

May 30<sup>th</sup>, 2007

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Water Resources Officer  
P.O. Box 278  
Kugluktuk, NU  
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**RE: Notification of intent to discharge from the Processed Kimberlite Containment Area (PKCA) to Stream C3 – Part G, Item 5 of License NWB1JER0410**

Please accept this letter as Tahera Diamond Corporations letter of intent as required in Part G, Item 5 of Water License NWB1JER0410, to commence with the drawdown of the PKCA to Stream C3.

Please find attached sample results collected from the PKCA for acute toxicity as required in Part G, Item 7 (a) and (b). These samples were analyzed by HydroQual Laboratories and indicate 0% mortality to Rainbow Trout, *Oncorhynchus mykiss* and crustacean *Daphnia magna*. Toxicity testing will continue to be conducted monthly as indicated by the water license. Water chemistry results from Station JER-WQ2 required in Part 5, Item 6(a) are attached. While discharging, samples will be collected weekly as required and submitted within the monthly SNP reports.

Should you have any additional questions do not hesitate to contact site Environmental staff at 780 644-9129.

Cheryl Wray  
Environmental Supervisor

Harold Gates  
Operations Manager

Sample Number	Sample ID	Date Sampled	Parameter Code	Result	Unit
L504848-1	WQ-02	5/9/2007	Acidity (as CaCO3)	3.4	mg/L
L504848-1	WQ-02	5/9/2007	Alkalinity, Bicarbonate (as CaCO3)	54.9	mg/L
L504848-1	WQ-02	5/9/2007	Alkalinity, Carbonate (as CaCO3)	<1.0	mg/L
L504848-1	WQ-02	5/9/2007	Alkalinity, Hydroxide (as CaCO3)	<1.0	mg/L
L504848-1	WQ-02	5/9/2007	Alkalinity, Total (as CaCO3)	54.9	mg/L
L504848-1	WQ-02	5/9/2007	Aluminum (Al)-Dissolved	0.0017	mg/L
L504848-1	WQ-02	5/9/2007	Aluminum (Al)-Total	0.0213	mg/L
L504848-1	WQ-02	5/9/2007	Ammonia as N	0.958	mg/L
L504848-1	WQ-02	5/9/2007	Antimony (Sb)-Dissolved	0.00052	mg/L
L504848-1	WQ-02	5/9/2007	Antimony (Sb)-Total	0.00048	mg/L
L504848-1	WQ-02	5/9/2007	Arsenic (As)-Dissolved	0.00055	mg/L
L504848-1	WQ-02	5/9/2007	Arsenic (As)-Total	0.00058	mg/L
L504848-1	WQ-02	5/9/2007	Barium (Ba)-Dissolved	0.066	mg/L
L504848-1	WQ-02	5/9/2007	Barium (Ba)-Total	0.0653	mg/L
L504848-1	WQ-02	5/9/2007	Beryllium (Be)-Dissolved	<0.00050	mg/L
L504848-1	WQ-02	5/9/2007	Beryllium (Be)-Total	<0.00050	mg/L
L504848-1	WQ-02	5/9/2007	Bismuth (Bi)-Dissolved	<0.00050	mg/L
L504848-1	WQ-02	5/9/2007	Bismuth (Bi)-Total	<0.00050	mg/L
L504848-1	WQ-02	5/9/2007	BOD	<5	mg/L
L504848-1	WQ-02	5/9/2007	Boron (B)-Dissolved	0.066	mg/L
L504848-1	WQ-02	5/9/2007	Boron (B)-Total	0.062	mg/L
L504848-1	WQ-02	5/9/2007	Cadmium (Cd)-Dissolved	<0.000050	mg/L
L504848-1	WQ-02	5/9/2007	Cadmium (Cd)-Total	<0.000050	mg/L
L504848-1	WQ-02	5/9/2007	Calcium (Ca)-Dissolved	20	mg/L
L504848-1	WQ-02	5/9/2007	Calcium (Ca)-Total	20.1	mg/L
L504848-1	WQ-02	5/9/2007	Chloride (Cl)	14.4	mg/L
L504848-1	WQ-02	5/9/2007	Chromium (Cr)-Dissolved	<0.00050	mg/L
L504848-1	WQ-02	5/9/2007	Chromium (Cr)-Total	<0.00050	mg/L
L504848-1	WQ-02	5/9/2007	Cobalt (Co)-Dissolved	0.00012	mg/L
L504848-1	WQ-02	5/9/2007	Cobalt (Co)-Total	0.00018	mg/L
L504848-1	WQ-02	5/9/2007	Conductivity	288	uS/cm
L504848-1	WQ-02	5/9/2007	Copper (Cu)-Dissolved	0.00195	mg/L
L504848-1	WQ-02	5/9/2007	Copper (Cu)-Total	0.00224	mg/L
L504848-1	WQ-02	5/9/2007	Hardness (as CaCO3)	95	mg/L
L504848-1	WQ-02	5/9/2007	Iron (Fe)-Dissolved	<0.030	mg/L
L504848-1	WQ-02	5/9/2007	Iron (Fe)-Total	0.05	mg/L
L504848-1	WQ-02	5/9/2007	Lead (Pb)-Dissolved	<0.000050	mg/L
L504848-1	WQ-02	5/9/2007	Lead (Pb)-Total	<0.000050	mg/L
L504848-1	WQ-02	5/9/2007	Lithium (Li)-Dissolved	<0.0050	mg/L
L504848-1	WQ-02	5/9/2007	Lithium (Li)-Total	<0.0050	mg/L
L504848-1	WQ-02	5/9/2007	Magnesium (Mg)-Dissolved	11	mg/L
L504848-1	WQ-02	5/9/2007	Magnesium (Mg)-Total	11.1	mg/L
L504848-1	WQ-02	5/9/2007	Manganese (Mn)-Dissolved	0.0644	mg/L
L504848-1	WQ-02	5/9/2007	Manganese (Mn)-Total	0.0669	mg/L
L504848-1	WQ-02	5/9/2007	Mercury (Hg)-Dissolved	<0.000050	mg/L
L504848-1	WQ-02	5/9/2007	Mercury (Hg)-Total	<0.000050	mg/L
L504848-1	WQ-02	5/9/2007	Molybdenum (Mo)-Dissolved	0.00365	mg/L
L504848-1	WQ-02	5/9/2007	Molybdenum (Mo)-Total	0.00336	mg/L
L504848-1	WQ-02	5/9/2007	Nickel (Ni)-Dissolved	0.00456	mg/L
L504848-1	WQ-02	5/9/2007	Nickel (Ni)-Total	0.00399	mg/L

L504848-1	WQ-02	5/9/2007 Nitrate (as N)	12.1	mg/L
L504848-1	WQ-02	5/9/2007 Nitrite (as N)	0.0899	mg/L
L504848-1	WQ-02	5/9/2007 Oil and Grease	<1.0	mg/L
L504848-1	WQ-02	5/9/2007 Ortho Phosphate as P	0.0068	mg/L
L504848-1	WQ-02	5/9/2007 pH	7.58	pH
L504848-1	WQ-02	5/9/2007 Potassium (K)-Dissolved	10.4	mg/L
L504848-1	WQ-02	5/9/2007 Potassium (K)-Total	10.2	mg/L
L504848-1	WQ-02	5/9/2007 Selenium (Se)-Dissolved	<0.0010	mg/L
L504848-1	WQ-02	5/9/2007 Selenium (Se)-Total	<0.0010	mg/L
L504848-1	WQ-02	5/9/2007 Silicon (Si)-Dissolved	2.11	mg/L
L504848-1	WQ-02	5/9/2007 Silicon (Si)-Total	2.17	mg/L
L504848-1	WQ-02	5/9/2007 Silver (Ag)-Dissolved	<0.000010	mg/L
L504848-1	WQ-02	5/9/2007 Silver (Ag)-Total	<0.000010	mg/L
L504848-1	WQ-02	5/9/2007 Sodium (Na)-Dissolved	13.7	mg/L
L504848-1	WQ-02	5/9/2007 Sodium (Na)-Total	13.8	mg/L
L504848-1	WQ-02	5/9/2007 Strontium (Sr)-Dissolved	0.271	mg/L
L504848-1	WQ-02	5/9/2007 Strontium (Sr)-Total	0.26	mg/L
L504848-1	WQ-02	5/9/2007 Sulfate (SO4)	19.9	mg/L
L504848-1	WQ-02	5/9/2007 Thallium (Tl)-Dissolved	<0.00010	mg/L
L504848-1	WQ-02	5/9/2007 Thallium (Tl)-Total	<0.00010	mg/L
L504848-1	WQ-02	5/9/2007 Tin (Sn)-Dissolved	0.00151	mg/L
L504848-1	WQ-02	5/9/2007 Tin (Sn)-Total	0.00122	mg/L
L504848-1	WQ-02	5/9/2007 Titanium (Ti)-Dissolved	<0.010	mg/L
L504848-1	WQ-02	5/9/2007 Titanium (Ti)-Total	<0.010	mg/L
L504848-1	WQ-02	5/9/2007 Total Dissolved Phosphate As P	0.0097	mg/L
L504848-1	WQ-02	5/9/2007 Total Dissolved Solids	174	mg/L
L504848-1	WQ-02	5/9/2007 Total Inorganic Carbon	8.18	mg/L
L504848-1	WQ-02	5/9/2007 Total Organic Carbon	2.57	mg/L
L504848-1	WQ-02	5/9/2007 Total Phosphate as P	0.0169	mg/L
L504848-1	WQ-02	5/9/2007 Total Suspended Solids	<3.0	mg/L
L504848-1	WQ-02	5/9/2007 Turbidity	1.49	NTU
L504848-1	WQ-02	5/9/2007 Uranium (U)-Dissolved	0.00108	mg/L
L504848-1	WQ-02	5/9/2007 Uranium (U)-Total	0.00109	mg/L
L504848-1	WQ-02	5/9/2007 Vanadium (V)-Dissolved	<0.0010	mg/L
L504848-1	WQ-02	5/9/2007 Vanadium (V)-Total	<0.0010	mg/L
L504848-1	WQ-02	5/9/2007 Zinc (Zn)-Dissolved	0.0012	mg/L
L504848-1	WQ-02	5/9/2007 Zinc (Zn)-Total	0.0015	mg/L

## Result Summary

Client: TAH102
Reference: 07-0761-01-TRS

**Client:** Tahera Diamond Corporation; operation Yellowknife

**Sample:** PKCTox-14 May 07

**Collection:** collected on 2007/05/14 at 0900 by B.O.

**Receipt:** received on 2007/05/16 at 1328 by J. Abcede

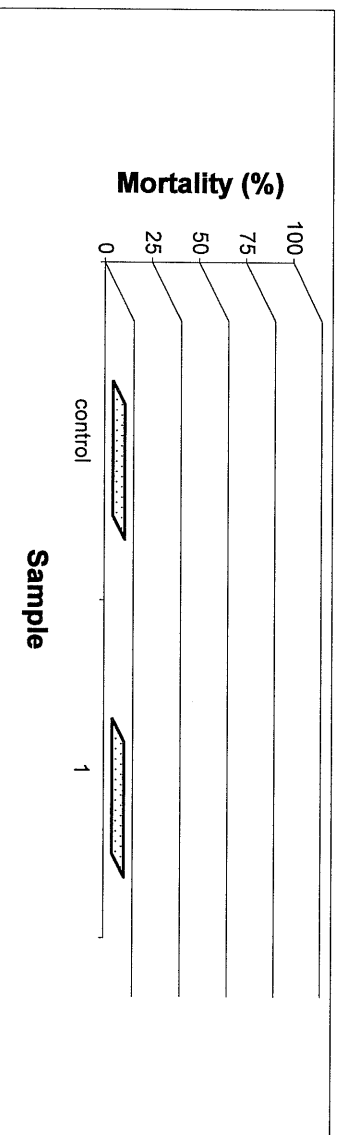
**Containers:** received 1 x 20L pail at 19 °C, in good condition with no seals and no initials

**Description:** type: water, collection method: grab

**Test:** started on 2007/05/17 ; ended on 2007/05/21

**Result:**

Sample	Client Code	Mortality (%)	Comment
control	lab control	0	
1	PKCTox-14 May 07	0	not toxic as tested



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

## Test Conditions

Client: TAH102 Reference: 07-0761-01-TRS
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**Method:** Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout, 2000. Environment Canada, EPS 1/RM/13. Second Edition.

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

**Species:** *Oncorhynchus mykiss*

**Organism source:** Spring Valley Trout Farms (Batch 20070411TR)

**Acclimation:** 36 days

**Stock mortality:** 1.4% (seven days preceeding testing)

**Sample initial chemistry:** pH: 7.7; EC: 223 (µS/cm); DO: 7.5 (mg/L); temperature: 21 °C

**Sample holding time:** 3 days (must be ≤ 5 days)  
hardness (mg CaCO<sub>3</sub>/L): 57; colour: colourless; odour: organic/ chemical

**Sample storage:** 4 ± 2°C in darkness

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

**Test volume:** 18.5 Litres (depth of solution in each test vessel ≥ 15cm)

**Sample pre-treatment:** All test solutions and controls were pre-aerated for 30 minutes

Dissolved oxygen in full strength sample was 8.7 mg/L after pre-aeration  
The sample was not filtered or pH adjusted prior to or during testing

**Loading density:** 0.31g/Litre (must be ≤ 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 ± 1 mL/min/L by oil-free compressed air  
passed through disposable glass pipettes

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

**Photoperiod:** 16h light:8h dark

**Test temperature:** 15 ± 1°C

**Endpoint:** Mortality, % mortality at 96-h

**Test validity:** The control had 100% survival (must ≥ 90%)

**Reference toxicant:** 96-h test with Phenol (C<sub>6</sub>H<sub>5</sub>OH) initiated May 3, 2007; current results  
(96-h LC50 and 95% confidence limits) = 1.00 (0.94-1.06) log (mg/L Phenol)

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

## Test Data

Client: TAH102
Reference: 07-0761-01-TRS

**Test Log:**

Date	Day	Time	Technician	Comment/Observation
2007/05/17	0	1145	J. Lantz/S. Ford	test fish loaded at 1145 h
2007/05/18	1	1040	J. Lantz/S. Ford	all test fish appear normal
2007/05/19	2	1100	S. Krishnappa/L. Henson	all test fish appear normal
2007/05/20	3	1230	B. Denny/C.A. Martens	all test fish appear normal
2007/05/21	4	1130	J. Lantz/S. Ford	all test fish appear normal

**Chemistry:**

Sample	control	1						
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Day

pH (units)

0	8.2	8.0						
1	8.3	8.4						
2	8.3	8.1						
3	8.4	8.0						
4	7.9	7.6						

Conductivity (µS/cm)

0	343	190						
1	340	206						
2	405	238						
3	379	220						
4	405	239						

Dissolved Oxygen (mg/L)

0	8.8	8.7						
1	9.4	9.4						
2	9.0	9.1						
3	8.6	8.5						
4	9.2	9.3						

Temperature (°C)

0	15	15						
1	15	15						
2	15	15						
3	15	15						
4	15	15						

## Test Data

Client: TAH102
Reference: 07-0761-01-TRS

### Number Alive:

Sample	control	1						
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### Day

0	10	10						
1	10	10						
2	10	10						
3	10	10						
4	10	10						

### Mortality (%)

4	0	0						
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### Biology Summary Tables:

Control Fish	Length (cm)	Wet Weight(g)
1	3.6	0.5
2	3.8	0.5
3	4.2	0.7
4	3.9	0.6
5	3.8	0.5
6	4.2	0.7
7	3.6	0.5
8	3.5	0.4
9	4.2	0.7
10	4.1	0.6

Sample	Group Wet Weight (g)
control	5.7
1	5.5

average	3.9	0.6
sd	0.3	0.1
cv(%)	7.0	18.6

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

## Comments/Statistics

Client: TAH102 Reference: 07-0761-01-TRS
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**Test Result Comments:**  
None

**Data Analysis:**  
None

**Protocol Deviations:**  
None





HydroQual  
Laboratories Ltd.

## Warning Chart Trout

**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: Spring Valley Trout Farms  
temperature (°C):  $15 \pm 1$   
dissolved oxygen: saturated  
stock mortality (last 7d): 0.3%  
batch number: 20070411TR

### 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):  $15 \pm 1$   
photoperiod: 16h light: 8h dark  
light level (water surface): 100-500 lux  
control/dilution water: dechlorinated tap water

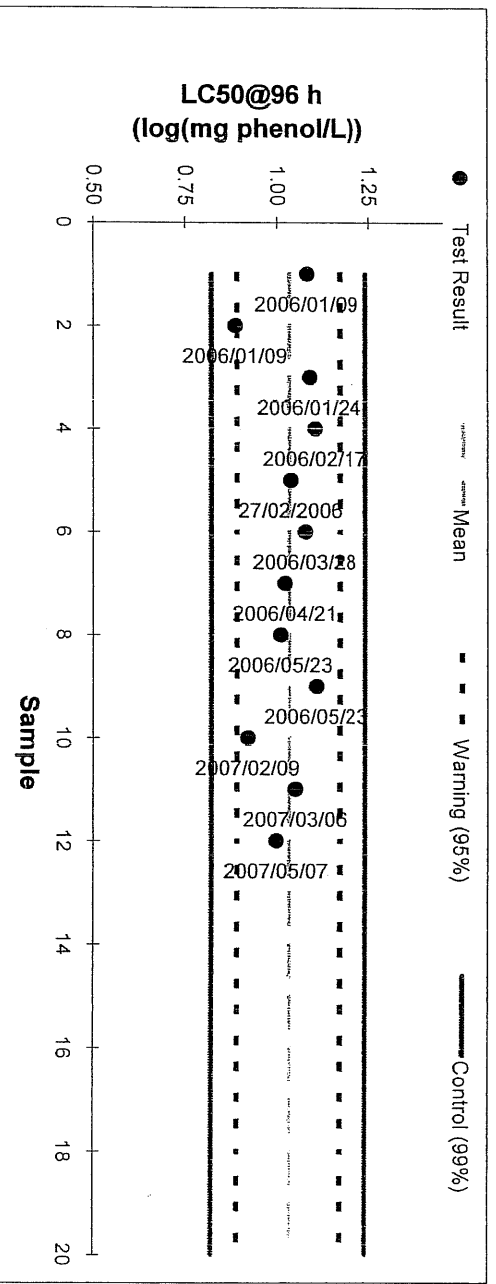
### Current Test

toxicant phenol ( $C_6H_5OH$ )  
started on 2007/05/03 ended on 2007/05/07  
Result (LC50 @ 96h) 1.00 log (mg phenol/L): geometric mean  
Confidence Limits (95%) lower 0.94 upper 1.06

### Historical Values

mean	sd	cv(%):
1.03	0.07	7
lower 0.89	upper 1.17	(95% confidence limits)
control limits ( $\pm 3$ sd) 0.82	1.24	(99% confidence limits)

notes: sd, standard deviation; cv, coefficient of variance



### Quality Assurance Unit:

*G. Diaz*  
Authorized by G. Diaz, B.Sc., Quality Assurance Officer

The test data and results are verified correct.



**HydroQual**  
Laboratories Ltd.

# **Daphnia (single concentration) Test Report**

## **Result Summary**

Client: TAH102  
Reference: 07-0761-01-DAS

**Client:** Tahera Diamond Corporation; operation  
Yellowknife

**Sample:** PKCTox-14 May 07

**Collection:** collected on 2007/05/14 at 0900 by B.O.

**Receipt:** received on 2007/05/16 at 1328 by J. Abcede

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

**Description:** type: water, collection method: grab

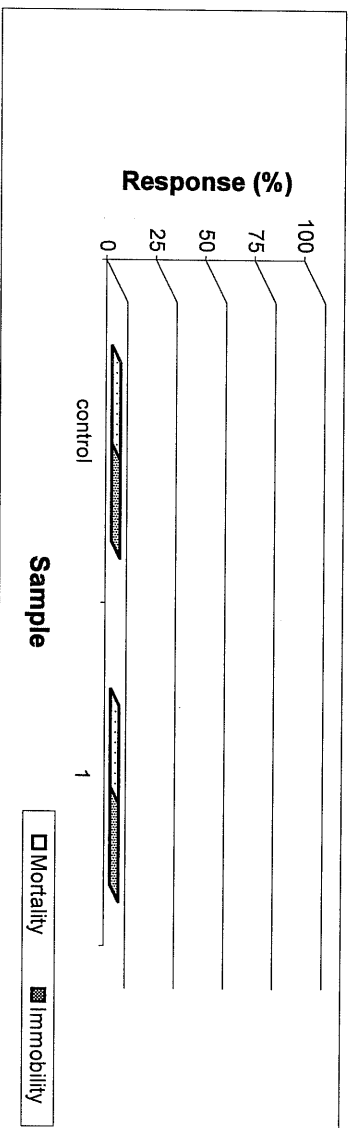
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**Test:** started on 2007/05/17 ; ended on 2007/05/19

### **Result:**

Sample	Client	Average	Comment
Code		Mortality (%)	Immortality (%)
control	lab control	0	0
1	PKCTox-14 May 07	0	0
			not toxic as tested

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



*James Russell*  
Authorized by K. Steele, B.Sc., Quality Assurance Officer

The test data and results are verified correct.

## Test Conditions

Client: TAH102 Reference: 07-0761-01-DAS
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**Method:** Biological Test method: Reference Method for Determining Acute Lethality of Effluents to *Daphnia magna*, 2000. Environ. Can., EPS 1/RM/14. Second Edition.

**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:** 11 days to first brood  
23 neonates per average brood

**Sample initial chemistry:** pH: 7.7; EC: 223 ( $\mu\text{S}/\text{cm}$ ); DO: 7.5 ( $\text{mg}/\text{L}$ ); temperature: 21 °C

**Sample holding time:** 3 days (must be  $\leq 5$  days)  
hardness ( $\text{mg CaCO}_3/\text{L}$ ): 57; colour: colourless; odour: organic/ chemical

**Sample storage:** 4  $\pm$  2 °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 mL/min.L<sup>-1</sup>)  
The hardness of the sample was not adjusted ( $\text{mg CaCO}_3/\text{L}$ ) prior to or during testing

**Loading density:** One daphnid/15 mL (must  $\leq 1$  organism/15 mL)

**Control water:** Dechlorinated City of Calgary water acclimated to test conditions  
The hardness of the control/dilution water was 193  $\text{mg CaCO}_3/\text{L}$

**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 °C

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

## Test Conditions

Client: TAH102 Reference: 07-0761-01-DAS
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**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 May 15, 2007; current results  
(48-h LC50 and 95% confidence limits) = 0.83 (0.81-0.85) log (g/L NaCl)

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



**Test Data**

Client: TAH102  
Reference: 07-0761-01-DAS

**Test Log:**

Date	Day	Time	Technician	Comment/Observation
2007/05/17	0	1235	S. Krishnappa	test <i>Daphnia</i> appear normal
2007/05/18	1	1010	M. Luong	test <i>Daphnia</i> appear normal
2007/05/19	2	1210	C.A. Martens	test <i>Daphnia</i> appear normal

**Chemistry:**

Sample replicate	control			1		
	a	b	c	a	b	c

Day

pH (units)						
0	8.3	8.3	8.3	7.8	7.8	7.8
2	8.1	8.2	8.2	7.6	7.5	7.5

**Conductivity (µS/cm)**

0	398	398	398	229	229	229
2	475	453	459	278	275	270

**Dissolved Oxygen (mg/L)**

0	8.3	8.3	8.3	8.3	8.3	8.3
2	8.5	8.5	8.5	8.5	8.3	8.4

**Temperature (°C)**

0	20	20	20	20	20	20
2	20	21	21	21	21	21

**Biology:**

Sample replicate	control			1		
	a	b	c	a	b	c

Day

Number Alive and Behavior (behavior is in brackets)						
1	10	10	11	10	10	10
2	10	10	11	10	10	10

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

**Mortality (%)**

2	0	0	0	0	0	0
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**Immobility (%)**

2	0	0	0	0	0	0
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## Comments/Statistics

Client: TAH102 Reference: 07-0761-01-DAS
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**Test Result Comments:**  
None

**Data Analysis:**  
None

**Protocol Deviations:**  
The test vessel control replicate c was loaded with 11 daphnids at test initiation.



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Laboratories Ltd.

## Warning Chart *Daphnia*

### 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: 11  
mean brood size: 23  
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 preacrated: 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

#### Current Test

toxicant Sodium Chloride (NaCl)  
started on 2007/05/15 ended on 2007/05/17

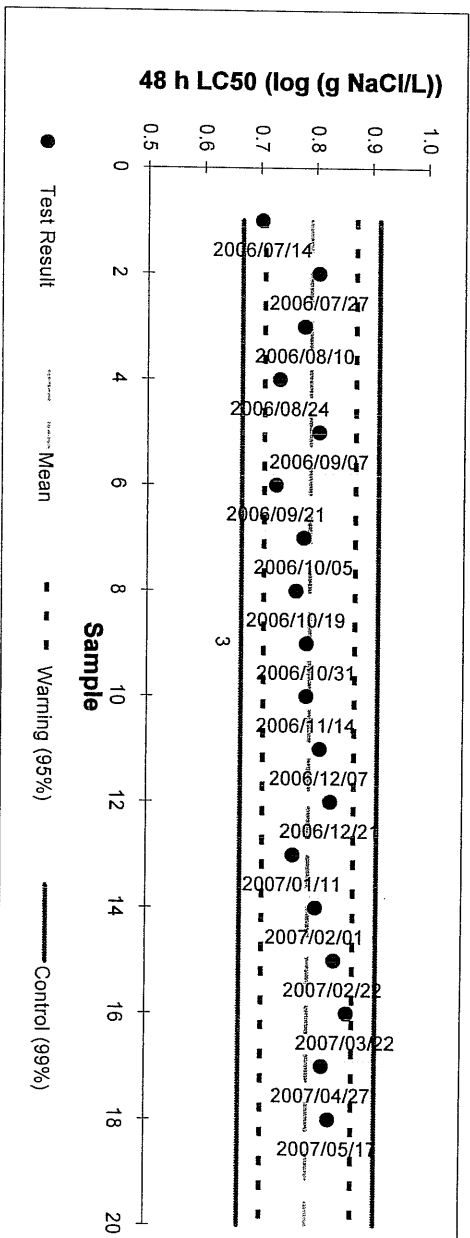
Result (LC50 @ 48h) 0.83 log (g NaCl/L): geometric mean

Confidence Limits (95%) lower 0.81 upper 0.85

#### Historical Values

mean	0.79	sd	0.04	cv(%):	5
warning limits ( $\pm 2$ sd)	0.71	upper	0.87	(95% confidence limits)	
control limits ( $\pm 3$ sd)	0.67	0.91	(99% confidence limits)		

notes: sd, standard deviation; cv, coefficient of variance



Quality Assurance Unit:

Authorized by G. Diaz, B.Sc., Quality Assurance Officer

The test data and results are verified correct.