

July 28th, 2006

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

RE: Water License NWB1JER0410 Monthly SNP Report – June 2006

Following is monthly report for June 2006 as required under Water Licence NWB1JER0410.

SNP Sampling

During the month of June 2006, water samples were collected at JER-SW1, JER-SW2, JER-SW3, JER-SW4, JER-SW8, JER-WQ1, JER-WQ2, JER-WQ3, JER-WQ4, JER-WQ5, JER-WQ6, JER-WQ7, JER-WQ8, JER-WQ9, JER-WQ10, JER-WQ11, JER-WQ12, JER-WQ13, JER-WQ14 and JER-WQ15. The results for Rainbow Trout acute toxicity testing required under Part G 7 are invalid as there was greater than 10% mortality in the laboratory control sample. The sample could not be reanalyzed as the entire 20L PKCA sample was utilized in the first analysis. A copy of the laboratory report is included in Appendix A.

Results

A) Water Sampling and Analysis Results

1. Table 1 provides the results for samples related to the SNP sampling requirements for the month of June 2006.

B) Flow and Volume Measurements

1. Table 2 provides a breakdown of flow and volume measurements and solid material moved as required under Part K, Item 12 and 13 of the water license. Volumes of treated sewage effluent reporting to the PKC are provided in a calculated value. The flow meter within the Waste Water Treatment Plant is not functioning properly a replacement meter has been ordered.

C) Toxicology Results

Results of the Toxicology results required under Part G 7 can be found in Appendix A

D) Thermistor Readings

Results of the thermistor reading for East and West Dams can be found in Appendix B

Regards,


Mike Tanguay
HSE Manager


Harold Gates
Operations Manager



Table 1 SNP water Quality Results

JER-SW1

Collect Date/Time		6/21/2006
Sample No.	Jun-04	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	21.24
Field pH	pH	7.67
Field Conductivity	us/cm	1057
Oxidation Reduction Potential	mV	-78.80
Biochemical Oxygen Demand	mg/L	76
MF - Fecal Coliforms	CFU/100mL	250000
Turbidity	NTU	44
Total Suspended Solids @105°C	mg/L	49
T-Hardness as CaCO3	mg/L	26.5
T-Dissolved Solids180°C	mg/L	456
T-Alkalinity as CaCO3	mg/L	351
Sulphate	mg/L	75.8
Phosphate - Ortho - Phosphoru	mg/L	7.81
pH @ 25°C	pH	7.64
Nitrite - Nitrogen	mg/L	<0.05
Nitrate - Nitrogen	mg/L	1.93
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.05
Conductivity @ 25°C	us/cm	1030
Chloride	mg/L	53.6
Carbonate	mg/L	<1
Bicarbonate	mg/L	428
Balance (+ions/-ions)	Ratio	0.67
Acidity as CaCO3	mg/L	-246
Carbon (Total Organic)	mg/L	62.9
Ammonia - Nitrogen	mg/L	61.2
Carbon (Total Inorganic)	mg/L	75.7
Total Iron	mg/L	0.70
Total Manganese	mg/L	0.03
Total Zinc	mg/L	0.085
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00017
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0204
Total Sodium	mg/L	103
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	2.99
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	17.1
Total Nickel	mg/L	0.0070
Total Molybdenum	mg/L	0.00086
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	2.90
Total Lead	mg/L	0.00139

Total Copper	mg/L	0.0867
Total Cobalt	mg/L	0.00025
Total Chromium	mg/L	0.0027
Total Calcium	mg/L	8.47
Total Cadmium	mg/L	0.00013
Total Boron	mg/L	0.018
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.0112
Total Arsenic	mg/L	0.0006
Total Antimony	mg/L	0.00091
Total Aluminum	mg/L	0.142
Dissolved Calcium	mg/L	6.6
Dissolved Magnesium	mg/L	2.4
Dissolved Potassium	mg/L	24.2
Dissolved Sodium	mg/L	131
Total Phosphorus	mg/L	8.64
Dissolved Zinc	mg/L	0.042
Dissolved Vanadium	mg/L	<0.0001
Dissolved Uranium	mg/L	0.00011
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0202
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	3.06
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00654
Dissolved Molybdenum	mg/L	0.00047
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	0.026
Dissolved Lead	mg/L	0.00077
Dissolved Iron	mg/L	0.56
Dissolved Copper	mg/L	0.0658
Dissolved Cobalt	mg/L	0.00020
Dissolved Chromium	mg/L	0.0012
Dissolved Cadmium	mg/L	0.00007
Dissolved Boron	mg/L	0.018
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00670
Dissolved Arsenic	mg/L	0.0006
Dissolved Antimony	mg/L	0.0008
Dissolved Aluminum	mg/L	0.040

JER-SW2

Collect Date/Time	6/21/2006	
Sample No.	Jun-33	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	5.71
Field pH	pH	7.73
Field Conductivity	us/cm	794
Oxidation Reduction Potential	mV	182.60
Turbidity	NTU	24
Total Suspended Solids @105°C	mg/L	15
T-Hardness as CaCO3	mg/L	157
T-Dissolved Solids180°C	mg/L	340
T-Alkalinity as CaCO3	mg/L	68
Sulphate	mg/L	13.1
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	7.71
Nitrite - Nitrogen	mg/L	0.77
Nitrate - Nitrogen	mg/L	45.9
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.16
Conductivity @ 25°C	us/cm	609
Chloride	mg/L	25.3
Carbonate	mg/L	<1
Bicarbonate	mg/L	82
Balance (+ions/-ions)	Ratio	0.67
Acidity as CaCO3	mg/L	16
Carbon (Total Organic)	mg/L	3.0
Ammonia - Nitrogen	mg/L	20.3
Carbon (Total Inorganic)	mg/L	12.3
Total Iron	mg/L	0.16
Total Manganese	mg/L	0.13
Total Zinc	mg/L	0.005
Total Vanadium	mg/L	0.0010
Total Uranium	mg/L	0.130
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.157
Total Sodium	mg/L	11.7
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	3.04
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	4.4
Total Nickel	mg/L	0.0158
Total Molybdenum	mg/L	0.00650
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	16.4
Total Lead	mg/L	0.00240
Total Copper	mg/L	0.0158
Total Cobalt	mg/L	0.00168

Total Chromium	mg/L	0.0016
Total Calcium	mg/L	33.4
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.060
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.304
Total Arsenic	mg/L	0.0013
Total Antimony	mg/L	0.00022
Total Aluminum	mg/L	0.162
Dissolved Calcium	mg/L	33.3
Dissolved Magnesium	mg/L	18
Dissolved Potassium	mg/L	4.3
Dissolved Sodium	mg/L	13.2
Total Phosphorus	mg/L	0.05
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	0.0006
Dissolved Uranium	mg/L	0.115
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.134
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	3.17
Dissolved Selenium	mg/L	0.0011
Dissolved Nickel	mg/L	0.0144
Dissolved Molybdenum	mg/L	0.00648
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	0.100
Dissolved Lead	mg/L	0.00196
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	0.0142
Dissolved Cobalt	mg/L	0.00154
Dissolved Chromium	mg/L	0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	0.030
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.277
Dissolved Arsenic	mg/L	0.0007
Dissolved Antimony	mg/L	0.0005
Dissolved Aluminum	mg/L	0.123

JER-SW3		
Collect Date/Time	6/21/2006	
Sample No.	Jun-35	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	17.68
Field pH	pH	8.55
Field Conductivity	us/cm	368
Oxidation Reduction Potential	mV	150.00
Turbidity	NTU	5
Total Suspended Solids @105°C	mg/L	16
T-Hardness as CaCO3	mg/L	105
T-Dissolved Solids180°C	mg/L	204
T-Alkalinity as CaCO3	mg/L	50
Sulphate	mg/L	4.9
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	8.28
Nitrite - Nitrogen	mg/L	2.13
Nitrate - Nitrogen	mg/L	28.3
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.35
Conductivity @ 25°C	us/cm	359
Chloride	mg/L	7.2
Carbonate	mg/L	<1
Bicarbonate	mg/L	61
Balance (+ions/-ions)	Ratio	0.77
Acidity as CaCO3	mg/L	4
Carbon (Total Organic)	mg/L	1.0
Ammonia - Nitrogen	mg/L	7.76
Carbon (Total Inorganic)	mg/L	7.0
Total Iron	mg/L	0.50
Total Manganese	mg/L	0.02
Total Zinc	mg/L	0.017
Total Vanadium	mg/L	0.0019
Total Uranium	mg/L	0.00225
Total Thallium	mg/L	0.00011
Total Strontium	mg/L	0.104
Total Sodium	mg/L	8.9
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	4.52
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	6.5
Total Nickel	mg/L	0.0400
Total Molybdenum	mg/L	0.00234
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	17.8
Total Lead	mg/L	0.00069
Total Copper	mg/L	0.0057
Total Cobalt	mg/L	0.00284

Total Chromium	mg/L	0.0162
Total Calcium	mg/L	17.3
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.030
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.255
Total Arsenic	mg/L	0.0003
Total Antimony	mg/L	0.00020
Total Aluminum	mg/L	0.140
Dissolved Calcium	mg/L	13.5
Dissolved Magnesium	mg/L	17.2
Dissolved Potassium	mg/L	6.4
Dissolved Sodium	mg/L	10.1
Total Phosphorus	mg/L	0.06
Dissolved Zinc	mg/L	0.001
Dissolved Vanadium	mg/L	0.0004
Dissolved Uranium	mg/L	0.00035
Dissolved Thallium	mg/L	0.00011
Dissolved Strontium	mg/L	0.0858
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	4.33
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.0103
Dissolved Molybdenum	mg/L	0.00326
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	0.00006
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	0.0007
Dissolved Cobalt	mg/L	0.00064
Dissolved Chromium	mg/L	0.0016
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	0.013
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.256
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	0.0006
Dissolved Aluminum	mg/L	0.021

JER-SW4

Collect Date/Time	6/29/2006
Sample No.	Jun-27
Sample Class	M
Air Temperature	Deg C 13
Wind Speed	KM/H Calm
Wind Direction	unitless
Water Temperature	Deg C 13.61
Field pH	pH 5.94
Field Conductivity	us/cm 120
Oxidation Reduction Potential	mV 417.50
Turbidity	NTU 5
Total Suspended Solids @105°C	mg/L 3
T-Hardness as CaCO3	mg/L 37.2
T-Dissolved Solids180°C	mg/L 56
T-Alkalinity as CaCO3	mg/L 32
Sulphate	mg/L 6.4
Phosphate - Ortho - Phosphoru	mg/L <0.20
pH @ 25°C	pH 7.6
Nitrite - Nitrogen	mg/L 0.15
Nitrate - Nitrogen	mg/L 3.01
Hydroxide (as CaCO3)	mg/L <1
Fluoride	mg/L 0.1
Conductivity @ 25°C	us/cm 126
Chloride	mg/L 4.6
Carbonate	mg/L <1
Bicarbonate	mg/L 39
Balance (+ions/-ions)	Ratio 0.92
Acidity as CaCO3	mg/L 4
Carbon (Total Organic)	mg/L 3.4
Ammonia - Nitrogen	mg/L 0.7
Carbon (Total Inorganic)	mg/L 5.3
Total Iron	mg/L 0.15
Total Manganese	mg/L <0.01
Total Zinc	mg/L 0.003
Total Vanadium	mg/L 0.0009
Total Uranium	mg/L 0.00143
Total Thallium	mg/L <0.00005
Total Strontium	mg/L 0.0576
Total Sodium	mg/L 5.6
Total Silver	mg/L <0.0001
Total Silicon	mg/L 1.58
Total Selenium	mg/L <0.0010
Total Potassium	mg/L 2.9
Total Nickel	mg/L 0.0018
Total Molybdenum	mg/L 0.0018
Total Mercury	mg/L <0.00005
Total Magnesium	mg/L 3.98
Total Lead	mg/L 0.00015
Total Copper	mg/L 0.0023
Total Cobalt	mg/L 0.00006

Total Chromium	mg/L	<0.0005
Total Calcium	mg/L	7.71
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.007
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.0166
Total Arsenic	mg/L	0.0006
Total Antimony	mg/L	0.00025
Total Aluminum	mg/L	0.132
Dissolved Calcium	mg/L	8.1
Dissolved Magnesium	mg/L	4.1
Dissolved Potassium	mg/L	2.3
Dissolved Sodium	mg/L	5.4
Total Phosphorus	mg/L	<0.02
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	0.0003
Dissolved Uranium	mg/L	0.00115
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.058
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	1.43
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00133
Dissolved Molybdenum	mg/L	0.00126
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	<0.0001
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	0.002
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.0124
Dissolved Arsenic	mg/L	0.0004
Dissolved Antimony	mg/L	0.00025
Dissolved Aluminum	mg/L	0.01

JER-SW8

Collect Date/Time	6/21/2006	
Sample No.	Jun-34	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	13.7
Field pH	pH	7.68
Field Conductivity	us/cm	269
Oxidation Reduction Potential	mV	165.20
Turbidity	NTU	41
Total Suspended Solids @105°C	mg/L	12
T-Hardness as CaCO3	mg/L	81.6
T-Dissolved Solids180°C	mg/L	210
T-Alkalinity as CaCO3	mg/L	42
Sulphate	mg/L	9.3
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	7.68
Nitrite - Nitrogen	mg/L	0.24
Nitrate - Nitrogen	mg/L	14.3
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.08
Conductivity @ 25°C	us/cm	263
Chloride	mg/L	13.4
Carbonate	mg/L	<1
Bicarbonate	mg/L	52
Balance (+ions/-ions)	Ratio	0.81
Acidity as CaCO3	mg/L	14
Carbon (Total Organic)	mg/L	4.2
Ammonia - Nitrogen	mg/L	3.42
Carbon (Total Inorganic)	mg/L	7.0
Total Iron	mg/L	0.45
Total Manganese	mg/L	0.04
Total Zinc	mg/L	0.007
Total Vanadium	mg/L	0.0010
Total Uranium	mg/L	0.0117
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0903
Total Sodium	mg/L	5.6
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	2.28
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	2.7
Total Nickel	mg/L	0.0089
Total Molybdenum	mg/L	0.00198
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	8.38
Total Lead	mg/L	0.00120
Total Copper	mg/L	0.0056
Total Cobalt	mg/L	0.00080

Total Chromium	mg/L	0.0019
Total Calcium	mg/L	19
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.024
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.0612
Total Arsenic	mg/L	0.0007
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.370
Dissolved Calcium	mg/L	18
Dissolved Magnesium	mg/L	8.9
Dissolved Potassium	mg/L	2.5
Dissolved Sodium	mg/L	6.7
Total Phosphorus	mg/L	0.08
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	0.0009
Dissolved Uranium	mg/L	0.0107
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0868
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	2.36
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00983
Dissolved Molybdenum	mg/L	0.00216
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	0.015
Dissolved Lead	mg/L	0.00108
Dissolved Iron	mg/L	0.26
Dissolved Copper	mg/L	0.0051
Dissolved Cobalt	mg/L	0.00090
Dissolved Chromium	mg/L	0.0009
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	0.014
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.0613
Dissolved Arsenic	mg/L	0.0006
Dissolved Antimony	mg/L	0.0002
Dissolved Aluminum	mg/L	0.344

JER-WQ1

Collect Date/Time	6/27/2006	
Sample No.	Jun-02	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	5.17
Field pH	pH	6.45
Field Conductivity	us/cm	12
Oxidation Reduction Potential	mV	256.30
Biochemical Oxygen Demand	mg/L	
MF - Fecal Coliforms	CFU/100mL	<1
Turbidity	NTU	2
Total Suspended Solids @105°C	mg/L	<2
Total Iron	mg/L	0.13
Total Manganese	mg/L	<0.010
Total Zinc	mg/L	0.002
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00015
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0044
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.15
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0002
Total Molybdenum	mg/L	0.00005
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	<0.00005
Total Copper	mg/L	<0.0010
Total Cobalt	mg/L	<0.00005
Total Chromium	mg/L	<0.0005
Total Calcium	mg/L	1.11
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	<0.001
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00201
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0342
Dissolved Calcium	mg/L	1.13
Dissolved Magnesium	mg/L	0.55
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	<0.5
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	<0.0001
Dissolved Uranium	mg/L	0.00013
Dissolved Thallium	mg/L	<0.00005

Dissolved Strontium	mg/L	0.0043
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.14
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	<0.00005
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	<0.0001
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	<0.00005
Dissolved Arsenic	mg/L	<0.0001
Dissolved Antimony	mg/L	<0.00005
Dissolved Aluminum	mg/L	0.016

JER-WQ2

Collect Date/Time	6/19/2006	
Sample No.	Jun-93	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	13.84
Field pH	pH	7.24
Field Conductivity	us/cm	119
Oxidation Reduction Potential	mV	175.40
Biochemical Oxygen Demand	mg/L	<2
MF - Fecal Coliforms	CFU/100mL	<1
Turbidity	NTU	6
Total Suspended Solids @105°C	mg/L	4
T-Hardness as CaCO3	mg/L	30.2
T-Dissolved Solids180°C	mg/L	72
T-Alkalinity as CaCO3	mg/L	32
Sulphate	mg/L	3.6
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	7.64
Nitrite - Nitrogen	mg/L	<0.05
Nitrate - Nitrogen	mg/L	1.62
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.08
Conductivity @ 25°C	us/cm	116
Chloride	mg/L	3.2
Carbonate	mg/L	<1
Bicarbonate	mg/L	39
Balance (+ions/-ions)	Ratio	1
Acidity as CaCO3	mg/L	3
Carbon (Total Organic)	mg/L	3.6
Ammonia - Nitrogen	mg/L	1.46
Carbon (Total Inorganic)	mg/L	5.2
Total Iron	mg/L	<0.10
Total Manganese	mg/L	0.02
Total Zinc	mg/L	0.002
Total Vanadium	mg/L	0.0007
Total Uranium	mg/L	0.00121
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0522
Total Sodium	mg/L	4.7
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	1.24
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	2.5
Total Nickel	mg/L	0.0021
Total Molybdenum	mg/L	0.00155
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	3.32
Total Lead	mg/L	0.00016

Total Copper	mg/L	<0.0010
Total Cobalt	mg/L	0.00016
Total Chromium	mg/L	0.0010
Total Calcium	mg/L	5.91
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.009
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.0126
Total Arsenic	mg/L	0.0005
Total Antimony	mg/L	0.00033
Total Aluminum	mg/L	0.0889
Dissolved Calcium	mg/L	6.1
Dissolved Magnesium	mg/L	3.6
Dissolved Potassium	mg/L	3.1
Dissolved Sodium	mg/L	5.4
Total Phosphorus	mg/L	0.03
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	0.0013
Dissolved Uranium	mg/L	0.00102
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0572
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	1.44
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00204
Dissolved Molybdenum	mg/L	0.00149
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	0.00008
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	0.0012
Dissolved Cobalt	mg/L	0.00011
Dissolved Chromium	mg/L	0.0006
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	0.009
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.0144
Dissolved Arsenic	mg/L	0.0007
Dissolved Antimony	mg/L	0.0003
Dissolved Aluminum	mg/L	0.071

JER-WQ3

Collect Date/Time		6/20/2006	6/21/2006
Sample No.		Jun-08	Jun-08
Sample Class		M	M
Air Temperature	Deg C		
Wind Speed	KM/H		
Wind Direction	unitless		
Water Temperature	Deg C	12.43	
Field pH	pH	6.52	
Field Conductivity	us/cm	13	
Oxidation Reduction Potential	mV	192.50	
Turbidity	NTU		1
Total Suspended Solids @105°C	mg/L		<2
T-Hardness as CaCO3	mg/L		11.8
T-Dissolved Solids180°C	mg/L		11
T-Alkalinity as CaCO3	mg/L		9
Sulphate	mg/L		1.2
Phosphate - Ortho - Phosphoru	mg/L		<0.20
pH @ 25°C	pH		6.75
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		16
Chloride	mg/L		0.7
Carbonate	mg/L		<1
Bicarbonate	mg/L		11
Balance (+ions/-ions)	Ratio		1.02
Acidity as CaCO3	mg/L		4
Carbon (Total Organic)	mg/L		3.6
Ammonia - Nitrogen	mg/L		0.01
Carbon (Total Inorganic)	mg/L		0.1
Total Iron	mg/L		<0.10
Total Manganese	mg/L		<0.01
Total Zinc	mg/L		0.003
Total Vanadium	mg/L		<0.0005
Total Uranium	mg/L		0.00022
Total Thallium	mg/L		<0.00005
Total Strontium	mg/L		0.0042
Total Sodium	mg/L		<0.5
Total Silver	mg/L		<0.0001
Total Silicon	mg/L		0.21
Total Selenium	mg/L		<0.0010
Total Potassium	mg/L		<0.5
Total Nickel	mg/L		0.0007
Total Molybdenum	mg/L		0.00008
Total Mercury	mg/L		<0.00005
Total Magnesium	mg/L		0.50
Total Lead	mg/L		0.00006
Total Copper	mg/L		0.0011
Total Cobalt	mg/L		<0.00005

Total Chromium	mg/L	0.0006
Total Calcium	mg/L	1.02
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.003
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00204
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0543
Dissolved Calcium	mg/L	0.6
Dissolved Magnesium	mg/L	2.5
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	<0.5
Total Phosphorus	mg/L	0.02
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	<0.0001
Dissolved Uranium	mg/L	0.00013
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0046
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.27
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00021
Dissolved Molybdenum	mg/L	0.00010
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	0.00016
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	<0.0001
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00286
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.035

JER-WQ4

Collect Date/Time	6/21/2006	
Sample No.	Jun-27	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	11.72
Field pH	pH	7.08
Field Conductivity	us/cm	11
Oxidation Reduction Potential	mV	169.70
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	11
T-Alkalinity as CaCO3	mg/L	7
Sulphate	mg/L	1.3
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.66
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	13
Chloride	mg/L	0.4
Carbonate	mg/L	<1
Bicarbonate	mg/L	9
Balance (+ions/-ions)	Ratio	0.36
Acidity as CaCO3	mg/L	14
Carbon (Total Organic)	mg/L	2.9
Ammonia - Nitrogen	mg/L	<0.01
Carbon (Total Inorganic)	mg/L	<0.1
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.005
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00015
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0040
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.17
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0004
Total Molybdenum	mg/L	<0.00005
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	0.68
Total Lead	mg/L	0.00008
Total Copper	mg/L	0.0012
Total Cobalt	mg/L	<0.00005

Total Chromium	mg/L	<0.0005
Total Calcium	mg/L	0.79
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.003
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00167
Total Arsenic	mg/L	0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0494
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	0.04
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	<0.0001
Dissolved Uranium	mg/L	0.00013
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0036
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.25
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	<0.00005
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	<0.0001
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00284
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.025

JER-WQ5

Collect Date/Time		6/21/2006	6/21/2006
Sample No.		Jun-29	Jun-28
Sample Class		F1	M
Air Temperature	Deg C		
Wind Speed	KM/H		
Wind Direction	unitless		
Water Temperature	Deg C	10.14	10.13
Field pH	pH	5.75	5.65
Field Conductivity	us/cm	11	11
Oxidation Reduction Potential	mV	197.80	201.00
Turbidity	NTU	1	1
Total Suspended Solids @105°C	mg/L	<2	<2
T-Hardness as CaCO3	mg/L	<6	<6
T-Dissolved Solids180°C	mg/L	12	13
T-Alkalinity as CaCO3	mg/L	8	7
Sulphate	mg/L	1.6	1.8
Phosphate - Ortho - Phosphoru	mg/L	<0.20	<0.20
pH @ 25°C	pH	6.69	6.65
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	0.03	0.03
Conductivity @ 25°C	us/cm	14	14
Chloride	mg/L	0.5	0.6
Carbonate	mg/L	<1	<1
Bicarbonate	mg/L	9	8
Balance (+ions/-ions)	Ratio	0.32	0.33
Acidity as CaCO3	mg/L	4	10
Carbon (Total Organic)	mg/L	2.6	2.7
Ammonia - Nitrogen	mg/L	0.01	0.01
Carbon (Total Inorganic)	mg/L	<0.1	<0.1
Total Iron	mg/L	<0.10	<0.10
Total Manganese	mg/L	<0.01	<0.01
Total Zinc	mg/L	0.002	0.002
Total Vanadium	mg/L	<0.0005	<0.0005
Total Uranium	mg/L	0.00014	0.00015
Total Thallium	mg/L	<0.00005	<0.00005
Total Strontium	mg/L	0.0037	0.0038
Total Sodium	mg/L	<0.5	<0.5
Total Silver	mg/L	<0.0001	<0.0001
Total Silicon	mg/L	0.18	0.18
Total Selenium	mg/L	<0.0010	<0.0010
Total Potassium	mg/L	<0.5	<0.5
Total Nickel	mg/L	0.0003	0.0004
Total Molybdenum	mg/L	<0.00005	<0.00005
Total Mercury	mg/L	<0.00005	<0.00005
Total Magnesium	mg/L	<0.50	<0.50
Total Lead	mg/L	<0.00005	<0.00005
Total Copper	mg/L	<0.0010	<0.0010
Total Cobalt	mg/L	<0.00005	<0.00005

Total Chromium	mg/L	<0.0005	<0.0005
Total Calcium	mg/L	0.77	0.78
Total Cadmium	mg/L	<0.00005	<0.00005
Total Boron	mg/L	0.002	0.003
Total Beryllium	mg/L	<0.0001	<0.0001
Total Barium	mg/L	0.00160	0.00156
Total Arsenic	mg/L	<0.0002	<0.0002
Total Antimony	mg/L	<0.00005	<0.00005
Total Aluminum	mg/L	0.0448	0.0483
Dissolved Calcium	mg/L	<0.5	<0.5
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	0.04
Dissolved Zinc	mg/L	<0.001	<0.001
Dissolved Vanadium	mg/L	<0.0001	<0.0001
Dissolved Uranium	mg/L	0.00013	0.00013
Dissolved Thallium	mg/L	<0.00005	<0.00005
Dissolved Strontium	mg/L	0.0036	0.0037
Dissolved Silver	mg/L	<0.00005	<0.00005
Dissolved Silicon	mg/L	0.22	0.23
Dissolved Selenium	mg/L	<0.0006	<0.0006
Dissolved Nickel	mg/L	0.00006	0.00005
Dissolved Molybdenum	mg/L	<0.00005	<0.00005
Dissolved Mercury	mg/L	<0.00005	<0.00005
Dissolved Manganese	mg/L	<0.010	<0.010
Dissolved Lead	mg/L	0.00007	0.00022
Dissolved Iron	mg/L	<0.10	<0.10
Dissolved Copper	mg/L	0.0051	0.0015
Dissolved Cobalt	mg/L	<0.00002	<0.00002
Dissolved Chromium	mg/L	<0.0003	<0.0003
Dissolved Cadmium	mg/L	<0.00005	<0.00005
Dissolved Boron	mg/L	<0.001	<0.001
Dissolved Beryllium	mg/L	<0.0001	<0.0001
Dissolved Barium	mg/L	0.00340	0.00256
Dissolved Arsenic	mg/L	0.0001	0.0001
Dissolved Antimony	mg/L	<0.0001	<0.0001
Dissolved Aluminum	mg/L	0.021	0.022

JER-WQ6

Collect Date/Time	6/27/2006	
Sample No.	Jun-03	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	6.93
Field pH	pH	6.09
Field Conductivity	us/cm	12
Oxidation Reduction Potential	mV	264.60
Turbidity	NTU	2
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	13
T-Alkalinity as CaCO3	mg/L	7
Sulphate	mg/L	1.2
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.75
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	15
Chloride	mg/L	0.2
Carbonate	mg/L	<1
Bicarbonate	mg/L	9
Balance (+ions/-ions)	Ratio	0.68
Acidity as CaCO3	mg/L	2
Carbon (Total Organic)	mg/L	4.4
Ammonia - Nitrogen	mg/L	0.03
Carbon (Total Inorganic)	mg/L	0.2
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.006
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00014
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0045
Total Sodium	mg/L	0.7
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.12
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0003
Total Molybdenum	mg/L	0.00006
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	0.00049
Total Copper	mg/L	0.0011
Total Cobalt	mg/L	<0.00005

Total Chromium	mg/L	<0.0005
Total Calcium	mg/L	1.07
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.001
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00212
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0332
Dissolved Calcium	mg/L	1.1
Dissolved Magnesium	mg/L	<0.5
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	<0.5
Total Phosphorus	mg/L	0.03
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	<0.0001
Dissolved Uranium	mg/L	0.00014
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0038
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.14
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	<0.00005
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	<0.0001
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	<0.00005
Dissolved Arsenic	mg/L	<0.0001
Dissolved Antimony	mg/L	<0.00005
Dissolved Aluminum	mg/L	0.020

JER-WQ7

Collect Date/Time	6/18/2006	
Sample No.	Jun-94	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	5.84
Field pH	pH	7.00
Field Conductivity	us/cm	12
Oxidation Reduction Potential	mV	221.50
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	32
T-Alkalinity as CaCO3	mg/L	6
Sulphate	mg/L	0.8
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.76
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	14
Chloride	mg/L	0.4
Carbonate	mg/L	<1
Bicarbonate	mg/L	8
Balance (+ions/-ions)	Ratio	0.6
Acidity as CaCO3	mg/L	3
Carbon (Total Organic)	mg/L	2.7
Ammonia - Nitrogen	mg/L	0.02
Carbon (Total Inorganic)	mg/L	0.1
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.007
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00012
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0044
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.15
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0005
Total Molybdenum	mg/L	<0.00005
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	<0.00005
Total Copper	mg/L	0.0076
Total Cobalt	mg/L	0.00006

Total Chromium	mg/L	0.0014
Total Calcium	mg/L	1.08
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	<0.001
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00177
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0211
Dissolved Calcium	mg/L	0.7
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	<0.001
Dissolved Vanadium	mg/L	0.0002
Dissolved Uranium	mg/L	0.00011
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0044
Dissolved Silver	mg/L	0.00006
Dissolved Silicon	mg/L	0.26
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00025
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	<0.0001
Dissolved Cobalt	mg/L	0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00156
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.015

JER-WQ8

Collect Date/Time	6/18/2006	
Sample No.	Jun-95	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	10.74
Field pH	pH	6.85
Field Conductivity	us/cm	12
Oxidation Reduction Potential	mV	237.20
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	16
T-Alkalinity as CaCO3	mg/L	7
Sulphate	mg/L	0.8
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.83
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	14
Chloride	mg/L	0.4
Carbonate	mg/L	<1
Bicarbonate	mg/L	8
Balance (+ions/-ions)	Ratio	0.6
Acidity as CaCO3	mg/L	2
Carbon (Total Organic)	mg/L	2.6
Ammonia - Nitrogen	mg/L	0.02
Carbon (Total Inorganic)	mg/L	<0.1
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	<0.001
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00012
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0040
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.13
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0003
Total Molybdenum	mg/L	<0.00005
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	<0.00005
Total Copper	mg/L	<0.0010
Total Cobalt	mg/L	<0.00005

Total Chromium	mg/L	<0.0005
Total Calcium	mg/L	0.87
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.001
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00148
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0202
Dissolved Calcium	mg/L	0.7
Dissolved Magnesium	mg/L	<0.5
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	<0.5
Total Phosphorus	mg/L	0.04
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	0.0001
Dissolved Uranium	mg/L	0.00011
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0042
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.24
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00025
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	<0.0001
Dissolved Cobalt	mg/L	0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00147
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.014

JER-WQ9

Collect Date/Time	6/18/2006	
Sample No.	Jun-96	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	11.78
Field pH	pH	7.84
Field Conductivity	us/cm	13
Oxidation Reduction Potential	mV	210.60
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	28
T-Alkalinity as CaCO3	mg/L	7
Sulphate	mg/L	0.9
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.78
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	14
Chloride	mg/L	0.4
Carbonate	mg/L	<1
Bicarbonate	mg/L	8
Balance (+ions/-ions)	Ratio	0.5
Acidity as CaCO3	mg/L	3
Carbon (Total Organic)	mg/L	2.6
Ammonia - Nitrogen	mg/L	0.02
Carbon (Total Inorganic)	mg/L	<0.1
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	<0.001
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00012
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0043
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.14
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0005
Total Molybdenum	mg/L	<0.00005
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	<0.00005
Total Copper	mg/L	<0.0010
Total Cobalt	mg/L	0.00005

Total Chromium	mg/L	0.0012
Total Calcium	mg/L	0.85
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.003
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00154
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0271
Dissolved Calcium	mg/L	0.6
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	<0.001
Dissolved Vanadium	mg/L	0.0001
Dissolved Uranium	mg/L	0.00011
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0043
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.08
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00019
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	<0.0001
Dissolved Cobalt	mg/L	0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00152
Dissolved Arsenic	mg/L	0.0003
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.013

JER-WQ10

Collect Date/Time	6/27/2006	
Sample No.	Jun-04	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	N/A
Field pH	pH	N/A
Field Conductivity	us/cm	N/A
Oxidation Reduction Potential	mV	N/A
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	12
T-Alkalinity as CaCO3	mg/L	7
Sulphate	mg/L	1.3
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.69
Nitrite - Nitrogen	mg/L	<0.05
Nitrate - Nitrogen	mg/L	<0.05
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.05
Conductivity @ 25°C	us/cm	14
Chloride	mg/L	0.2
Carbonate	mg/L	<1
Bicarbonate	mg/L	8
Balance (+ions/-ions)	Ratio	0.64
Acidity as CaCO3	mg/L	3
Carbon (Total Organic)	mg/L	2.9
Ammonia - Nitrogen	mg/L	0.02
Carbon (Total Inorganic)	mg/L	<0.1
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.003
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00014
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0041
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.13
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0002
Total Molybdenum	mg/L	<0.00005
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	<0.00005
Total Copper	mg/L	<0.0010
Total Cobalt	mg/L	<0.00005

Total Chromium	mg/L	<0.0005
Total Calcium	mg/L	0.91
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	<0.001
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00190
Total Arsenic	mg/L	0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0331
Dissolved Calcium	mg/L	1.0
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	<0.001
Dissolved Vanadium	mg/L	<0.0001
Dissolved Uranium	mg/L	0.00011
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0037
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.15
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00016
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	0.0003
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	<0.00005
Dissolved Arsenic	mg/L	<0.0001
Dissolved Antimony	mg/L	<0.00005
Dissolved Aluminum	mg/L	0.020

JER-WQ11

Collect Date/Time	6/27/2006	
Sample No.	Jun-05	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	N/A
Field pH	pH	N/A
Field Conductivity	us/cm	N/A
Oxidation Reduction Potential	mV	N/A
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	8
T-Alkalinity as CaCO3	mg/L	8
Sulphate	mg/L	0.9
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.80
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	15
Chloride	mg/L	0.4
Carbonate	mg/L	<1
Bicarbonate	mg/L	9
Balance (+ions/-ions)	Ratio	0.63
Acidity as CaCO3	mg/L	2
Carbon (Total Organic)	mg/L	2.6
Ammonia - Nitrogen	mg/L	0.01
Carbon (Total Inorganic)	mg/L	0.3
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.002
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00012
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0044
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.13
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0001
Total Molybdenum	mg/L	<0.00005
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	0.00005
Total Copper	mg/L	<0.0010
Total Cobalt	mg/L	<0.00005

Total Chromium	mg/L	<0.0005
Total Calcium	mg/L	1.17
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	<0.001
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00164
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0231
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	<0.001
Dissolved Vanadium	mg/L	<0.0001
Dissolved Uranium	mg/L	0.00011
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0041
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.18
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	<0.00005
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	<0.0001
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00076
Dissolved Arsenic	mg/L	<0.0001
Dissolved Antimony	mg/L	<0.00005
Dissolved Aluminum	mg/L	0.010

JER-WQ12

Collect Date/Time	6/27/2006	
Sample No.	Jun-06	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	8.57
Field pH	pH	6.43
Field Conductivity	us/cm	12
Oxidation Reduction Potential	mV	250.00
Turbidity	NTU	2
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	13
T-Alkalinity as CaCO3	mg/L	8
Sulphate	mg/L	1.1
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.75
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	15
Chloride	mg/L	0.2
Carbonate	mg/L	<1
Bicarbonate	mg/L	10
Balance (+ions/-ions)	Ratio	0.65
Acidity as CaCO3	mg/L	2
Carbon (Total Organic)	mg/L	2.8
Ammonia - Nitrogen	mg/L	0.02
Carbon (Total Inorganic)	mg/L	0.2
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.003
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00016
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0047
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.13
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0004
Total Molybdenum	mg/L	<0.00005
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	0.00008
Total Copper	mg/L	0.0012
Total Cobalt	mg/L	<0.00005

Total Chromium	mg/L	<0.0005
Total Calcium	mg/L	1.12
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	<0.001
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00210
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0372
Dissolved Calcium	mg/L	1.1
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	<0.001
Dissolved Vanadium	mg/L	0.0001
Dissolved Uranium	mg/L	<0.00005
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0046
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.15
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00006
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	0.00010
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	0.0002
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	0.0005
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00175
Dissolved Arsenic	mg/L	0.0001
Dissolved Antimony	mg/L	<0.00005
Dissolved Aluminum	mg/L	0.024

JER-WQ13

Collect Date/Time	6/21/2006	
Sample No.	Jun-30	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	15.15
Field pH	pH	6.26
Field Conductivity	us/cm	24
Oxidation Reduction Potential	mV	193.10
Turbidity	NTU	2
Total Suspended Solids @105°C	mg/L	2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	16
T-Alkalinity as CaCO3	mg/L	11
Sulphate	mg/L	1.6
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.92
Nitrite - Nitrogen	mg/L	<0.05
Nitrate - Nitrogen	mg/L	0.30
Hydroxide (as CaCO3)	mg/L	<1
Fluoride	mg/L	0.03
Conductivity @ 25°C	us/cm	26
Chloride	mg/L	1.6
Carbonate	mg/L	<1
Bicarbonate	mg/L	13
Balance (+ions/-ions)	Ratio	0.45
Acidity as CaCO3	mg/L	4
Carbon (Total Organic)	mg/L	3.5
Ammonia - Nitrogen	mg/L	0.01
Carbon (Total Inorganic)	mg/L	0.4
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.006
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00058
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0080
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.48
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0011
Total Molybdenum	mg/L	0.00006
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	0.96
Total Lead	mg/L	0.00015
Total Copper	mg/L	0.0020
Total Cobalt	mg/L	<0.00005

Total Chromium	mg/L	0.0015
Total Calcium	mg/L	1.90
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.004
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00399
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0949
Dissolved Calcium	mg/L	1.2
Dissolved Magnesium	mg/L	0.7
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	0.7
Total Phosphorus	mg/L	0.03
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	<0.0001
Dissolved Uranium	mg/L	0.00052
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0074
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.47
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00062
Dissolved Molybdenum	mg/L	0.00007
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	0.0003
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00487
Dissolved Arsenic	mg/L	0.0002
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.060

JER-WQ14

Collect Date/Time	6/21/2006	
Sample No.	Jun-31	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	16.45
Field pH	pH	7.33
Field Conductivity	us/cm	14
Oxidation Reduction Potential	mV	154.30
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	13
T-Alkalinity as CaCO3	mg/L	9
Sulphate	mg/L	1.1
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.85
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	16
Chloride	mg/L	0.5
Carbonate	mg/L	<1
Bicarbonate	mg/L	11
Balance (+ions/-ions)	Ratio	0.38
Acidity as CaCO3	mg/L	6
Carbon (Total Organic)	mg/L	4.3
Ammonia - Nitrogen	mg/L	0.01
Carbon (Total Inorganic)	mg/L	0.2
Total Iron	mg/L	0.11
Total Manganese	mg/L	0.01
Total Zinc	mg/L	0.002
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00014
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0033
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.18
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0008
Total Molybdenum	mg/L	<0.00005
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	<0.00005
Total Copper	mg/L	<0.0010
Total Cobalt	mg/L	<0.00005

Total Chromium	mg/L	<0.0005
Total Calcium	mg/L	1.22
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	<0.001
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00176
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0417
Dissolved Calcium	mg/L	0.7
Dissolved Magnesium	mg/L	<0.5
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	<0.5
Total Phosphorus	mg/L	0.03
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	0.0001
Dissolved Uranium	mg/L	0.00016
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0041
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.24
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00020
Dissolved Molybdenum	mg/L	0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	0.0011
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00192
Dissolved Arsenic	mg/L	0.0001
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.026

JER-WQ15

Collect Date/Time	6/21/2006	
Sample No.	Jun-32	
Sample Class	M	
Air Temperature	Deg C	
Wind Speed	KM/H	
Wind Direction	unitless	
Water Temperature	Deg C	14.92
Field pH	pH	5.72
Field Conductivity	us/cm	13
Oxidation Reduction Potential	mV	194.60
Turbidity	NTU	1
Total Suspended Solids @105°C	mg/L	<2
T-Hardness as CaCO3	mg/L	<6
T-Dissolved Solids180°C	mg/L	12
T-Alkalinity as CaCO3	mg/L	10
Sulphate	mg/L	0.9
Phosphate - Ortho - Phosphoru	mg/L	<0.20
pH @ 25°C	pH	6.85
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	16
Chloride	mg/L	0.5
Carbonate	mg/L	<1
Bicarbonate	mg/L	12
Balance (+ions/-ions)	Ratio	0.33
Acidity as CaCO3	mg/L	5
Carbon (Total Organic)	mg/L	3.7
Ammonia - Nitrogen	mg/L	0.03
Carbon (Total Inorganic)	mg/L	0.4
Total Iron	mg/L	<0.10
Total Manganese	mg/L	<0.01
Total Zinc	mg/L	0.002
Total Vanadium	mg/L	<0.0005
Total Uranium	mg/L	0.00019
Total Thallium	mg/L	<0.00005
Total Strontium	mg/L	0.0037
Total Sodium	mg/L	<0.5
Total Silver	mg/L	<0.0001
Total Silicon	mg/L	0.20
Total Selenium	mg/L	<0.0010
Total Potassium	mg/L	<0.5
Total Nickel	mg/L	0.0003
Total Molybdenum	mg/L	<0.00005
Total Mercury	mg/L	<0.00005
Total Magnesium	mg/L	<0.50
Total Lead	mg/L	<0.00005
Total Copper	mg/L	0.0013
Total Cobalt	mg/L	<0.00005

Total Chromium	mg/L	<0.0005
Total Calcium	mg/L	1.28
Total Cadmium	mg/L	<0.00005
Total Boron	mg/L	0.002
Total Beryllium	mg/L	<0.0001
Total Barium	mg/L	0.00209
Total Arsenic	mg/L	<0.0002
Total Antimony	mg/L	<0.00005
Total Aluminum	mg/L	0.0491
Dissolved Calcium	mg/L	0.8
Dissolved Magnesium	mg/L	<0.5
Dissolved Potassium	mg/L	<0.5
Dissolved Sodium	mg/L	<0.5
Total Phosphorus	mg/L	0.04
Dissolved Zinc	mg/L	<0.001
Dissolved Vanadium	mg/L	0.0001
Dissolved Uranium	mg/L	0.00022
Dissolved Thallium	mg/L	<0.00005
Dissolved Strontium	mg/L	0.0041
Dissolved Silver	mg/L	<0.00005
Dissolved Silicon	mg/L	0.26
Dissolved Selenium	mg/L	<0.0006
Dissolved Nickel	mg/L	0.00013
Dissolved Molybdenum	mg/L	<0.00005
Dissolved Mercury	mg/L	<0.00005
Dissolved Manganese	mg/L	<0.010
Dissolved Lead	mg/L	<0.00005
Dissolved Iron	mg/L	<0.10
Dissolved Copper	mg/L	0.0001
Dissolved Cobalt	mg/L	<0.00002
Dissolved Chromium	mg/L	<0.0003
Dissolved Cadmium	mg/L	<0.00005
Dissolved Boron	mg/L	<0.001
Dissolved Beryllium	mg/L	<0.0001
Dissolved Barium	mg/L	0.00401
Dissolved Arsenic	mg/L	<0.0001
Dissolved Antimony	mg/L	<0.0001
Dissolved Aluminum	mg/L	0.032



Table 2 Flow and Volume Measurements

Table 2. Flow Measurements - June 2006

DATE	Crant Lake Freshwater Use (m3) (Camp and Emulsion Plant) Daily	Treated Sewage Effluent to PKC (Long Lake) (m3) Daily Calculated	Sewage Sludge Removed (m3)	Pit Pond Water to East Sump (m3) - Daily	Other waters from East Sump (m3) - Daily	East Sump pond to PKC (Long Lake) (m3) - Daily	Other waters to PKC (Long Lake) (m3)	PKC Water Recycled (m3)	Process Plant Fresh Water (m3)	Process Plant Water Discharged to PKC (m3)	Coarse Rejects (tonnes)	Fine Rejects to PKC (tonnes)	Ore Processed (tonnes)	Quantity of Waste Rock (tonnes)	Quantity of Ester (tonnes)	Quantity of fill (tonnes)
1-Jun	19.8	13.9		2595		1104			131.7							
2-Jun	24.2	16.9		1340		400			1486.6							
3-Jun	19.9	13.2		2148		1200			972.4							
4-Jun	19.3	13.5		963		1200			976.9							
5-Jun	14.8	10.4		2784		500			986.1							
6-Jun	29.8	20.9		138		0			1024.4							
7-Jun	27.6	19.3		1609		0			1007.7							
8-Jun	62.1	15.1		536		1152			1271.3							
9-Jun	25.3	8.3		1155	202.5	1152			1178.8							
10-Jun	25.6	18.1		0		1152			1030.9							
11-Jun	11.1	7.8		908	108	1152			519.3							
12-Jun	34.4	24.1		686	216	1152			1088.0							
13-Jun	68.1	20.0		2088	108	960			1051.1							
14-Jun	22.8	16.0		290	256.5	1080			1860.9							
15-Jun	21.8	15.3		0	216	1350			1100.9							
16-Jun	31.2	19.4		165	243	1368			1054.7							
17-Jun	17.2	12.0		462	135	1368			1075.1							
18-Jun	19.9	13.9		455	364.5	1368			1054.2							
19-Jun	21.1	14.8		406	229.5	1368			1064.4							
20-Jun	53.2	18.3		977	148.5	684			1653.7							
21-Jun	25.2	17.6		0	270	0			1300.6							
22-Jun	15.6	10.5		1696	205.5	1034			1215.0							
23-Jun	17.7	12.4		0	40.5	423			1305.9							
24-Jun	17.5	12.3		770	54	1464			1236.5							
25-Jun	15.7	11.0		368	13.5	1128			723.7							
26-Jun	20.7	14.5		348		1128			1117.8							
27-Jun	21.5	15.1		0	81	1128			1146.2							
28-Jun	17.2	12.0		0		1248			1321.5							
29-Jun	26.2	18.3		0	40.5	1248			1228.4							
30-Jun	22.9	16.0		0		1248			1156.6							
Total	769.0	480.8	142.0	22492	2832.5	28789	0.0	0.0	33263.5	33263.5	43674.0	7100.0	51524.0	130,200	480	23,160



Appendix A

Result Summary

Client: Tahera Diamond Corporation; operation Yellowknife

Sample: PKCTOX02-29/JUN/06

Collection: collected on 2006/06/29 at not given by CW

Receipt: received on 2006/06/30 at 1400 by L. Lamontange

Containers: received 1 x 20 L pail at 19 °C, in good condition with no seals and no initials

Description: type: water , collection method: grab

Test: started on 2006/07/02 ; ended on 2006/07/06

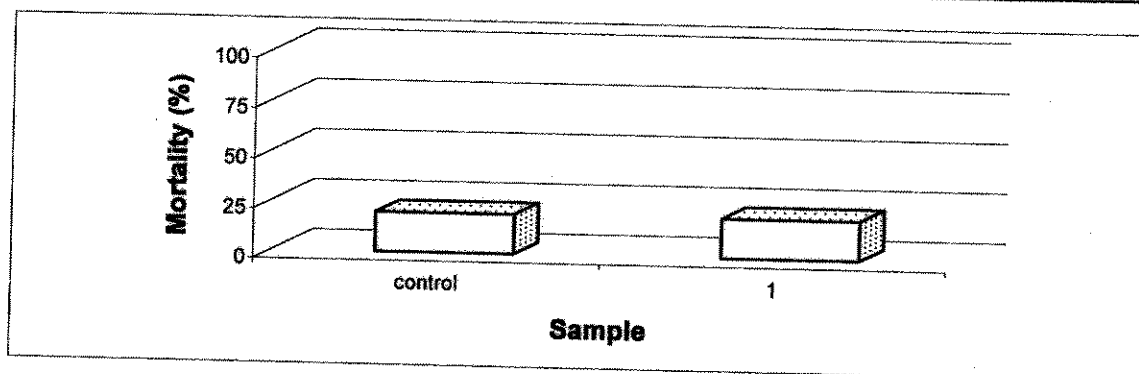
Result: Invalid Test

Client: TAH102
 Reference: 06-1279-01-TRS

Contents

Result Summary.....1
 Test Conditions.....2
 Test Data.....3
 Comments/Statistics..5
 QA/QC.....6

Sample	Client Code	Mortality (%)	Comment
control	lab control	20	
1	PKCTOX02-29/JUN/06	20	not toxic as tested



K. Steele
 Authorized by K. Steele, B.Sc., Quality Assurance Officer
 The test data and results are verified correct.

Our liability is limited to the cost of the test requested on the sample as received. No liability in whole or in part is assumed for the collection, handling or transport of the sample, application or interpretation of the test data or results in part or in whole.



Test Conditions

Client: TAH102
Reference: 06-1279-01-TRS

Method: Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout, 1990. Environment Canada, EPS 1/RM/13. (amended 1996 and 2000)

Test type: Trout 96-h Static Acute Test (HQ 4.4.4.1)

Species: *Oncorhynchus mykiss*

Organism source: Ackenberry Trout Farms (Batch 20060606TR)

Acclimation: 26 days

Stock mortality: 0.4% (seven days preceeding testing)

Sample initial chemistry: pH: 7.5; EC: 160 (μ S/cm); DO: 8.0 (mg/L); temperature: 19 °C
hardness (mg CaCO₃/L): 45; colour: colourless; odour: odourless

Sample holding time: 4 days (must be $\leq$ 5 days)

Sample storage: 4 $\pm$ 2°C in darkness

Test vessel: The test was conducted in 22 L plastic pails with polyethylene liners

Test volume: 18 Litres

Sample pre-treatment: All test solutions and controls were pre-aerated for 30 minutes
Dissolved oxygen in full strength sample was 8.5 mg/L after pre-aeration
The sample was not filtered or pH adjusted prior to or during testing

Loading density: 0.25 g/Litre (must be $\leq$ 0.5 g/Litre)

Control water: Dechlorinated City of Calgary water acclimated to test conditions

Test concentrations: Undiluted sample plus a negative control

Test replicates: One replicate per treatment; 10 fish per replicate

Feeding: Fish are not fed 24 hours before test initiation and no feeding during test

Measurements: pH, conductivity, dissolved oxygen and temperature measured daily

Aeration: All treatments aerated at 6.5 ($\pm$ 1 mL/min/L)

Lighting: Overhead full spectrum fluorescent lights; 100-500 lux at surface

Photoperiod: 16h light:8h dark

Test temperature: 15 $\pm$ 1°C

Endpoint: Mortality, % mortality at 96-h

Test validity: The control had 80% survival (must $\geq$ 90%)

Reference toxicant: 96-h test with Phenol (C₆H₅OH) initiated June 15, 2006; current results
(96-h LC50 and 95% confidence limits) = 12.5 (8.0-16.0) mg/L Phenol

Note: Outlined sections are protocol deviations explained on the comment page; v/v, volume per volume



Trout (single concentration) Test Report

Test Data

Client: TAH102
Reference: 06-1279-01-TRS

Test Log:

Date	Day	Time	Technician	Comment/Observation
2006/07/02	0	1130	B.Denny/C.Martens	test fish loaded at 1130 h
2006/07/03	1	1500	C.Ehmans/C.Martens	all test fish appear normal
2006/07/04	2	1340	S.Krishnappa/M.Luong	all test fish appear normal
2006/07/05	3	1045	A.Vogstad/M.Luong	all test fish appear normal
2006/07/06	4	1145	S.Krishnappa/M.Luong	all test fish appear normal

Chemistry:

Sample	control	1						
--------	---------	---	--	--	--	--	--	--

Day

	pH (units)							
0	7.7	7.9						
1	7.9	7.8						
2	7.9	7.6						
3	7.9	7.5						
4	7.9	7.6						

Conductivity ($\mu\text{S/cm}$)

0	383	146						
1	393	148						
2	391	140						
3	397	139						
4	391	139						

Dissolved Oxygen (mg/L)

0	8.4	8.5						
1	8.6	8.8						
2	8.5	8.4						
3	8.3	8.4						
4	8.5	8.6						

Temperature ($^{\circ}\text{C}$)

0	15	16						
1	15	15						
2	14	15						
3	15	15						
4	15	14						

Our liability is limited to the cost of the test requested on the sample as received. No liability in whole or in part is assumed for the collection, handling or transport of the sample, application or interpretation of the test data or results in part or in whole.

Test Data

Client: TAH102
Reference: 06-1279-01-TRS

Number Alive:

Sample	control	1						
--------	---------	---	--	--	--	--	--	--

Day

0	10	10						
1	10	10						
2	10	9						
3	8	8						
4	8	8						

Mortality (%)

4	20	20						
---	----	----	--	--	--	--	--	--

Biology Summary Tables:

Control Fish	Length (cm)	Weight (g)
1	3.5	0.4
2	3.6	0.4
3	3.5	0.4
4	4.0	0.6
5	3.9	0.6
6	4.0	0.3
7	3.3	0.4
8	3.5	0.5
9	3.3	0.3
10	3.9	0.6

Sample	Group Weight (g)
control	4.5
1	5.1

average	3.7	0.5
sd	0.3	0.1
cv(%)	7.6	25.6

Notes: nd, not done; na, not applicable;
 sd, standard deviation; cv(%), coefficient
 of variation



HydroQual
Laboratories Ltd.

Trout (single concentration) Test Report

Comments/Statistics

Client: TAH102 Reference: 06-1279-01-TRS

Test Result Comments:

None

Data Analysis:

None

Protocol Deviations:

Test is invalid due to 20% mortality in the control.

Our liability is limited to the cost of the test requested on the sample as received. No liability in whole or in part is assumed for the collection, handling or transport of the sample, application or interpretation of the test data or results in part or in whole.

Quality Assurance Information

Test Method: Trout 96h Static Acute Test. (LC50, five or more treatments plus a control)
HydroQual Test Method Manual, section: 4.4.4.1

Reference: Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout, 1990. Environment Canada, EPS 1/RM/13. including May 1996 and December 2000 amendments.

Test Organism:

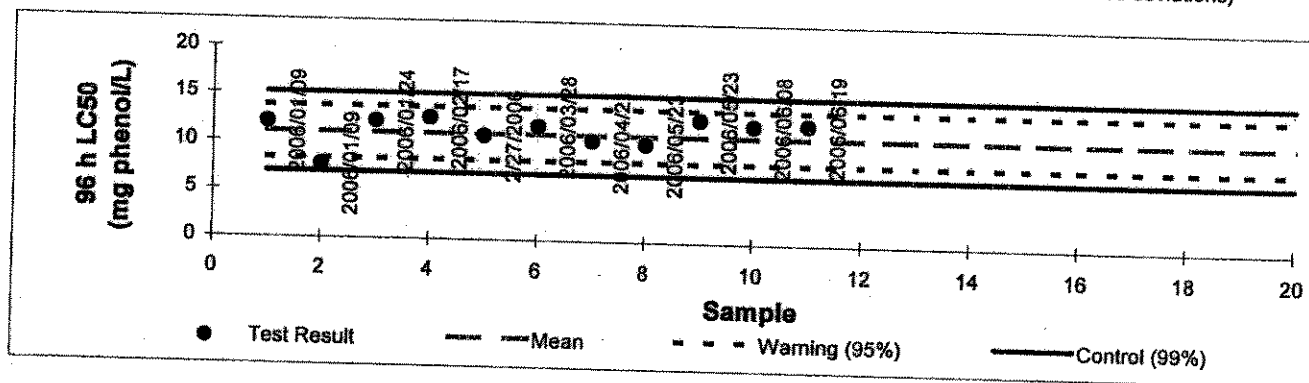
test species: *Oncorhynchus mykiss*
culture source: Ackenberry Trout Farms
temperature (°C): 15 ± 1
dissolved oxygen: saturated
stock mortality (last 7d): 0.1%
batch number: 20060606TR

Test Design:

vol. of test vessel (L): 22
test volume depth: >15 cm
replicates per treatment: 1
fingerlings per replicate: 10
loading (g fish/L): <0.5
temperature (°C): 15 ± 1
photoperiod: 16h light: 8h dark
light level (water surface): 100-500 lux
control/dilution water: dechlorinated tap water

Warning Chart: mortality LC50 at 96 hours
toxicant: Phenol (C₆H₅OH)

Current Test: started on 2006/06/15 ended on 2006/06/19
result (96 h LC50): 12.5 (8.0-16.0) mg phenol/L (95% confidence limits are in brackets)
Historical: mean: 11.0 std.dev: 1.4 cv(%): 12
warning limits: 8.3 13.8 (lower and upper 95% confidence limit, two standard deviations)
control limits: 6.9 15.1 (lower and upper 99% confidence limit, three standard deviations)



Quality Assurance Unit:


Authorized by K. Steele, B.Sc., Quality Assurance Officer
The test data and results are verified correct.

Our liability is limited to the cost of the test requested on the sample as received. No liability in whole or in part is assumed for the collection, handling or transport of the sample, application or interpretation of the test data or results in part or in whole.

Result Summary

Client: Tahera Diamond Corporation; operation
Yellowknife

Sample: PKCTOX02-29/JUN/06

Collection: collected on 2006/06/29 at not given by CW

Receipt: received on 2006/06/30 at 1400 by L. Lamontange

Containers: received 1 x 20 L pail at 19 °C, in good condition
with no seals and no initials

Description: type: water , collection method: grab

Test: started on 2006/06/30 ; ended on 2006/07/02

Result:

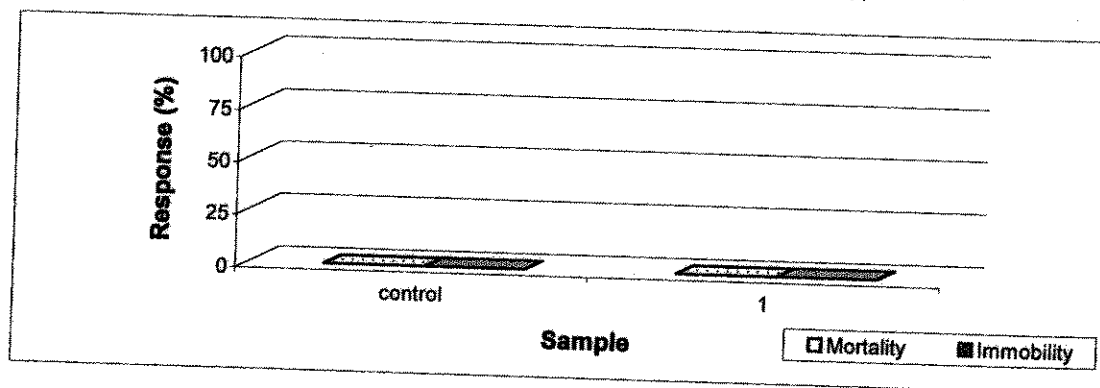
Client: TAH102
Reference: 06-1279-01-DAS

Contents

Result Summary.....	1
Test Conditions.....	2
Test Data.....	4
Comments/Statistics..	5
QA/QC.....	6

Sample	Client Code	Average Mortality (%)	Average Immobility (%)	Comment
control	lab control	0	0	
1	PKCTOX02-29/JUN/06	0	0	not toxic as tested

Notes: sd, sample standard deviation; cv, coefficient of variation; nd, not done; na, not applicable




 Authorized by K. Steele, B.Sc., Quality Assurance Officer
 The test data and results are verified correct.

Our liability is limited to the cost of the test requested on the sample as received. No liability in whole or in part is assumed for the collection, handling or transport of the sample, application or interpretation of the test data or results in part or in whole.

Test Conditions

Client: TAH102 Reference: 06-1279-01-DAS

Method: Biological Test method: Reference Method for Determining Acute Lethality of Effluents to *Daphnia magna*, 1990. Environ. Can., EPS 1/RM/14. (amended 1996 and 2000)

Test type: *Daphnia* 48-h Static Acute Test (HQ 4.4.3.1)

Species: *Daphnia magna*

Age: < 24 hours old

Organism source: in-house culture

Stock mortality: 0%

Culture brood data: 9 days to first brood
19 neonates per average brood

Sample initial chemistry: pH: 7.5; EC: 160 ($\mu\text{S}/\text{cm}$); DO: 8.0 (mg/L); temperature: 19 °C
hardness (mg CaCO_3/L): 45; colour: colourless; odour: odourless

Sample holding time: 1 days (must be ≤ 5 days)

Sample storage: $4 \pm 2^\circ\text{C}$ in darkness

Test vessel: 385 mL plastic vessels

Test volume: 150 mL

Sample pre-treatment: The sample was not filtered or pH adjusted prior to or during testing
The sample was pre-aerated for 0 minutes (rate of $37.5 \pm 12.5 \text{ mL}/\text{min} \cdot \text{L}^{-1}$)
The hardness of the sample was not adjusted (mg CaCO_3/L) prior to or during testing

Loading density: One daphnid/15 mL (must ≤ 1 organism/15 mL)

Control water: Dechlorinated City of Calgary water acclimated to test conditions
The hardness of the control/dilution water was 212 mg CaCO_3/L

Test concentrations: Undiluted sample plus a negative control

Test replicates: Three replicates per treatment, 10 daphnids per replicate

Feeding: None

Aeration: None

Measurements: pH, conductivity, dissolved oxygen and temperature at test initiation and termination

Lighting: Overhead full spectrum fluorescent lights; 400-800 lux at surface

Photoperiod: 16h light:8h dark

Test temperature: $20 \pm 2^\circ\text{C}$

Note: Outlined sections are protocol deviations explained on the comment page

Test Conditions

Client: TAH102 Reference: 06-1279-01-DAS

Endpoint: Mortality, % mortality at 48-h
Immobility, % immobility at 48-h

Test validity: The control had 100% survival (must $\geq 90\%$)
Control had 0% abnormal behaviour (must $< 10\%$), e.g. immobility

Reference toxicant: 48-h test with NaCl initiated June 27, 2006; current results
(48-h LC50 and 95% confidence limits) = 6.3 (5.6-7.2) g/L NaCl

Note: Outlined sections are protocol deviations explained on the comment page



Test Data

Client: TAH102
Reference: 06-1279-01-DAS

Test Log:

Date	Day	Time	Technician	Comment/Observation
2006/06/30	0	1430	B. Denny	test <i>Daphnia</i> appear normal
2006/07/01	1	1130	C. Ehman	test <i>Daphnia</i> appear normal
2006/07/02	2	1300	B. Denny	test <i>Daphnia</i> appear normal

Chemistry:

Sample	control			1		
replicate	a	b	c	a	b	c

Day	pH (units)					
0	7.8	7.8	7.8	7.5	7.5	7.5
2	7.9	7.9	7.9	7.7	7.6	7.6

Day	Conductivity ($\mu\text{S/cm}$)					
0	415	415	415	154	154	154
2	430	426	426	149	148	148

Day	Dissolved Oxygen (mg/L)					
0	7.9	7.9	7.9	7.8	7.8	7.8
2	7.9	7.8	7.9	7.7	7.8	7.7

Day	Temperature ($^{\circ}\text{C}$)					
0	20	20	20	20	20	20
2	20	20	20	20	20	20

Biology:

Sample	control			1		
replicate	a	b	c	a	b	c

Day	Number Alive and Behavior (behavior is in brackets)					
1	10 (2F)	10 (2F)	10 (9F)	10 (1F)	10	10
2	10	10 (1F)	10 (2F)	10	10 (1B)	10

Notes: F, floating; I, immobile; B, stuck on bubble; D, caught in debris

Day	Mortality (%)					
2	0	0	0	0	0	0

Day	Immobility (%)					
2	0	0	0	0	0	0

Our liability is limited to the cost of the test requested on the sample as received. No liability in whole or in part is assumed for the collection, handling or transport of the sample, application or interpretation of the test data or results in part or in whole.

Comments/Statistics

Client: TAH102 Reference: 06-1279-01-DAS

Test Result Comments:

None

Data Analysis:

None

Protocol Deviations:

None

Quality Assurance Information

Test Method: *Daphnia* Static Acute Test (LC50, five or more treatments plus a control)
HydroQual Test Method Manual, section: 4.4.3.1

Reference: Biological Test Method: Reference Method for Determining the Acute Lethality of Effluents to *Daphnia magna*, 1990. Environment Canada, EPS 1/RM/14. including May 1996 and December 2000 amendments.

Test Organism:

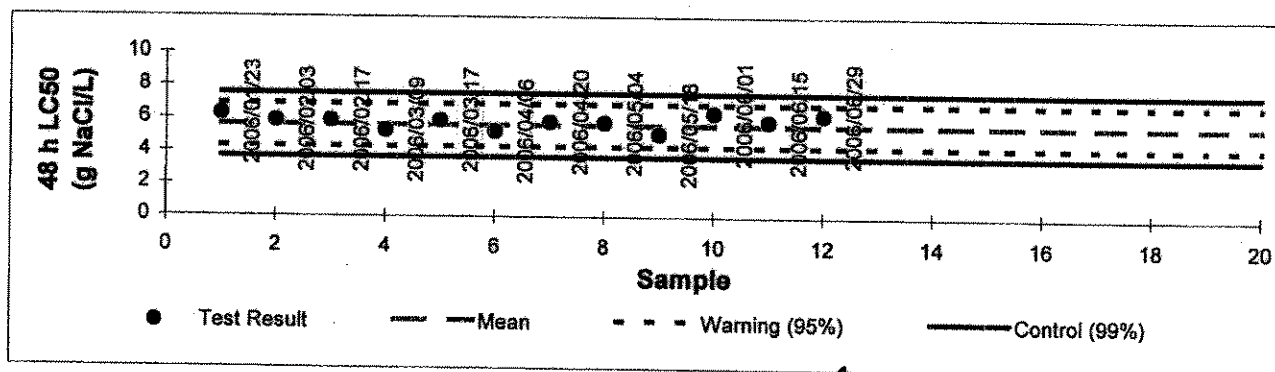
test species: *Daphnia magna*
culture source: in-house
original culture source: Environment Canada
days to first brood: 9
mean brood size: 19
ephippia in stock culture: no
age of test organisms: <24 hours old
culture mortality (%): 0

Test Design:

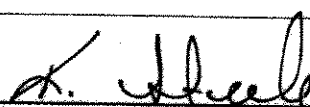
vol. of test vessel (mL): 500
toxicant: sodium chloride
test volume (mL): 150
replicates per treatment: 1
neonates per replicate: 10
volume per neonate (mL): 15
samples preaerated: no
hardness adjustment: no
temperature (°C): 20
photoperiod: 16h light:8h dark
light level (water surface): 400-800 lux
control/dilution water: dechlorinated tap water

Warning Chart: mortality LC50 at 48 hours
toxicant: Sodium Chloride (NaCl)

Current Test: started on 2006/06/27 ended on 2006/06/29
result (48 h LC50): 6.3 (5.6-7.2) g NaCl/L (95% confidence limits are in brackets)
Historical: mean: 5.6 std. dev: 0.6 cv (%): 12
warning limits: 4.3 6.9 (lower and upper 95% confidence limit, two standard deviations)
control limits: 3.7 7.6 (lower and upper 99% confidence limit, three standard deviations)



Quality Assurance Unit:


Authorized by K. Steele, B.Sc., Quality Assurance Officer
The test data and results are verified correct.

Our liability is limited to the cost of the test requested on the sample as received. No liability in whole or in part is assumed for the collection, handling or transport of the sample, application or interpretation of the test data or results in part or in whole.



Appendix B

Thermistor Location	Bead Number	Elevation (m)	Date	Temperature Reading °C
West Dam	1915	1	Jun 17/06	2.04
West Dam	1915	2	Jun 17/06	0.96
West Dam	1915	3	Jun 17/06	-0.04
West Dam	1915	4	Jun 17/06	-3.76
West Dam	1915	5	Jun 17/06	-6.90
West Dam	1915	6	Jun 17/06	-7.59
West Dam	1915	7	Jun 17/06	-8.12
West Dam	1915	8	Jun 17/06	-8.26
West Dam	1915	9	Jun 17/06	-8.41
West Dam	1915	10	Jun 17/06	-8.40
West Dam	1915	11	Jun 17/06	-8.29
West Dam	1915	12	Jun 17/06	-8.06
West Dam	1915	13	Jun 17/06	-7.58
West Dam	1915	14	Jun 17/06	-6.73
West Dam	1915	15	Jun 17/06	-5.10
West Dam	1915	16	Jun 17/06	-2.98
West Dam	1915	1	Jun 24/06	3.45
West Dam	1915	2	Jun 24/06	2.67
West Dam	1915	3	Jun 24/06	-0.06
West Dam	1915	4	Jun 24/06	-0.21
West Dam	1915	5	Jun 24/06	-6.44
West Dam	1915	6	Jun 24/06	-7.28
West Dam	1915	7	Jun 24/06	-7.97
West Dam	1915	8	Jun 24/06	-8.14
West Dam	1915	9	Jun 24/06	-8.26
West Dam	1915	10	Jun 24/06	-8.23
West Dam	1915	11	Jun 24/06	-8.10
West Dam	1915	12	Jun 24/06	-7.86
West Dam	1915	13	Jun 24/06	-7.34
West Dam	1915	14	Jun 24/06	-6.48
West Dam	1915	15	Jun 24/06	-4.92
West Dam	1915	16	Jun 24/06	-2.90
West Dam	1916	1	Jun 8/06	1.09
West Dam	1916	2	Jun 8/06	0.03
West Dam	1916	3	Jun 8/06	0.02
West Dam	1916	4	Jun 8/06	-0.14
West Dam	1916	5	Jun 8/06	-0.01
West Dam	1916	6	Jun 8/06	-0.16
West Dam	1916	7	Jun 8/06	-0.98
West Dam	1916	8	Jun 8/06	-3.86
West Dam	1916	9	Jun 8/06	-7.91
West Dam	1916	10	Jun 8/06	-8.79
West Dam	1916	11	Jun 8/06	-9.06
West Dam	1916	12	Jun 8/06	-8.91
West Dam	1916	13	Jun 8/06	-8.02
West Dam	1916	14	Jun 8/06	-6.31
West Dam	1916	15	Jun 8/06	-3.15
West Dam	1916	1	Jun 17/06	6.56
West Dam	1916	2	Jun 17/06	-0.04
West Dam	1916	3	Jun 17/06	-0.02
West Dam	1916	4	Jun 17/06	-0.18
West Dam	1916	5	Jun 17/06	-0.09
West Dam	1916	6	Jun 17/06	-0.53
West Dam	1916	7	Jun 17/06	-1.11
West Dam	1916	8	Jun 17/06	-3.72
West Dam	1916	9	Jun 17/06	-7.42
West Dam	1916	10	Jun 17/06	-8.30
West Dam	1916	11	Jun 17/06	-8.58
West Dam	1916	12	Jun 17/06	-8.42
West Dam	1916	13	Jun 17/06	-7.51
West Dam	1916	14	Jun 17/06	-5.86
West Dam	1916	15	Jun 17/06	-3.03
West Dam	1916	1	Jun 24/06	6.58
West Dam	1916	2	Jun 24/06	0.04
West Dam	1916	3	Jun 24/06	-0.02
West Dam	1916	4	Jun 24/06	-0.16
West Dam	1916	5	Jun 24/06	-0.04
West Dam	1916	6	Jun 24/06	-0.68
West Dam	1916	7	Jun 24/06	-1.10
West Dam	1916	8	Jun 24/06	-3.50
West Dam	1916	9	Jun 24/06	-7.10
West Dam	1916	10	Jun 24/06	-7.96
West Dam	1916	11	Jun 24/06	-8.23
West Dam	1916	12	Jun 24/06	-8.04
West Dam	1916	13	Jun 24/06	-7.03
West Dam	1916	14	Jun 24/06	-5.36
West Dam	1916	15	Jun 24/06	-2.78
West Dam	1917	1	Jun 8/06	-4.11
West Dam	1917	2	Jun 8/06	-4.68
West Dam	1917	3	Jun 8/06	-4.89
West Dam	1917	4	Jun 8/06	-4.63
West Dam	1917	5	Jun 8/06	-5.13
West Dam	1917	6	Jun 8/06	-5.05
West Dam	1917	7	Jun 8/06	-4.77
West Dam	1917	8	Jun 8/06	-4.33
West Dam	1917	9	Jun 8/06	-3.89
West Dam	1917	10	Jun 8/06	-3.34
West Dam	1917	11	Jun 8/06	-2.72
West Dam	1917	12	Jun 8/06	-1.99
West Dam	1917	1	Jun 17/06	-3.47
West Dam	1917	2	Jun 17/06	-4.35
West Dam	1917	3	Jun 17/06	-4.65
West Dam	1917	4	Jun 17/06	-4.46
West Dam	1917	5	Jun 17/06	-4.94
West Dam	1917	6	Jun 17/06	-4.86
West Dam	1917	7	Jun 17/06	-4.61
West Dam	1917	8	Jun 17/06	-4.19
West Dam	1917	9	Jun 17/06	-3.76
West Dam	1917	10	Jun 17/06	-3.18
West Dam	1917	11	Jun 17/06	-2.51
West Dam	1917	12	Jun 17/06	-1.81
West Dam	1917	1	Jun 24/06	-2.89
West Dam	1917	2	Jun 24/06	-4.06
West Dam	1917	3	Jun 24/06	-4.44
West Dam	1917	4	Jun 24/06	-4.30
West Dam	1917	5	Jun 24/06	-4.77
West Dam	1917	6	Jun 24/06	-4.69
West Dam	1917	7	Jun 24/06	-4.46
West Dam	1917	8	Jun 24/06	-4.06
West Dam	1917	9	Jun 24/06	-3.64
West Dam	1917	10	Jun 24/06	-3.07
West Dam	1917	11	Jun 24/06	-2.40
West Dam	1917	12	Jun 24/06	-1.71
West Dam	1918	1	Jun 8/06	-1.79
West Dam	1918	2	Jun 8/06	-6.03

Thermistor Location		Bead Number	Elevation (m)	Date	Temperature Reading (°C)
East Dam	1830	1	521.6	Jun 8/06	24.28
East Dam	1830	2	521.6	Jun 8/06	-1.18
East Dam	1830	3	520.5	Jun 8/06	-2.43
East Dam	1830	4	519.5	Jun 8/06	-4.89
East Dam	1830	5	518.1	Jun 8/06	-5.17
East Dam	1830	6	517.6	Jun 8/06	-5.38
East Dam	1830	7	517.5	Jun 8/06	-5.29
East Dam	1830	8	517.5	Jun 8/06	-5.21
East Dam	1830	9	517.4	Jun 8/06	-5.14
East Dam	1830	10	517.4	Jun 8/06	-4.98
East Dam	1830	11	517.4	Jun 8/06	-4.83
East Dam	1830	12	517.2	Jun 8/06	-4.84
East Dam	1830	13	517.3	Jun 8/06	-5.01
East Dam	1830	1	521.6	Jun 17/06	24.55
East Dam	1830	2	521.6	Jun 17/06	-0.18
East Dam	1830	3	520.5	Jun 17/06	-1.43
East Dam	1830	4	519.5	Jun 17/06	-4.44
East Dam	1830	5	518.1	Jun 17/06	-4.69
East Dam	1830	6	517.8	Jun 17/06	-4.90
East Dam	1830	7	517.5	Jun 17/06	-4.81
East Dam	1830	8	517.5	Jun 17/06	-4.73
East Dam	1830	9	517.4	Jun 17/06	-4.67
East Dam	1830	10	517.4	Jun 17/06	-4.56
East Dam	1830	11	517.4	Jun 17/06	-4.48
East Dam	1830	12	517.2	Jun 17/06	-4.56
East Dam	1830	13	517.3	Jun 17/06	-4.74
East Dam	1831	1	519.6	Jun 8/06	20.74
East Dam	1831	2	519.5	Jun 8/06	2.57
East Dam	1831	3	515.6	Jun 8/06	0.04
East Dam	1831	4	515.5	Jun 8/06	-5.34
East Dam	1831	5	515.5	Jun 8/06	-5.81
East Dam	1831	6	515.5	Jun 8/06	-6.25
East Dam	1831	7	515.4	Jun 8/06	-6.67
East Dam	1831	8	515.4	Jun 8/06	-6.59
East Dam	1831	9	515.3	Jun 8/06	-7.13
East Dam	1831	10	515.3	Jun 8/06	-7.94
East Dam	1831	11	515.3	Jun 8/06	-8.53
East Dam	1831	12	515.4	Jun 8/06	-8.70
East Dam	1831	1	519.6	Jun 17/06	23.14
East Dam	1831	2	519.5	Jun 17/06	6.08
East Dam	1831	3	515.6	Jun 17/06	0.29
East Dam	1831	4	515.5	Jun 17/06	-4.96
East Dam	1831	5	515.5	Jun 17/06	-5.55
East Dam	1831	6	515.5	Jun 17/06	-5.95
East Dam	1831	7	515.4	Jun 17/06	-6.33
East Dam	1831	8	515.4	Jun 17/06	-6.48
East Dam	1831	9	515.3	Jun 17/06	-7.00
East Dam	1831	10	515.3	Jun 17/06	-7.60
East Dam	1831	11	515.3	Jun 17/06	-8.11
East Dam	1831	12	515.4	Jun 17/06	-8.32
West Dam	1914	1		Jun 8/06	3.28
West Dam	1914	2	518.47	Jun 8/06	-0.08
West Dam	1914	3	518.54	Jun 8/06	-0.25
West Dam	1914	4	517.31	Jun 8/06	-3.67
West Dam	1914	5	516.37	Jun 8/06	-4.31
West Dam	1914	6	516.28	Jun 8/06	-4.79
West Dam	1914	7	516.20	Jun 8/06	-5.01
West Dam	1914	8	513.48	Jun 8/06	-5.27
West Dam	1914	9	512.62	Jun 8/06	-5.54
West Dam	1914	10	512.81	Jun 8/06	-5.50
West Dam	1914	11	513.04	Jun 8/06	-5.31
West Dam	1914	12	513.82	Jun 8/06	-4.84
West Dam	1914	13	514.74	Jun 8/06	-4.16
West Dam	1914	14	515.59	Jun 8/06	-3.10
West Dam	1914	15	516.55	Jun 8/06	-2.06
West Dam	1914	16	517.53	Jun 8/06	-1.12
West Dam	1914	1		Jun 17/06	9.58
West Dam	1914	2	518.47	Jun 17/06	-0.02
West Dam	1914	3	518.54	Jun 17/06	-0.09
West Dam	1914	4	517.31	Jun 17/06	-2.87
West Dam	1914	5	516.37	Jun 17/06	-4.03
West Dam	1914	6	516.28	Jun 17/06	-4.60
West Dam	1914	7	516.20	Jun 17/06	-4.91
West Dam	1914	8	513.48	Jun 17/06	-5.16
West Dam	1914	9	512.62	Jun 17/06	-5.38
West Dam	1914	10	512.81	Jun 17/06	-4.44
West Dam	1914	11	513.04	Jun 17/06	-5.16
West Dam	1914	12	513.82	Jun 17/06	-4.71
West Dam	1914	13	514.74	Jun 17/06	-4.06
West Dam	1914	14	515.59	Jun 17/06	-2.99
West Dam	1914	15	516.55	Jun 17/06	-1.95
West Dam	1914	16	517.53	Jun 17/06	-1.05
West Dam	1914	1		Jun 24/06	10.02
West Dam	1914	2	518.47	Jun 24/06	1.32
West Dam	1914	3	518.54	Jun 24/06	-0.04
West Dam	1914	4	517.31	Jun 24/06	-2.11
West Dam	1914	5	516.37	Jun 24/06	-3.76
West Dam	1914	6	516.28	Jun 24/06	-4.42
West Dam	1914	7	516.20	Jun 24/06	-4.81
West Dam	1914	8	513.48	Jun 24/06	-5.07
West Dam	1914	9	512.62	Jun 24/06	-5.27
West Dam	1914	10	512.81	Jun 24/06	-5.22
West Dam	1914	11	513.04	Jun 24/06	-5.05
West Dam	1914	12	513.82	Jun 24/06	-4.61
West Dam	1914	13	514.74	Jun 24/06	-3.98
West Dam	1914	14	515.59	Jun 24/06	-2.91
West Dam	1914	15	516.55	Jun 24/06	-1.90
West Dam	1914	16	517.53	Jun 24/06	-1.03
West Dam	1915	1		Jun 8/06	-0.20
West Dam	1915	2	520.09	Jun 8/06	-0.10
West Dam	1915	3	519.94	Jun 8/06	-1.41
West Dam	1915	4	518.60	Jun 8/06	-4.51
West Dam	1915	5	517.74	Jun 8/06	-7.28
West Dam	1915	6	517.22	Jun 8/06	-7.93
West Dam	1915	7	517.26	Jun 8/06	-8.26
West Dam	1915	8	514.75	Jun 8/06	-8.40
West Dam	1915	9	514.24	Jun 8/06	-8.58
West Dam	1915	10	514.32	Jun 8/06	-8.61
West Dam	1915	11	514.38	Jun 8/06	-8.54
West Dam	1915	12	514.21	Jun 8/06	-8.34
West Dam	1915	13	514.77	Jun 8/06	-7.91
West Dam	1915	14	515.30	Jun 8/06	-7.10
West Dam	1915	15	516.06	Jun 8/06	-5.43
West Dam	1915	16	516.73	Jun 8/06	-3.11

Thermistor Location		Bead Number	Elevation (m)	Date	Temperature Reading °C
West Dam	1918	3	518.03	Jun 8/06	-7.52
West Dam	1918	4	518.09	Jun 8/06	-7.70
West Dam	1918	5	517.54	Jun 8/06	-7.79
West Dam	1918	6	517.59	Jun 8/06	-6.98
West Dam	1918	7	517.63	Jun 8/06	-7.82
West Dam	1918	8	517.63	Jun 8/06	-7.58
West Dam	1918	9	517.60	Jun 8/06	-7.09
West Dam	1918	10	517.58	Jun 8/06	-6.26
West Dam	1918	11	517.62	Jun 8/06	-5.13
West Dam	1918	12	517.57	Jun 8/06	-3.83
West Dam	1918	1	517.92	Jun 17/06	-0.16
West Dam	1918	2	518.11	Jun 17/06	-5.48
West Dam	1918	3	518.03	Jun 17/06	-6.97
West Dam	1918	4	518.09	Jun 17/06	-7.36
West Dam	1918	5	517.54	Jun 17/06	-7.49
West Dam	1918	6	517.59	Jun 17/06	-7.44
West Dam	1918	7	517.63	Jun 17/06	-7.46
West Dam	1918	8	517.60	Jun 17/06	-7.19
West Dam	1918	9	517.58	Jun 17/06	-6.71
West Dam	1918	10	517.62	Jun 17/06	-5.95
West Dam	1918	11	517.62	Jun 17/06	-4.92
West Dam	1918	12	517.57	Jun 17/06	-3.72
West Dam	1918	1	517.92	Jun 24/06	-0.06
West Dam	1918	2	518.11	Jun 24/06	-4.86
West Dam	1918	3	518.03	Jun 24/06	-6.40
West Dam	1918	4	518.09	Jun 24/06	-7.02
West Dam	1918	5	517.54	Jun 24/06	-7.21
West Dam	1918	6	517.59	Jun 24/06	-7.16
West Dam	1918	7	517.63	Jun 24/06	-7.16
West Dam	1918	8	517.63	Jun 24/06	-6.87
West Dam	1918	9	517.60	Jun 24/06	-6.42
West Dam	1918	10	517.58	Jun 24/06	-5.71
West Dam	1918	11	517.62	Jun 24/06	-4.75
West Dam	1919	1	517.57	Jun 24/06	-3.63
West Dam	1919	2	520.55	Jun 8/06	-0.01
West Dam	1919	3	520.63	Jun 8/06	-0.08
West Dam	1919	4	520.55	Jun 8/06	-0.02
West Dam	1919	5	520.31	Jun 8/06	-0.25
West Dam	1919	6	520.33	Jun 8/06	-0.57
West Dam	1919	7	520.34	Jun 8/06	-2.19
West Dam	1919	8	520.40	Jun 8/06	-4.95
West Dam	1919	9	520.43	Jun 8/06	-5.09
West Dam	1919	10	520.49	Jun 8/06	-6.48
West Dam	1919	11	520.59	Jun 8/06	-6.43
West Dam	1919	12	520.72	Jun 8/06	-5.57
West Dam	1919	1	520.55	Jun 17/06	-3.50
West Dam	1919	2	520.63	Jun 17/06	-0.01
West Dam	1919	3	520.55	Jun 17/06	-0.08
West Dam	1919	4	520.31	Jun 17/06	-0.09
West Dam	1919	5	520.33	Jun 17/06	-0.53
West Dam	1919	6	520.33	Jun 17/06	-0.92
West Dam	1919	7	520.34	Jun 17/06	-2.10
West Dam	1919	8	520.40	Jun 17/06	-4.48
West Dam	1919	9	520.43	Jun 17/06	-5.05
West Dam	1919	10	520.49	Jun 17/06	-5.75
West Dam	1919	11	520.59	Jun 17/06	-5.56
West Dam	1919	12	520.72	Jun 17/06	-4.77
West Dam	1919	1	520.55	Jun 24/06	-3.15
West Dam	1919	2	520.63	Jun 24/06	-0.01
West Dam	1919	3	520.55	Jun 24/06	-0.09
West Dam	1919	4	520.31	Jun 24/06	-0.09
West Dam	1919	5	520.33	Jun 24/06	-0.64
West Dam	1919	6	520.33	Jun 24/06	-0.93
West Dam	1919	7	520.34	Jun 24/06	-1.98
West Dam	1919	8	520.40	Jun 24/06	-3.61
West Dam	1919	9	520.43	Jun 24/06	-4.06
West Dam	1919	10	520.49	Jun 24/06	-4.83
West Dam	1919	11	520.59	Jun 24/06	-4.46
West Dam	1919	12	520.72	Jun 24/06	-3.46
West Dam	1919				-2.54