

Martin Haefele

From: Patrick Duxbury
Sent: May 3, 2005 4:39 PM
To: Martin Haefele
Subject: FW: Water Quality Data For Prairie Creek

Follow Up Flag: Follow up
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-----Original Message-----

From: Paula Spencer [mailto:spencerp@inac-ainc.gc.ca]
Sent: Tuesday, May 03, 2005 2:52 PM
To: Patrick Duxbury
Cc: Shane Hayes; Troy Searson
Subject: Water Quality Data For Prairie Creek

Hi Patrick,
Further to your request for data from our sampling at Prairie Creek, I am attaching a spreadsheet with results from 3 sampling events in 2004. The data includes upstream and downstream Prairie Creek for the parameters relevant to Canadian Zinc's drilling program amendment. Thank you.

Paula Spencer
Water Resources Officer
South Mackenzie District
Indian and Northern Affairs Canada
Yellowknife, NWT
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Prairie Creek 2004 Water Samples

June 8, 2004

Client Sample ID	Dissolved Metals															
	Aluminum	Antimony	Barium	Beryllium	Cadmium	Cesium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	Manganese	Molybdenum		
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Prairie Creek Upstream	2	0.5	40.5	0.1	0.05	0.1	0.4	0.1	0.6	50	0.1	1.1	0.1	2.9		
Prairie Creek Downstream	1.8	0.5	52.7	0.1	0.05	0.1	0.1	0.1	0.5	50	0.1	1.8	0.2	2.4		

August 24, 2004

Client Sample ID	Physicals				Total Metals										
	Alkalinity	Conductivity	pH	Solids, Total Suspended	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cesium	Chromium	Cobalt	Copper	
	mg/L	µS/cm	pH units	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Prairie Creek Upstream	174	421	8.29	3	30	1	1	63.8	0.1	0.1	0.1	2.6	0.2		
Prairie Creek Downstream	177	434	8.2	4	30	0.4	1	70	0.1	0.1	0.1	4	0.2		

September 15, 2004

Client Sample ID	Dissolved Metals															
	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cesium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	Manganese		
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
Prairie Creek above Big Quartz Creek	1.7	0.2	1	64.9	0.1	0.05	0.1	0.1	0.1	0.5	94	0.1	2.3	0.1		
Prairie Creek above Galena	0.6	0.2	1	63.4	0.1	0.05	0.1	0.3	0.1	0.4	93	0.1	2.1	0.1		
Prairie Creek between Airstrip and Mine	3.6	0.2	1	62.5	0.1	0.05	0.1	0.1	0.1	0.3	105	0.1	2.8	0.1		
Prairie Creek between Harrison and Galena	0.6	0.2	1	62.1	0.1	0.05	0.1	0.7	0.1	0.4	90	0.1	2.1	0.2		
Prairie Creek upstream @ Fork	16.5	0.2	1	66.3	0.1	0.05	0.1	0.1	0.1	0.4	98	0.1	1.7	1.4		

Notes:

< denotes a value measured below the Maximum Detection Limits of the laboratory.

* dissolved metals for August 24, 2004 were not measured at the laboratory.

Prairie Creek was sampled for water quality analysis on three separate spatial periods in 2004. Samples were collected on June 8, 2004, approximately 2 weeks prior to Canadian Zinc's summer drill program, and again on August 24 and September 15, 2004.

											Physicals			Total Metals				
Nickel	Rubidium	Selenium	Silver	Strontium	Thallium	Titanium	Uranium	Vanadium	Zinc	Alkalinity	Conductivity, Specific	pH	Solids, Total Suspended		Aluminum		Antimony	Barium
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µS/cm	pH units	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
1.5	0.1	1.3	0.1	139	0.1	<	0.1	2.34	0.6	5.3	126	290	7.94	3	39		0.2	40.5
1.2	0.2	1.1	0.1	201	0.1	0.1		3.12	0.6	11.1	135	333	8.09	6	37		0.4	50.5

<	Iron	Lead	<	Lithium	Manganese	Molybdenum	Nickel	Rubidium	Selenium	Silver	Strontium	Thallium	Titanium	Uranium	Vanadium	Zinc
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
0.3	50		0.1	1.8	0.2	2.8	1.5	0.2	2	0.1	266	0.1	0.1	3.7	1.7	19
0.3	50		0.1	1.6	0.2	3.1	1.4	0.2	2	0.1	323	0.1	0.1	4.6	2.2	13

												Physicals			Total Metals							
Molybdenum	Nickel	Rubidium	Selenium	Silver	Strontium	Thallium	Titanium	Uranium	Vanadium	Zinc	Alkalinity	Conductivity, Specific	pH	Solids, Total Dissolved		Solids, Total Suspended		Aluminum	Antimony	Arsenic	Barium	Beryllium
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µS/cm	pH units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
3	1.1	0.2	1.1	0.1	283	0.1	0.1	4.1	0.2	9.2	270		3	30	0.3	1	65.3	0.1				
3	1.1	0.1	1.1	0.1	274	0.1	0.1	3.9	0.3	9.7	266	4		30	0.1	1	64.3	0.1				
3.9	2.1	0.2	1.1	0.1	292	0.1	0.1	6.8	0.2	8.2	290		3	30	0.2	1	63.3	0.1				
3	1.2	0.2	1.3	0.1	275	0.1	0.1	3.9	0.4	17.9	264		3	30	0.2	1	64.5	0.1				
3.5	1.2	0.1	1.3	0.1	220	0.1	0.1	4.3	0.2	7.8	256	4		30	0.3	1	66.8	0.1				

Beryllium	Cadmium	Cesium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	Manganese	Molybdenum	Nickel	Rubidium	Selenium	Silver	Strontium	Thallium	Titanium
<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
0.1	0.1	0.1	4.2	0.1	6.9	50	0.7	1.1	0.3	2.9	1.5	0.2	1	0.1	138	0.1	0.4
0.1	0.1	0.1	0.3	0.1	0.7	56	1.8	1.7	0.9	2.4	1.3	0.2	1	0.1	193	0.1	0.5

Cadmium	Cesium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	Manganese	Molybdenum	Nickel	Rubidium	Selenium	Silver	Strontium	Thallium	Titanium	Uranium
<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
0.1	0.1	0.7	0.1	0.8	112	0.1	2.2	0.6	2.9	1.1	0.2	1	0.1	280	0.1	0.3	4.1
0.1	0.1	0.6	0.1	6.3	91	0.3	2.1	0.4	3	1.1	0.2	1	0.1	282	0.1	0.1	3.9
0.1	0.1	0.3	0.1	0.4	101	0.1	2.9	0.1	4	2.1	0.2	1	0.1	296	0.1	0.1	6.8
0.1	0.1	0.3	0.1	3	91	0.1	2.1	0.1	3	1.1	0.2	1	0.1	284	0.1	0.1	4
0.1	0.1	0.3	0.1	0.4	97	0.1	1.6	0.2	3.5	1.2	0.1	1	0.1	220	0.1	0.1	4.1

Uranium	Vanadium	Zinc
$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$
2.4	1.6	19
2.9	0.4	12

Vanadium	Zinc
$\mu\text{g/L}$	$\mu\text{g/L}$
0.4	10
0.4	27
0.2	10
0.3	21
0.2	10