumental

C-TOT-ORG-LOW-CL **Total Organic Carbon** APHA 5310 C-Instrumental Water EC-PCT-VA Conductivity (Automated) APHA 2510 Auto. Conduc. Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity

electrode.

F2,F3,F4-ED Water F2, F3, F4 EPA 3510/CCME PHC CWS-GC-FID

FC-MF-YI **APHA 9222D** Water Fecal Coliform HARDNESS-CALC-VA Water Hardness **APHA 2340B**

Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

HG-DIS-CVAFS-VA Water Dissolved Mercury in Water by EPA SW-846 3005A & EPA 245.7

CVAFS

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

Test Method References:

ALS Test Code Matrix Test Description Method Reference**

HG-TOT-CVAFS-VA Water Total Mercury in Water by CVAFS EPA 245.7

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-DIS-ICP-VA Water Dissolved Metals in Water by EPA SW-846 3005A/6010B

ICPOES

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma optical emission spectrophotometry (EPA Method 6010B).

MET-DIS-LOW-MS-VA Water Dissolved Metals in Water by EPA SW-846 3005A/6020A

ICPMS(Low)

This applying is carried out using procedures adapted from "Standard Methods for the Examination of Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

MET-TOT-ICP-VA Water Total Metals in Water by ICPOES EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-TOT-LOW-MS-VA Water Total Metals in Water by EPA SW-846 3005A/6020A ICPMS(Low)

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

NH3-COL-VA Water Ammonia by Colour APHA 4500-NH3 "Nitrogen (Ammonia)"

This analysis is carried out, on unpreserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using the phenate colourimetric method.

NH3-COL-VA Water Ammonia by Colour APHA 4500-NH3 Nitrogen (Ammonia)

This analysis is carried out, on unpreserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using the phenate colourimetric method.

OGG-LL-SF-VA Water Oil & Grease by Gravimetric BCMOE GRAVIMETRIC

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Methods 3510 & 9071, published by the United States Environmental Protection Agency (EPA), "Standard Methods for the Examination of Water and Wastewater", 20th ed., Method 5520, published by the American Public Health Association, and "BC Environmental Laboratory Manual for the Analysis of Water, Wastewater, Sediment and Biological Materials," 5th ed., published by the B.C. Ministry of Environment, Lands & Parks, 1994. The procedure involves an extraction of the entire water sample with hexane. This extract is then evaporated to dryness, and the residue weighed to determine Oil and Grease. ALS Environmental's routine detection limit, or Limit of Reporting (LOR), for this method is 2 mg/L for a 1L sample volume. By request, a LOR of 1 mg/L is sometimes applied for this method. The 1 mg/L LOR is equal to the 99% confidence limit Method Detection Limit as defined by the US EPA. A higher degree of variability is expected at levels below 2 mg/L.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H "pH Value"

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

PO4-DO-COL-VA Water Dissolved ortho Phosphate by APHA 4500-P "Phosphorous"

Colour

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". All forms of phosphate are determined by the ascorbic acid colourimetric method. Dissolved ortho-phosphate (dissolved reactive phosphorous) is determined by direct measurement. Total phosphate (total phosphorous) is determined after persulphate digestion of a sample. Total dissolved phosphorous) is determined by filtering

Test Method References:

ALS Test Code Matrix Test Description Method Reference**

a sample through a 0.45 micron membrane filter followed by persulfate digestion of the filtrate.

PO4-DO-COL-VA Water Dissolved ortho Phosphate by

olved ortho Phosphate by APHA 4500-P Phosphorous

Colour

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". All forms of phosphate are determined by the ascorbic acid colourimetric method. Dissolved ortho-phosphate (dissolved reactive phosphorous) is determined by direct measurement. Total phosphate (total phosphorous) is determined after persulphate digestion of a sample. Total dissolved phosphorous) is determined by filtering a sample through a 0.45 micron membrane filter followed by persulfate digestion of the filtrate.

PO4-T-COL-VA Water Total Phosphate P by Color APHA 4500-P "Phosphorous"

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". All forms of phosphate are determined by the ascorbic acid colourimetric method. Dissolved ortho-phosphate (dissolved reactive phosphorous) is determined by direct measurement. Total phosphate (total phosphorous) is determined after persulphate digestion of a sample. Total dissolved phosphorous) is determined by filtering a sample through a 0.45 micron membrane filter followed by persulfate digestion of the filtrate.

PO4-T-COL-VA Water Total Phosphate P by Color APHA 4500-P Phosphorous

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". All forms of phosphate are determined by the ascorbic acid colourimetric method. Dissolved ortho-phosphate (dissolved reactive phosphorous) is determined by direct measurement. Total phosphate (total phosphorous) is determined after persulphate digestion of a sample. Total dissolved phosphorous) is determined by filtering a sample through a 0.45 micron membrane filter followed by persulfate digestion of the filtrate.

PO4-TD-COL-VA Water Total Dissolved Phosphate by APHA 4500-P Phosphorous

Colour

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". All forms of phosphate are determined by the ascorbic acid colourimetric method. Dissolved ortho-phosphate (dissolved reactive phosphorous) is determined by direct measurement. Total phosphate (total phosphorous) is determined after persulphate digestion of a sample. Total dissolved phosphorous) is determined by filtering a sample through a 0.45 micron membrane filter followed by persulfate digestion of the filtrate.

PO4-TD-COL-VA Water Total Dissolved Phosphate by APHA 4500-P " Phosphorous"

Colour

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". All forms of phosphate are determined by the ascorbic acid colourimetric method. Dissolved ortho-phosphate (dissolved reactive phosphorous) is determined by direct measurement. Total phosphate (total phosphorous) is determined after persulphate digestion of a sample. Total dissolved phosphate (total dissolved phosphorous) is determined by filtering a sample through a 0.45 micron membrane filter followed by persulfate digestion of the filtrate.

TDS-VA Water Total Dissolved Solids by APHA 2540 C - GRAVIMETRIC

Gravimetric

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.

TROUT-P/F-WP Water Trout Bioassay Pass/Fail EPS/1/RM/9+13

Certified, disease-free Rainbow Trout (Oncorhynchus mykiss) have been used for two decades in Canada for testing effluents under a series of regulation and guidelines. This organism inhabits waters of all Canadian Provinces and is widely introduced around the world. It thrives in cool, fresh water, runs to sea on both Atlantic and Pacific coasts, and is commonly reared in hatcheries and commercial aquaculture. It has become the world's standard for freshwater toxicity tests.

The Rainbow Trout are introduced into a single 100% concentration of a sample in order to obtain an Pass/Fail indication of toxicity. A Fail occurs when greater than 50% of the organisms die.

TSS-VA Water Total Suspended Solids by APHA 2540 D - GRAVIMETRIC

Gravimetric

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

TURBIDITY-VA Water Turbidity by Meter APHA 2130 "Turbidity"

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

TURBIDITY-VA Water Turbidity by Meter APHA 2130 Turbidity

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code Laboratory Location

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ED	ALS	LABORATORY GROUP - ED	MONTON, ALBERTA, CANADA
WP	ALS	LABORATORY GROUP - WI	NNIPEG, MANITOBA, CANADA
VA	ALS	LABORATORY GROUP - VA	NCOUVER, BC, CANADA
CL	ALS	LABORATORY GROUP - CA	LGARY, ALBERTA, CANADA
YL	ALS	LABORATORY GROUP - YE	LLOWKNIFE, NW, CANADA

Chain of Custody Numbers:

08-000228

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

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 mg/L - unit of concentration based on volume, parts per million. < - Less than.

D.L. - The reporting limit.

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.

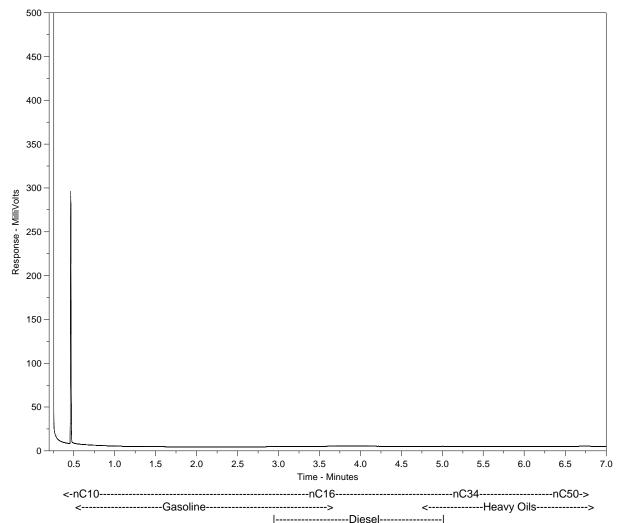
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

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



ALS Sample ID: L895495-1

Client ID: WASTE TRANSER EAST CELL



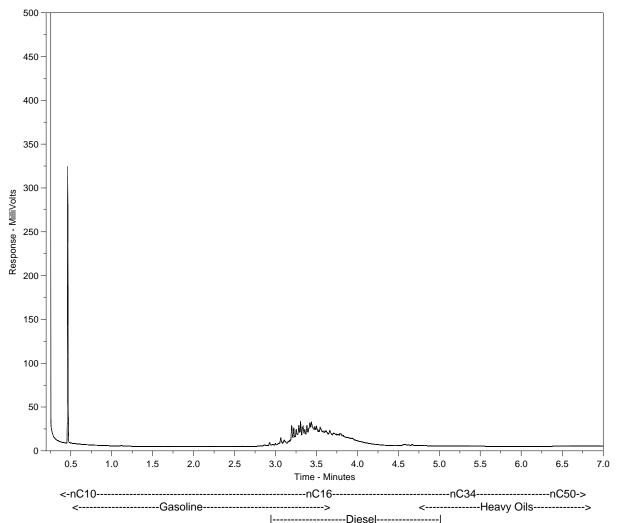
The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

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.



ALS Sample ID: L895495-2

Client ID: WASTE TRANSER WEST CELL



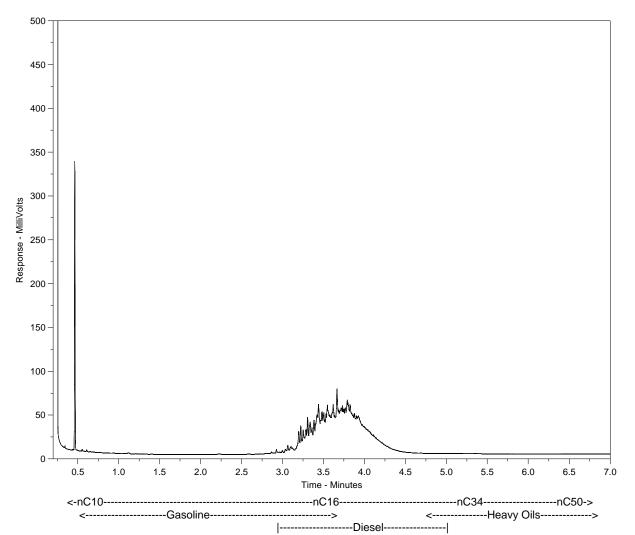
The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

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.



ALS Sample ID: L895495-3

Client ID: MAIN TANK FARM



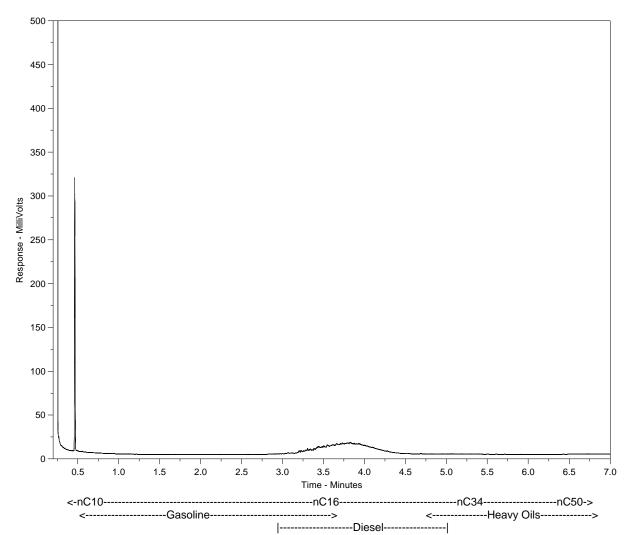
The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

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.



ALS Sample ID: L895495-4

Client ID: POWER PLANT CONTAINMENT

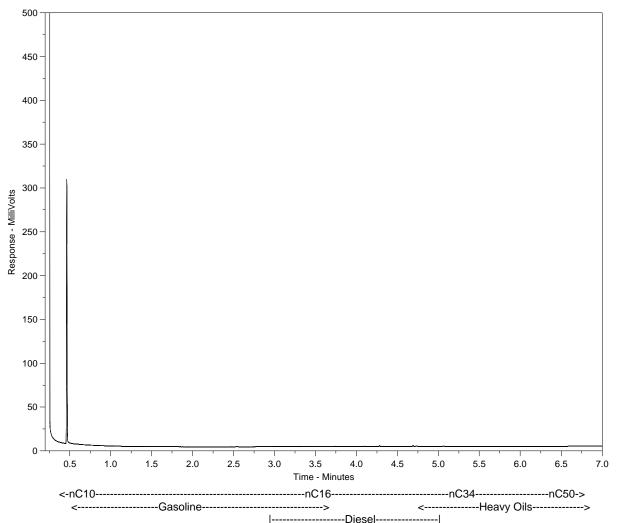


The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

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.



ALS Sample ID: L895495-6 Client ID: JER WQ2



The Canada Wide Standard Hydrocarbon Distribution Report 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 as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

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.

Rainbow Trout Bioassay Test Report - Pass/Fail

Sample Number: L895495-5

Summary Results

96-hour Pass/Fail: **PASS**

Sample Information

Sample Origin: Public Works Canada

Sample Description: PKCA JER WQ2

Sampling Date and Time: 08-Jun-10

> Sampling Method: Grab

> > Sampled By: **Andrew Coster**

Container(s) Description: 1 x 20 L Polyethylene Pail Without Liner

> Sample Volume: 20 L

Date and Time Received: 12-Jun-10 12:15

Transit Irregularities: None Storage Temperature (°C): N/A

Test Information

Test Organism: Oncorhynchus mykiss

Test Description:

Acute, 96-hour, Static, LC50 EPS1/RM/13, 2nd Ed. Dec. 2000, Environment Canada Reference Method:

Performed By:

Starting Date & Time: 12-Jun-10 13:00

Deviations from Reference Method: None

> ALS Environmental 1329 Niakwa Road East Winnipeg, MB R2J 3T4 (204) 255-9720

Initial Parameters

Observations:

Colour: Light Yellow

Odour: Mild Turbidity: None Solids: None

Hardness (mg/L): 2.1 mL titration solution/ 50 mL sample x 1000 = 42 Alkalinity (mg/L): 1.6 mL titration solution/ 50 mL sample x 1000 = 32

Temperature (°C): 15
Dissolved Oxygen (mg/L): 9.37
Conductivity at 25°C (umhos/cm): 103.3
pH(6.0-8.5): 7.10

pH adjustment: Not Adjusted

pH adjustment procedure: N/A

Pre-Aeration

Aeration Rate (5.5-7.5 mL/min/L): 6.40 + 0.6

Aeration time (min): 30

Sample Test Concentration (v/v): 100% 0%
Before Pre-Aeration Dissolved Oxygen (%): 96.1 92.5
After Pre-Aeration Dissolved Oxygen (70-100%): 97.2 91.3

Test Organism Data

Lot Number: 07-May-10 T4

Weekly Mortality Preceding Test (%): 1.0

Sample Size: 10

Conditions Common to all Concentrations During Test

Source of Holding/Dilution Water: Dechlorinated UV treated city of Winnipeg tap water

Container Description: 20 L Polyethylene pail with liner

Aeration Method: Compressed air bubbled through silica-glass air diffuser

Aeration Rate (5.5-7.5 mL/min/L): 6.40 ± 0.6

Test Solution Volume (L): 20
Test Solution Depth (cm): 34

Number of Test Organisms/Container: 10
Loading Density (g/L): 0.25

Conditions During Test

Concentration			perature				Dissolv (ı	red Oxy mg/L)	gen				рН		
(% v/v)	0h	24h	48h	72h	96h	0h	24h	48h	72h	96h	0h	24h	48h	72h	96h
0	15	N/A	N/A	N/A	15	9.01	N/A	N/A	N/A	9.47	7.31	N/A	N/A	N/A	7.53
100	15	N/A	N/A	N/A	15	9.61	N/A	N/A	N/A	9.50	7.09	N/A	N/A	N/A	7.26

Concentration	Conductivity (umhos/cm)			er of fish ead				r of fish ssed	
(% v/v)	0h	24h	48h	72h	96h	24h	48h	72h	96h
0	275	N/A	N/A	N/A	0	N/A	N/A	N/A	0
100	104.4	N/A	N/A	N/A	0	N/A	N/A	N/A	0

Control Fish Information at End of Test

Mean Fork Length (mm): 37
Lower Range Fork Length (mm): 32
Upper Range Fork Length (mm): 41
Mean Wet Weight (g): 0.50

Mortality and Stressed Behaviour Information

Concentration		ber of fish at of Test		te of fish at Test (%)
(% v/v)	Dead	Stressed	Dead	Stressed
0	0	0	0	0
100	0	0	0	0

Reference Toxicant

Toxicant: Test Starting Date:	Zinc Sulphate 25-May-10
96-hour LC50 (mg/L Zinc):	0.35
95% Lower Confidence Interval (mg/L Zinc):	0.24
95% Upper Confidence Interval (mg/L Zinc):	0.48
Historic Geometric Mean LC50 (mg/L Zinc):	0.66
95% Lower Confidence Interval (mg/L Zinc):	0.24
95% Upper Confidence Interval (mg/L Zinc):	1.77
Method of Calculation: Confirmed by Graph:	Stephan LC50 Program, Probit Yes

Sublethal Biological Effects						
No sublethal biological effects observed.						
Observations/Comments						
Missing 259 colors and						
No toxicity observed.						

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Chain of Custody / Analytical Request Form Canada Toll Free: 1 800 668 9878

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coc# 08-000228

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	(lab use only) L895 495	ALS Sear Contact: July Hale	Sampler:	wares	10/1 2/12	M James	70
Sample	Sample Identification		Times	1	mo	15 SA	0.00
*	(This description will appear on the report)	Date		Sample Type	1881	TO TO	3 8
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THE REAL PROPERTY.	SHIPMENT RELEASE (client use)	SHIPMENT RE	SHIPMENT RECEPTION (lab use only)	nly)	SHIPA	SHIPMENT VERIFICATION (lab use only)	(lab use only)
Released by	Pate & Time. Date & Time. There a/10	Received by: Date:	10 95gm	Temperature:	Verified by:	Date & Time:	Observations: Yes / No ? If Yes attach SIF
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