

October 30th, 2005

Chief Administrative Officer
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

RE: Water License NWB1JER0410 Monthly SNP Report – September 2005

General

During the month of September 2005, 10 samples were collected as part of the Surveillance Network Program associated with Water Licence NWB1JER0410. One duplicate sample was collected at station JER-WQ9 and a travel blank was submitted. All required samples were unable to be collected, 5 as a result of ice conditions prohibiting boat access to the lakes, one sample because the stream was dry and JER-SW2 because the pit sump was dry. A summary of water sampling and field measurements is included in Table 2: Sampling Summary.

Results

A) Water Sampling and Analysis Results

1. Table 3: SNP Sampling Results provides the results for samples related to the SNP sampling requirements for the month of September 2005.

B) Flow and Volume Measurements

1. Table 4: Project Site Daily/Monthly Water Volumes-September 2005 (attached), provides a breakdown of flow and volume measurements required under Part K, Item 12 of the water license.
2. Table 5: Project Site Daily/Monthly Production Volumes-September 2005 (attached), provides a breakdown Solid Material moved for the month required under Part K, Item 13 of the water license.

Regards,

Mike Tanguay
HSE Manager

Roland Jones
Mine Manager

Cc: George Taptuna, DIAND Land Use Inspector

Addendum

Table 1: Addendum to Field Results-August 2005 below replaces field measurements for Water Temperature and ORP which were incorrectly reported in the August 2005 monthly report. Temperature values were reported under ORP and ORP values reported under Water Temperature. Please accept the corrected values for inclusion in the August 2005 monthly report.

Table 1: Addendum to Field Results-August 2005

Sample #	Date	Station ID	Sampler	Time	Comments	pH-F	COND-F	ORP-F	WT	AT	WS	WD
						pH	us/cm	mv	Deg C	Deg C	Km/H	Unitless
05-8037	31-Aug-05	JER-WQ1	MT	9:30		6.45	8.05	49.2	7.6	6	13	NW
05-8038	31-Aug-05	JER-WQ2	MT	9:55		6.45	27.7	64.4	7.7	6	13	NW
05-8036	31-Aug-05	JER-SW1	MT	10:15		6.47	5.95	-143.0	18.3	6	13	NW

Table 2: Sampling Summary

Sample #	Date	Station ID	Sample Class	Sampler	Time	Comments	pH	Conductivity	ORP	Water Temperature	Air Temperature	Wind Speed	Wind Direction
							pH	us/cm	mV	Deg C	Deg C	Km/h	
05-9589	24-Sep-05	JER-WQ3		MT	9:27:13		6.86	26	131	0.06	-6	5	N
05-9590	24-Sep-05	JER-WQ5		MT	9:56:02		7.23	13	160	0.76	-6	5	N
05-9595	24-Sep-05	JER-WQ13		MT	14:43:56		7.41	24	208	2.1	-6	5	N
05-9594	24-Sep-05	JER-WQ12		MT	14:59:19		6.58	31	162	1.04	-6	5	N
05-9596	24-Sep-05	JER-WQ14		MT	15:20:25		7.3	20	161	1.94	-6	5	N
05-9591	24-Sep-05	JER-WQ7		MT	15:44:03		7.54	13	170	5.82	-6	5	N
05-9592	24-Sep-05	JER-WQ9		MT	16:55:59		7.25	13	190	2.8	-6	5	N
05-9593	24-Sep-05	JER-WQ9	F1	MT	16:56:09		7.18	13	192	2.78	-6	5	N
05-9597	24-Sep-05	SNPTB		MT	16:56:09	No field measurements							
	24-Sep-05	JER-WQ15		MT		No sample collected, no flow							
	24-Sep-05	JER-WQ11		MT		No sample collected, ice cover prohibited boat use							
	24-Sep-05	JER-WQ10		MT		No sample collected, ice cover prohibited boat use							
	24-Sep-05	JER-WQ4		MT		No sample collected, ice cover prohibited boat use							
	24-Sep-05	JER-WQ6		MT		No sample collected, ice cover prohibited boat use							
	24-Sep-05	JER-WQ8		MT		No sample collected, ice cover prohibited boat use							
05-9986	28-Sep-05	JER-SW1		MT	8:32		7.67	-0.4	-59	24.76	-8	30	SE
05-9988	28-Sep-05	JER-WQ2		MT	8:52		6.77	42.2	44	2.37	-8	30	SE
05-9987	28-Sep-05	JER-WQ1		MT	9:09		6.93	13.7	112	2.41	-8	30	SE
	28-Sep-05	JER-SW2		MT	9:20	No sample collected, sump dry							

Table 3: SNP Sampling Results

JER-SW1

Station Name		STP Effluent	STP Effluent
Collect Date/Time		9/28/2005	9/28/2005
Sample No.		05-9986-D	05-9986
Air Temperature	Deg C		-8
Wind Speed	KM/H		30
Wind Direction	unitless		SE
Water Temperature	Deg C		24.76
Field pH	pH		7.67
Oxidation Reduction Potential	mV		-59
Turbidity	NTU	70	70
Total Suspended Solids @105°C	mg/L	60	61
T-Hardness as CaCO3	mg/L	25.5	25.3
T-Dissolved Solids180°C	mg/L	444	460
T-Alkalinity as CaCO3	mg/L	406	405
Sulphate	mg/L	52.6	52.4
Phosphate - Ortho - Phosphorus	mg/L	10.5	10.6
pH @ 25°C	pH	7.75	7.77
Nitrite - Nitrogen	mg/L	<0.05	<0.05
Nitrate - Nitrogen	mg/L	<0.05	<0.05
Hydroxide (as CaCO3)	mg/L	<1	<1
Fluoride	mg/L	0.07	0.07
Conductivity @ 25°C	us/cm	1120	1110
Chloride	mg/L	46.7	47.8
Carbonate	mg/L	<1	<1
Bicarbonate	mg/L	495	494
Balance (+ions/-ions)	Ratio	0.50	0.50
Carbon (Total Organic)	mg/L	127	123
Ammonia - Nitrogen	mg/L	87.2	83.8
Carbon (Total Inorganic)	mg/L	58	63
Total Iron	mg/L	1.17	1.17
Total Manganese	mg/L	0.05	0.05
Total Zinc	mg/L		0.116
Total Vanadium	mg/L		0.0032
Total Uranium	mg/L		0.00021
Total Thallium	mg/L		<0.00005
Total Strontium	mg/L		0.0262
Total Sodium	mg/L		89.3
Total Silver	mg/L		<0.0002
Total Silicon	mg/L		5.73
Total Selenium	mg/L		0.0011
Total Potassium	mg/L		23.7
Total Phosphorus	mg/L		12
Total Nickel	mg/L		0.0052

JER-SW1

Station Name		STP Effluent	STP Effluent
Collect Date/Time		9/28/2005	9/28/2005
Sample No.		05-9986-D	05-9986
Total Molybdenum	mg/L		0.0015
Total Mercury	mg/L		<0.0001
Total Magnesium	mg/L		3.52
Total Lead	mg/L		0.0032
Total Copper	mg/L		0.0917
Total Cobalt	mg/L		0.0007
Total Chromium	mg/L		0.0125
Total Calcium	mg/L		9.80
Total Cadmium	mg/L		0.0002
Total Boron	mg/L		0.050
Total Beryllium	mg/L		<0.0005
Total Barium	mg/L		0.015
Total Arsenic	mg/L		0.0011
Total Antimony	mg/L		0.0012
Total Aluminum	mg/L		0.170
Dissolved Calcium	mg/L	6.5	6.4
Dissolved Magnesium	mg/L	2.3	2.2
Dissolved Potassium	mg/L	26.2	26.4
Dissolved Sodium	mg/L	93.7	93.5
Total Phosphorus	mg/L	17.6	14.8
Dissolved Zinc	mg/L		0.079
Dissolved Vanadium	mg/L		0.0035
Dissolved Uranium	mg/L		0.00013
Dissolved Thallium	mg/L		<0.00002
Dissolved Strontium	mg/L		0.0275
Dissolved Silver	mg/L		<0.00005
Dissolved Silicon	mg/L		5.42
Dissolved Selenium	mg/L		0.0011
Dissolved Phosphorus	mg/L		13
Dissolved Nickel	mg/L		0.0052
Dissolved Molybdenum	mg/L		0.0008
Dissolved Mercury	mg/L		<0.0001
Dissolved Manganese	mg/L	0.05	0.010
Dissolved Lead	mg/L		0.00157
Dissolved Iron	mg/L	1.17	0.51
Dissolved Copper	mg/L		0.0401
Dissolved Cobalt	mg/L		0.00067
Dissolved Chromium	mg/L		0.0131
Dissolved Cadmium	mg/L		0.00008
Dissolved Boron	mg/L		0.052
Dissolved Beryllium	mg/L		<0.0001
Dissolved Barium	mg/L		0.009
Dissolved Arsenic	mg/L		0.0013
Dissolved Antimony	mg/L		0.0004
Dissolved Aluminum	mg/L		0.034
MF - Fecal Coliforms	CFU/100mL		290000
Biochemical Oxygen Demand	mg/L		95

JER-WQ1

Station Name		Carat Lake Freshwater Intake
Collect Date/Time		9/28/2005
Sample No.		05-9987
Air Temperature	Deg C	-8
Wind Speed	KM/H	30
Wind Direction	unitless	SE
Water Temperature	Deg C	2.41
Field pH	pH	6.93
Oxidation Reduction Potential	mV	112
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
Total Iron	mg/L	0.03
Total Manganese	mg/L	0.002
Total Zinc	mg/L	0.003
Total Vanadium	mg/L	0.0005
Total Uranium	mg/L	0.00013
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0057
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0002
Total Silicon	mg/L	0.18
Total Selenium	mg/L	<0.0008
Total Potassium	mg/L	<0.5
Total Phosphorus	mg/L	<0.050
Total Nickel	mg/L	<0.0006
Total Molybdenum	mg/L	<0.0005
Total Mercury	mg/L	<0.0001
Total Magnesium	mg/L	0.52
Total Lead	mg/L	<0.0001
Total Copper	mg/L	0.0011
Total Cobalt	mg/L	<0.0001
Total Chromium	mg/L	<0.0009
Total Calcium	mg/L	1.19
Total Cadmium	mg/L	<0.0001
Total Boron	mg/L	<0.010
Total Beryllium	mg/L	<0.0005
Total Barium	mg/L	<0.005
Total Arsenic	mg/L	<0.0004
Total Antimony	mg/L	<0.0001
Total Aluminum	mg/L	0.030
Dissolved Calcium	mg/L	0.65
Dissolved Magnesium	mg/L	<0.50
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	<0.5
Dissolved Zinc	mg/L	0.004
Dissolved Vanadium	mg/L	<0.0005
Dissolved Uranium	mg/L	0.00008
Dissolved Thallium	mg/L	<0.00002
Dissolved Strontium	mg/L	0.0054
Dissolved Silver	mg/L	<0.00005

JER-WQ1

Station Name		Carat Lake Freshwater Intake
Collect Date/Time		9/28/2005
Sample No.		05-9987
Dissolved Silicon	mg/L	0.20
Dissolved Selenium	mg/L	<0.0004
Dissolved Phosphorus	mg/L	<0.005
Dissolved Nickel	mg/L	<0.0001
Dissolved Molybdenum	mg/L	<0.0003
Dissolved Mercury	mg/L	<0.0001
Dissolved Manganese	mg/L	<0.001
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.01
Dissolved Copper	mg/L	0.0025
Dissolved Cobalt	mg/L	<0.00005
Dissolved Chromium	mg/L	<0.0004
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.004
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	<0.003
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.005
MF - Fecal Coliforms	CFU/100mL	<1

JER-WQ12

Station Name		Stream C1 Upstream of Carat Lk
Collect Date/Time		9/24/2005
Sample No.		05-9594
Air Temperature	Deg C	-6
Wind Speed	KM/H	5
Wind Direction	unitless	N
Water Temperature	Deg C	1.04
Field pH	pH	6.58
Oxidation Reduction Potential	mV	162
Turbidity	NTU	<1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	10.8
T-Dissolved Solids180°C	mg/L	<10
T-Alkalinity as CaCO3	mg/L	9
Sulphate	mg/L	<0.5
Phosphate - Ortho - Phosphorus	mg/L	<0.20
pH @ 25°C	pH	6.94
Nitrite - Nitrogen	mg/L	<0.05
Nitrate - Nitrogen	mg/L	0.44
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.03
Conductivity @ 25°C	us/cm	30
Chloride	mg/L	1.8
Carbonate	mg/L	<1
Bicarbonate	mg/L	11
Balance (+ions/-ions)	Ratio	0.90
Acidity as CaCO3	mg/L	6
Carbon (Total Organic)	mg/L	2
Ammonia - Nitrogen	mg/L	<0.1
Carbon (Total Inorganic)	mg/L	3
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.006
Total Vanadium	mg/L	0.0004
Total Uranium	mg/L	0.00011
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0127
Total Sodium	mg/L	0.9
Total Silver	mg/L	<0.0002
Total Silicon	mg/L	1.35
Total Selenium	mg/L	<0.0008
Total Potassium	mg/L	<0.5
Total Phosphorus	mg/L	<0.050
Total Nickel	mg/L	<0.0006
Total Molybdenum	mg/L	<0.0005
Total Mercury	mg/L	<0.0001

JER-WQ12

Station Name		Stream C1 Upstream of Carat Lk
Collect Date/Time		9/24/2005
Sample No.		05-9594
Total Magnesium	mg/L	1.21
Total Lead	mg/L	0.0004
Total Copper	mg/L	0.0022
Total Cobalt	mg/L	<0.0001
Total Chromium	mg/L	0.0019
Total Calcium	mg/L	3.02
Total Cadmium	mg/L	<0.0001
Total Boron	mg/L	<0.010
Total Beryllium	mg/L	<0.0005
Total Barium	mg/L	0.006
Total Arsenic	mg/L	<0.0004
Total Antimony	mg/L	<0.0001
Total Aluminum	mg/L	0.033
Dissolved Calcium	mg/L	3.0
Dissolved Magnesium	mg/L	0.8
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	0.7
Total Phosphorus	mg/L	<0.02
Dissolved Zinc	mg/L	<0.002
Dissolved Vanadium	mg/L	<0.0005
Dissolved Uranium	mg/L	0.00015
Dissolved Thallium	mg/L	<0.00002
Dissolved Strontium	mg/L	0.0132
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	1.32
Dissolved Selenium	mg/L	<0.0004
Dissolved Phosphorus	mg/L	<0.005
Dissolved Nickel	mg/L	<0.0001
Dissolved Molybdenum	mg/L	<0.0003
Dissolved Mercury	mg/L	<0.0001
Dissolved Manganese	mg/L	0.007
Dissolved Lead	mg/L	0.00056
Dissolved Iron	mg/L	<0.01
Dissolved Copper	mg/L	0.0061
Dissolved Cobalt	mg/L	<0.00005
Dissolved Chromium	mg/L	0.0013
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.004
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.006
Dissolved Arsenic	mg/L	<0.0001
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.022

JER-WQ13

Station Name		Lake C1
Collect Date/Time		9/24/2005
Sample No.		05-9595
Air Temperature	Deg C	-6
Wind Speed	KM/H	5
Wind Direction	unitless	N
Water Temperature	Deg C	2.1
Field pH	pH	7.41
Oxidation Reduction Potential	mV	208
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	8.3
T-Dissolved Solids180°C	mg/L	16
T-Alkalinity as CaCO3	mg/L	8
Sulphate	mg/L	<0.5
Phosphate - Ortho - Phosphorus	mg/L	<0.20
pH @ 25°C	pH	7.09
Nitrite - Nitrogen	mg/L	<0.05
Nitrate - Nitrogen	mg/L	0.28
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.03
Conductivity @ 25°C	us/cm	23
Chloride	mg/L	1.2
Carbonate	mg/L	<1
Bicarbonate	mg/L	10
Balance (+ions/-ions)	Ratio	0.90
Acidity as CaCO3	mg/L	1
Carbon (Total Organic)	mg/L	4
Ammonia - Nitrogen	mg/L	<0.1
Carbon (Total Inorganic)	mg/L	2
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.004
Total Vanadium	mg/L	0.0005
Total Uranium	mg/L	0.00050
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0062
Total Sodium	mg/L	0.9
Total Silver	mg/L	<0.0002
Total Silicon	mg/L	0.74
Total Selenium	mg/L	<0.0008
Total Potassium	mg/L	<0.5
Total Phosphorus	mg/L	<0.050
Total Nickel	mg/L	<0.0006
Total Molybdenum	mg/L	<0.0005
Total Mercury	mg/L	<0.0001
Total Magnesium	mg/L	1.08
Total Lead	mg/L	<0.0001
Total Copper	mg/L	0.0012

JER-WQ13

Station Name		Lake C1
Collect Date/Time		9/24/2005
Sample No.		05-9595
Total Cobalt	mg/L	<0.0001
Total Chromium	mg/L	0.0027
Total Calcium	mg/L	2.26
Total Cadmium	mg/L	<0.0001
Total Boron	mg/L	<0.010
Total Beryllium	mg/L	<0.0005
Total Barium	mg/L	<0.005
Total Arsenic	mg/L	<0.0004
Total Antimony	mg/L	<0.0001
Total Aluminum	mg/L	0.033
Dissolved Calcium	mg/L	2.3
Dissolved Magnesium	mg/L	0.6
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	0.6
Total Phosphorus	mg/L	<0.02
Dissolved Zinc	mg/L	<0.002
Dissolved Vanadium	mg/L	<0.0005
Dissolved Uranium	mg/L	0.00049
Dissolved Thallium	mg/L	<0.00002
Dissolved Strontium	mg/L	0.0072
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.72
Dissolved Selenium	mg/L	<0.0004
Dissolved Phosphorus	mg/L	<0.005
Dissolved Nickel	mg/L	<0.0001
Dissolved Molybdenum	mg/L	<0.0003
Dissolved Mercury	mg/L	<0.0001
Dissolved Manganese	mg/L	<0.001
Dissolved Lead	mg/L	0.00050
Dissolved Iron	mg/L	<0.01
Dissolved Copper	mg/L	0.0059
Dissolved Cobalt	mg/L	<0.00005
Dissolved Chromium	mg/L	0.0005
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.004
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	<0.003
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.017

JER-WQ14

Station Name		Lake C4
Collect Date/Time		9/24/2005
Sample No.		05-9596
Air Temperature	Deg C	-6
Wind Speed	KM/H	5
Wind Direction	unitless	N
Water Temperature	Deg C	1.94
Field pH	pH	7.3
Oxidation Reduction Potential	mV	161
Turbidity	NTU	2
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	7.3
T-Dissolved Solids180°C	mg/L	12
T-Alkalinity as CaCO3	mg/L	10
Sulphate	mg/L	0.7
Phosphate - Ortho - Phosphorus	mg/L	<0.20
pH @ 25°C	pH	7.20
Nitrite - Nitrogen	mg/L	<0.05
Nitrate - Nitrogen	mg/L	<0.05
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.03
Conductivity @ 25°C	us/cm	20
Chloride	mg/L	0.3
Carbonate	mg/L	<1
Bicarbonate	mg/L	12
Balance (+ions/-ions)	Ratio	0.81
Acidity as CaCO3	mg/L	2
Carbon (Total Organic)	mg/L	5
Ammonia - Nitrogen	mg/L	<0.1
Carbon (Total Inorganic)	mg/L	2
Total Iron	mg/L	0.21
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.004
Total Vanadium	mg/L	0.0007
Total Uranium	mg/L	0.00009
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0047
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0002
Total Silicon	mg/L	0.36
Total Selenium	mg/L	<0.0008
Total Potassium	mg/L	<0.5
Total Phosphorus	mg/L	0.066
Total Nickel	mg/L	<0.0006
Total Molybdenum	mg/L	<0.0005
Total Mercury	mg/L	<0.0001
Total Magnesium	mg/L	0.78
Total Lead	mg/L	0.0006
Total Copper	mg/L	0.0018

JER-WQ14

Station Name		Lake C4
Collect Date/Time		9/24/2005
Sample No.		05-9596
Total Cobalt	mg/L	<0.0001
Total Chromium	mg/L	0.0036
Total Calcium	mg/L	2.14
Total Cadmium	mg/L	<0.0001
Total Boron	mg/L	<0.010
Total Beryllium	mg/L	<0.0005
Total Barium	mg/L	<0.005
Total Arsenic	mg/L	<0.0004
Total Antimony	mg/L	<0.0001
Total Aluminum	mg/L	0.034
Dissolved Calcium	mg/L	2.3
Dissolved Magnesium	mg/L	<0.5
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	0.6
Total Phosphorus	mg/L	<0.02
Dissolved Zinc	mg/L	<0.002
Dissolved Vanadium	mg/L	<0.0005
Dissolved Uranium	mg/L	0.00014
Dissolved Thallium	mg/L	<0.00002
Dissolved Strontium	mg/L	0.0065
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.36
Dissolved Selenium	mg/L	<0.0004
Dissolved Phosphorus	mg/L	<0.005
Dissolved Nickel	mg/L	<0.0001
Dissolved Molybdenum	mg/L	<0.0003
Dissolved Mercury	mg/L	<0.0001
Dissolved Manganese	mg/L	<0.001
Dissolved Lead	mg/L	0.00026
Dissolved Iron	mg/L	<0.01
Dissolved Copper	mg/L	0.0041
Dissolved Cobalt	mg/L	<0.00005
Dissolved Chromium	mg/L	0.0009
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.004
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	<0.003
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.012

JER-WQ2

Station Name		PKCA Discharge	
Collect Date/Time		9/28/2005	PKCA Discharge
Sample No.		05-9988	Criteria
Air Temperature	Deg C	-8	
Wind Speed	KM/H	30	
Wind Direction	unitless	SE	
Water Temperature	Deg C	2.37	
Field pH	pH	6.77	
Oxidation Reduction Potential	mV	44	
Turbidity	NTU	2	
Total Suspended Solids @105°C	mg/L	<2	25
T-Hardness as CaCO3	mg/L	<0.1	
T-Dissolved Solids180°C	mg/L	24	4000
T-Alkalinity as CaCO3	mg/L	11	
Sulphate	mg/L	1.3	
Phosphate - Ortho - Phosphorus	mg/L	<0.20	
pH @ 25°C	pH	7.27	6.0-8.8
Nitrite - Nitrogen	mg/L	<0.05	5
Nitrate - Nitrogen	mg/L	0.60	56
Hydroxide (as CaCO3)	mg/L	<1	
Fluoride	mg/L	0.05	
Conductivity @ 25°C	us/cm	36	
Chloride	mg/L	1.7	1000
Carbonate	mg/L	<1	
Bicarbonate	mg/L	14	
Balance (+ions/-ions)	Ratio	0.58	
Acidity as CaCO3	mg/L	3	
Carbon (Total Organic)	mg/L	5	
Ammonia - Nitrogen	mg/L	<0.1	12
Carbon (Total Inorganic)	mg/L	2	
Total Iron	mg/L	<0.10	
Total Manganese	mg/L	<0.01	
Total Zinc	mg/L	0.006	0.5
Total Vanadium	mg/L	0.0005	
Total Uranium	mg/L	0.00033	1
Total Thallium	mg/L	<0.00005	
Total Strontium	mg/L	0.0069	
Total Sodium	mg/L	1.5	
Total Silver	mg/L	<0.0002	
Total Silicon	mg/L	0.22	
Total Selenium	mg/L	<0.0008	
Total Potassium	mg/L	<0.5	
Total Phosphorus	mg/L	<0.050	0.4
Total Nickel	mg/L	<0.0006	0.1
Total Molybdenum	mg/L	<0.0005	1.5
Total Mercury	mg/L	<0.0001	

JER-WQ2

Station Name		PKCA Discharge	
Collect Date/Time		9/28/2005	PKCA Discharge
Sample No.		05-9988	Criteria
Total Magnesium	mg/L	1.11	
Total Lead	mg/L	<0.0001	0.02
Total Copper	mg/L	0.0018	0.04
Total Cobalt	mg/L	<0.0001	
Total Chromium	mg/L	<0.0009	0.17
Total Calcium	mg/L	2.63	
Total Cadmium	mg/L	<0.0001	0.0024
Total Boron	mg/L	<0.010	
Total Beryllium	mg/L	<0.0005	
Total Barium	mg/L	<0.005	
Total Arsenic	mg/L	<0.0004	0.1
Total Antimony	mg/L	<0.0001	
Total Aluminum	mg/L	0.012	3
Dissolved Calcium	mg/L	1.7	
Dissolved Magnesium	mg/L	<0.5	
Dissolved Potassium	mg/L	<0.5	
Dissolved Sodium	mg/L	1.7	
Total Phosphorus	mg/L	0.02	
Dissolved Zinc	mg/L	0.004	
Dissolved Vanadium	mg/L	<0.0005	
Dissolved Uranium	mg/L	0.00016	
Dissolved Thallium	mg/L	<0.00002	
Dissolved Strontium	mg/L	0.0079	
Dissolved Silver	mg/L	<0.00005	
Dissolved Silicon	mg/L	0.20	
Dissolved Selenium	mg/L	<0.0004	
Dissolved Phosphorus	mg/L	<0.005	
Dissolved Nickel	mg/L	0.0011	
Dissolved Molybdenum	mg/L	<0.0003	
Dissolved Mercury	mg/L	<0.0001	
Dissolved Manganese	mg/L	<0.001	
Dissolved Lead	mg/L	<0.00005	
Dissolved Iron	mg/L	<0.01	
Dissolved Copper	mg/L	0.0043	
Dissolved Cobalt	mg/L	<0.00005	
Dissolved Chromium	mg/L	<0.0004	
Dissolved Cadmium	mg/L	<0.00005	
Dissolved Boron	mg/L	<0.004	
Dissolved Beryllium	mg/L	<0.0001	
Dissolved Barium	mg/L	<0.003	
Dissolved Arsenic	mg/L	0.0003	
Dissolved Antimony	mg/L	<0.0001	
Dissolved Aluminum	mg/L	0.006	2
MF - Fecal Coliforms	CFU/100mL	<1	20
Biochemical Oxygen Demand	mg/L	<2	25

JER-WQ3

Station Name		Stream C3 Upstream of Lake C3	Stream C3 Upstream of Lake C3
Collect Date/Time		9/24/2005	9/24/2005
Sample No.		05-9589-D	05-9589
Air Temperature	Deg C		-6
Wind Speed	KM/H		5
Wind Direction	unitless		N
Water Temperature	Deg C		0.06
Field pH	pH		6.86
Oxidation Reduction Potential	mV		131
Turbidity	NTU	2	2
Total Suspended Solids @105°C	mg/L		2
T-Hardness as CaCO3	mg/L	6.7	6.9
T-Dissolved Solids180°C	mg/L	12	12
T-Alkalinity as CaCO3	mg/L	8	9
Sulphate	mg/L	1	1.0
Phosphate - Ortho - Phosphorus	mg/L	<0.20	<0.20
pH @ 25°C	pH	7.11	7.10
Nitrite - Nitrogen	mg/L	<0.05	<0.05
Nitrate - Nitrogen	mg/L	0.12	0.12
Hydroxide (as CaCO3)	mg/L	<1	<1
Fluoride	mg/L	0.04	0.05
Conductivity @ 25°C	us/cm	24	25
Chloride	mg/L	1.7	1.7
Carbonate	mg/L	<1	<1
Bicarbonate	mg/L	10	11
Balance (+ions/-ions)	Ratio	0.79	0.77
Acidity as CaCO3	mg/L	1	1
Carbon (Total Organic)	mg/L	4	3
Ammonia - Nitrogen	mg/L	<0.1	<0.1
Carbon (Total Inorganic)	mg/L	1	2
Total Iron	mg/L	<0.10	<0.10
Total Manganese	mg/L	<0.01	<0.01
Total Zinc	mg/L	0.007	0.008
Total Vanadium	mg/L	0.0004	0.0005
Total Uranium	mg/L	<0.00005	<0.00005
Total Thallium	mg/L	<0.00005	<0.00005
Total Strontium	mg/L	0.0052	0.0054
Total Sodium	mg/L	1.3	1.3
Total Silver	mg/L	<0.0002	<0.0002
Total Silicon	mg/L	0.69	0.73
Total Selenium	mg/L	<0.0008	<0.0008
Total Potassium	mg/L	<0.5	<0.5
Total Phosphorus	mg/L	<0.050	<0.050
Total Nickel	mg/L	<0.0006	<0.0006
Total Molybdenum	mg/L	<0.0005	<0.0005
Total Mercury	mg/L	<0.0001	<0.0001

JER-WQ3

Station Name		Stream C3 Upstream of Lake C3	Stream C3 Upstream of Lake C3
Collect Date/Time		9/24/2005	9/24/2005
Sample No.		05-9589-D	05-9589
Total Magnesium	mg/L	0.95	0.98
Total Lead	mg/L	<0.0001	<0.0001
Total Copper	mg/L	0.0014	0.0016
Total Cobalt	mg/L	<0.0001	<0.0001
Total Chromium	mg/L	0.0025	0.0029
Total Calcium	mg/L	1.90	2
Total Cadmium	mg/L	<0.0001	<0.0001
Total Boron	mg/L	<0.010	<0.010
Total Beryllium	mg/L	<0.0005	<0.0005
Total Barium	mg/L	<0.005	<0.005
Total Arsenic	mg/L	0.0005	0.0005
Total Antimony	mg/L	<0.0001	<0.0001
Total Aluminum	mg/L	0.051	0.050
Dissolved Calcium	mg/L	1.9	2.0
Dissolved Magnesium	mg/L	<0.5	<0.5
Dissolved Potassium	mg/L	<0.5	<0.5
Dissolved Sodium	mg/L	1.3	1.3
Total Phosphorus	mg/L	<0.02	<0.02
Dissolved Zinc	mg/L	<0.002	<0.002
Dissolved Vanadium	mg/L	<0.0005	<0.0005
Dissolved Uranium	mg/L	<0.00005	0.00005
Dissolved Thallium	mg/L	<0.00002	<0.00002
Dissolved Strontium	mg/L	0.0067	0.0068
Dissolved Silver	mg/L	<0.00005	<0.00005
Dissolved Silicon	mg/L	0.70	0.63
Dissolved Selenium	mg/L	<0.0004	<0.0004
Dissolved Phosphorus	mg/L	<0.005	<0.005
Dissolved Nickel	mg/L	<0.0001	<0.0001
Dissolved Molybdenum	mg/L	<0.0003	<0.0003
Dissolved Mercury	mg/L	<0.0001	<0.0001
Dissolved Manganese	mg/L	<0.001	<0.001
Dissolved Lead	mg/L	<0.00005	<0.00005
Dissolved Iron	mg/L	<0.01	<0.01
Dissolved Copper	mg/L	0.0040	0.0040
Dissolved Cobalt	mg/L	<0.00005	<0.00005
Dissolved Chromium	mg/L	0.0010	0.0011
Dissolved Cadmium	mg/L	<0.00005	<0.00005
Dissolved Boron	mg/L	<0.004	<0.004
Dissolved Beryllium	mg/L	<0.0001	<0.0001
Dissolved Barium	mg/L	0.004	0.004
Dissolved Arsenic	mg/L	0.0002	0.0001
Dissolved Antimony	mg/L	<0.0001	<0.0001
Dissolved Aluminum	mg/L	0.017	0.018

JER-WQ5

Station Name		Lake C3 Outlet
Collect Date/Time		9/24/2005
Sample No.		05-9590
Air Temperature	Deg C	-6
Wind Speed	KM/H	5
Wind Direction	unitless	N
Water Temperature	Deg C	0.76
Field pH	pH	7.23
Oxidation Reduction Potential	mV	160
Turbidity	NTU	2
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	<10
T-Alkalinity as CaCO3	mg/L	6
Sulphate	mg/L	1.6
Phosphate - Ortho - Phosphorus	mg/L	<0.20
pH @ 25°C	pH	6.94
Nitrite - Nitrogen	mg/L	<0.05
Nitrate - Nitrogen	mg/L	<0.05
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.04
Conductivity @ 25°C	us/cm	12
Chloride	mg/L	0.3
Carbonate	mg/L	<1
Bicarbonate	mg/L	7
Balance (+ions/-ions)	Ratio	0.53
Acidity as CaCO3	mg/L	2
Carbon (Total Organic)	mg/L	2
Ammonia - Nitrogen	mg/L	<0.1
Carbon (Total Inorganic)	mg/L	2
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.005
Total Vanadium	mg/L	0.0004
Total Uranium	mg/L	<0.00005
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0039
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0002
Total Silicon	mg/L	0.25
Total Selenium	mg/L	<0.0008
Total Potassium	mg/L	<0.5
Total Phosphorus	mg/L	<0.050
Total Nickel	mg/L	<0.0006
Total Molybdenum	mg/L	<0.0005
Total Mercury	mg/L	<0.0001
Total Magnesium	mg/L	0.50
Total Lead	mg/L	0.0001
Total Copper	mg/L	<0.0010

JER-WQ5

Station Name		Lake C3 Outlet
Collect Date/Time		9/24/2005
Sample No.		05-9590
Total Cobalt	mg/L	<0.0001
Total Chromium	mg/L	0.0021
Total Calcium	mg/L	1.14
Total Cadmium	mg/L	<0.0001
Total Boron	mg/L	<0.010
Total Beryllium	mg/L	<0.0005
Total Barium	mg/L	<0.005
Total Arsenic	mg/L	<0.0004
Total Antimony	mg/L	<0.0001
Total Aluminum	mg/L	0.108
Dissolved Calcium	mg/L	1.2
Dissolved Magnesium	mg/L	<0.5
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	<0.5
Total Phosphorus	mg/L	<0.02
Dissolved Zinc	mg/L	<0.002
Dissolved Vanadium	mg/L	<0.0005
Dissolved Uranium	mg/L	0.00008
Dissolved Thallium	mg/L	<0.00002
Dissolved Strontium	mg/L	0.0053
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.23
Dissolved Selenium	mg/L	<0.0004
Dissolved Phosphorus	mg/L	<0.005
Dissolved Nickel	mg/L	<0.0001
Dissolved Molybdenum	mg/L	<0.0003
Dissolved Mercury	mg/L	<0.0001
Dissolved Manganese	mg/L	<0.001
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.01
Dissolved Copper	mg/L	0.0046
Dissolved Cobalt	mg/L	<0.00005
Dissolved Chromium	mg/L	0.0006
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.004
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	<0.003
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.004

JER-WQ7

Station Name		Carat Lake Outlet
Collect Date/Time		9/24/2005
Sample No.		05-9591
Air Temperature	Deg C	-6
Wind Speed	KM/H	5
Wind Direction	unitless	N
Water Temperature	Deg C	5.82
Field pH	pH	7.54
Oxidation Reduction Potential	mV	170
Turbidity	NTU	2
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	68
T-Alkalinity as CaCO3	mg/L	6
Sulphate	mg/L	1.7
Phosphate - Ortho - Phosphorus	mg/L	<0.20
pH @ 25°C	pH	6.94
Nitrite - Nitrogen	mg/L	<0.05
Nitrate - Nitrogen	mg/L	<0.05
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.04
Conductivity @ 25°C	us/cm	12
Chloride	mg/L	0.3
Carbonate	mg/L	<1
Bicarbonate	mg/L	7
Balance (+ions/-ions)	Ratio	0.51
Acidity as CaCO3	mg/L	1
Carbon (Total Organic)	mg/L	2
Ammonia - Nitrogen	mg/L	<0.1
Carbon (Total Inorganic)	mg/L	2
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	<0.002
Total Vanadium	mg/L	0.0006
Total Uranium	mg/L	<0.00005
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0040
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0002
Total Silicon	mg/L	0.19
Total Selenium	mg/L	<0.0008
Total Potassium	mg/L	<0.5
Total Phosphorus	mg/L	<0.050
Total Nickel	mg/L	<0.0006
Total Molybdenum	mg/L	<0.0005
Total Mercury	mg/L	<0.0001
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	<0.0001

JER-WQ7

Station Name		Carat Lake Outlet
Collect Date/Time		9/24/2005
Sample No.		05-9591
Total Copper	mg/L	<0.0010
Total Cobalt	mg/L	<0.0001
Total Chromium	mg/L	0.0025
Total Calcium	mg/L	1.13
Total Cadmium	mg/L	<0.0001
Total Boron	mg/L	<0.010
Total Beryllium	mg/L	<0.0005
Total Barium	mg/L	<0.005
Total Arsenic	mg/L	<0.0004
Total Antimony	mg/L	<0.0001
Total Aluminum	mg/L	0.018
Dissolved Calcium	mg/L	1.2
Dissolved Magnesium	mg/L	<0.5
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	<0.5
Total Phosphorus	mg/L	<0.02
Dissolved Zinc	mg/L	<0.002
Dissolved Vanadium	mg/L	<0.0005
Dissolved Uranium	mg/L	0.00008
Dissolved Thallium	mg/L	<0.00002
Dissolved Strontium	mg/L	0.0054
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.16
Dissolved Selenium	mg/L	<0.0004
Dissolved Phosphorus	mg/L	<0.005
Dissolved Nickel	mg/L	<0.0001
Dissolved Molybdenum	mg/L	<0.0003
Dissolved Mercury	mg/L	<0.0001
Dissolved Manganese	mg/L	<0.001
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.01
Dissolved Copper	mg/L	0.0049
Dissolved Cobalt	mg/L	<0.00005
Dissolved Chromium	mg/L	0.0004
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.004
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	<0.003
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.007

JER-WQ9

Station Name		Jericho River Downstream	Jericho River Downstream
Collect Date/Time		9/24/2005	9/24/2005
Sample No.		05-9592	05-9593
Air Temperature	Deg C	-6	-6
Wind Speed	KM/H	5	5
Wind Direction	unitless	N	N
Water Temperature	Deg C	2.8	2.78
Field pH	pH	7.25	7.18
Oxidation Reduction Potential	mV	190	192
Turbidity	NTU	1	2
Total Suspended Solids @105°C	mg/L	<2	2
T-Hardness as CaCO3	mg/L	<6	<6
T-Dissolved Solids180°C	mg/L	<10	16
T-Alkalinity as CaCO3	mg/L	6	5
Sulphate	mg/L	<0.5	0.8
Phosphate - Ortho - Phosphorus	mg/L	<0.20	<0.20
pH @ 25°C	pH	6.93	6.91
Nitrite - Nitrogen	mg/L	<0.05	0.06
Nitrate - Nitrogen	mg/L	<0.05	<0.05
Hydroxide (as CaCO3)	mg/L	<1	<1
Fluoride	mg/L	0.03	0.03
Conductivity @ 25°C	us/cm	13	13
Chloride	mg/L	0.2	0.3
Carbonate	mg/L	<1	<1
Bicarbonate	mg/L	7	7
Balance (+ions/-ions)	Ratio	0.65	0.62
Acidity as CaCO3	mg/L	1	1
Carbon (Total Organic)	mg/L	2	2
Ammonia - Nitrogen	mg/L	<0.1	<0.1
Carbon (Total Inorganic)	mg/L	1	2
Total Iron	mg/L	<0.10	0.10
Total Manganese	mg/L	<0.01	<0.01
Total Zinc	mg/L	0.008	0.006
Total Vanadium	mg/L	0.0005	0.0005
Total Uranium	mg/L	<0.00005	<0.00005
Total Thallium	mg/L	<0.00005	<0.00005
Total Strontium	mg/L	0.0043	0.0043
Total Sodium	mg/L	<0.5	<0.5
Total Silver	mg/L	<0.0002	<0.0002
Total Silicon	mg/L	0.19	0.19
Total Selenium	mg/L	<0.0008	<0.0008
Total Potassium	mg/L	<0.5	<0.5
Total Phosphorus	mg/L	<0.050	<0.050
Total Nickel	mg/L	<0.0006	<0.0006
Total Molybdenum	mg/L	<0.0005	<0.0005
Total Mercury	mg/L	<0.0001	<0.0001
Total Magnesium	mg/L	0.52	0.54

JER-WQ9

Station Name		Jericho River Downstream	Jericho River Downstream
Collect Date/Time		9/24/2005	9/24/2005
Sample No.		05-9592	05-9593
Total Lead	mg/L	0.0001	0.0002
Total Copper	mg/L	0.0013	0.0012
Total Cobalt	mg/L	<0.0001	<0.0001
Total Chromium	mg/L	0.0028	0.0026
Total Calcium	mg/L	1.20	1.36
Total Cadmium	mg/L	<0.0001	<0.0001
Total Boron	mg/L	<0.010	<0.010
Total Beryllium	mg/L	<0.0005	<0.0005
Total Barium	mg/L	<0.005	<0.005
Total Arsenic	mg/L	<0.0004	<0.0004
Total Antimony	mg/L	<0.0001	0.0014
Total Aluminum	mg/L	0.033	0.033
Dissolved Calcium	mg/L	1.2	1.2
Dissolved Magnesium	mg/L	<0.5	<0.5
Dissolved Potassium	mg/L	<0.5	<0.5
Dissolved Sodium	mg/L	0.5	<0.5
Total Phosphorus	mg/L	<0.02	<0.02
Dissolved Zinc	mg/L	<0.002	<0.002
Dissolved Vanadium	mg/L	<0.0005	<0.0005
Dissolved Uranium	mg/L	0.00008	0.00007
Dissolved Thallium	mg/L	<0.00002	<0.00002
Dissolved Strontium	mg/L	0.0053	0.0053
Dissolved Silver	mg/L	<0.00005	<0.00005
Dissolved Silicon	mg/L	0.15	0.15
Dissolved Selenium	mg/L	<0.0004	<0.0004
Dissolved Phosphorus	mg/L	<0.005	<0.005
Dissolved Nickel	mg/L	<0.0001	<0.0001
Dissolved Molybdenum	mg/L	<0.0003	<0.0003
Dissolved Mercury	mg/L	<0.0001	<0.0001
Dissolved Manganese	mg/L	<0.001	<0.001
Dissolved Lead	mg/L	<0.00005	<0.00005
Dissolved Iron	mg/L	<0.01	<0.01
Dissolved Copper	mg/L	0.0040	0.0041
Dissolved Cobalt	mg/L	<0.00005	<0.00005
Dissolved Chromium	mg/L	0.0005	0.0004
Dissolved Cadmium	mg/L	<0.00005	<0.00005
Dissolved Boron	mg/L	<0.004	<0.004
Dissolved Beryllium	mg/L	<0.0001	<0.0001
Dissolved Barium	mg/L	<0.003	<0.003
Dissolved Arsenic	mg/L	0.0001	0.0002
Dissolved Antimony	mg/L	<0.0001	<0.0001
Dissolved Aluminum	mg/L	0.009	0.005

SNPTB

Station Name		SNPTB
Collect Date/Time		9/24/2005
Sample No.		05-9597
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	
Field pH	pH	
Oxidation Reduction Potential	mV	
Turbidity	NTU	<1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	<10
T-Alkalinity as CaCO3	mg/L	2
Sulphate	mg/L	0.9
Phosphate - Ortho - Phosphorus	mg/L	<0.20
pH @ 25°C	pH	6.27
Nitrite - Nitrogen	mg/L	<0.05
Nitrate - Nitrogen	mg/L	<0.05
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	<0.02
Conductivity @ 25°C	us/cm	<1
Chloride	mg/L	<0.1
Carbonate	mg/L	<1
Bicarbonate	mg/L	3
Balance (+ions/-ions)	Ratio	0.26
Acidity as CaCO3	mg/L	<1
Carbon (Total Organic)	mg/L	<1
Ammonia - Nitrogen	mg/L	<0.1
Carbon (Total Inorganic)	mg/L	<1
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	<0.002
Total Vanadium	mg/L	<0.0001
Total Uranium	mg/L	<0.00005
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	<0.0002
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0002
Total Silicon	mg/L	<0.01
Total Selenium	mg/L	<0.0008
Total Potassium	mg/L	<0.5
Total Phosphorus	mg/L	<0.050
Total Nickel	mg/L	<0.0006
Total Molybdenum	mg/L	<0.0005
Total Mercury	mg/L	<0.0001
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	<0.0001
Total Copper	mg/L	<0.0010
Total Cobalt	mg/L	<0.0001

SNPTB

Station Name		SNPTB
Collect Date/Time		9/24/2005
Sample No.		05-9597
Total Chromium	mg/L	<0.0009
Total Calcium	mg/L	<0.20
Total Cadmium	mg/L	<0.0001
Total Boron	mg/L	<0.010
Total Beryllium	mg/L	<0.0005
Total Barium	mg/L	<0.005
Total Arsenic	mg/L	<0.0004
Total Antimony	mg/L	<0.0001
Total Aluminum	mg/L	<0.005
Dissolved Calcium	mg/L	<0.5
Dissolved Magnesium	mg/L	<0.5
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	<0.5
Total Phosphorus	mg/L	<0.02
Dissolved Zinc	mg/L	<0.002
Dissolved Vanadium	mg/L	<0.0005
Dissolved Uranium	mg/L	<0.00005
Dissolved Thallium	mg/L	<0.00002
Dissolved Strontium	mg/L	<0.0001
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	<0.01
Dissolved Selenium	mg/L	<0.0004
Dissolved Phosphorus	mg/L	<0.005
Dissolved Nickel	mg/L	<0.0001
Dissolved Molybdenum	mg/L	<0.0003
Dissolved Mercury	mg/L	<0.0001
Dissolved Manganese	mg/L	<0.001
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.01
Dissolved Copper	mg/L	<0.0010
Dissolved Cobalt	mg/L	<0.00005
Dissolved Chromium	mg/L	<0.0004
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.004
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	<0.003
Dissolved Arsenic	mg/L	<0.0001
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	<0.002

Table 4: Project Site Daily/Monthly Water Volumes-September 2005

DATE	Carat Lake Freshwater Use (m3) (Camp)	Carat Lake Freshwater Use (m3) (Clark Builders)	Pit Pond Water to East Sump (m3)	Other waters to East Sump (m3)	Other waters from East Sump (m3)	East Sump pond to PKC (Long Lake) (m3)	Sewage Sludge Removed (m3)	Long Lake Dewatering (m3)	Treated Sewage Effluent to PKC (Long Lake) (m3) ¹
1-Sep	25.6	1.7	638.8			None	Monthly	None	26
2-Sep	23.8	3.4	684.2			None		405	26
3-Sep	18.7	5.1	581.4			None		1,769	26
4-Sep	22.1	3.4	459.0			None		1,769	26
5-Sep	22.1	5.1	153.0			None		1,769	26
6-Sep	15.3	1.7	502.5			None		1,769	26
7-Sep	23.8	6.8	654.3			None		1,769	26
8-Sep	20.4	5.1	605.2			None		1,769	26
9-Sep	22.1	11.9	483.9			1208.9		1,769	26
10-Sep	22.1	1.7	545.1			1813.4		1,769	26
11-Sep	23.8	3.4	528.9			1813.4		1,769	26
12-Sep	23.8	5.1	680.0			1208.9		1,769	26
13-Sep	18.7	5.1	409.9			1511.2		1,769	26
14-Sep	25.6	5.1	343.7			2417.8		1,769	26
15-Sep	18.7	6.8	666.4			None		1,769	26
16-Sep	25.6	8.5	280.1			None		1,769	26
17-Sep	23.8	13.6	845.8			None		1,769	26
18-Sep	18.7	3.4	367.2			None		1,769	26
19-Sep	22.1	3.4	304.1			None		1,769	26
20-Sep	22.1	3.4	321.3			None		885	26
21-Sep	17.0	5.1	None			None		848	26
22-Sep	23.8	6.8	None			None		1,769	26
23-Sep	20.4	3.4	None			None		1,769	26
24-Sep	22.1	5.1	None			None		590	16.4
25-Sep	22.1	3.4	None			None		1,179	19.2
26-Sep	22.1	5.1	None			None		1,769	18.4
27-Sep	25.6	1.7	None			None		1,769	29.7
28-Sep	18.7	3.4	None			None		1,769	36.7
29-Sep	25.6	6.8	None			None		1,769	34.5
30-Sep	18.7	8.5	None			None		1,769	28.7
Total	655.8	153.3	10054.9	0	0	9973.6	24.6	46,364	781.6
	809.1								

Notes:
 1. Treated sewage effluent from September 1-23 was estimated based on average flow meter readings taken from September 24 to October 4th. Treated sewage effluent readings from September 24th-30th are actual flow meter readings.

Table 5: Project Site Daily/Monthly Production Volumes-September 2005

Material Quantities			
Material Type	Quantities million (m³)	Metric Ton	Location
Overburden Till	391,142	175,400	Till Dumps
Waste Rock	330,080	122,000	Construction Site
Esker	0	0	Construction Site
Ice			
Kimberlite Ore Processed		n/a	

n/a: No ore processed