Table 1: Current Condition Targets, Athabasca River - Water

				High Flow		(	Open Wat	er		Under Ice	e
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	$50 \mathrm{th}$	95t
nventional Variables Alkalinity, Phenolphthalein (total hydroxide+1/2 carbonate) as CaCO3	mg/L	all sites	-	-	-	1.00	6.40	7.06	-	-	
Alkalinity, total as CaCO3	mg/L	all sites	61.05	89.00	99.09	81.54	101.00	122.00	+	+	-
	mg/L	AL07DD0004	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0005	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0007	+	+	+	+	+	+	133.00	147.00	165.0
	mg/L	AL07DD0008	+	+	+	+	+	+	89.00	163.00	199.0
	mg/L	AL07DD0009	+	+	+	+	+	+	-	-	
Fixed suspended solids, Non-Filterable (Particle)	mg/L	all sites	30.50	166.00	661.80	3.95	20.40	125.70	<	<	
Organic carbon, Filtered	$\mathrm{mg/L}$	all sites	3.53	12.20	16.36	4.24	7.90	17.50	5.49	7.43	10.4
Organic carbon, Non-Filterable (Particle)	mg/L	all sites	1.23	4.01	13.17	0.39	0.98	5.07	0.09	0.23	0.4
Specific conductivity	uS/cm	all sites	160.90	216.00	263.10	213.20	266.00	322.20	318.85	409.50	484.7
Total suspended solids, Non-Filterable (Particle)	$\mathrm{mg/L}$	all sites	37.04	183.00	719.90	9.64	24.00	141.50	<	<	
True colour, Filtered	TCU	all sites	-	-	-	-	-	-	-	-	
True colour, Supernate	rel units	all sites	5.00	60.00	98.25	6.00	25.00	88.00	5.00	15.00	35.0
Turbidity	NTU	all sites	18.49	69.00	219.00	5.28	12.20	95.20	1.84	3.65	6.6
pH, lab	pH units	all sites	7.79	8.09	8.32	7.94	8.22	8.38	7.65	7.84	8.
ssolved Metals	/T	.11 -:4	7.00	20.25	117.00	T 00	16.00	FC C9	2.02	12.00	90.
Aluminum, Filtered	ug/L	all sites	7.68	32.35	117.90	5.06	16.00	56.68	3.83	13.20	28.
Antimony, Filtered	ug/L	all sites	0.04	0.07	0.12	0.03	0.05	0.11	+		
	ug/L	AL07DD0004	+	+	+	+	+	+	-		
	ug/L	AL07DD0005	+	+	+	+	+	+	_	_	

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow			)pen Wate	er	1	Under Ice	e
Parameter	Unit	Site	5th	$50\mathrm{th}$	95th	5th	$50 \mathrm{th}$	95th	5th	$50 \mathrm{th}$	951
	$\mathrm{ug/L}$	AL07DD0007	+	+	+	+	+	+	0.04	0.06	0.3
	ug/L	AL07DD0008	+	+	+	+	+	+	0.02	0.05	0.
	$_{ m ug/L}$	AL07DD0009	+	+	+	+	+	+	-	-	
Arsenic, Filtered	ug/L	all sites	0.37	0.55	0.81	0.36	0.49	0.73	0.32	0.46	0.
Barium, Filtered	ug/L	all sites	24.52	43.75	55.41	27.22	49.10	63.38	+	+	
	ug/L	AL07DD0004	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0005	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	62.30	71.90	79
	ug/L	AL07DD0008	+	+	+	+	+	+	24.90	86.65	109
	ug/L	AL07DD0009	+	+	+	+	+	+	-	-	
Beryllium, Filtered	ug/L	all sites	0.00	0.01	0.02	0.00	0.00	0.01	0.00	0.00	(
Bismuth, Filtered	ug/L	all sites	0.00	0.00	0.00	0.00	0.00	0.00	<	<	
Boron, Filtered	ug/L	all sites	12.84	21.60	30.28	15.18	23.30	31.22	30.39	36.35	41
Cadmium, Filtered	ug/L	all sites	0.00	0.01	0.03	0.00	0.01	0.02	0.00	0.01	(
Cerium, Filtered	ug/L	all sites	0.04	0.18	0.60	0.02	0.07	0.27	0.02	0.06	(
Cesium, Filtered	ug/L	all sites	0.00	0.01	0.02	0.00	0.00	0.01	0.00	0.00	(
Chromium, Filtered	$\mathrm{ug/L}$	all sites	0.05	0.10	0.25	0.03	0.06	0.14	0.06	0.08	(
Cobalt, Filtered	ug/L	all sites	0.04	0.07	0.17	0.04	0.08	0.12	+	+	
	ug/L	AL07DD0004	+	+	+	+	+	+	-	-	
	$_{ m ug/L}$	AL07DD0005	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	0.04	0.06	(
	$_{ m ug/L}$	AL07DD0008	+	+	+	+	+	+	0.04	0.05	C
	$_{ m ug/L}$	AL07DD0009	+	+	+	+	+	+	-	-	
Copper, Filtered	ug/L	all sites	0.62	1.28	2.41	0.42	0.66	1.56	+	+	
	ug/L	AL07DD0004	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0005	+	+	+	+	+	+	-	71.90 86.65 - 0.00 < 36.35 0.01 0.06 0.08 + 0.06 0.05 - +	
	ug/L	AL07DD0007	+	+	+	+	+	+	0.28	0.58	0

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow	<del>.</del>		Open Wat	er		Under Ice	е
Parameter	Unit	Site	5th	$50 \mathrm{th}$	95th	5th	$50 \mathrm{th}$	95th	5th	$50 \mathrm{th}$	95t
	$\mathrm{ug/L}$	AL07DD0008	+	+	+	+	+	+	0.31	0.56	1.2
	ug/L	AL07DD0009	+	+	+	+	+	+	-	-	
Gallium, Filtered	ug/L	all sites	0.01	0.02	0.04	0.00	0.01	0.06	0.00	0.01	0.0
Germanium, Filtered	ug/L	all sites	0.01	0.01	0.02	0.01	0.01	0.01	+	+	
	ug/L	AL07DD0004	+	+	+	+	+	+	-	-	
	$_{ m ug/L}$	AL07DD0005	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	0.01	0.01	0.0
	$_{ m ug/L}$	AL07DD0008	+	+	+	+	+	+	0.01	0.01	0.0
	$_{ m ug/L}$	AL07DD0009	+	+	+	+	+	+	-	-	
Indium, Filtered	ug/L	all sites	<	<	<	<	<	<	<	<	
Iron, Filtered	ug/L	all sites	22.64	190.50	572.75	37.76	157.00	445.60	72.11	255.00	563.5
Lanthanum, Filtered	ug/L	all sites	0.02	0.10	0.28	0.01	0.04	0.15	0.01	0.03	0.0
Lead, Filtered	ug/L	all sites	0.02	0.09	0.30	0.01	0.04	0.13	0.02	0.03	0.0
Lithium, Filtered	$\mathrm{ug/L}$	all sites	3.98	5.39	7.37	4.80	6.03	8.58	7.96	9.98	11.3
Manganese, Filtered	ug/L	all sites	0.58	2.71	5.57	0.71	2.06	5.84	2.20	7.91	12.0
Molybdenum, Filtered	ug/L	all sites	+	+	+	0.33	0.69	0.91	+	+	
	ug/L	AL07DD0004	0.40	0.59	2.88	+	+	+	-	-	
	ug/L	AL07DD0005	0.50	0.63	0.73	+	+	+	-	-	
	ug/L	AL07DD0007	0.63	0.74	0.96	+	+	+	0.64	0.79	0.6
	ug/L	AL07DD0008	0.26	0.53	0.81	+	+	+	0.23	0.89	1.1
	ug/L	AL07DD0009	-	-	-	+	+	+	-	-	
Nickel, Filtered	ug/L	all sites	0.74	1.38	2.52	0.68	0.91	1.74	0.49	0.94	1.4
Niobium, Filtered	ug/L	all sites	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.0
Palladium, Filtered	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	<	<	
Platinum, Filtered	ug/L	all sites	<	<	<	<	<	<	<	<	
Rubidium, Filtered	$\mathrm{ug/L}$	all sites	0.56	0.89	1.16	0.68	0.84	0.98	1.07	1.44	1.9
Scandium, Filtered	$\mathrm{ug/L}$	all sites	0.00	0.01	0.14	0.00	0.01	0.06	0.00	0.01	0.0
Selenium, Filtered	ug/L	all sites	0.07	0.15	0.22	0.08	0.12	0.17	+	+	

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow		•	Open Wat	er		Under Ice	е
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	50th	95
	$\mathrm{ug/L}$	AL07DD0004	+	+	+	+	+	+	-	-	
	-ug/L	AL07DD0005	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	0.11	0.16	0
	ug/L	AL07DD0008	+	+	+	+	+	+	0.05	0.20	C
	ug/L	AL07DD0009	+	+	+	+	+	+	-	-	
Silver, Filtered	ug/L	all sites	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
Strontium, Filtered	ug/L	all sites	81.89	170.00	241.05	123.20	226.00	303.60	+	+	
	ug/L	AL07DD0004	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0005	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	278.00	322.00	388
	ug/L	AL07DD0008	+	+	+	+	+	+	134.00	364.00	489
	ug/L	AL07DD0009	+	+	+	+	+	+	-	-	
Tellurium, Filtered	ug/L	all sites	0.01	0.01	0.01	<	<	<	+	+	
	ug/L	AL07DD0004	+	+	+	+	+	+	-	-	
	$\overline{\mathrm{ug/L}}$	AL07DD0005	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	0.01	0.01	(
	$\overline{\mathrm{ug/L}}$	AL07DD0008	+	+	+	+	+	+	0.00	0.00	(
	$\overline{\mathrm{ug/L}}$	AL07DD0009	+	+	+	+	+	+	-	-	
Thallium, Filtered	ug/L	all sites	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00	(
Tin, Filtered	ug/L	all sites	0.00	0.00	0.03	0.00	0.00	0.05	0.00	0.01	(
Titanium, Filtered	ug/L	all sites	0.10	1.00	4.54	0.10	0.50	1.50	0.10	0.50	]
Tungsten, Filtered	$\mathrm{ug/L}$	all sites	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	(
Uranium, Filtered	ug/L	all sites	0.13	0.34	0.48	0.14	0.36	0.48	+	+	
	$\overline{\mathrm{ug/L}}$	AL07DD0004	+	+	+	+	+	+	-	-	
	-ug/L	AL07DD0005	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	0.40 0.45	(	
	$\overline{\hspace{1cm}}$ ug/L	AL07DD0008	+	+	+	+	+	+	0.10	0.57	(
	ug/L	AL07DD0009	+	+	+	+	+	+	-	-	

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow			Open Wate	er		Under Ice	е
Parameter	Unit	Site	5th	50th	$95 \mathrm{th}$	$5\mathrm{th}$	$50 \mathrm{th}$	$95 \mathrm{th}$	$5\mathrm{th}$	$50 \mathrm{th}$	95t
Vanadium, Filtered	$\mathrm{ug/L}$	all sites	0.21	0.39	0.74	0.15	0.31	0.64	0.13	0.20	0.4
Yttrium, Filtered	ug/L	all sites	0.05	0.18	0.42	0.04	0.08	0.26	0.05	0.07	0.1
Zinc, Filtered	ug/L	all sites	0.27	0.60	2.15	0.16	0.40	1.20	+	+	
	$_{ m ug/L}$	AL07DD0004	+	+	+	+	+	+	-	-	
	ug/L	$\rm AL07DD0005$	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	0.60	1.30	3.0
	ug/L	AL07DD0008	+	+	+	+	+	+	0.60	1.30	3.5
	ug/L	AL07DD0009	+	+	+	+	+	+	-	-	
Zirconium, Filtered	ug/L	all sites	0.08	0.20	0.50	0.05	0.10	0.30	0.07	0.10	0.:
d											
Dissolved oxygen (DO)	mg/L	all sites	8.15	8.72	10.75	8.07	9.86	13.01	11.54	12.39	13.
Specific conductivity	uS/cm	all sites	153.70	222.00	269.35	225.20	268.00	319.40	+	+	
	uS/cm	AL07DD0004	+	+	+	+	+	+	-	-	
	uS/cm	AL07DD0005	+	+	+	+	+	+	-	-	
	uS/cm	AL07DD0007	+	+	+	+	+	+	373.00	417.00	484.
	uS/cm	AL07DD0008	+	+	+	+	+	+	266.00	432.00	521.
	uS/cm	AL07DD0009	+	+	+	+	+	+	-	-	
Temperature, water	$\deg C$	all sites	10.46	18.79	22.14	2.44	12.68	22.62	+	+	
	$\deg C$	AL07DD0004	+	+	+	+	+	+	-	-	
	$\deg C$	AL07DD0005	+	+	+	+	+	+	-	-	
	$_{\rm degC}$	AL07DD0007	+	+	+	+	+	+	-0.32	-0.13	-0.
	$_{\rm degC}$	AL07DD0008	+	+	+	+	+	+	-0.80	-0.25	-0.
	$_{\rm degC}$	AL07DD0009	+	+	+	+	+	+	-	-	
Turbidity	NTU	all sites	20.25	64.65	321.95	2.43	12.15	71.75	0.00	1.50	101.
рН	pH units	all sites	7.74	7.97	8.29	7.83	8.20	8.41	7.06	7.51	8.
neral Organics											
Benzene	ug/L	all sites	<	<	<	-	-	-	<	<	
C10-C16 Hydrocarbons	$\mathrm{ug/L}$	all sites	23.15	52.59	133.06	<	<	<	<	<	

0.

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow		C	pen Wate	r	1	Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	$50 \mathrm{th}$	95t]
C16-C34 Hydrocarbons	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	<	<	<
C34-C50 Hydrocarbons	ug/L	all sites	<	<	<	<	<	<	<	<	<
C6-C10 Hydrocarbons	ug/L	all sites	<	<	<	<	<	<	<	<	<
Cyanide	$\mathrm{mg/L}$	all sites	<	<	<	<	<	<	<	<	<
Ethylbenzene	ug/L	all sites	<	<	<	-	-	-	<	<	<
Hydrocarbons, petroleum	mg/L	all sites	0.02	0.08	0.40	<	<	<	<	<	<
Naphthenic acids	mg/L	all sites	<	<	<	<	<	<	<	<	<
Toluene	ug/L	all sites	+	+	+	0.01	0.03	0.14	<	<	<
	$_{ m ug/L}$	AL07DD0004	-	-	-	+	+	+	+	+	+
	ug/L	AL07DD0005	-	-	-	+	+	+	+	+	+
	ug/L	AL07DD0007	-	-	-	+	+	+	+	+	+
	ug/L	AL07DD0008	<	<	<	+	+	+	+	+	+
	ug/L	AL07DD0009	-	-	-	+	+	+	+	+	+
m,p-Xylene	ug/L	all sites	<	<	<	-	-	-	<	<	<
o-Xylene	ug/L	all sites	<	<	<	<	<	<	<	<	<
r Ions											
Calcium, Filtered	mg/L	all sites	+	+	+	23.47	32.15	38.89	24.26	43.20	57.34
	mg/L	AL07DD0004	-	-	-	+	+	+	+	+	+
	mg/L	AL07DD0005	-	-	-	+	+	+	+	+	+
	$_{ m mg/L}$	AL07DD0007	-	_	-	+	+	+	+	+	+
	$_{ m mg/L}$	AL07DD0008	15.80	23.15	33.20	+	+	+	+	+	4
	$\mathrm{mg/L}$	AL07DD0009	-	-	-	+	+	+	+	+	+
Calcium, Unknown	$\mathrm{mg/L}$	all sites	22.40	27.10	29.80	19.80	32.00	36.00	26.10	38.40	48.30
Chloride, Filtered	$_{ m mg/L}$	all sites	1.15	4.52	12.93	1.52	8.13	18.04	+	+	+
	$\mathrm{mg/L}$	AL07DD0004	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0005	+	+	+	+	+	+	-	-	
	$_{ m mg/L}$	AL07DD0007	+	+	+	+	+	+	14.70	17.90	24.70
	$_{\rm mg/L}$	AL07DD0008	+	+	+	+	+	+	5.38	13.16	36.70

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow			pen Wate	r	Ţ	Under Ice	
Parameter	Unit	Site	5th	50th	95th	$5\mathrm{th}$	$50 \mathrm{th}$	95th	5th	$50 \mathrm{th}$	95t
	$\mathrm{mg/L}$	AL07DD0009	+	+	+	+	+	+	-	-	
Fluoride, Filtered	mg/L	all sites	+	+	+	0.06	0.09	0.11	+	+	-
	mg/L	AL07DD0004	0.07	0.09	0.09	+	+	+	-	-	
	mg/L	AL07DD0005	0.06	0.09	0.09	+	+	+	-	-	
	mg/L	AL07DD0007	0.08	0.09	0.10	+	+	+	0.10	0.11	0.1
	mg/L	AL07DD0008	0.07	0.08	0.09	+	+	+	0.09	0.11	0.1
	mg/L	AL07DD0009	-	-	-	+	+	+	-	-	
Magnesium, Filtered	mg/L	all sites	+	+	+	6.73	8.55	11.40	+	+	-
	mg/L	AL07DD0004	4.76	7.13	8.55	+	+	+	-	-	
	mg/L	AL07DD0005	5.59	6.97	7.84	+	+	+	-	-	
	mg/L	AL07DD0007	6.73	8.32	9.40	+	+	+	10.10	- + - 0.11 0.11 - +	14.0
	mg/L	AL07DD0008	4.29	6.48	9.35	+	+	+	7.08	13.35	17.
	mg/L	AL07DD0009	-	-	-	+	+	+	-	-	
Potassium, Filtered	$\mathrm{mg/L}$	all sites	0.79	1.03	1.75	0.95	1.11	1.41	1.27	2.03	2.
Silica, Filtered as SiO2	$\mathrm{mg/L}$	all sites	3.06	5.89	9.02	1.92	4.51	7.91	5.63	8.85	12.
Silica, Unknown as SiO2	mg/L	all sites	4.63	5.39	6.62	3.71	5.74	8.40	7.88	9.17	11.
Sodium, Filtered	$\mathrm{mg/L}$	all sites	6.12	8.63	13.06	6.99	12.20	18.22	21.49	27.80	32.
Sulfate, Filtered as SO4	mg/L	all sites	+	+	+	9.67	24.00	37.26	+	+	
	mg/L	AL07DD0004	9.91	16.60	24.10	+	+	+	-	-	
	mg/L	AL07DD0005	10.60	17.00	20.70	+	+	+	-	-	
	mg/L	AL07DD0007	15.60	21.75	29.00	+	+	+	31.50	38.70	52.
	mg/L	AL07DD0008	6.61	13.20	30.40	+	+	+	11.60	44.05	65.
	mg/L	AL07DD0009	-	-	-	+	+	+	-	-	
ients and BOD Ammonia and ammonium, Unfiltered as N	mg/L	all sites	0.00	0.01	0.03	0.00	0.01	0.02	0.02	0.05	0.
Inorganic nitrogen (nitrate and	mg/L	all sites	0.01	0.03	0.07	0.00	0.01	0.03	+		

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow		C	pen Wate	r	τ	Under Ice	
Parameter	Unit	Site	5th	$50 \mathrm{th}$	95th	5th	$50 \mathrm{th}$	95th	$5 \mathrm{th}$	$50 \mathrm{th}$	951
	$\mathrm{mg/L}$	AL07DD0004	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0005	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0007	+	+	+	+	+	+	0.21	0.26	0.3
	mg/L	AL07DD0008	+	+	+	+	+	+	0.18	0.22	0.3
	mg/L	AL07DD0009	+	+	+	+	+	+	-	-	
Organic Nitrogen, Non-Filterable (Particle) as N	$\mathrm{mg/L}$	all sites	0.11	0.31	1.00	0.03	0.11	0.31	+	+	
	mg/L	AL07DD0004	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0005	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0007	+	+	+	+	+	+	0.01	0.02	0.0
	mg/L	AL07DD0008	+	+	+	+	+	+	0.01	0.02	0.0
	mg/L	AL07DD0009	+	+	+	+	+	+	-	-	
Total Nitrogen, mixed forms, Filtered as N	$\mathrm{mg/L}$	all sites	0.12	0.30	0.61	0.11	0.22	0.62	0.39	0.53	0.8
Total Nitrogen, mixed forms, Non-Filterable (Particle) as N	mg/L	all sites	-	-	-	0.07	0.10	0.47	-	-	
Total Nitrogen, mixed forms, Unknown as N	$\mathrm{mg/L}$	all sites	0.29	0.45	0.59	0.22	0.34	0.52	+	+	
	mg/L	AL07DD0004	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0005	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0007	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0008	+	+	+	+	+	+	-	-	
	mg/L	AL07DD0009	+	+	+	+	+	+	-	-	
Total Phosphorus, mixed forms, Filtered as P	mg/L	all sites	0.01	0.02	0.03	0.00	0.01	0.03	0.01	0.02	0.0
Total Phosphorus, mixed forms, Unfiltered as P	mg/L	all sites	0.05	0.19	0.58	0.02	0.05	0.19	0.02	0.04	0.
ohalides											
2-Chloronaphthalene	ng/L	AL07DD0004	<	<	<	-	-	-	-	-	
	ng/L	AL07DD0005	-	-	-	-	_	-	-		

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow		C	pen Water	r	Ţ	Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	$50 \mathrm{th}$	95th
	$\mathrm{ng/L}$	AL07DD0007	-	-	-	-	-	-	-	-	-
	-ng/L	AL07DD0008	-	-	-	-	-	-	-	-	-
	ng/L	AL07DD0009	-	-	-	-	-	-	-	-	-
AHs											
1,2,3,4-Tetrahydronaphthalene	ng/L	all sites	<	<	<	<	<	<	<	<	<
1,6,7-Trimethylnaphthalene	ng/L	all sites	0.46	1.64	4.15	0.35	1.00	3.11	0.11	0.43	2.11
1-Methylnaphthalene	ng/L	all sites	1.17	4.70	18.66	<	<	<	<	<	<
2-Isopropylnaphthalene	ng/L	all sites	<	<	<	<	<	<	-	-	-
2-Methylnaphthalene	ng/L	all sites	2.48	9.19	35.30	<	<	<	<	<	<
3-Methylcholanthrene	$\mathrm{ng/L}$	all sites	1.24	4.26	13.78	0.13	0.52	2.49	<	<	<
7,10-Dimethylbenzo[a]pyrene	ng/L	all sites	<	<	<	<	<	<	-	-	-
7-Methylbenzo[a]pyrene	ng/L	all sites	<	<	<	<	<	<	-	-	-
9-Ethylfluorene	ng/L	all sites	<	<	<	<	<	<	-	-	-
9-Methylfluorene	ng/L	all sites	0.10	0.56	3.92	<	<	<	<	<	<
Acenaphthene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Acenaphthylene	ng/L	AL07DD0004	<	<	<	<	<	<	-	-	-
	ng/L	AL07DD0005	<	<	<	<	<	<	-	-	-
	ng/L	AL07DD0007	<	<	<	<	<	<	<	<	<
	$_{ m ng/L}$	AL07DD0008	<	<	<	<	<	<	<	<	<
	ng/L	AL07DD0009	-	-	-	-	-	-	-	-	
Anthracene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Benz[a]anthracene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Benzo(b)fluoranthene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Benzo[a]pyrene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Benzo[e]pyrene	ng/L	all sites	<	<	<	<	<	<	<	<	<

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow		C	pen Wate	r	Ţ	Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	$5\mathrm{th}$	$50 \mathrm{th}$	95t
Benzo[ghi]perylene	ng/L	AL07DD0004	<	<	<	<	<	<	-	-	
	ng/L	AL07DD0005	<	<	<	<	<	<	-	-	
	ng/L	AL07DD0007	<	<	<	<	<	<	<	<	
	ng/L	AL07DD0008	<	<	<	<	<	<	<	<	
	ng/L	AL07DD0009	-	-	-	-	-	-	-	-	
Benzo[k]fluoranthene	ng/L	AL07DD0004	<	<	<	<	<	<	-	-	
	ng/L	AL07DD0005	<	<	<	<	<	<	-	-	
	ng/L	AL07DD0007	<	<	<	<	<	<	<	<	
	ng/L	AL07DD0008	<	<	<	<	<	<	<	<	
	ng/L	AL07DD0009	-	-	-	-	-	-	-	-	
Biphenyl	ng/L	all sites	-	-	-	-	-	-	-	-	
C1-Dibenzothiophenes	ng/L	all sites	-	-	-	-	-	-	-	-	
C1-Fluoranthenes/pyrenes	ng/L	all sites	23.36	30.50	45.02	-	-	-	-	-	
C2-1,6-Dimethylnaphthalene	ng/L	all sites	4.48	6.21	27.16	0.50	1.89	8.97	1.05	2.23	5.3
C2-1,9-Dimethylfluorene	ng/L	all sites	0.07	0.42	3.40	<	<	<	-	-	
C2-3-Ethylfluoranthene	ng/L	all sites	<	<	<	<	<	<	-	-	
C2-Benzopyrenes	ng/L	all sites	<	<	<	<	<	<	<	<	
C2-Chrysenes	ng/L	all sites	4.13	7.42	14.61	<	<	<	<	<	
C2-Dibenzothiophenes	ng/L	all sites	6.26	21.00	50.82	-	-	-	-	-	
C2-Dimethyldibenzothiophenes	ng/L	all sites	3.95	16.56	60.42	0.32	1.70	26.69	0.39	0.75	2.9
C2-Fluoranthenes/pyrenes	ng/L	all sites	5.39	6.87	9.07	<	<	<	<	<	
C2-Fluorenes	ng/L	all sites	14.00	21.90	50.10	-	-	-	-	-	
C2-Naphthalenes	ng/L	all sites	-	-	-	-	-	-	-	-	
C2-Phenanthrenes	ng/L	all sites	7.91	26.20	85.24	0.09	1.44	29.99	-	-	
C3-2,4,7-Trimethyldibenzothiophene	ng/L	all sites	<	<	<	<	<	<	<	<	
C3-4-Propyldibenzothiophene	ng/L	all sites	0.07	0.45	3.73	<	<	<	<	<	
C3-Chrysenes	ng/L	all sites	9.57	10.60	11.90	-	-	-	-	-	
C3-Dibenzothiophenes	ng/L	all sites	16.40	18.50	27.50	_	-	_	_	_	

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				${\bf High\ Flow}$		C	pen Wate	r	Ţ	Jnder Ice	
Parameter	Unit	Site	5th	$50 \mathrm{th}$	95th	5th	50th	95th	$5\mathrm{th}$	$50 \mathrm{th}$	95tl
C3-Fluoranthenes/pyrenes	$\mathrm{ng/L}$	all sites	<	<	<	<	<	<	<	<	<
C3-Fluorenes	ng/L	all sites	<	<	<	<	<	<	<	<	<
C3-N-Propylfluorene	ng/L	all sites	<	<	<	<	<	<	<	<	<
C3-Naphthalenes	ng/L	all sites	5.53	15.23	50.65	<	<	<	<	<	<
C3-Phenanthrenes	ng/L	all sites	5.99	15.65	49.18	-	-	-	-	-	
C4-Chrysenes	ng/L	all sites	11.58	12.65	13.84	-	-	-	-	-	
C4-Dibenzothiophenes	ng/L	all sites	<	<	<	<	<	<	<	<	<
C4-Fluoranthenes/pyrenes	ng/L	all sites	<	<	<	<	<	<	<	<	<
C4-Fluorenes	ng/L	all sites	<	<	<	<	<	<	<	<	<
C4-Naphthalenes	ng/L	all sites	11.51	22.00	39.20	-	-	-	-	-	
C4-Phenanthrenes	ng/L	all sites	+	+	+	<	<	<	<	<	<
	$_{\rm ng/L}$	AL07DD0004	-	-	-	+	+	+	+	+	+
	ng/L	AL07DD0005	4.66	8.95	14.55	+	+	+	+	+	+
	$_{\rm ng/L}$	AL07DD0007	-	-	-	+	+	+	+	+	+
	ng/L	AL07DD0008	-	-	-	+	+	+	+	+	+
	$_{\rm ng/L}$	AL07DD0009	-	-	-	+	+	+	+	+	+
Chrysene	ng/L	all sites	0.36	2.51	23.46	-	-	-	-	-	
Dibenz[a,h]anthracene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Dibenzothiophene	ng/L	all sites	-	-	-	-	-	-	-	-	
Fluoranthene	ng/L	all sites	0.67	2.14	7.11	<	<	<	<	<	<
Fluorene	ng/L	all sites	-	-	-	-	-	-	-	-	
ndene	ng/L	all sites	<	<	<	<	<	<	<	<	<
ndeno[1,2,3-cd]fluoranthene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Indeno[1,2,3-cd]pyrene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Methylbenzopyrene	$\mathrm{ng/L}$	all sites	<	<	<	<	<	<	<	<	<
Methylchrysene	$\mathrm{ng/L}$	all sites	37.07	59.20	91.20	<	<	<	-	-	
Methyldibenzothiophene	$\mathrm{ng/L}$	all sites	1.52	3.55	17.76	0.24	0.93	4.47	0.30	0.82	2.6
Methylfluoranthene	ng/L	all sites	4.24	7.70	30.77	0.18	1.17	7.91	<	<	<

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flov	v		Open Wat	ter		Under Ice	е
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	50th	95th
Methylfluorene	$\mathrm{ng/L}$	all sites	14.61	30.30	57.48	-	-	-	-	-	-
Methylnaphthalene	ng/L	all sites	19.11	48.03	148.13	-	-	-	-	-	-
Methylphenanthrene	ng/L	all sites	6.21	30.20	110.19	<	<	<	-	-	-
Naphthalene	ng/L	all sites	3.16	23.78	251.85	11.84	43.05	123.20	4.51	26.65	200.50
Perylene	ng/L	all sites	1.59	9.09	71.88	<	<	<	<	<	<
Phenanthrene	ng/L	all sites	2.95	10.64	34.80	<	<	<	-	-	-
Pyrene	ng/L	all sites	0.67	3.34	24.60	<	<	<	<	<	<
Retene	ng/L	all sites	1.86	10.25	67.50	<	<	<	<	<	<
Phenolics Phenol	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	<	<	<
Target PANHs Acridine	$_{ m ug/L}$	all sites	<	<	<	<	<	<	<	<	<
Carbazole	ng/L	all sites	<	<	<	<	<	<	<	<	<
Total Metals Aluminum, Unfiltered	$\mathrm{ug/L}$	all sites	142.40	2530.00	8576.00	110.82	316.00	3154.00	15.18	54.00	127.85
Antimony, Unfiltered	ug/L	all sites	0.05	0.11	0.20	0.02	0.06	0.15	0.01	0.06	0.09
Arsenic, Unfiltered	ug/L	all sites	0.64	1.98	5.43	0.50	0.71	2.63	0.38	0.56	0.77
Barium, Unfiltered	ug/L	all sites	48.02	73.80	174.00	34.70	53.70	104.24	+	+	+
	$_{ m ug/L}$	AL07DD0004	+	+	+	+	+	+	-	-	-
	$_{ m ug/L}$	AL07DD0005	+	+	+	+	+	+	-	-	-
	-ug/L	AL07DD0007	+	+	+	+	+	+	63.30	69.50	79.30
	ug/L	AL07DD0008	+	+	+	+	+	+	26.00	85.20	107.00
	$_{ m ug/L}$	AL07DD0009	+	+	+	+	+	+	-	_	-
Beryllium, Unfiltered	ug/L	all sites	0.03	0.14	0.46	0.01	0.02	0.17	0.00	0.01	0.02
Bismuth, Unfiltered	ug/L	all sites	0.01	0.03	0.14	0.00	0.00	0.04	0.00	0.00	0.00
Boron, Unfiltered	ug/L	all sites	13.96	25.30	34.60	16.26	23.60	31.56	31.14	36.40	43.05
Cadmium, Unfiltered	ug/L	all sites	0.02	0.05	0.17	0.01	0.02	0.07	0.01	0.02	0.04
Cerium, Unfiltered	ug/L	all sites	0.99	5.59	17.62	0.29	0.64	6.50	0.07	0.18	0.52

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flo	w		Open Wat	ter		Under Ice	e
Parameter	Unit	Site	5th	50th	95th	5th	$50 \mathrm{th}$	95th	5th	$50 \mathrm{th}$	95t
Cesium, Unfiltered	$\mathrm{ug/L}$	all sites	0.07	0.49	1.67	0.02	0.06	0.58	0.01	0.01	0.0
Chromium, Unfiltered	ug/L	all sites	0.26	3.56	11.80	0.20	0.45	4.41	0.04	0.18	0.3
Cobalt, Unfiltered	ug/L	all sites	0.39	1.65	5.23	0.17	0.27	1.94	0.08	0.09	0.1
Copper, Unfiltered	ug/L	all sites	1.14	4.40	12.36	0.53	0.91	5.69	+	+	-
	ug/L	AL07DD0004	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0005	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	0.29	0.66	0.9
	ug/L	AL07DD0008	+	+	+	+	+	+	0.17	0.59	2.0
	ug/L	AL07DD0009	+	+	+	+	+	+	-	-	
Gallium, Unfiltered	ug/L	all sites	0.07	0.78	2.72	0.05	0.10	0.91	0.01	0.03	0.0
Germanium, Unfiltered	ug/L	all sites	0.02	0.07	0.22	0.01	0.02	0.06	0.01	0.01	0.0
Indium, Unfiltered	ug/L	all sites	0.00	0.01	0.02	0.00	0.00	0.01	<	<	
Iron, Unfiltered	ug/L	all sites	631.40	4290.00	12800.00	308.00	709.00	5302.00	132.90	430.50	863.5
Lanthanum, Unfiltered	ug/L	all sites	0.45	2.58	8.40	0.13	0.31	3.05	0.04	0.09	0.2
Lead, Unfiltered	ug/L	all sites	0.45	2.15	6.85	0.11	0.27	2.48	0.03	0.09	0.3
Lithium, Unfiltered	ug/L	all sites	5.47	7.88	13.52	5.75	6.91	9.95	8.32	9.97	11.1
Manganese, Unfiltered	ug/L	all sites	48.26	114.00	289.00	16.30	38.50	135.00	5.38	15.85	26.7
Mercury, Unfiltered	ng/L	all sites	2.85	10.00	28.90	0.98	1.90	12.63	0.47	0.68	0.9
Methylmercury(1+), Unfiltered	ng/L	all sites	0.07	0.18	0.33	0.02	0.06	0.22	0.03	0.04	0.0
Molybdenum, Unfiltered	ug/L	all sites	0.39	0.75	1.24	0.36	0.73	1.01	+	+	
	ug/L	AL07DD0004	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0005	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	0.69	0.77	3.7
	ug/L	AL07DD0008	+	+	+	+	+	+	0.23	0.90	1.1
	ug/L	AL07DD0009	+	+	+	+	+	+	-	-	
Nickel, Unfiltered	ug/L	all sites	1.45	5.23	16.32	0.90	1.32	6.39	+	+	
	ug/L	AL07DD0004	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0005	+	+	+	+	+	+	-	_	
		11201220000	<u> </u>	<u> </u>	· · ·	<u>'</u>		· · ·			

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow	·		Open Wat	er		Under Ice	e
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	$50 \mathrm{th}$	951
	$\mathrm{ug/L}$	AL07DD0007	+	+	+	+	+	+	0.75	1.03	1.4
	ug/L	AL07DD0008	+	+	+	+	+	+	0.45	0.96	2.4
	ug/L	AL07DD0009	+	+	+	+	+	+	-	-	
Niobium, Unfiltered	ug/L	all sites	0.00	0.10	0.23	0.00	0.01	0.11	0.00	0.00	0.0
Palladium, Unfiltered	ug/L	all sites	<	<	<	<	<	<	<	<	
Platinum, Unfiltered	ug/L	all sites	0.00	0.00	0.00	<	<	<	<	<	
Rubidium, Unfiltered	ug/L	all sites	1.49	5.93	18.42	1.06	1.40	6.71	1.18	1.57	1.9
Scandium, Unfiltered	ug/L	all sites	0.02	0.44	2.52	0.00	0.05	0.66	0.00	0.02	0.0
Selenium, Unfiltered	ug/L	all sites	0.14	0.22	0.59	0.10	0.14	0.29	+	+	
	ug/L	AL07DD0004	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0005	+	+	+	+	+	+	-	-	
	ug/L	AL07DD0007	+	+	+	+	+	+	0.13	0.18	0.2
	ug/L	AL07DD0008	+	+	+	+	+	+	0.04	0.20	0.2
	$_{ m ug/L}$	AL07DD0009	+	+	+	+	+	+	-	-	
Silver, Unfiltered	ug/L	all sites	0.00	0.02	0.07	0.00	0.00	0.04	0.00	0.00	0.0
Strontium, Unfiltered	ug/L	all sites	+	+	+	123.00	223.00	293.00	+	+	
	ug/L	AL07DD0004	111.00	177.00	222.00	+	+	+	-	-	
	ug/L	AL07DD0005	136.00	182.00	205.00	+	+	+	-	-	
	$_{ m ug/L}$	AL07DD0007	162.00	214.00	246.00	+	+	+	275.00	316.00	384.0
	ug/L	AL07DD0008	81.60	137.00	248.00	+	+	+	134.00	352.00	481.0
	ug/L	AL07DD0009	-	-	-	+	+	+	-	-	
Tellurium, Unfiltered	ug/L	all sites	0.00	0.01	0.06	0.00	0.00	0.03	0.00	0.00	0.0
Thallium, Unfiltered	ug/L	all sites	0.01	0.05	0.18	0.01	0.01	0.05	0.00	0.01	0.0
Γin, Unfiltered	ug/L	all sites	0.03	0.09	0.39	0.00	0.02	0.14	0.00	0.01	0.0
Titanium, Unfiltered	ug/L	all sites	3.02	36.00	98.38	1.80	5.30	50.18	0.40	1.10	2.0
Tungsten, Unfiltered	$\mathrm{ug/L}$	all sites	0.00	0.01	0.02	0.00	0.01	0.02	0.00	0.00	0.0
Uranium, Unfiltered	$\mathrm{ug/L}$	all sites	0.27	0.45	1.03	0.18	0.37	0.57	+	+	

Table 1: Current Condition Targets, Athabasca River - Water (continued)

				High Flow		C	pen Wate	er	J	Jnder Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	50th	95th
	ug/L	AL07DD0005	+	+	+	+	+	+	-	-	-
	ug/L	AL07DD0007	+	+	+	+	+	+	0.38	0.45	0.52
	$_{ m ug/L}$	AL07DD0008	+	+	+	+	+	+	0.10	0.57	0.77
	$_{ m ug/L}$	AL07DD0009	+	+	+	+	+	+	-	-	
Vanadium, Unfiltered	ug/L	all sites	0.88	6.92	23.36	0.57	1.07	8.98	0.22	0.36	0.59
Yttrium, Unfiltered	$\mathrm{ug/L}$	all sites	0.48	2.07	6.49	0.15	0.31	2.49	0.09	0.11	0.35
Zinc, Unfiltered	ug/L	all sites	2.52	13.10	41.38	0.98	2.00	14.64	+	+	+
	$_{ m ug/L}$	AL07DD0004	+	+	+	+	+	+	-	-	-
	$_{ m ug/L}$	AL07DD0005	+	+	+	+	+	+	-	-	-
	$_{ m ug/L}$	AL07DD0007	+	+	+	+	+	+	1.00	1.60	2.00
	$_{ m ug/L}$	AL07DD0008	+	+	+	+	+	+	0.70	1.85	6.90
	$_{ m ug/L}$	AL07DD0009	+	+	+	+	+	+	-	-	-
Zirconium, Unfiltered	ug/L	all sites	0.36	1.80	4.40	0.20	0.30	2.82	0.10	0.20	0.30

Table 2: Current Condition Targets, Athabasca River - Sediment

	Parameter	Unit	Site	5th	50th	$95 \mathrm{th}$
Conventi	onal Variables					
	Acid Neutralization Potential as $\% CaCO3$	%	all sites	-	-	-
	Grain size, clay (<2 um)	%	all sites	0.99	7.00	15.48
	Grain size, sand (>=63 um to 2000 um)	%	all sites	30.50	72.00	98.80
	Grain size, silt (>=2 to 63 um)	%	all sites	1.48	19.40	48.44
	Inorganic carbon	%	all sites	-	-	-
	Loss on Ignition @ 375 C	%	all sites	0.64	1.50	3.23
	Moisture content	%	AB07DA0062	-	-	-
		%	AB07DA0800	-	-	-
		%	AB07DA3008	-	-	-
		%	AB07DA3009	_	-	-
		%	AB07DA3015	-	-	-
		%	AB07DA3016	-	-	-
		%	AB07DA3017	-	-	-
		-%	AB07DA3018	-	-	-
		%	AB07DA3020	-	-	-
		%	AB07DA3021	-	-	-
		%	AB07DA3022	-	-	-
		-%	AB07DA3023	-	-	-
		%	AB07DA3024	-	-	-
		%	ATR-ER	-	-	-
	Organic Matter	%	all sites	0.68	1.40	2.77
	Organic carbon	%	all sites	-	-	-
	Total carbon	%	all sites	-	-	-
Extracta	ble Metals Methylmercury(1+), Extractable	ng/g	all sites	0.02	0.31	1.19
General (		0/ 0				
General	BTEX, Total	ug/g	all sites	-	-	-
	Benzene	ug/g	all sites	-	-	-
	C10-C16 Hydrocarbons	ug/g	all sites	-	-	-
	C10H16O2	%	all sites	0.00	0.01	0.04
	C10H18O2	%	all sites	0.01	0.04	0.14
	C10H20O2	%	all sites	0.07	0.39	1.68
	C11H14O2	%	all sites	0.01	0.03	0.07
	C11H16O2	%	all sites	0.00	0.00	0.04

Table 2: Current Condition Targets, Athabasca River - Sediment (continued)

Parameter	Unit	Site	5th	50th	95th
C11H18O2	%	all sites	0.00	0.01	0.04
C11H20O2	%	all sites	0.01	0.06	0.19
C11H22O2	%	all sites	0.21	0.45	0.78
C12H16O2	%	all sites	0.00	0.01	0.06
C12H18O2	%	all sites	0.00	0.00	0.02
C12H20O2	%	all sites	0.01	0.06	0.28
C12H22O2	%	all sites	0.11	0.31	0.62
C12H24O2	%	all sites	0.43	1.00	1.60
C13H16O2	%	all sites	0.00	0.00	0.05
C13H18O2	%	all sites	0.00	0.01	0.04
C13H20O2	%	all sites	0.01	0.03	0.14
C13H22O2	%	all sites	0.00	0.03	0.20
C13H24O2	%	all sites	0.04	0.10	0.20
C13H26O2	%	all sites	0.38	0.77	0.94
C14H16O2	%	all sites	<	<	<
C14H18O2	%	all sites	0.00	0.01	0.08
C14H20O2	%	all sites	0.00	0.03	0.09
C14H22O2	%	all sites	0.05	0.10	1.61
C14H24O2	%	all sites	0.06	0.14	2.64
C14H26O2	%	all sites	0.42	0.79	1.31
C14H28O2	%	AB07DA0062	-	-	-
	%	AB07DA0800	-	-	-
	%	AB07DA3008	-	-	-
	%	AB07DA3009	-	-	-
	%	AB07DA3015	-	-	-
	%	AB07DA3016	-	-	-
	%	AB07DA3017	-	-	-
	%	AB07DA3018	-	-	-
	%	AB07DA3020	-	-	-
	%	AB07DA3021	-	-	-
	%	AB07DA3022	-	-	-
	%	AB07DA3023	-	-	-
		AB07DA3024	-	-	-
C15H14O2	%	all sites	0.00	0.01	0.02
C15H16O2	%	all sites	0.00	0.01	0.03

Table 2: Current Condition Targets, Athabasca River - Sediment (continued)

	Parameter	Unit	Site	5th	50th	95th
	C15H18O2	%	all sites	0.00	0.00	0.03
_	C15H20O2	%	all sites	0.00	0.04	0.17
=	C15H22O2	%	all sites	0.02	0.10	1.44
	C15H24O2	%	all sites	0.03	0.15	2.12
_	C15H26O2	%	all sites	0.07	0.18	1.90
_	C15H28O2	%	all sites	0.83	2.01	3.51
_	C15H30O2	%	all sites	2.61	4.24	6.84
_	C16-C34 Hydrocarbons	ug/g	all sites	-	-	-
_	C16H14O2	%	all sites	0.00	0.01	0.04
_	C16H16O2	%	all sites	<	<	<
_	C16H18O2	%	all sites	0.00	0.01	0.05
_	C16H20O2	%	all sites	0.00	0.03	0.14
_	C16H22O2	%	all sites	0.01	0.06	0.22
_	C16H24O2	%	all sites	0.33	2.17	3.93
_	C16H26O2	%	all sites	0.47	2.79	4.55
_	C16H28O2	%	all sites	0.76	3.03	4.71
_	C16H30O2	%	all sites	6.65	13.70	20.71
_	C16H32O2	%	all sites	0.09	4.52	25.45
_	C17H18O2	%	all sites	0.00	0.01	0.08
_	C17H20O2	%	all sites	0.00	0.02	0.08
_	C17H22O2	%	all sites	0.00	0.04	0.22
_	C17H24O2	%	all sites	0.01	0.07	0.26
_	C17H26O2	%	all sites	0.04	0.12	0.46
_	C17H28O2	%	all sites	0.08	0.27	0.69
_	C17H30O2	%	all sites	0.13	0.30	0.68
_	C17H32O2	%	all sites	1.66	2.94	7.08
_	C17H34O2	%	all sites	1.42	2.92	8.32
_	C18H20O2	%	all sites	0.00	0.01	0.10
_	C18H22O2	%	all sites	0.01	0.04	0.14
_	C18H24O2	%	all sites	0.03	0.09	0.17
_	C18H26O2	%	all sites	0.08	0.14	0.64
_	C18H28O2	%	all sites	0.32	1.77	5.47
_	C18H30O2	%	all sites	0.62	1.93	3.47
_	C18H32O2	%	all sites	1.47	2.78	6.48
_	C18H34O2	%	all sites	4.56	7.01	25.26

Table 2: Current Condition Targets, Athabasca River - Sediment (continued)

Parameter	Unit	Site	5th	50th	95th
C18H36O2	%	all sites	0.12	0.61	24.95
C19H20O2	%	all sites	0.00	0.00	0.09
C19H22O2	%	all sites	0.03	0.14	0.48
C19H24O2	%	all sites	0.01	0.05	0.10
C19H26O2	%	all sites	0.02	0.08	0.33
C19H28O2	%	all sites	0.03	0.15	0.38
C19H30O2	%	all sites	0.05	0.16	0.35
C19H32O2	%	all sites	0.03	0.15	0.61
C19H34O2	%	all sites	0.07	0.32	1.09
C19H36O2	%	all sites	0.22	0.46	1.16
C19H38O2	%	all sites	0.20	0.32	0.56
C20H22O2	%	all sites	0.00	0.01	0.12
C20H24O2	%	all sites	0.01	0.03	0.11
C20H26O2	%	all sites	0.02	0.12	0.29
C20H28O2	%	all sites	0.45	1.06	4.85
C20H30O2	%	all sites	0.95	7.21	13.09
C20H32O2	%	all sites	0.39	1.19	2.14
C20H34O2	%	all sites	0.13	0.32	0.69
C20H36O2	%	all sites	0.22	0.41	1.42
C20H38O2	%	all sites	0.11	0.29	0.52
C20H40O2	%	all sites	0.30	0.85	1.25
C21H24O2	%	all sites	0.01	0.05	0.10
C21H26O2	%	all sites	0.00	0.01	0.05
C21H28O2	%	all sites	0.00	0.02	0.10
C21H30O2	%	all sites	0.01	0.06	0.12
C21H32O2	%	all sites	0.02	0.07	0.24
C21H34O2	%	all sites	0.03	0.11	0.40
C21H36O2	%	all sites	0.02	0.20	0.82
C21H38O2	%	all sites	0.04	0.29	1.37
C21H40O2	%	all sites	0.01	0.10	0.48
C21H42O2	%	all sites	0.21	0.39	0.96
C22H32O2	%	all sites	0.12	0.80	2.45
C22H34O2	%	all sites	0.08	0.24	0.81
C22H36O2	%	all sites	0.04	0.12	0.50
C22H38O2	%	all sites	0.03	0.10	0.30

Table 2: Current Condition Targets, Athabasca River - Sediment (continued)

Parameter	Unit	Site	5th	50th	95th
C22H40O2	%	all sites	0.06	0.28	1.39
C22H42O2	%	all sites	0.12	0.34	1.11
C22H44O2	%	all sites	0.01	0.60	1.86
C23H32O2	%	all sites	0.00	0.02	0.07
C23H34O2	%	all sites	0.00	0.03	0.10
C23H36O2	%	all sites	0.00	0.04	0.12
C23H38O2	%	all sites	0.01	0.06	0.30
C23H40O2	%	all sites	0.02	0.15	0.85
C23H42O2	%	all sites	0.04	0.27	1.38
C23H44O2	%	all sites	0.05	0.19	0.85
C23H46O2	%	all sites	0.12	0.41	0.92
C24H36O2	%	all sites	0.00	0.02	0.10
C24H38O2	%	all sites	0.01	0.03	0.08
C24H40O2	%	all sites	0.01	0.04	0.12
C24H42O2	%	all sites	0.04	0.20	1.23
C24H44O2	%	all sites	0.06	0.24	1.34
C24H46O2	%	all sites	0.03	0.23	0.38
C24H48O2	%	all sites	0.01	0.75	2.04
C25H38O2	%	all sites	0.00	0.00	0.05
C25H40O2	%	all sites	0.01	0.04	0.08
C25H42O2	%	all sites	0.01	0.03	0.12
C25H44O2	%	all sites	0.01	0.08	0.28
C25H46O2	%	all sites	0.04	0.15	0.49
C25H48O2	%	all sites	0.04	0.09	0.38
C25H50O2	%	all sites	0.01	0.39	0.80
C34-C50 Hydrocarbons	ug/g	all sites	-	-	-
C5H10O2	%	all sites	0.00	0.03	0.12
C6H12O2	%	all sites	0.00	0.02	0.14
C7H12O2	%	all sites	0.00	0.01	0.03
C7H14O2	%	all sites	0.01	0.04	0.19
C8H14O2	%	all sites	0.01	0.02	0.07
C8H16O2	%	all sites	0.04	0.18	0.69
C9H14O2	%	all sites	0.00	0.01	0.06
C9H16O2	%	all sites	0.00	0.03	0.07
C9H18O2	%	all sites	0.13	0.47	1.38

Table 2: Current Condition Targets, Athabasca River - Sediment (continued)

	Parameter	Unit	Site	5th	$50 \mathrm{th}$	$95 \mathrm{th}$
	Ethylbenzene	ug/g	all sites	-	-	-
	Hydrocarbons	ug/g	all sites	-	-	-
	Naphthenic acids	ug/g	all sites	52.91	136.50	458.90
	Toluene	ug/g	all sites	-	-	-
	Total xylenes	ug/g	all sites	-	-	-
	m,p-Xylene	ug/g	all sites	-	-	-
	o-Xylene	ug/g	all sites	-	-	-
Nutrient	s and BOD					
	Ammonium, Available as N	ng/g	all sites	819.46	6550.00	25800.0
	Kjeldahl nitrogen, Total	%	all sites	0.01	0.04	0.10
PAHs						
	1,2,6-Trimethylphenanthrene	ng/g	all sites	1.05	3.15	8.62
	1,2-Dimethylnaphthalene	ng/g	all sites	0.22	1.53	2.98
	1,4,6,7-Tetramethylnaphthalene	ng/g	all sites	1.65	4.55	8.09
	1,6,7-Trimethylnaphthalene	ng/g	all sites	1.41	6.21	10.20
	1,7-Dimethylfluorene	ng/g	all sites	0.53	1.62	4.68
	1,7-Dimethylphenanthrene	ng/g	all sites	2.05	6.92	22.40
	1,8-Dimethylphenanthrene	ng/g	all sites	0.51	1.75	4.98
	1-Methylchrysene	ng/g	all sites	1.55	4.68	29.00
	1-Methylnaphthalene	ng/g	all sites	1.40	6.79	16.60
	1-Methylphenanthrene	ng/g	all sites	1.70	6.16	21.40
	2,3,6-Trimethylnaphthalene	ng/g	all sites	1.71	7.29	14.20
	2,4-Dimethyldibenzothiophene	ng/g	all sites	1.59	4.05	26.10
	2,6-Dimethylnaphthalene	ng/g	all sites	1.56	6.96	18.30
	2,6-Dimethylphenanthrene	ng/g	all sites	1.08	3.13	17.50
	2-Methylanthracene	ng/g	all sites	0.47	1.19	19.60
	2-Methyldibenzothiophenes/3-Methyldibenzothiophenes	ng/g	all sites	1.12	3.58	45.00
	2-Methylfluorene	ng/g	all sites	0.46	1.09	3.07
	2-Methylnaphthalene	ng/g	all sites	2.15	10.98	32.00
	2-Methylphenanthrene	ng/g	all sites	2.50	9.30	48.60
	3,6-Dimethylphenanthrene	ng/g	all sites	1.34	3.92	12.30
	3-Methylfluoranthene/Benzo[a]fluorene	ng/g	all sites	3.29	8.38	31.80
	3-Methylphenanthrene	ng/g	all sites	2.07	6.86	29.40
	4,6-Dimethyldibenzothiophene	ng/g	all sites	_	-	_
	5,9-Dimethylchrysene	ng/g	all sites	4.84	11.90	56.30
	,	5/ 0				

Table 2: Current Condition Targets, Athabasca River - Sediment (continued)

Parameter	Unit	Site	$5 ext{th}$	50th	95th
5-Methylchrysene/6-Methylchrysene	ng/g	all sites	1.00	2.84	11.90
7-Methylbenzo[a]pyrene	ng/g	all sites	1.03	2.54	12.00
9-Methylphenanthrene/4- Methylphenanthrene	ng/g	all sites	2.57	7.95	22.90
Acenaphthene	ng/g	all sites	<	<	<
Acenaphthylene	ng/g	all sites	-	-	-
Anthracene	ng/g	all sites	<	<	<
Benz[a]anthracene	ng/g	all sites	<	<	<
Benzo(b)fluoranthene	ng/g	all sites	2.38	7.83	22.30
Benzo(j+k)fluoranthene	ng/g	all sites	1.10	2.73	13.80
Benzo[a]pyrene	ng/g	all sites	<	<	<
Benzo[b,j,k]fluoranthene	ng/g	all sites	-	-	-
Benzo[e]pyrene	ng/g	all sites	2.87	8.22	46.90
Benzo[ghi]perylene	ng/g	all sites	<	<	<
Biphenyl	ng/g	all sites	<	<	<
C1-Acenaphthenes	ng/g	all sites	<	<	<
C1-Benzo[a]anthracenes/chrysenes	ng/g	all sites	9.62	35.15	105.86
C1-Benzofluoranthenes/benzopyrenes	ng/g	all sites	<	<	<
C1-Biphenyls	ng/g	all sites	<	<	<
C1-Dibenzothiophenes	ng/g	all sites	0.23	3.02	36.90
C1-Fluoranthenes/pyrenes	ng/g	all sites	5.23	27.90	121.02
C1-Fluorenes	ng/g	all sites	<	<	<
C1-Naphthalenes	ng/g	all sites	7.90	16.24	29.40
C1-Phenanthrenes/anthracenes	ng/g	all sites	4.49	20.10	61.10
C2-Benzo[a]anthracenes/chrysenes	ng/g	all sites	<	<	<
C2-Benzofluoranthenes/benzopyrenes	ng/g	all sites	<	<	<
C2-Biphenyls	ng/g	all sites	<	<	<
C2-Dibenzothiophenes	ng/g	all sites	8.08	54.40	125.00
C2-Fluoranthenes/pyrenes	ng/g	all sites	10.37	48.20	159.05
C2-Fluorenes	ng/g	all sites	8.44	17.47	33.60
C2-Naphthalenes	ng/g	all sites	8.48	27.50	49.90
C2-Phenanthrenes/anthracenes	ng/g	all sites	5.19	38.40	70.30
C3-Benzo[a]anthracenes/chrysenes	ng/g	all sites	5.91	16.30	49.00
C3-Dibenzothiophenes	ng/g	all sites	11.46	103.00	255.00
C3-Fluoranthenes/pyrenes	ng/g	all sites	9.05	38.20	96.17

Table 2: Current Condition Targets, Athabasca River - Sediment (continued)

C3-Fluorenes							
C3-Naphthalenes		Parameter	Unit	Site	5th	50th	95th
C3-Phenanthrenes/anthracenes		C3-Fluorenes	ng/g	all sites	10.69	27.78	80.00
C4-Benzo[a]anthracenes/chrysenes         ng/g         all sites         2.43         8.35         17.00           C4-Dibenzothiophenes         ng/g         all sites         28.88         82.00         265.00           C4-Pluoranthenes/pyrenes         ng/g         all sites         7.32         22.05         47.40           C4-Naphthalenes         ng/g         all sites         15.91         28.80         43.00           C4-Phenanthrenes/anthracenes         ng/g         all sites         16.61         215.00         895.60           Chrysene         ng/g         all sites         1.03         12.60         73.84           Dibenz[a,h]anthracene         ng/g         all sites         <		C3-Naphthalenes	ng/g	all sites	9.55	26.20	42.30
C4-Dibenzothiophenes         ng/g         all sites         28.88         82.00         265.00           C4-Fluoranthenes/pyrenes         ng/g         all sites         7.32         22.05         47.40           C4-Naphthalenes         ng/g         all sites         15.91         28.80         43.00           C4-Phenanthrenes/anthracenes         ng/g         all sites         16.61         215.00         895.60           Chrysene         ng/g         all sites         1.03         12.60         73.84           Dibenz(a,h)anthracene         ng/g         all sites         <		C3-Phenanthrenes/anthracenes	ng/g	all sites	7.51	50.00	110.00
C4-Fluoranthenes/pyrenes		C4-Benzo[a]anthracenes/chrysenes	ng/g	all sites	2.43	8.35	17.00
C4-Naphthalenes         ng/g         all sites         15.91         28.80         43.00           C4-Phenanthrenes/anthracenes         ng/g         all sites         16.61         215.00         895.60           Chrysene         ng/g         all sites         1.03         12.60         73.84           Dibenz(ja,h]anthracene         ng/g         all sites         <		C4-Dibenzothiophenes	ng/g	all sites	28.88	82.00	265.00
C4-Phenanthrenes/anthracenes		C4-Fluoranthenes/pyrenes	ng/g	all sites	7.32	22.05	47.40
Chrysene		C4-Naphthalenes	ng/g	all sites	15.91	28.80	43.00
Dibenz[a,h]anthracene   ng/g   all sites   <   <   <   <   <   <   <   <   <		C4-Phenanthrenes/anthracenes	ng/g	all sites	16.61	215.00	895.60
Dibenzothiophene   ng/g   all sites   <   <   <   <   <   <   <   <   <		Chrysene	ng/g	all sites	1.03	12.60	73.84
Fluoranthene   ng/g   all sites   <   <   <   <   <   <   <   <   <		Dibenz[a,h]anthracene	ng/g	all sites	<	<	<
Fluorene   ng/g   all sites   <   <   <   <   <   <   <   <   <		Dibenzothiophene	ng/g	all sites	<	<	<
Indeno[1,2,3-cd]pyrene   ng/g   all sites   <   <   <   <   <   <   <   <   <		Fluoranthene	ng/g	all sites	<	<	<
Naphthalene		Fluorene	ng/g	all sites	<	<	<
Perylene		Indeno[1,2,3-cd]pyrene	ng/g	all sites	<	<	<
Phenanthrene   ng/g   all sites   <   <   <   <   <   <   <   <   <		Naphthalene	ng/g	all sites	<	<	<
Phenanthrene   ng/g   all sites   <   <   <   <   <   <   <   <   <		Perylene	ng/g	all sites	22.10	68.75	129.00
Retene   ng/g   all sites   6.98   42.20   84.40		Phenanthrene	ng/g	all sites	<	<	<
Retene   ng/g   all sites   6.98   42.20   84.40		Pyrene	ng/g	all sites	0.58	3.25	15.40
Phenolics		Retene	ng/g	all sites	6.98	42.20	84.40
Phenols, Extractable   ng/g   all sites   <   <   <   <   <   <   <   <   <	Phenol	lics	<u> </u>				
Aluminum       ug/g       all sites       848.00       5340.00       9890.00         Antimony       ug/g       all sites       0.09       0.20       0.30         Arsenic       ug/g       all sites       1.96       4.21       6.67         Barium       ug/g       AB07DA0062       -       -       -         ug/g       AB07DA3008       -       -       -         ug/g       AB07DA3008       -       -       -         ug/g       AB07DA3015       -       -       -         ug/g       AB07DA3016       -       -       -         ug/g       AB07DA3017       -       -       -         ug/g       AB07DA3018       -       -       -         ug/g       AB07DA3020       -       -       -	i iiciici		ng/g	all sites	<	<	<
Antimony ug/g all sites 0.09 0.20 0.30  Arsenic ug/g all sites 1.96 4.21 6.67  Barium ug/g AB07DA0062	Total I	Metals					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Aluminum	ug/g	all sites	848.00	5340.00	9890.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Antimony	ug/g	all sites	0.09	0.20	0.30
ug/g       AB07DA0800       -       -       -         ug/g       AB07DA3008       -       -       -         ug/g       AB07DA3009       -       -       -         ug/g       AB07DA3015       -       -       -         ug/g       AB07DA3016       -       -       -         ug/g       AB07DA3017       -       -       -         ug/g       AB07DA3018       -       -       -         ug/g       AB07DA3020       -       -       -		Arsenic	ug/g	all sites	1.96	4.21	6.67
ug/g       AB07DA3008       -       -       -         ug/g       AB07DA3009       -       -       -         ug/g       AB07DA3015       -       -       -         ug/g       AB07DA3016       -       -       -         ug/g       AB07DA3017       -       -       -         ug/g       AB07DA3018       -       -       -         ug/g       AB07DA3020       -       -       -		Barium	ug/g	AB07DA0062	-	-	-
ug/g       AB07DA3009       -       -       -         ug/g       AB07DA3015       -       -       -         ug/g       AB07DA3016       -       -       -         ug/g       AB07DA3017       -       -       -         ug/g       AB07DA3018       -       -       -         ug/g       AB07DA3020       -       -       -			ug/g	AB07DA0800	-	-	-
ug/g     AB07DA3015     -     -     -       ug/g     AB07DA3016     -     -     -       ug/g     AB07DA3017     -     -     -       ug/g     AB07DA3018     -     -     -       ug/g     AB07DA3020     -     -     -			ug/g	AB07DA3008	-	-	-
ug/g       AB07DA3016       -       -       -         ug/g       AB07DA3017       -       -       -         ug/g       AB07DA3018       -       -       -         ug/g       AB07DA3020       -       -       -			ug/g	AB07DA3009	-	-	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			ug/g	AB07DA3015	-	-	-
ug/g       AB07DA3017       -       -       -         ug/g       AB07DA3018       -       -       -         ug/g       AB07DA3020       -       -       -			-	AB07DA3016	-	-	-
ug/g       AB07DA3018       -       -       -         ug/g       AB07DA3020       -       -       -					_	-	-
ug/g AB07DA3020					-		-
					_		
			$\frac{ug/g}{ug/g}$	AB07DA3021	_	-	_

Table 2: Current Condition Targets, Athabasca River - Sediment (continued)

	Parameter	Unit	Site	5th	50th	95th
		ug/g	AB07DA3022	-	-	-
		ug/g	AB07DA3023	-	-	-
		ug/g	AB07DA3024	-	-	-
		ug/g	ATR-ER	-	-	-
	Beryllium	ug/g	all sites	<	<	<
_	Bismuth	ug/g	all sites	-	-	_
-	Boron	ug/g	all sites	3.59	5.25	7.83
_	Cadmium	ug/g	all sites	<	<	<
_	Calcium	ug/g	AB07DA0062	-	-	-
		ug/g	AB07DA0800	-	-	_
		ug/g	AB07DA3008	-	-	_
		ug/g	AB07DA3009	-	-	-
		ug/g	AB07DA3015	-	-	-
		ug/g	AB07DA3016	-	-	-
		ug/g	AB07DA3017	-	-	-
		ug/g	AB07DA3018	_	_	_
		ug/g	AB07DA3020	-	-	_
		ug/g	AB07DA3021	-	-	_
		ug/g	AB07DA3022	-	-	_
		ug/g	AB07DA3023	_	_	_
		ug/g	AB07DA3024	-	-	-
-	Chromium	ug/g	all sites	2.29	10.90	17.35
_	Cobalt	ug/g	all sites	2.00	6.03	8.80
_	Copper	ug/g	all sites	1.42	6.75	14.42
_	Iron	ug/g	all sites	4000.00	13000.00	20300.0
-	Lead	ug/g	all sites	3.19	5.34	8.89
	Ecaa	46/8	CLII DICCD			
-	Lithium	ug/g	all sites	4.25	8.12	12.36
_						12.36
-	Lithium	ug/g	all sites	4.25	8.12	
-	Lithium	ug/g ug/g	all sites AB07DA0062	4.25	8.12	-
_	Lithium	ug/g ug/g ug/g	all sites AB07DA0062 AB07DA0800	4.25	8.12	-
_	Lithium	ug/g ug/g ug/g ug/g	all sites AB07DA0062 AB07DA0800 AB07DA3008	4.25 - -	8.12 - -	-
	Lithium	ug/g ug/g ug/g ug/g ug/g	AB07DA0062 AB07DA0800 AB07DA3008 AB07DA3009	4.25 - -	8.12 - - -	- - -
-	Lithium	ug/g ug/g ug/g ug/g ug/g ug/g	AB07DA0062 AB07DA0800 AB07DA3008 AB07DA3009 AB07DA3015	4.25 - - - -	8.12 - - - -	- - -

Table 2: Current Condition Targets, Athabasca River - Sediment (continued)

Pa	rameter	Unit	Site	5th	50th	95th
		ug/g	AB07DA3020	-	-	-
		ug/g	AB07DA3021	-	-	-
		ug/g	AB07DA3022	-	-	-
		ug/g	AB07DA3023	-	-	-
		ug/g	AB07DA3024	-	-	-
		ug/g	ATR-ER	-	-	-
Ma	anganese	ug/g	all sites	78.35	289.00	555.50
Me	ercury	ug/g	all sites	<	<	<
Me	olybdenum	ug/g	all sites	<	<	<
Ni	ckel	ug/g	all sites	3.37	13.30	21.15
Ph	osphorus	ug/g	AB07DA0062	-	-	-
		ug/g	AB07DA0800	-	-	-
		ug/g	AB07DA3008	-	-	-
		ug/g	AB07DA3009	-	-	-
		ug/g	AB07DA3015	-	-	-
		ug/g	AB07DA3016	-	-	-
		ug/g	AB07DA3017	-	-	-
		ug/g	AB07DA3018	-	-	-
		ug/g	AB07DA3020	-	-	-
		ug/g	AB07DA3021	-	-	-
		ug/g	AB07DA3022	-	-	-
		ug/g	AB07DA3023	-	-	-
		ug/g	AB07DA3024	-	-	-
Po	otassium	ug/g	all sites	222.10	767.50	1261.5
Sil	ver	ug/g	all sites	<	<	<
So	dium	ug/g	all sites	<	<	<
St	rontium	ug/g	all sites	7.95	46.70	75.55
Th	nallium	ug/g	all sites	<	<	<
Th	norium	ug/g	all sites	0.89	3.33	5.25
Ti	n	ug/g	all sites	<	<	<
Ti	tanium	ug/g	all sites	34.41	63.90	96.81
Tu	ıngsten	ug/g	all sites	<	<	<
Ur	anium	ug/g	all sites	<	<	<
Va	nadium	ug/g	all sites	4.21	17.10	27.40
	nc	ug/g	all sites	12.23	39.90	61.72

Table 2: Current Condition Targets, Athabasca River - Sediment (continued)

Parameter	Unit	Site	5th	50th	95th
Zirconium	ug/g	all sites	1.32	3.95	5.95

Table 3: Current Condition Targets, Athabasca River Delta - Water

				High Flow		(	Open Wate	r		Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	50th	95th
Bacteria											
Escherichia coli	No/100 mL	all sites	1.37	5.48	30.00	<	<	<	<	<	<
Fecal Coliform	No/100  mL	all sites	1.24	6.50	39.80	0.09	1.53	29.00	<	<	<
Total Coliform	No/100  mL	all sites	-	-	-	-	-	-	-	-	
Conventional Variables Alkalinity, Phenolphthalein (total hydroxide+1/2 carbonate) as CaCO3	mg/L	all sites	<	<	<	<	<	<	<	<	<
Alkalinity, total as CaCO3	$\mathrm{mg/L}$	all sites	68.80	89.00	100.00	90.40	110.00	128.00	100.00	140.00	160.0
Deuterium/Hydrogen ratio	o/oo VSMOW	all sites	-152.40	-144.25	-135.60	-142.20	-139.30	-133.80	-144.57	-139.95	-136.6
Dissolved oxygen (DO)	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	
Organic carbon, Filtered	mg/L	all sites	4.60	12.00	19.60	5.42	7.90	16.80	4.48	7.50	13.0
Organic carbon, Unfiltered	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	
Organic carbon, Unknown	$\mathrm{mg/L}$	all sites	4.30	12.50	19.00	4.47	9.10	20.50	5.03	8.20	14.0
Oxidation reduction potential (ORP)	mV	all sites	162.30	288.50	547.90	107.00	208.50	421.25	+	+	
	mV	AB07DD0010	+	+	+	+	+	+	105.20	193.00	426.8
	mV	AB07DD0105	+	+	+	+	+	+	104.30	227.50	553.2
Oxygen-18	o/oo VSMOW	all sites	-19.02	-18.18	-16.98	-17.76	-17.30	-16.70	-18.21	-17.32	-16.9
Specific conductivity	uS/cm	all sites	172.00	220.00	286.00	232.00	290.00	362.00	289.00	420.00	493.
Temperature, air	degC	all sites	6.00	17.00	34.00	-4.00	8.00	22.00	-26.50	-7.00	6.
Total dissolved solids, Filtered	$\mathrm{mg/L}$	all sites	101.00	140.00	180.00	141.00	180.00	267.00	178.00	250.00	302.
Total suspended solids, Non-Filterable (Particle)	mg/L	all sites	34.00	160.00	612.00	10.40	32.00	206.00	1.30	4.00	17.
True colour, Filtered	rel units	all sites	15.60	66.00	126.00	16.20	32.00	97.80	17.80	28.00	57.
Turbidity	NTU	all sites	4.12	65.00	246.00	4.20	13.00	77.80	2.88	3.70	14.
pH, lab	pH units	all sites	7.63	8.02	8.17	7.60	8.04	8.20	+	+	
	pH units	AB07DD0010	+	+	+	+	+	+	7.78	7.96	8.0
	pH units	AB07DD0105	+	+	+	+	+	+	7.64	7.88	8.

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow		C	pen Wate	r		Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	50th	95t
olved Metals											
Aluminum, Filtered	ug/L	all sites	3.55	16.20	104.85	1.84	7.96	39.06	1.92	4.23	18.
Antimony, Filtered	ug/L	all sites	0.06	0.09	0.13	<	<	<	+	+	
	$_{ m ug/L}$	AB07DD0010	+	+	+	+	+	+	<	<	
	$\mathrm{ug/L}$	AB07DD0105	+	+	+	+	+	+	<	<	
Arsenic, Filtered	$\mathrm{ug/L}$	all sites	0.35	0.55	0.79	0.33	0.50	0.80	0.30	0.42	0.
Barium, Filtered	ug/L	all sites	34.70	42.95	49.55	40.78	45.60	53.30	44.51	59.75	70.
Beryllium, Filtered	ug/L	all sites	0.00	0.01	0.02	0.00	0.00	0.04	0.00	0.00	0.
Bismuth, Filtered	ug/L	all sites	0.00	0.00	0.01	0.00	0.00	0.02	<	<	
Boron, Filtered	ug/L	all sites	15.62	22.20	30.93	17.86	22.60	29.20	24.36	31.75	37
Cadmium, Filtered	ug/L	all sites	0.01	0.01	0.02	0.00	0.01	0.11	0.01	0.01	0
Calcium, Filtered	mg/L	all sites	17.65	25.75	31.07	25.12	31.40	36.80	29.55	40.20	48
Chlorine, Filtered	mg/L	all sites	1.56	4.09	7.83	4.03	8.22	16.48	10.29	20.80	37
Chromium, Filtered	ug/L	all sites	0.08	0.23	0.76	0.05	0.15	0.54	0.10	0.24	0
Cobalt, Filtered	ug/L	all sites	0.04	0.07	0.13	0.04	0.07	0.22	+	+	
	ug/L	AB07DD0010	+	+	+	+	+	+	0.04	0.08	0
	ug/L	AB07DD0105	+	+	+	+	+	+	0.02	0.06	0
Copper, Filtered	ug/L	all sites	0.83	1.55	2.46	0.65	0.97	2.18	0.50	0.75	1
Iron, Filtered	ug/L	all sites	29.55	121.50	426.50	23.60	95.00	293.60	116.65	178.00	367
Lead, Filtered	ug/L	all sites	0.02	0.08	0.26	0.01	0.04	0.23	0.01	0.05	0
Lithium, Filtered	ug/L	all sites	3.75	5.21	7.40	4.73	6.09	7.20	6.78	8.59	10
Manganese, Filtered	ug/L	all sites	0.55	1.73	6.01	0.31	1.40	8.23	4.68	18.80	35
Mercury, Filtered	ng/L	all sites	-	-	-	-	-	-	0.33	0.50	1
Methylmercury(1+), Filtered	ng/L	all sites	0.02	0.06	0.11	0.02	0.04	0.12	0.02	0.03	0
Molybdenum, Filtered	ug/L	all sites	0.15	0.49	0.70	0.38	0.63	0.98	0.52	0.64	0
Nickel, Filtered	ug/L	all sites	0.36	1.43	3.48	0.29	0.75	1.33	0.07	0.76	1
Selenium, Filtered	ug/L	all sites	0.05	0.11	0.26	0.18	0.24	0.30	0.14	0.25	0

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow			Open Water	r		Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	50th	95t
Silver, Filtered	$\mathrm{ug/L}$	all sites	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.0
Strontium, Filtered	ug/L	all sites	99.12	162.50	213.00	128.20	206.00	253.00	195.80	266.00	339.4
Thallium, Filtered	ug/L	all sites	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.0
Thorium, Filtered	ug/L	all sites	0.00	0.03	0.13	0.00	0.01	0.06	0.00	0.01	0.0
Tin, Filtered	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	<	<	•
Titanium, Filtered	$\mathrm{ug/L}$	all sites	0.64	1.91	9.21	0.44	1.03	4.72	0.81	1.18	2.3
Uranium, Filtered	ug/L	all sites	0.25	0.34	0.39	0.26	0.35	0.43	+	+	-
	$_{ m ug/L}$	AB07DD0010	+	+	+	+	+	+	0.27	0.42	0.4
	$_{ m ug/L}$	AB07DD0105	+	+	+	+	+	+	0.31	0.39	0.4
Vanadium, Filtered	ug/L	all sites	0.26	0.43	0.67	0.19	0.31	0.65	0.07	0.17	0.3
Zinc, Filtered	ug/L	all sites	0.23	0.61	1.73	0.22	0.53	1.11	+	+	-
	$_{ m ug/L}$	AB07DD0010	+	+	+	+	+	+	0.75	1.02	3.5
	$_{ m ug/L}$	AB07DD0105	+	+	+	+	+	+	0.59	1.58	7.7
actable Metals											
Aluminum, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Antimony, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Arsenic, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Barium, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Beryllium, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Bismuth, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Boron, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Cadmium, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Calcium, Unfiltered	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	
Chromium, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Cobalt, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Copper, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Iron, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

			]	High Flow		C	pen Water			Under Ice	
Parameter	Unit	Site	5th	50th	95th	$5\mathrm{th}$	$50 \mathrm{th}$	95th	5th	50th	95t
Lead, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Lithium, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Manganese, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Molybdenum, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Nickel, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Selenium, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Silver, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Strontium, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Thallium, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Thorium, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Tin, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Titanium, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Uranium, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Vanadium, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Zinc, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-	
Colour (visual)	1	all sites	0.20	1.00	2.00	0.20	1.00	1.80	0.00	1.00	1.
Depth, snow cover	m	all sites	-	-	-	-	-	-	0.03	0.16	0
Dissolved oxygen (DO)	$_{ m mg/L}$	all sites	7.64	9.05	11.28	7.88	10.40	13.16	+	+	
	$_{ m mg/L}$	AB07DD0010	+	+	+	+	+	+	9.87	11.32	13.
	$\mathrm{mg/L}$	AB07DD0105	+	+	+	+	+	+	8.79	10.78	12
Floating solids or foam	1	all sites	0.00	1.00	3.00	0.00	1.00	2.00	0.00	0.00	0.
Ice cover	%	all sites	-	-	-	-	-	-	88.25	100.00	100
Ice thickness	m	AB07DD0010	+	+	+	+	+	+	0.10	0.50	0.
	m	AB07DD0105	+	+	+	+	+	+	0.26	0.70	1.
Odor	1	all sites	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.
Snow cover	%	all sites	-	-	-	-	-	-	80.00	100.00	100

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow		(	Open Wate	r		Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	50th	95th
Specific conductivity	uS/cm	all sites	150.06	228.60	287.38	217.25	286.20	362.00	+	+	+
	uS/cm	AB07DD0010	+	+	+	+	+	+	137.18	425.40	510.44
	uS/cm	AB07DD0105	+	+	+	+	+	+	271.09	401.20	486.53
Temperature, water	$\deg C$	all sites	7.40	17.27	21.82	1.59	10.95	21.91	-0.21	0.01	0.19
Turbidity, visual	1	all sites	1.00	2.00	3.00	0.00	1.00	2.00	0.00	1.00	1.15
pH	pH units	all sites	7.51	7.88	8.20	7.47	8.00	9.05	+	+	+
	pH units	AB07DD0010	+	+	+	+	+	+	6.97	7.43	8.23
	pH units	AB07DD0105	+	+	+	+	+	+	6.33	7.25	7.64
eral Organics 12-Chlorodehydroabietic acid	ug/L	all sites	-	-	-	_	-	-	-	-	-
14-Chlorodehydroabietic acid	ug/L	all sites	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	all sites	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	all sites	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/L	all sites	-	-	-	-	-	-	-	-	-
3,4,5-Trichlorocatechol	ug/L	all sites	-	-	-	-	-	-	-	-	-
3,4,5-Trichloroguaiacol	ug/L	all sites	-	-	-	-	-	-	-	-	
3,4,6-Trichlorocatechol	ug/L	all sites	-	-	-	-	-	-	-	-	-
3,4,6-Trichloroguaiacol	ug/L	all sites	-	-	-	-	-	-	-	-	-
3,4-Dichlorocatechol	ug/L	all sites	-	-	-	-	-	-	-	-	-
3,4-Dichloroguaiacol	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	-
3,5-Dichlorocatechol	ug/L	all sites	-	-	-	-	-	-	-	-	-
3,6-Dichlorocatechol	mg/L	all sites	-	-	-	-	-	-	-	-	
4,5,6-Trichloroguaiacol	ug/L	all sites	-	-	-	-	-	-	-	-	-
4,5,6-Trichlorosyringol	ug/L	all sites	-	-	-	-	-	-	-	-	-
4,5-Dichlorocatechol	ug/L	all sites	-	-	-	-	-	-	-	-	_
4,5-Dichloroguaiacol	ug/L	all sites	-	-	-	-	-	-	-	-	
4,5-Dichloroveratrole	ug/L	all sites	-	-	-	-	-	-	_	-	_

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

			]	High Flow		O	pen Water		J	Jnder Ice	
Parameter	Unit	Site	5th	50th	95th	$5 \mathrm{th}$	50th	95th	5th	50th	95t
4,6-Dichloroguaiacol	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
4-Chlorocatechol	ug/L	all sites	-	-	-	-	-	-	-	-	
4-Chloroguaiacol	ug/L	all sites	-	-	-	-	-	-	-	-	
Abietic acid	ug/L	all sites	-	-	-	-	-	-	-	-	
Arachidic acid	ug/L	all sites	-	-	-	-	-	-	-	-	
BTEX, Total	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	<	<	
Benzene	ug/L	all sites	-	-	-	-	-	-	-	-	
Benzidine	ug/L	all sites	-	-	-	-	-	-	-	-	
C10-C16 Hydrocarbons	ug/L	all sites	-	-	-	-	-	-	<	<	
C16-C34 Hydrocarbons	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	<	<	
C34-C50 Hydrocarbons	ug/L	all sites	-	-	-	-	-	-	<	<	
C6-C10 Hydrocarbons	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	<	<	
Cumene	ug/L	all sites	-	-	-	-	-	-	-	-	
Cyanide, Unknown	$\mathrm{mg/L}$	all sites	<	<	<	-	-	-	-	-	
Dehydroabietic acid	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Ethylbenzene	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Isophorone	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Isopimaric acid	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Levopimaric acid	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Linoleic acid	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Myristic acid	ug/L	all sites	-	-	-	-	-	-	-	-	
N-Nitrosodi-n-propylamine	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
N-Nitrosodiphenylamine	ug/L	all sites	-	-	-	-	-	-	-	-	
Naphthenic acids	$\mathrm{mg/L}$	all sites	0.07	0.23	0.41	0.07	0.14	0.27	0.05	0.19	0
Neoabietic acid	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Nitrobenzene	ug/L	all sites	-	-	-	-	-	-	-	-	

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow		O	pen Water		1	Under Ice	
Parameter	Unit	Site	-5th	50th	95th	5th	50th	95th	$5\mathrm{th}$	50th	95t
Oilsands extractable organics	$\mathrm{mg/L}$	all sites	0.28	0.66	6.95	0.15	0.40	2.93	0.14	0.50	1.6
Oleic acid	ug/L	all sites	-	-	-	-	-	-	-	-	
Palmitic acid	ug/L	all sites	-	-	-	-	-	-	-	-	
Palustric acid	ug/L	all sites	-	-	-	-	-	-	-	-	
Pimaric acid	ug/L	all sites	-	-	-	-	-	-	-	-	
S-Ethyl dipropylthiocarbamate	ug/L	all sites	-	-	-	-	-	-	-	-	
Sandaracopimaric acid	ug/L	all sites	-	-	-	-	-	-	-	-	
Stearic acid	ug/L	all sites	-	-	-	-	-	-	-	-	
Styrene	ug/L	all sites	-	-	-	-	-	-	<	<	
Tetrachlorocatechol	ug/L	all sites	-	-	-	-	-	-	-	-	
Tetrachloroguaiacol	ug/L	all sites	-	-	-	-	-	-	-	-	
Tetrachloroveratrole	ug/L	all sites	-	-	-	-	-	-	-	-	
Toluene	ug/L	all sites	-	-	-	-	-	-	-	-	
Vinyl chloride	ug/L	all sites	-	-	-	-	-	-	-	-	
Xylene	ug/L	all sites	-	-	-	-	-	-	<	<	
m,p-Xylene	ug/L	all sites	-	-	-	-	-	-	-	-	
n-Butylbenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
n-Propylbenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
o-Xylene	ug/L	all sites	-	-	-	-	-	-	-	-	
p-Cymene	ug/L	all sites	-	-	-	-	-	-	-	-	
sec-Butylbenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
tert-Butylbenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
ajor Ions											
Calcium, Filtered	$\mathrm{mg/L}$	all sites	20.40	27.00	33.80	26.00	33.00	37.80	32.00	42.00	49.
Chlorate, Unfiltered	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	
Chloride, Unfiltered	$\mathrm{mg/L}$	all sites	3.70	6.00	12.40	6.04	12.00	21.40	13.90	25.00	40.
Fluoride, Unfiltered	$\mathrm{mg/L}$	all sites	0.08	0.10	0.12	0.09	0.10	0.13	0.10	0.12	0.

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow		C	pen Water	•		Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	$50 \mathrm{th}$	95tl
Magnesium, Filtered	mg/L	all sites	4.84	7.90	9.74	8.32	9.40	11.80	+	+	-
	mg/L	AB07DD0010	+	+	+	+	+	+	9.42	13.00	15.0
	mg/L	AB07DD0105	+	+	+	+	+	+	9.65	12.00	14.0
Potassium, Filtered	mg/L	all sites	0.74	1.30	2.60	0.96	1.20	1.48	1.29	1.80	2.3
Sodium, Filtered	mg/L	all sites	8.20	9.40	15.80	10.20	16.00	20.00	20.70	29.00	40.2
Sulfate, Unfiltered as SO4	mg/L	all sites	14.00	23.00	28.80	19.40	28.00	39.00	27.80	36.00	47.1
Sulfide, Unfiltered	mg/L	all sites	-	-	-	-	-	-	-	-	
rients and BOD  Ammonia and ammonium, Unfiltered as N	$\mathrm{mg/L}$	all sites	<	<	<	0.01	0.02	0.08	0.02	0.05	0.1
Biochemical oxygen demand, standard conditions, Filtered	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	
Carbonaceous biochemical oxygen demand, non-standard conditions	mg/L	all sites	-	-	-	-	-	-	-	-	
Chlorophyll a	ug/L	all sites	1.32	6.21	11.22	4.02	6.40	13.02	0.26	0.40	4.5
Inorganic nitrogen (nitrate and nitrite), Unfiltered as N	$\mathrm{mg/L}$	all sites	0.02	0.05	0.11	-	-	-	0.03	0.17	0.2
Kjeldahl nitrogen, Unfiltered as N	mg/L	all sites	0.33	0.70	1.70	0.18	0.45	0.86	0.26	0.41	0.0
Nitrate, Unfiltered as N	mg/L	all sites	0.02	0.05	0.11	-	-	-	0.03	0.17	0.5
Nitrite, Unfiltered as N	mg/L	all sites	-	-	-	-	-	-	<	<	
Orthophosphate, Filtered as P	mg/L	all sites	0.00	0.00	0.01	<	<	<	0.00	0.00	0.0
Silica, reactive, Unknown	mg/L	all sites	3.20	5.80	6.40	-	-	-	-	-	
Total Phosphorus, mixed forms, Filtered as P	mg/L	all sites	0.01	0.01	0.03	0.01	0.01	0.02	0.01	0.01	0.0
Total Phosphorus, mixed forms, Unfiltered as P	mg/L	all sites	0.04	0.11	0.23	0.01	0.04	0.19	0.02	0.02	0.
anohalides 1,1,1,2-Tetrachloroethane	ug/L	all sites	-	-	-	-	-	-	-	-	
1,1,1-Trichloroethane	ug/L	all sites	-	-	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ug/L	all sites	-	-	-	-	-	-	-	-	

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow		O	pen Water		Ţ	Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	$5 \mathrm{th}$	$50 \mathrm{th}$	95t
1,1,2-Trichloroethane	ug/L	all sites	-	-	-	-	-	-	-	-	
1,1-Dichloroethane	ug/L	all sites	-	-	-	-	-	-	-	-	
1,1-Dichloroethylene	ug/L	all sites	-	-	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
1,2,3-Trichloropropane	ug/L	all sites	-	-	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ug/L	all sites	-	-	-	-	-	-	-	-	
1,2-Dichloroethane	ug/L	all sites	-	-	-	-	-	-	-	-	
1,2-Dichloropropane	ug/L	all sites	-	-	-	-	-	-	-	-	
1,2-Diphenylhydrazine	ug/L	all sites	-	-	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
1,3-DICHLOROPROPANE	ug/L	all sites	-	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
1-Propene, 1,1-dichloro-	ug/L	all sites	-	-	-	-	-	-	-	-	
12,14-Dichlorodehydroabietic acid	ug/L	all sites	-	-	-	-	-	-	-	-	
2,2-Dichloropropane	ug/L	all sites	-	-	-	-	-	-	-	-	
2,4,6-Trichloroanisole	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	
2,6-Dichlorosyringaldehyde	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	
2-Chloronaphthalene	ng/L	all sites	-	-	-	-	-	-	-	-	
2-Chlorosyringaldehyde	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	
4-Bromophenyl phenyl ether	ug/L	all sites	-	-	-	-	-	-	-	-	
5,6-Dichlorovanillin	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	
5-Chlorovanillin	mg/L	all sites	-	-	-	-	-	-	-	-	
6-Chlorovanillin	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	
9,10-Dichlorostearic Acid	ug/L	all sites	-	-	-	-	-	-	-	-	
Adsorbable Organic Halide	ug/L	all sites	-	-	-	-	-	-	-	-	

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow		O	pen Water		Ţ	Under Ice	
Parameter	Unit	Site	5th	50th	95th	$5 \mathrm{th}$	50th	95th	5th	50th	95t
Bis(2-chloroethoxy)methane	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Bis(2-chloroethyl) ether	ug/L	all sites	-	-	-	-	-	-	-	-	
Bis(2-chloroisopropyl) ether	ug/L	all sites	-	-	-	-	-	-	-	-	
Bromobenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
CFC-11	ug/L	all sites	-	-	-	-	-	-	-	-	
Carbon tetrachloride	ug/L	all sites	-	-	-	-	-	-	-	-	
Chlorobenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
Chlorodibromomethane	ug/L	all sites	-	-	-	-	-	-	-	-	
Chloroethane	ug/L	all sites	-	-	-	-	-	-	-	-	
Chloroform	ug/L	all sites	-	-	-	-	-	-	-	-	
Chloromethane	ug/L	all sites	-	-	-	-	-	-	-	-	
Dibromomethane	ug/L	all sites	-	-	-	-	-	-	-	-	
Dichlorobromomethane	ug/L	all sites	-	-	-	-	-	-	-	-	
Ethylene dibromide	ug/L	all sites	-	-	-	-	-	-	-	-	
Hexachlorobenzene	ug/L	all sites	-	-	-	-	-	-	-	-	
Hexachlorobutadiene	ug/L	all sites	-	-	-	-	-	-	-	-	
Hexachlorocyclopentadiene	ug/L	all sites	-	-	-	-	-	-	-	-	
Hexachloroethane	ug/L	all sites	-	-	-	-	-	-	-	-	
Methyl bromide	ug/L	all sites	-	-	-	-	-	-	-	-	
Methylene chloride	ug/L	all sites	-	-	-	-	-	-	-	-	
Tetrachloroethylene	ug/L	all sites	-	-	-	-	-	-	-	-	
Tribromomethane	ug/L	all sites	-	-	-	-	-	-	-	-	
Trichloroethylene	ug/L	all sites	-	-	-	-	-	-	-	-	
cis-1,2-Dichloroethylene	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ug/L	all sites	-	-	-	-	-	-	-	-	
o-Chlorotoluene	ug/L	all sites	-	-	-	-	-	-	-	-	
o-Dichlorobenzene	ug/L	all sites	-	-	-	-	-	-	-	-	

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

			]	High Flow		О	pen Water		Ţ	Jnder Ice	
Parameter	Unit	Site	5th	50th	95th	$5\mathrm{th}$	$50 \mathrm{th}$	95th	$5 \mathrm{th}$	50th	$95  ext{th}$
p-Chlorophenyl phenyl ether	ug/L	all sites	-	-	-	-	-	-	-	-	-
p-Chlorotoluene	ug/L	all sites	-	-	-	-	-	-	-	-	_
p-Dichlorobenzene	ug/L	all sites	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	all sites	-	-	-	-	-	-	-	-	_
trans-1,3-Dichloropropene	ug/L	all sites	-	-	-	-	-	-	-	-	-
Hs											
1-Methylnaphthalene	ng/L	all sites	-	-	-	_	-	_	<	<	<
2-Methylnaphthalene	ng/L	all sites	-	-	-	-	-	-	<	<	<
3-Methylcholanthrene	ng/L	all sites	-	-	-	-	-	-	-	-	-
$7,\!12\text{-}Dimethylbenz[a] anthracene$	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	-
Acenaphthene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Acenaphthylene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Anthracene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Benz[a]anthracene	ng/L	all sites	<	<	<	<	<	<	<	<	<
Benzo(b)fluoranthene	ng/L	all sites	-	-	-	-	-	-	-	-	
Benzo[a]pyrene	ng/L	all sites	-	-	-	-	-	-	-	-	
Benzo[b,j,k]fluoranthene	ug/L	all sites	-	-	-	-	-	-	<	<	<
Benzo[c]phenanthrene	ug/L	all sites	-	-	-	-	-	-	-	-	
Benzo[e]pyrene	ng/L	all sites	-	-	-	-	-	-	<	<	<
Benzo[ghi]perylene	ng/L	all sites	-	-	-	-	-	-	-	-	
Benzo[k]fluoranthene	ng/L	all sites	-	-	-	-	-	-	-	-	
C1-Dibenzothiophenes	ng/L	all sites	<	<	<	-	-	-	<	<	<
C1-Fluoranthenes/pyrenes	ng/L	all sites	<	<	<	-	-	-	<	<	<
C2-Chrysenes	ng/L	all sites	<	<	<	-	-	-	<	<	<
C2-Dibenzothiophenes	ng/L	all sites	<	<	<	-	-	-	<	<	<
C2-Fluoranthenes/pyrenes	ng/L	all sites	<	<	<	-	-	-	<	<	<
C2-Fluorenes	ng/L	all sites	<	<	<	-	-	_	<	<	<

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow		O	pen Water		Ţ	Under Ice	
Parameter	Unit	Site	5th	$50 \mathrm{th}$	95th	$5\mathrm{th}$	50th	95th	5th	$50 \mathrm{th}$	95t
C2-Naphthalenes	$\mathrm{ng/L}$	all sites	<	<	<	-	-	-	<	<	•
C2-Phenanthrenes/anthracenes	ug/L	all sites	<	<	<	-	-	-	<	<	
C3-Chrysenes	ng/L	all sites	<	<	<	-	-	-	<	<	
C3-Dibenzothiophenes	ng/L	all sites	<	<	<	-	-	-	<	<	
C3-Fluoranthenes/pyrenes	ng/L	all sites	<	<	<	-	-	-	<	<	
C3-Fluorenes	ng/L	all sites	<	<	<	-	-	-	<	<	
C3-Naphthalenes	ng/L	all sites	<	<	<	-	-	-	<	<	
C3-Phenanthrenes/anthracenes	ug/L	all sites	<	<	<	-	-	-	<	<	
C4-Chrysenes	ng/L	all sites	<	<	<	-	-	-	<	<	
C4-Dibenzothiophenes	ng/L	all sites	<	<	<	-	-	-	<	<	
C4-Fluoranthenes/pyrenes	ng/L	all sites	<	<	<	-	-	-	<	<	
C4-Fluorenes	ng/L	all sites	<	<	<	-	-	-	<	<	
C4-Naphthalenes	ng/L	all sites	<	<	<	<	<	<	<	<	
C4-Phenanthrenes/anthracenes	ug/L	all sites	<	<	<	-	-	-	<	<	
Chrysene	ng/L	all sites	-	-	-	-	-	-	-	-	
Dibenz[a,h]anthracene	ng/L	all sites	<	<	<	<	<	<	<	<	
Dibenzo[a,h]pyrene	ug/L	all sites	-	-	-	-	-	-	-	-	
Dibenzo[a,i]pyrene	ug/L	all sites	-	-	-	-	-	-	-	-	
Dibenzo[a,l]pyrene	ug/L	all sites	-	-	-	-	-	-	-	-	
Fluoranthene	ng/L	all sites	-	-	-	-	-	-	-	-	
Fluorene	ng/L	all sites	<	<	<	<	<	<	<	<	
Indeno[1,2,3-cd]pyrene	ng/L	all sites	<	<	<	<	<	<	<	<	
Methylchrysene	ng/L	all sites	<	<	<	-	-	-	<	<	
Methylfluorene	ng/L	all sites	<	<	<	-	-	-	<	<	
Methylphenanthrene	ng/L	all sites	<	<	<	-	-	-	<	<	
Naphthalene	ng/L	all sites	-	-	-	-	-	-	-	-	
Perylene	ng/L	all sites	-	-	-	-	-	-	<	<	

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

			:	High Flow		O	pen Water		τ	Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	$50 \mathrm{th}$	95th	$5\mathrm{th}$	50th	95
Phenanthrene	ng/L	all sites	-	-	-	-	-	-	-	-	
Pyrene	ng/L	all sites	-	-	-	-	-	-	-	-	
Retene	ng/L	all sites	-	-	-	-	-	-	<	<	
icide											
.alphaEndosulfan	ug/L	all sites	<	<	<	<	<	<	-	-	
.lambdaCyhalothrin	ug/L	all sites	-	-	-	-	-	-	-	-	
2,4-D	ug/L	all sites	<	<	<	<	<	<	-	-	
2,4-DB	ug/L	all sites	<	<	<	<	<	<	-	-	
2-Chloro-4-isopropylamino-6-amino-s- triazine	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	-	-	
2-Choro-6-ethylamino-4-amino-s- triazine	ug/L	all sites	<	<	<	<	<	<	-	-	
Aldicarb	ug/L	all sites	<	<	<	<	<	<	-	-	
Aldicarb sulfone	ug/L	all sites	-	-	-	-	-	-	-	-	
Aldicarb sulfoxide	ug/L	all sites	-	-	-	-	-	-	-	-	
Aldrin	ug/L	all sites	<	<	<	<	<	<	-	-	
Aminocarb	ug/L	all sites	-	-	-	-	-	-	-	-	
Aminopyralid	ug/L	all sites	<	<	<	<	<	<	-	-	
Atrazine	ug/L	all sites	<	<	<	<	<	<	-	-	
Atrazine de-ethylated	ug/L	all sites	-	-	-	-	-	-	-	-	
Azinphos-methyl	ug/L	all sites	<	<	<	<	<	<	-	-	
Azoxystrobin	ug/L	all sites	-	-	-	-	-	-	-	-	
Benomyl	ug/L	all sites	-	-	-	-	-	-	-	-	
Bentazon	ug/L	all sites	<	<	<	<	<	<	-	-	
Benzene Hexachloride, Alpha (BHC)	ug/L	all sites	<	<	<	<	<	<	-	-	
Bromacil	ug/L	all sites	<	<	<	<	<	<	-	-	
Bromoxynil	ug/L	all sites	<	<	<	<	<	<	-	-	
Carbaryl	ug/L	all sites	_	_	_	_	_	_	_	_	

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow		O	pen Water		Ţ	Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	50th	95t
Carbofuran	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	
Carboxin	ug/L	all sites	<	<	<	<	<	<	-	-	
Chlorothalonil	ug/L	all sites	<	<	<	<	<	<	-	-	
Chlorpyrifos	ug/L	all sites	<	<	<	<	<	<	-	-	
Clodinafop acid metabolite	ug/L	all sites	<	<	<	<	<	<	-	-	
Clodinafop-propargyl	ug/L	all sites	<	<	<	<	<	<	-	-	
Clopyralid	ug/L	all sites	<	<	<	<	<	<	-	-	
Clothianidin	ug/L	all sites	-	-	-	-	-	-	-	-	
Cyanazine	ug/L	all sites	<	<	<	<	<	<	-	-	
Deltamethrin	ug/L	all sites	-	-	-	-	-	-	-	-	
Diazinon	ug/L	all sites	<	<	<	<	<	<	-	-	
Dicamba	ug/L	all sites	<	<	<	<	<	<	-	-	
Dichlorprop	ug/L	all sites	<	<	<	<	<	<	-	-	
Diclofop methyl	ug/L	all sites	<	<	<	<	<	<	-	-	
Dieldrin	ug/L	all sites	-	-	-	-	-	-	-	-	
Difenoconazole	ug/L	all sites	-	-	-	-	-	-	-	-	
Dimethoate	ug/L	all sites	<	<	<	<	<	<	-	-	
Disulfoton	ug/L	all sites	<	<	<	<	<	<	-	-	
Diuron	ug/L	all sites	<	<	<	<	<	<	-	-	
Ethalfluralin	ug/L	all sites	<	<	<	<	<	<	-	-	
Ethion	ug/L	all sites	<	<	<	<	<	<	-	-	
Ethofumesate	ug/L	all sites	<	<	<	<	<	<	-	-	
Fenoxaprop-p-ethyl	ug/L	all sites	<	<	<	<	<	<	-	-	
Fenoxaprop-p-methyl	ug/L	all sites	-	-	-	-	-	-	-	-	
Fluazifop-P-butyl	ug/L	all sites	<	<	<	<	<	<	-	-	
Fluroxypyr	ug/L	all sites	<	<	<	<	<	<	-	-	
Hexaconazole	ug/L	all sites	-	-	-	-	-	-	-	-	

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow		O	pen Water		Ţ	Under Ice	
Parameter	Unit	Site	5th	$50 \mathrm{th}$	95th	5th	50th	95th	$5\mathrm{th}$	50th	95t
Imazamethabenz-methyl	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	-	_	
Imazamox	ug/L	all sites	-	-	-	-	-	-	-	-	
Imazethapyr	ug/L	all sites	<	<	<	<	<	<	-	-	
Imidacloprid	ug/L	all sites	-	-	-	-	-	-	-	-	
Iprodione	ug/L	all sites	<	<	<	<	<	<	-	-	
Lindane	ug/L	all sites	<	<	<	<	<	<	-	-	
Linuron	ug/L	all sites	<	<	<	<	<	<	-	-	
MCPA	ug/L	all sites	<	<	<	<	<	<	-	-	
MCPB	ug/L	all sites	<	<	<	<	<	<	-	-	
Malathion	ug/L	all sites	<	<	<	<	<	<	-	-	
Mecoprop	ug/L	all sites	<	<	<	<	<	<	-	-	
Metalaxyl-M	ug/L	all sites	<	<	<	<	<	<	-	-	
Metconazole	ug/L	all sites	-	-	-	-	-	-	-	-	
Methomyl	ug/L	all sites	<	<	<	-	-	-	-	-	
Methoxychlor	ug/L	all sites	<	<	<	<	<	<	-	-	
Metolachlor	ug/L	all sites	<	<	<	<	<	<	-	-	
Metribuzin	ug/L	all sites	<	<	<	<	<	<	-	-	
Monuron	ug/L	all sites	-	-	-	-	-	-	-	-	
Napropamide	ug/L	all sites	<	<	<	<	<	<	-	-	
OH-Carbofuran	ug/L	all sites	-	-	-	-	-	-	-	-	
Oxycarboxin	ug/L	all sites	<	<	<	<	<	<	-	-	
Parathion	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	-	-	
Permethrin	ug/L	all sites	-	-	-	-	-	-	-	-	
Phorate	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	-	-	
Picloram	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	-	-	
Picoxystrobin	ug/L	all sites	-	-	-	-	-	-	-	-	
Propiconazole	ug/L	all sites	<	<	<	<	<	<	-	-	

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flow		O	pen Water		1	Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	50th	95th
Prothioconazole	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	-
Pyraclostrobin	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	-
Pyridaben	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	-	-	-
Quinclorac	ug/L	all sites	<	<	<	<	<	<	-	-	-
Quizalofop	ug/L	all sites	<	<	<	<	<	<	-	-	-
Simazine	ug/L	all sites	<	<	<	<	<	<	-	-	-
Tebuconazole	ug/L	all sites	-	-	-	-	-	-	-	-	-
Terbufos	ug/L	all sites	<	<	<	<	<	<	-	-	-
Thiamethoxam	ug/L	all sites	<	<	<	<	<	<	-	-	-
Triallate	ug/L	all sites	<	<	<	<	<	<	-	-	-
Triclopyr	ug/L	all sites	<	<	<	<	<	<	-	-	-
Trifloxystrobin	ug/L	all sites	-	-	-	-	-	-	-	-	-
Trifluralin	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	-	-	-
Triticonazole	ug/L	all sites	-	-	-	-	-	-	-	-	-
Vinclozolin	ug/L	all sites	<	<	<	<	<	<	-	-	-
Phenolics 2,3,4,6-Tetrachlorophenol	$_{ m ug/L}$	all sites	_		_						
	· · · · · · · · · · · · · · · · · · ·	all sites		-		-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	all sites	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L		-	-	-	-	-	-		-	
2,4-Dichlorophenol	ug/L	all sites	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol/2,5- Dichlorophenol	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	all sites	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	all sites	-	-	-	-	-	-	-	-	-
2,6-Dichlorophenol	$\mathrm{mg/L}$	all sites	-	-	-	-	-	-	-	-	-
4,6-Dinitro-o-cresol	ug/L	all sites	-	-	-	-	-	-	-	-	-
4-Chloro-2-methylphenol	$\mathrm{ug/L}$	all sites	<	<	<	<	<	<	-	-	-
4-Chlorophenol	ug/L	all sites	-	-	-	-	-	-	-	-	-

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flov	V	(	Open Wate	er		Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	$50 \mathrm{th}$	95th
Pentachlorophenol	ug/L	all sites	-	-	-	-	-	-	-	-	-
Phenol	ug/L	all sites	-	-	-	-	-	_	-	-	-
Phenolics	mg/L	all sites	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.01
o-Chlorophenol	ug/L	all sites	-	-	-	-	-	-	-	-	-
o-Nitrophenol	ug/L	all sites	-	-	-	-	-	-	-	-	-
p-Chloro-m-cresol	ug/L	all sites	-	-	-	-	-	-	-	-	-
p-Nitrophenol	ug/L	all sites	-	-	-	-	-	-	-	-	-
Phthalates Butyl benzyl phthalate	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	-
Di(2-ethoxylhexyl) phthalate	ug/L	all sites	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	ug/L	all sites	-	-	-	-	-	-	-	-	-
Dibutyl phthalate	ug/L	all sites	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	all sites	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	all sites	-	-	-	-	-	-	-	-	-
Target PANHs Acridine	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-	-
Total Metals Chromium(VI), Unknown	${ m mg/L}$	all sites	<	<	<	-	-	-	-	-	-
Mercury, Unfiltered	ng/L	all sites	3.42	8.90	23.80	0.80	2.99	13.70	0.46	0.82	4.25
Methylmercury(1+), Unfiltered	ng/L	all sites	0.03	0.16	0.25	0.04	0.07	0.19	0.03	0.04	0.10
Total Recoverable Metals Aluminum, Unfiltered	$\mathrm{ug/L}$	all sites	396.75	2770.00	13475.00	142.40	792.00	5480.00	26.60	97.50	1202.25
Antimony, Unfiltered	ug/L	all sites	0.07	0.10	0.15	0.03	0.07	0.28	0.04	0.05	0.12
Arsenic, Unfiltered	ug/L	all sites	0.72	1.75	2.91	0.50	0.86	1.95	0.42	0.57	0.83
Barium, Unfiltered	ug/L	all sites	55.85	86.15	239.25	46.06	56.90	141.06	49.84	64.05	77.97
Beryllium, Unfiltered	ug/L	all sites	0.03	0.14	0.47	0.01	0.04	0.23	0.00	0.01	0.11
Bismuth, Unfiltered	ug/L	all sites	0.01	0.02	0.06	0.00	0.01	0.02	0.00	0.00	0.02
Boron, Unfiltered	ug/L	all sites	17.00	24.80	41.77	20.70	24.70	40.54	24.30	32.85	39.78

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

				High Flov	<i>I</i>		Open Wate	r		Under Ice	;
Parameter	Unit	Site	5th	50th	95th	5th	$50 \mathrm{th}$	95th	5th	50th	95t
Cadmium, Unfiltered	ug/L	all sites	0.02	0.06	0.27	0.01	0.02	0.13	0.01	0.02	0.0
Calcium, Unfiltered	$\mathrm{mg/L}$	all sites	19.57	27.85	35.48	25.82	32.40	38.18	29.82	40.50	50.2
Chlorine, Unfiltered	$\mathrm{mg/L}$	all sites	1.58	4.12	7.88	4.06	8.40	16.74	10.89	20.80	38.
Chromium, Unfiltered	ug/L	all sites	0.69	3.21	11.71	0.15	0.92	6.31	0.05	0.22	0.0
Cobalt, Unfiltered	ug/L	all sites	0.39	1.35	4.94	0.17	0.41	1.87	0.06	0.12	0.4
Copper, Unfiltered	ug/L	all sites	1.63	3.65	10.13	0.94	1.42	4.81	0.54	0.91	1.
Iron, Unfiltered	ug/L	all sites	1292.50	4240.00	13625.00	454.20	1050.00	4414.00	412.75	565.50	1294.
Lead, Unfiltered	ug/L	all sites	0.54	2.12	10.55	0.17	0.47	2.81	0.07	0.16	2.
Lithium, Unfiltered	ug/L	all sites	5.16	7.46	16.95	5.83	6.83	8.13	7.04	8.92	11.
Manganese, Unfiltered	ug/L	all sites	44.25	104.40	320.50	19.80	54.70	113.80	16.82	30.75	51.
Molybdenum, Unfiltered	ug/L	all sites	0.15	0.52	0.73	0.38	0.60	0.98	0.54	0.65	0.
Nickel, Unfiltered	ug/L	all sites	1.50	4.33	13.17	0.60	1.55	4.97	0.10	1.01	2.
Selenium, Unfiltered	ug/L	all sites	0.15	0.26	0.47	0.15	0.22	0.30	0.19	0.30	0.
Silver, Unfiltered	$\mathrm{ug/L}$	all sites	0.01	0.02	0.33	0.00	0.01	0.03	+	+	
	ug/L	AB07DD0010	+	+	+	+	+	+	0.00	0.00	0.
	$_{ m ug/L}$	AB07DD0105	+	+	+	+	+	+	0.00	0.00	0.
Strontium, Unfiltered	ug/L	all sites	111.00	174.50	227.50	129.40	206.00	256.60	197.10	275.00	343.
Thallium, Unfiltered	ug/L	all sites	0.02	0.05	0.21	0.01	0.02	0.11	0.00	0.01	0.
Thorium, Unfiltered	ug/L	all sites	0.09	0.42	2.51	0.03	0.14	0.88	0.01	0.02	0.
Tin, Unfiltered	ug/L	all sites	0.02	0.05	0.11	<	<	<	0.01	0.04	0.
Titanium, Unfiltered	ug/L	all sites	6.74	33.90	127.00	2.78	11.60	69.98	1.73	2.53	22.
Uranium, Unfiltered	ug/L	all sites	0.36	0.49	1.27	0.32	0.41	0.65	+	+	
	ug/L	AB07DD0010	+	+	+	+	+	+	0.28	0.44	0.
	$_{ m ug/L}$	AB07DD0105	+	+	+	+	+	+	0.31	0.40	0.
Vanadium, Unfiltered	ug/L	all sites	1.58	6.73	21.23	0.64	2.04	12.25	0.25	0.43	2
Zinc, Unfiltered	ug/L	all sites	3.27	10.36	32.95	1.40	3.10	15.63	+	+	
	ug/L	AB07DD0010	+	+	+	+	+	+	1.02	1.65	6.

Table 3: Current Condition Targets, Athabasca River Delta - Water (continued)

			]	High Flow		О	pen Water		Ţ	Under Ice	
Parameter	Unit	Site	5th	50th	95th	5th	50th	95th	5th	50th	95th
	$\mathrm{ug/L}$	AB07DD0105	+	+	+	+	+	+	1.05	2.58	13.22

Table 4: Current Condition Targets, Athabasca River Delta - Sediment

Parameter	Unit	Site	5th	50th	95th
Conventional Variables					
Acid Neutralization Potential as %CaCO3	%	all sites	1.61	5.51	8.35
Grain size, clay (<2 um)	%	all sites	3.07	16.10	33.23
Grain size, sand (>=63 um to 2000 um)	%	all sites	3.39	34.50	92.03
Grain size, silt (>=2 to 63 um)	%	all sites	4.57	48.20	72.33
Inorganic carbon	%	all sites	0.24	0.74	1.02
Moisture content	%	all sites	22.25	34.20	56.30
Organic carbon	%	all sites	0.53	1.44	2.50
Total carbon	%	all sites	0.77	2.10	3.33
General Organics					
AEP Total recoverable hydrocarbons	ug/g	all sites	600.00	700.00	1400.00
BTEX, Total	ug/g	all sites	-	-	-
Benzene	ug/g	all sites	<	<	<
C10-C16 Hydrocarbons	ug/g	all sites	15.48	26.65	48.60
C11-C30 AEP Total extractable hydrocarbons	ug/g	all sites	54.00	200.00	500.00
C16-C34 Hydrocarbons	ug/g	all sites	33.42	216.00	394.50
C34-C50 Hydrocarbons	ug/g	all sites	33.45	172.00	424.50
C5-C10 AEP Total volatile hydrocarbons	ug/g	all sites	0.79	2.35	8.50
Ethylbenzene	ug/g	all sites	<	<	<
Hydrocarbons	ug/g	all sites	85.25	405.50	715.15
Styrene	ug/g	all sites	-	-	-
Toluene	ug/g	all sites	<	<	<
Total xylenes	ug/g	all sites	-	-	-
m,p-Xylene	ug/g	all sites	<	<	<
o-Xylene	ug/g	all sites	<	<	<
PAHs					
$1,\!2,\!6\text{-Trimethylphenanthrene}$	ng/g	all sites	-		-
1,2-Dimethylnaphthalene	ng/g	all sites	-	-	-
1,4,6,7-Tetramethylnaphthalene	ng/g	all sites	-	-	-
1,6,7-Trimethylnaphthalene	ng/g	all sites	-	-	-
1,7-Dimethylfluorene	ng/g	all sites	-	-	-
1,7-Dimethylphenanthrene	ng/g	all sites	-	-	-
1,8-Dimethylphenanthrene	ng/g	all sites	_	_	_

Table 4: Current Condition Targets, Athabasca River Delta - Sediment (continued)

Parameter	Unit	Site	5th	50th	95th
1-Methylchrysene	ng/g	all sites			-
1-Methylnaphthalene	ng/g	all sites		-	_
1-Methylphenanthrene	ng/g	all sites	-	-	-
2,3,6-Trimethylnaphthalene	ng/g	all sites	-	-	-
2,4-Dimethyldibenzothiophene	ng/g	all sites	-	-	-
2,6-Dimethylnaphthalene	ng/g	all sites	-	-	-
2,6-Dimethylphenanthrene	ng/g	all sites	-	-	-
2-Methylanthracene	ng/g	all sites	-	-	-
2-Methyldibenzothiophenes/3-Methyldibenzothiophenes	ng/g	all sites	-	-	-
2-Methylfluorene	ng/g	all sites	-	-	-
2-Methylnaphthalene	ng/g	all sites	-	-	-
2-Methylphenanthrene	ng/g	all sites	-	-	-
3,6-Dimethylphenanthrene	ng/g	all sites	-	-	-
3-Methylfluoranthene/Benzo[a]fluorene	ng/g	all sites	-	-	-
3-Methylphenanthrene	ng/g	all sites	-	-	-
5,9-Dimethylchrysene	ng/g	all sites	-	-	-
5-Methylchrysene/6-Methylchrysene	ng/g	all sites	-	-	-
7-Methylbenzo[a]pyrene	ng/g	all sites	-	-	-
9-Methylphenanthrene/4- Methylphenanthrene	ng/g	all sites	-	-	-
Acenaphthene	ng/g	all sites	<	<	<
Acenaphthylene	ng/g	all sites	<	<	<
Anthracene	ng/g	all sites	<	<	<
Benz[a]anthracene	ng/g	all sites	<	<	<
Benzo(b)fluoranthene	ng/g	all sites	-	-	-
Benzo(j+k)fluoranthene	ng/g	all sites	-	-	-
Benzo[a]pyrene	ng/g	all sites	3.39	5.88	10.20
Benzo[b,j,k]fluoranthene	ng/g	all sites	3.30	15.65	27.77
Benzo[e]pyrene	ng/g	all sites	-	-	-
Benzo[ghi]perylene	ng/g	all sites	3.44	10.45	18.43
Biphenyl	ng/g	all sites	1.69	5.87	10.68
C1-Acenaphthenes	ng/g	all sites	<	<	<
C1-Benzo[a]anthracenes/chrysenes	ng/g	all sites	7.73	67.95	256.7
C1-Benzofluoranthenes/benzopyrenes	ng/g	all sites	17.39	47.45	87.61
C1-Biphenyls	ng/g	all sites	3.30	6.80	14.43

Table 4: Current Condition Targets, Athabasca River Delta - Sediment (continued)

Parameter	Unit	Site	5th	50th	95th
C1-Dibenzothiophenes	ng/g	all sites	3.46	11.35	22.95
C1-Fluoranthenes/pyrenes	ng/g	all sites	17.90	46.25	135.50
C1-Fluorenes	ng/g	all sites	3.26	8.54	25.59
C1-Naphthalenes	ng/g	all sites	5.87	26.25	48.42
C1-Phenanthrenes/anthracenes	ng/g	all sites	7.01	37.80	77.25
C2-Benzo[a]anthracenes/chrysenes	ng/g	all sites	<	<	<
C2-Benzofluoranthenes/benzopyrenes	ng/g	all sites	9.50	21.15	39.20
C2-Biphenyls	ng/g	all sites	2.97	8.62	25.80
C2-Dibenzothiophenes	ng/g	all sites	15.80	49.45	108.8
C2-Fluoranthenes/pyrenes	ng/g	all sites	31.49	80.80	243.7
C2-Fluorenes	ng/g	all sites	8.81	26.50	55.42
C2-Naphthalenes	ng/g	all sites	11.60	43.00	78.95
C2-Phenanthrenes/anthracenes	ng/g	all sites	5.43	52.25	96.10
C3-Benzo[a]anthracenes/chrysenes	ng/g	all sites	-	-	-
C3-Dibenzothiophenes	ng/g	all sites	27.12	92.50	253.5
C3-Fluoranthenes/pyrenes	ng/g	all sites	28.47	78.20	198.9
C3-Fluorenes	ng/g	all sites	12.00	37.75	104.2
C3-Naphthalenes	ng/g	all sites	10.54	37.35	61.75
C3-Phenanthrenes/anthracenes	ng/g	all sites	19.91	59.00	144.7
C4-Benzo[a]anthracenes/chrysenes	ng/g	all sites	-	-	-
C4-Dibenzothiophenes	ng/g	all sites	33.26	113.50	267.3
C4-Fluoranthenes/pyrenes	ng/g	all sites	-	-	-
C4-Naphthalenes	ng/g	all sites	10.15	27.80	55.88
C4-Phenanthrenes/anthracenes	ng/g	all sites	24.50	248.00	543.7
Chrysene	ng/g	all sites	3.43	17.75	30.38
Dibenz[a,h]anthracene	ng/g	all sites	<	<	<
Dibenzothiophene	ng/g	all sites	<	<	<
Fluoranthene	ng/g	all sites	1.14	3.87	7.12
Fluorene	ng/g	all sites	0.38	2.30	4.53
Indeno[1,2,3-cd]pyrene	ng/g	all sites	2.25	6.22	11.50
Naphthalene	ng/g	all sites	2.17	7.75	20.20
Perylene	ng/g	all sites	-	-	-
Phenanthrene	ng/g	all sites	3.72	15.95	27.25
Pyrene	ng/g	all sites	3.22	10.45	18.55
Retene	ng/g	all sites	12.88	52.10	132.7

Table 4: Current Condition Targets, Athabasca River Delta - Sediment (continued)

Parameter	Unit	Site	5th	50th	95th
otal Metals					
Aluminum	ug/g	all sites	3314.00	7800.00	14340.00
Antimony	ug/g	all sites	0.13	0.22	0.35
Arsenic	ug/g	all sites	2.97	4.95	8.19
Barium	ug/g	all sites	66.33	149.50	213.50
Beryllium	ug/g	all sites	<	<	<
Bismuth	ug/g	all sites	<	<	<
Boron	ug/g	all sites	4.00	10.00	23.40
Cadmium	ug/g	all sites	<	<	<
Calcium	ug/g	all sites	9030.00	21100.00	27880.0
Chromium	ug/g	all sites	7.65	14.95	32.88
Cobalt	ug/g	all sites	5.03	7.70	11.22
Copper	ug/g	all sites	4.54	13.10	22.23
Iron	ug/g	all sites	8956.00	17500.00	26380.0
Lead	ug/g	all sites	3.85	7.91	12.10
Lithium	ug/g	all sites	2.19	10.70	20.10
Magnesium	ug/g	all sites	3518.00	7340.00	9310.00
Manganese	ug/g	all sites	172.80	392.00	632.60
Mercury	ug/g	all sites	0.02	0.04	0.07
Molybdenum	ug/g	all sites	<	<	<
Nickel	ug/g	all sites	10.19	18.75	29.40
Phosphorus	ug/g	all sites	185.50	610.50	767.50
Potassium	ug/g	all sites	525.50	1200.00	2100.00
Selenium	ug/g	all sites	0.19	0.41	1.01
Silver	ug/g	all sites	-	-	-
Sodium	ug/g	all sites	72.89	140.00	277.50
Strontium	ug/g	all sites	26.70	60.50	80.50
Thallium	ug/g	all sites	0.09	0.16	0.25
Tin	ug/g	all sites	<	<	<
Titanium	ug/g	all sites	25.44	56.00	82.72
Uranium	ug/g	all sites	<	<	<
Vanadium	ug/g	all sites	12.82	21.70	36.10
Zinc	ug/g	all sites	29.82	59.35	83.53
Zirconium	ug/g	all sites	_	_	_

Table 5: Current Condition Targets, Lake Athabasca - Water

		Unit Site		High Flow			(	Under Ice				
	Parameter		Site	5th	$50 \mathrm{th}$	95th	5th	50th	95th	5th	$50 \mathrm{th}$	95tl
Conv	entional Variables											
_	Alkalinity, total	mg/L	all sites	-	-	-	30.20	35.20	99.30	-	-	
_	Hardness as CaCO3	mg/L	all sites	-	-	-	31.20	38.54	104.00	-	-	
_	Organic carbon, Filtered	$\mathrm{mg/L}$	all sites	-	-	-	3.30	4.35	13.50	-	-	
	Organic carbon, Unfiltered	$\mathrm{mg/L}$	all sites	-	-	-	3.50	4.15	13.10	-	-	
	Specific conductivity	uS/cm	all sites	-	-	-	79.70	92.35	234.00	-	-	
-	Total dissolved solids, Filtered	mg/L	all sites	-	-	-	22.00	57.00	268.00	-	-	
_	Total suspended solids, Non-Filterable (Particle)	mg/L	all sites	-	-	-	1.11	20.00	212.85	-	-	
	Turbidity, Unfiltered	NTU	all sites	-	-	-	6.08	25.95	158.00	-	-	
	pH, lab	pH units	all sites	-	-	-	7.58	7.72	8.11	-	-	
'ield	Conductivity	uS/cm	all sites	73.19	170.52	248.91	45.57	136.13	226.60	-	-	
	Depth, Secchi disk depth	cm	all sites	1.50	10.12	55.50	10.03	21.59	81.10	-	-	
_	Dissolved oxygen (DO)	$\mathrm{mg/L}$	all sites	6.24	9.04	12.67	7.96	9.80	13.92	-	-	
	Dissolved oxygen saturation	%	all sites	62.93	94.62	113.90	84.33	95.27	117.30	-	-	
_	Oxidation reduction potential (ORP)	mV	all sites	-286.94	135.50	319.68	-447.32	108.72	286.20	-	-	
-	Salinity	ppt	all sites	0.04	0.09	0.17	0.03	0.10	0.14	-	-	
	Temperature, water	degC	all sites	7.79	17.55	22.28	1.17	14.00	21.50	-	-	
-	Turbidity	NTU	all sites	9.70	48.80	198.70	7.54	24.70	80.70	-	-	
_	pН	pH units	all sites	7.75	8.22	9.39	7.67	8.13	8.55	-	-	
lene	ral Organics Silica gel treated n-hexane extractable material	$\mathrm{mg/L}$	all sites	-	-	-	<	<	<	-	-	
/Iajo	r Ions Calcium, Unfiltered	mg/L	all sites	-	-	-				-		
	Chloride, Unfiltered	mg/L	all sites	-	-	-	3.30	3.70	4.70	-	-	
_	Fluoride, Unfiltered	mg/L	all sites	-	-	-	<	<	<	-	-	
	Magnesium, Unfiltered	mg/L	all sites	-	-	-	-	-	-	-	-	

Table 5: Current Condition Targets, Lake Athabasca - Water (continued)

	Parameter	Unit Site	Н	High Flow			Open Water				Under Ice		
			5th	$50 \mathrm{th}$	95th	5th	50th	95th	5th	$50 \mathrm{th}$	95th		
	Potassium, Unfiltered	mg/L	all sites	_	-	-	-	-	-	-	-		
_	Sodium, Unfiltered	mg/L	all sites	-	-	-	-	-	-	-	-		
	Sulfate, Unfiltered as SO4	mg/L	all sites	-	-	-	3.00	6.00	20.00	-	-		
utri	ents and BOD Ammonia and ammonium, Unfiltered as N	mg/L	all sites	-	-	-	<	<	<	-	-		
	Inorganic nitrogen (nitrate and nitrite), Unfiltered as N	$\mathrm{mg/L}$	all sites	-	-	-	0.02	0.10	0.22	-	-		
	Nitrate, Unfiltered as N	mg/L	all sites	-	-	-	0.01	0.10	0.22	-	-		
_	Nitrite, Unfiltered as N	mg/L	all sites	-	-	-	0.00	0.00	0.04	-	-		
_	Orthophosphate, Unfiltered as P	mg/L	all sites	-	-	-	0.00	0.00	0.00	-	-		
_	Total Nitrogen, mixed forms, Filtered as N	mg/L	all sites	-	-	-	0.17	0.20	0.47	-	-		
_	Total Nitrogen, mixed forms, Unfiltered as N	$\mathrm{mg/L}$	all sites	-	-	-	0.20	0.25	0.65	-	-		
_	Total Phosphorus, mixed forms, Filtered as P	mg/L	all sites	-	-	-	0.00	0.00	0.01	-	-		
_	Total Phosphorus, mixed forms, Unfiltered as P	mg/L	all sites	-	-	-	0.01	0.04	0.27	-	-		
otal	Metals Aluminum, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	137.00	591.00	3100.00	-	-		
_	Antimony, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-		
	Arsenic, Unfiltered	ug/L	all sites	-	-	-	0.30	0.70	2.40	-	-		
	Barium, Unfiltered	ug/L	all sites	-	-	-	19.10	29.90	92.60	-	-		
_	Beryllium, Unfiltered	ug/L	all sites	-	-	-	0.01	0.03	0.14	-	-		
	Bismuth, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-		
_	Boron, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-		
_	Cadmium, Unfiltered	ug/L	all sites	-	-	-	<	<	<	-	-		
_	Cesium, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-		
_	Chromium, Filtered	ug/L	all sites	-	-	-	<	<	<	-	-		

Table 5: Current Condition Targets, Lake Athabasca - Water (continued)

				High Flow			Open Water				Under Ice		
Parameter	Unit Site	5th	50th	95th	5th	$50 \mathrm{th}$	95th	5th	50th	95t			
Chromium, Unfiltered	ug/L	all sites	-	-	-	0.30	0.90	4.90	-	-			
Chromium(VI), Unfiltered	$\mathrm{mg/L}$	all sites	-	-	-	<	<	<	-	-			
Cobalt, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-			
Copper, Unfiltered	ug/L	all sites	-	-	-	0.90	1.45	7.20	-	-			
Iron, Unfiltered	ug/L	all sites	-	-	-	236.00	953.00	6700.00	-	-			
Lead, Unfiltered	ug/L	all sites	-	-	-	0.10	0.55	3.60	-	-			
Lithium, Unfiltered	ug/L	all sites	-	-	-	3.00	3.85	8.00	-	-			
Manganese, Unfiltered	ug/L	all sites	-	-	-	6.70	21.10	162.00	-	-			
Mercury, Unfiltered	ng/L	all sites	-	-	-	-	-	-	-	-			
Methylmercury(1+), Unfiltered	ng/L	all sites	-	-	-	-	-	-	-	-			
Molybdenum, Unfiltered	ug/L	all sites	-	-	-	0.10	0.30	0.70	-	-			
Nickel, Unfiltered	ug/L	all sites	-	-	-	0.60	1.50	8.70	-	-			
Rubidium, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-			
Selenium, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	<	<	<	-	-			
Silver, Unfiltered	ug/L	all sites	-	-	-	<	<	<	-	-			
Strontium, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-			
Thallium, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-			
Tin, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-			
Titanium, Unfiltered	$\mathrm{ug/L}$	all sites	-	-	-	-	-	-	-	-			
Uranium, Unfiltered	ug/L	all sites	-	-	-	-	-	-	-	-			
Vanadium, Unfiltered	ug/L	all sites	-	-	-	0.50	1.90	9.20	-	-			
Zinc, Unfiltered	ug/L	all sites	-	-	-	1.02	4.05	20.70	-	-			