

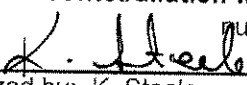
Quality Assurance Information

Test Method: 72 hours Algal Growth Inhibition Test (IC50, five or more treatments plus a control)
 HydroQual Test Method Manual, section: 4.4.2.7

Reference: Biological Test Method: Growth Inhibition Test Using the Freshwater Alga *Selenastrum capricornutum*, 1992. Environment Canada, EPS 1/RM/25, with Nov., 1997 amendments

Test Organism		Test Design	
test species (formerly)	<i>Raphidocelis subcapitata</i> <i>Selenastrum capricornutum</i> (strain LB37)	test type	static
original source	ATCC	toxicant	zinc
culture vessels	2L Erlenmeyer flask	test vessel	96 well flat bottom microplate
water source	deionized water	test volume (uL)	220
growth medium	nutrient solution	no. of replicates	3
cultivation method	batch as per test conditions	no. of replicate wells/treatment (per plate)	5
culture condition at start of test	normal	control	10
culture age	4-7 days	mean temperature (°C)	24 ± 2°C
		photoperiod	continuous light
		light level	4000 lux ± 10%
		control/dilution water	deionized water and nutrients (prepared as per EPS1/RM/25)

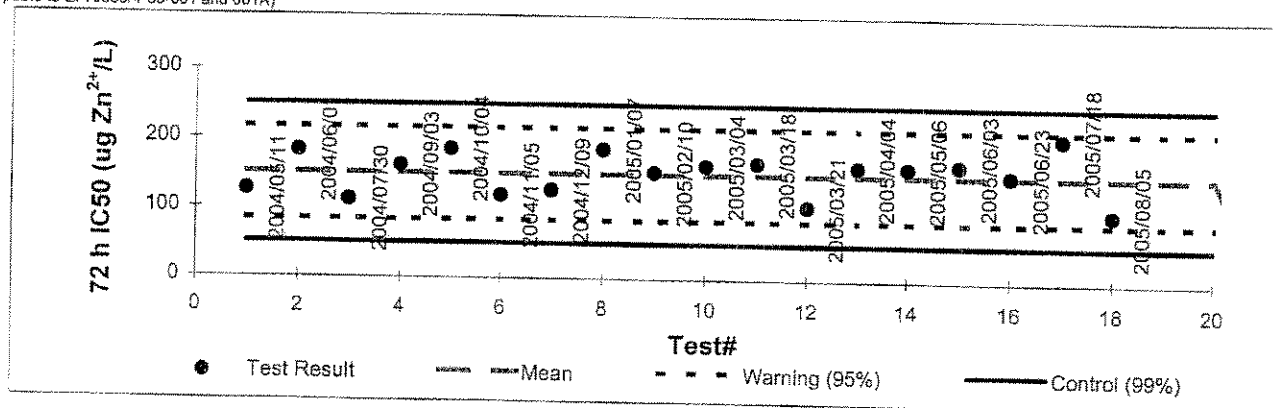
Quality Assurance Unit:
 The test data and result are verified correct.

 2005/08/11
 Authorized by: K. Steele

Algae Warning Chart (growth IC50 at 72 hours)

Toxicant:	Zinc (ZnSO ₄ ·7H ₂ O)		
Current Test:	started: 2005/08/02	ended: 2005/08/05	
Result (72 h IC50):	99 (85-108)	ug Zn ²⁺ /L	95% confidence limits are in brackets
Historical Mean:	151	std.dev: 33	CV(%): 22
Chart Limits:	warning: 84	218	control: 51 251
	95% , two standard deviations		99% , three standard deviations

Statistical analysis performed by ICPIN, West, Inc. and D. D. Guiley, 1994. Toxstat 3.4. Western Eco-Systems Technology, Inc., Cheyenne, and Toxstat, Norberg-King, T.J. 1993.
 A Linear Interpolation Method for Sublethal Toxicity: The Inhibition Concentration Approach (Ver. 2.0). National Effluent Toxicity Assessment Centre Technical Report 03-93.
 (update to EPA/600/4-89-001 and 001A)



Quality Assurance Information

Test Method: 7 days Fathead minnow Survival and Growth Test (five treatments plus a control)
 HydroQual Test Method Manual, section: 4.4.4.6

Reference: Biological Test Method: Test of Larval Growth and Survival Using Fathead Minnow, 1992. Environment Canada, EPS 1/RM/22, with Nov. 1997 amendments.

Test Organism

test species *Pimephales promelas*
culture source Aquatic Biological Systems
 (Arkansas, USA)
temp of breeding aquaria 23 - 26 °C
food type frozen brine shrimp
frequency of feeding daily
breeding colony mortality <5% (last 7 days)
age of test organisms <24 hours
condition prior to test
initiation normal
batch number 20050729FM

Test Design

test type static renewal
test volume (ml) 450
test vessel sodium chloride
 polypropylene
 cups, 11x9 cm
volume of test vessel 450
test volume (ml) 250
depth of test solution >3 cm
replicates per treatment 4 replicates
organisms per replicate 10
feeding twice daily
temperature (°C) 24-26
photoperiod 16 hours light: 8 hours dark
light level (surface) 100-500 lux

Control/Dilution Water

source dechlorinated City of Calgary tap water
 no chemicals were added to the dilution water

pH (units) 7.2
conductance (uS/cm) 391
dissolved oxygen (mg/L) 7.3
NH₄⁺ (mg/L) <0.1
hardness (mg CaCO₃/L) 157
alkalinity (mg CaCO₃/L) 120
total residual chlorine (mg/L) <0.01

Quality Assurance Unit:

The test data and results are verified correct.

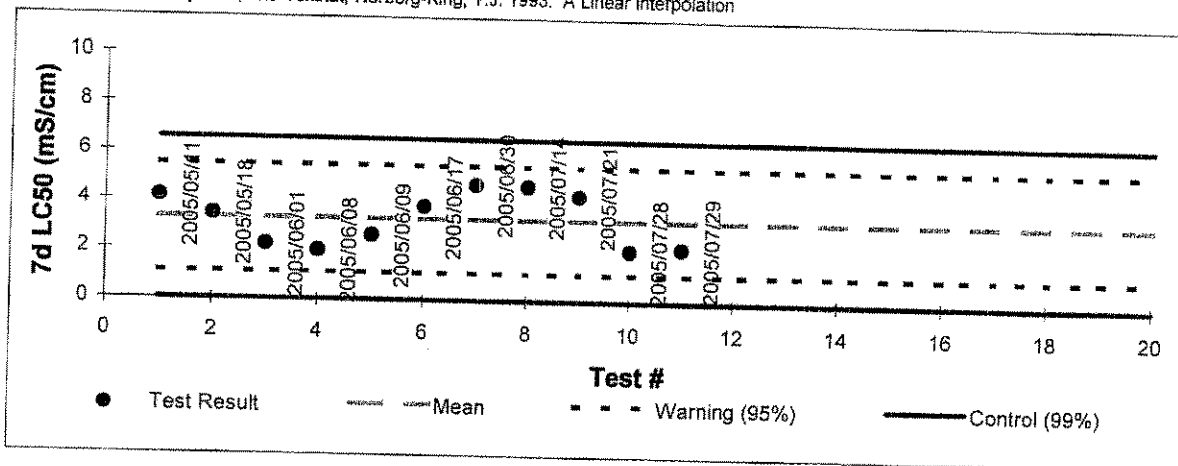
K. Steele as per
 Authorized by: K. Steele 2005/08/16

Quality Assurance Information

Fathead minnow Warning Chart (Mortality: LC50 at 7 days)

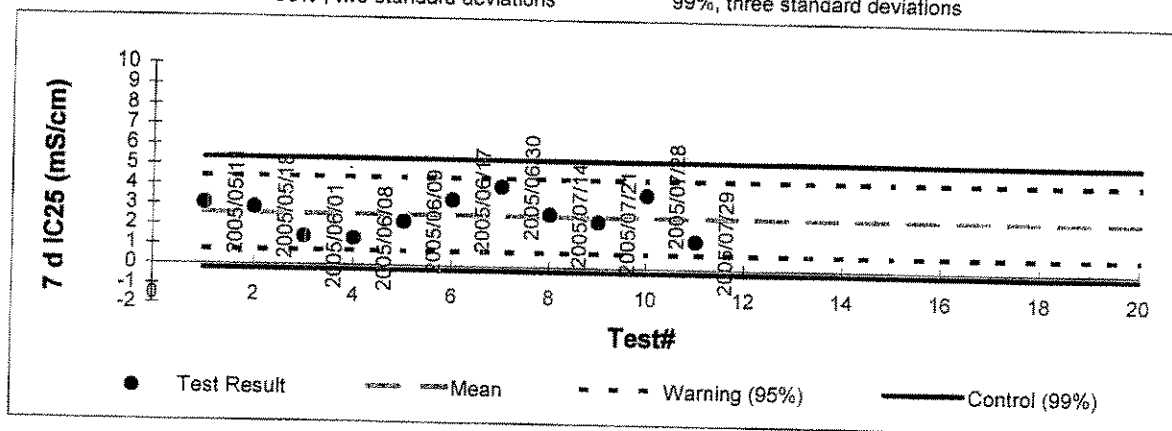
Toxicant: Sodium Chloride (NaCl)
Current Test: **started:** 2005/07/29 **ended:** 2005/08/05
Result (7 d LC50): 2.2 (2.0-2.5) mS/cm 95% confidence limits are in brackets
Historical Mean: 3.3 **std dev:** 1.1 **CV (%):** 33
Chart Limits: **warning:** 1.1 5.5 **control:** 0.0 6.6
 95% , two standard deviations 99% , three standard deviations

Statistical analysis performed by ICPIN, West, Inc. and D. D. Gulley, 1994. Toxstat 3.4. Western Eco-Systems
 Technology, Inc., Cheyenne, and Toxstat, Norberg-King, T.J. 1993. A Linear Interpolation



Fathead minnow Warning Chart (Growth: IC25 at 7 days)

Toxicant: Sodium Chloride (NaCl)
Current Test: **started:** 2005/07/29 **ended:** 2005/08/05
Result (7d IC25): 1.4 (0.3-3.2) mS/cm 95% confidence limits are in brackets
Historical Mean: 2.6 **std dev:** 0.9 **CV (%):** 36
Chart Limits: **warning:** 0.7 4.4 **control:** -0.2 5.4
 95% , two standard deviations 99% , three standard deviations



AQUATOX, INC.

100 Springwood Drive #15
Hot Springs, Arkansas 71913
(501) 767-9120

TEST ORGANISM HISTORY

DATE SHIPPED 7-28-05 Hydroqual
SPECIES *Pimephales promelas*
QUANTITY SHIPPED 1,000⁺
AGE/LIFE STAGE 424 hrs 7/29 1500+
BROODSTOCK SOURCE Anderson Farms, Inc
CULTURE WATER Grandwater
ALKALINITY (Mg/l as CaCO₃) =180
HARDNESS (Mg/l as CaCO₃)/Salinity (ppt) =160
FEEDING ATTN: L
COMMENTS PO# 2005-136
pH: 7.9, EC: 478, DO: 8.1, Temp: 23.2
Alk: 151, Hard: 137
PACKAGED BY W

BILL HALL PRINTERS 3171


HydroQual
 Laboratories Ltd.

 #3, 6125 12th Street SE Calgary, Alberta Canada T2H 2K1
 Tel (403) 253-7121 Fax (403) 252-9363 www.hydroqual.ca

Test Summary

Client: NORWEST LABSClient #: NOR 889Contact: Dorene LintottSample #: 20051182Fax #: 780-438-0896Date: 2005/08/03Date Collected: 2005/07/27Date Rec'd: 2005/07/29

HydroQual Contact: Ingrid Carleton-Dodds or Kim Steele

	Sample Strength %	Cumulative Mortality %				Endpoint/Comments
		24 hrs	48 hrs	72 hrs	96 hrs	
Description: <u>lot# 398418</u>	Control	0	0	0	10%	none
Method: <u>IR (S)</u>	100%	20%	20%	30%	30%	
Test #: <u>20053187</u>						
Tester: <u>AL</u>						
Started: <u>2005/07/29</u>						
Ended: <u>2005/08/02</u>						

	Sample Strength %	Cumulative Mortality %				Endpoint/Comments
		24 hrs	48 hrs	72 hrs	96 hrs	
Description: _____	Control					
Method: _____						
Test #: _____						
Tester: _____						
Started: _____						
Ended: _____						

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Test Summary

Client: NORWESTClient #: NOR239Contact: DARLENE LINTOTTSample #: 20051122Fax #: 780-438-0396 Date: 2005/08/01Date Collected: 2005/07/27Date Rec'd: 2005/07/29

HydroQual Contact: Ingrid Carleton-Dodds or Kim Steele

Description: lot #398418Method: DA(S)Test #: 20053126Tester: LFStarted: 2005/07/29Ended: 2005/07/31

Sample Strength %	Cumulative Mortality %			
	24 hrs	48 hrs	72 hrs	96 hrs

Endpoint/Comments

Control	0	0		
100%	0	70%		

Sample Strength %	Cumulative Mortality %			
	24 hrs	48 hrs	72 hrs	96 hrs

Endpoint/Comments

Description: _____

Method: _____

Test #: _____

Tester: _____

Started: _____

Ended: _____

Control				

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Facility Name

Kinross Gold Corporation - Lupin Operations (Contwoyto Lake)

FDP Name

Lupin Discharge Syphons

Reference Locn Name

SNP 925-21

Location

Lat 65 deg 43 min 52.1 sec N **Long** 111 deg 26 min 29.6 sec W
Midpoint of Concession Creek, 100m upstream from Unnamed Lake

WATER QUALITY MONITORING - REFERENCE LOCATION

Sample Date

July 19, 2005

pH	6.73
Hardness mg/l	<0.9
Alkalinity mg/l	<5
Aluminum mg/l	0.022
Cadmium mg/l	<0.00001
Iron mg/l	<0.1
Mercury ug/l	<0.02
Molybdenum mg/l	<0.001
Ammonia mg/l	<0.05
Nitrate mg/l	<0.01
Arsenic mg/l	0.0009
Copper mg/l	<0.001
Cyanide mg/l	0.002
Lead mg/l	0.0001
Nickel mg/l	<0.0005
Zinc mg/l	0.002
TSS mg/l	<3
Radium 226 Bq/l	<0.005
Effluent Notes	Sample 51058
Effluent flow cu.m.	64,124

(at SNP 925-10 discharge point)

NOTE

Effluent was discharged for a total of 27 days, from July 15, 2005 to August 11, 2005

Facility Name	Kinross Gold Corporation - Lupin Operations (Contwoyto Lake)				
FDP Name	Lupin Discharge Syphons				
Exposure Locn Name	SNP 925-24	Lat	65 deg 45 min 28.1 sec N	Long	111 deg 27 min 35.5 sec W
Location	Midpoint of channel between Inner and Outer Sun Bay				

WATER QUALITY MONITORING - EXPOSURE LOCATION

Sample Date July 19, 2005

pH	6.76
Hardness mg/l	3
Alkalinity mg/l	<5
Aluminum mg/l	0.026
Cadmium mg/l	<0.00001
Iron mg/l	<0.1
Mercury ug/l	<0.02
Molybdenum mg/l	<0.001
Ammonia mg/l	0.07
Nitrate mg/l	<0.01
Arsenic mg/l	0.001
Copper mg/l	<0.001
Cyanide mg/l	0.002
Lead mg/l	0.0001
Nickel mg/l	0.001
Zinc mg/l	0.004
TSS mg/l	3
Radium 226 Bq/l	<0.005
Effluent Notes	Sample 51062
Effluent flow cu.m.	64,124 (at SNP 925-10 discharge point)

NOTE Effluent was discharged for a total of 27 days, from July 15, 2005 to August 11, 2005



Analytical Report

Norwest Labs
7217 Roper Road NW
Edmonton, AB. T6B 3J4
Phone: (780) 438-5522
Fax: (780) 438-0396

Bill to: Echo Bay Mines Ltd.
Report to: Echo Bay Mines Ltd.
9818 International Airport
Edmonton, AB, Canada
T5J 2T2
Attn: Michael Tansey
Sampled By: Steve Schlesak
Company: Kinross Gold Corporation

Project
ID:
Name: Lupin Mine
Location: Nunavut
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 396502
Control Number:
Date Received: Jul 21, 2005
Date Reported: Aug 02, 2005
Report Number: 724749

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NWL Number	396502-13	396502-14	396502-15
Sample Date	Jul 19, 2005	Jul 19, 2005	Jul 19, 2005
Sample Description	925-20 / 51057	925-21 / 51058	925-22-1 / 51059
Matrix	Water - General	Water - General	Water - General

Analyte	Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters					
Ammonium - N	mg/L	1.01	<0.05	0.32	0.05
Cyanide Strong Acid Dissociable	mg/L	0.026	0.002	0.002	0.002
Metals Total					
Iron	Total mg/L	0.1	<0.1	0.1	0.1
Manganese	Total mg/L	0.856	0.008	0.024	0.005
Silicon	Total mg/L	1.64	0.10	0.18	0.05
Sulfur	Total mg/L	82.3	0.8	3.4	0.3
Mercury	Total mg/L	<0.0001	<0.0001	<0.0001	0.0001
Mercury	Total ug/L	-	<0.02	-	0.02
Aluminum	Total mg/L	0.090	0.022	0.038	0.005
Antimony	Total mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total mg/L	0.0039	0.0009	0.0018	0.0002
Barium	Total mg/L	0.049	0.002	0.005	0.001
Beryllium	Total mg/L	0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total mg/L	0.077	0.002	0.004	0.002
Cadmium	Total mg/L	0.00031	<0.00001	0.00002	0.00001
Chromium	Total mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total mg/L	0.0431	0.0002	0.0011	0.0001
Copper	Total mg/L	0.003	<0.001	0.001	0.001
Lead	Total mg/L	<0.0001	0.0001	0.0002	0.0001
Lithium	Total mg/L	0.024	<0.001	0.002	0.001
Molybdenum	Total mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Total mg/L	0.118	<0.0005	0.0036	0.0005
Selenium	Total mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Total mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Total mg/L	0.280	0.005	0.016	0.001
Sodium	Total mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Total mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total mg/L	0.0042	<0.0005	0.0011	0.0005
Uranium	Total mg/L	<0.0005	<0.0005	<0.0005	0.0005
Vanadium	Total mg/L	<0.0001	<0.0001	0.0001	0.0001
Zinc	Total mg/L	0.221	0.002	0.006	0.001
Physical and Aggregate Properties					
Temperature of observed pH	°C	18.7	19.3	20.4	



Analytical Report

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Report to: Echo Bay Mines Ltd.
9818 International Airport
Edmonton, AB, Canada
T5J 2T2
Attn: Michael Tansey
Sampled By: Steve Schlesak
Company: Kinross Gold Corporation

Project
ID:
Name: Lupin Mine
Location: Nunavut
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 396502
Control Number:
Date Received: Jul 21, 2005
Date Reported: Aug 02, 2005
Report Number: 724749

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		NWL Number	396502-13	396502-14	396502-15	
		Sample Date	Jul 19, 2005	Jul 19, 2005	Jul 19, 2005	
		Sample Description	925-20 / 51057	925-21 / 51058	925-22-1 / 51059	
		Matrix	Water - General	Water - General	Water - General	
Analyte	Units	Results	Results	Results	Detection Lim	
Physical and Aggregate Properties - Continued						
Solids	Total Suspended	mg/L	<2	<3	5	1
Routine Water						
pH			5.76	6.73	6.73	
Electrical Conductivity		µS/cm at 25 C	720	11	41	1
Calcium	Dissolved	mg/L	67.0	<0.2	1.9	0.2
Magnesium	Dissolved	mg/L	8.2	0.1	0.7	0.1
Sodium	Dissolved	mg/L	78.8	0.5	2.9	0.4
Potassium	Dissolved	mg/L	6.5	<0.4	0.6	0.4
Iron	Dissolved	mg/L	0.05	0.03	0.04	0.01
Manganese	Dissolved	mg/L	0.900	<0.005	0.011	0.005
Chloride	Dissolved	mg/L	50.2	0.5	2.2	0.4
Nitrate - N		mg/L	6.38	<0.01	0.15	0.01
Nitrite - N		mg/L	<0.005	<0.005	<0.005	0.005
Nitrate and Nitrite - N		mg/L	6.38	<0.02	0.15	0.02
Sulfate (SO4)	Dissolved	mg/L	269	2	12	0.9
Hydroxide		mg/L	<5	<5	<5	5
Carbonate		mg/L	<6	<6	<6	6
Bicarbonate		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
Total Dissolved Solids	Calculated	mg/L	481	3	20	1
Hardness	Dissolved as CaCO3	mg/L	201	<0.9	8	
Ionic Balance	Dissolved	%	103	60	100	



**NORWEST
LABS**

Analytical Report

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Report to: Echo Bay Mines Ltd.
9818 International Airport
Edmonton, AB, Canada
T5J 2T2
Attn: Michael Tansey
Sampled By: Steve Schlesak
Company: Kinross Gold Corporation

Project
ID:
Name: Lupin Mine
Location: Nunavut
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 396502
Control Number:
Date Received: Jul 21, 2005
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NWL Number	396502-16	396502-17	396502-18
Sample Date	Jul 19, 2005	Jul 19, 2005	Jul 19, 2005
Sample Description	925-22-2 / 51060	925-22-3 / 51061	925-24 / 51062
Matrix	Water - General	Water - General	Water - General

Analyte	Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters					
Ammonium - N	mg/L	<0.05	<0.05	0.07	0.05
Cyanide Strong Acid Dissociable	mg/L	0.002	0.002	0.002	0.002
Metals Total					
Aluminum	Total mg/L	0.1	0.1	<0.1	0.1
Manganese	Total mg/L	0.021	0.020	0.006	0.005
Silicon	Total mg/L	0.16	0.14	0.09	0.05
Sulfur	Total mg/L	3.3	3.3	0.5	0.3
Mercury	Total mg/L	<0.0001	<0.0001	<0.0001	0.0001
Mercury	Total ug/L	-	-	<0.02	0.02
Aluminum	Total mg/L	0.028	0.025	0.026	0.005
Antimony	Total mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total mg/L	0.0016	0.0016	0.0010	0.0002
Barium	Total mg/L	0.005	0.005	0.002	0.001
Beryllium	Total mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total mg/L	0.016	0.008	0.004	0.002
Cadmium	Total mg/L	0.00001	<0.00001	<0.00001	0.00001
Chromium	Total mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total mg/L	0.001	0.0009	0.0002	0.0001
Copper	Total mg/L	0.001	0.001	<0.001	0.001
Lead	Total mg/L	0.0002	0.0001	0.0001	0.0001
Lithium	Total mg/L	0.002	0.002	<0.001	0.001
Molybdenum	Total mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Total mg/L	0.0040	0.0040	0.0010	0.0005
Selenium	Total mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Total mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Total mg/L	0.014	0.014	0.005	0.001
Thallium	Total mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Total mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total mg/L	0.0006	<0.0005	<0.0005	0.0005
Uranium	Total mg/L	<0.0005	<0.0005	<0.0005	0.0005
Vanadium	Total mg/L	0.0001	0.0001	0.0001	0.0001
Zinc	Total mg/L	0.006	0.006	0.004	0.001
Physical and Aggregate Properties					
Temperature of observed pH	°C	20.0	19.6	19.4	



Quality Control

Norwest Labs
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Project
ID:
Name: Lupin Mine
Location: Nunavut
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P.O.:
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NWL Lot ID: 396502
Control Number:
Date Received: Jul 21, 2005
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Inorganic Nonmetallic Parameters

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg / L	<0.05	0.00	-0.08	0.08	✓
Cyanide	mg / L	<0.001	0.000	-0.001	0.001	✓
Material Used:	Edmonton Method Blank					
Date Acquired:	Jul 27, 2005					
Acquired By:	Gordon Grensman					
Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Ammonium - N	mg / L	126	130	9.99	0.10	✓
Cyanide	mg / L	0.002	0.002	9.990	0.002	✓
Material Used:	Edmonton Duplicate					
Date Acquired:	Jul 27, 2005					
Acquired By:	Gordon Grensman					
Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg / L	2.94	2.99	2.59	3.39	✓
Cyanide	mg / L	0.080	0.077	0.067	0.087	✓
Material Used:	Water High					
Date Acquired:	Jul 27, 2005					
Acquired By:	Gordon Grensman					
Ammonium - N	mg / L	0.80	0.79	0.66	0.91	✓
Cyanide	mg / L	0.016	0.016	0.013	0.018	✓
Material Used:	Water Low					
Date Acquired:	Jul 27, 2005					
Acquired By:	Gordon Grensman					



Quality Control

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Attn: Michael Tansey
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Project
ID:
Name: Lupin Mine
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NWL Lot ID: 396502
Control Number:
Date Received: Jul 21, 2005
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Page: 16 of 27

Metals Dissolved

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Sulfur	mg/L	<0.3	0.0	-0.3	0.3	✓

Material Used: Edmonton Method Blank
Date Acquired: Jul 22, 2005
Acquired By: To Thong

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Sulfur	mg/L	92	90	10.0	0.1	✓

Material Used: Edmonton Duplicate
Date Acquired: Jul 22, 2005
Acquired By: To Thong

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Sulfur	mg/L	49.7	50.0	45.0	55.0	✓

Material Used: Metals High
Date Acquired: Jul 22, 2005
Acquired By: To Thong

Sulfur	mg/L	1.1	1.0	0.9	1.2	✓
--------	------	-----	-----	-----	-----	---

Material Used: Metals Low
Date Acquired: Jul 22, 2005
Acquired By: To Thong



Quality Control

Norwest Labs
7217 Roper Road NW
Edmonton, AB. T6B 3J4
Phone: (780) 438-5522
Fax: (780) 438-0396

Bill to: Echo Bay Mines Ltd.
Report to: Echo Bay Mines Ltd.
9818 International Airport
Edmonton, AB, Canada
T5J 2T2
Attn: Michael Tansey
Sampled By: Steve Schlesak
Company: Kinross Gold Corporation

Project
ID:
Name: Lupin Mine
Location: Nunavut
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 396502
Control Number:
Date Received: Jul 21, 2005
Date Reported: Aug 02, 2005
Report Number: 724749

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Metals Total

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Iron	mg/L	<0.1	0.0	0.0	0.0	✓
Manganese	mg/L	<0.005	0.000	-0.001	0.001	✓
Silicon	mg/L	<0.05	0.02	-0.04	0.09	✓
Sulfur	mg/L	<0.3	0.0	-0.3	0.3	✓
Mercury	mg/L	0.0001	0.0000	0.0000	0.0000	✓
Aluminum	ug/L	<5	0	-5	5	✓
Antimony	ug/L	<0.2	0.0	-0.2	0.2	✓
Arsenic	ug/L	<0.2	0.0	-0.2	0.2	✓
Barium	ug/L	<1	0	-1	1	✓
Beryllium	ug/L	<0.1	0.0	-0.1	0.1	✓
Bismuth	ug/L	<0.5	0.0	-0.5	0.5	✓
Boron	ug/L	<2	0	-2	2	✓
Cadmium	ug/L	<0.01	0.00	-0.01	0.01	✓
Chromium	ug/L	<0.5	0.0	-0.5	0.5	✓
Cobalt	ug/L	<0.1	0.0	-0.1	0.1	✓
Copper	ug/L	<1	0	-1	1	✓
Lead	ug/L	<0.1	0.0	-0.1	0.1	✓
Lithium	ug/L	<1	0	-1	1	✓
Molybdenum	ug/L	<1	0	-1	1	✓
Nickel	ug/L	<0.5	0.0	-0.5	0.5	✓
Selenium	ug/L	<0.2	0.0	-0.2	0.2	✓
Silver	ug/L	<0.1	0.0	-0.1	0.1	✓
Strontium	ug/L	<1	0	-1	1	✓
Thallium	ug/L	<0.05	0.00	-0.05	0.05	✓
Tin	ug/L	<1	0	-1	1	✓
Titanium	ug/L	<0.5	0.0	-0.5	0.5	✓
Uranium	ug/L	<0.5	0.0	-0.5	0.5	✓
Vanadium	ug/L	<0.1	0.0	-0.1	0.1	✓
Zinc	ug/L	<1	0	-1	1	✓

Material Used: Edmonton Method Blank

Date Acquired: Jul 22, 2005

Acquired By: Fernando Maglalang

Mercury	ug/L	<0.02	0.000	0.000	0.000	✓
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Material Used: Metals Blank - water - total

Date Acquired: Jul 28, 2005

Acquired By: Marie England



Quality Control

Norwest Labs
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Name: Lupin Mine
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Metals Total (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Iron	mg/L	0.8	0.8	15.0	0.2	✓
Manganese	mg/L	0.980	0.975	15.000	0.010	✓
Silicon	mg/L	6.79	6.78	15.00	0.10	✓
Sulfur	mg/L	91.8	92.6	15.0	0.1	✓
Mercury	mg/L	0.0001	0.0002	9.9900	0.0003	✓
Aluminum	ug/L	48	48	15	11	✓
Antimony	ug/L	0.6	0.7	15.0	0.4	✓
Arsenic	ug/L	877	862	15.0	0.4	✓
Barium	ug/L	26	25	15	2	✓
Beryllium	ug/L	1.6	1.6	15.0	0.2	✓
Bismuth	ug/L	<0.5	<0.5	15.0	1.1	✓
Boron	ug/L	41	40	15	4	✓
Cadmium	ug/L	3.07	3.09	15.00	0.02	✓
Chromium	ug/L	67.2	67.6	15.0	1.1	✓
Cobalt	ug/L	762	754	15.0	0.2	✓
Copper	ug/L	221	220	15	2	✓
Lead	ug/L	33.8	33.0	15.0	0.2	✓
Lithium	ug/L	4	4	15	2	✓
Molybdenum	ug/L	1	1	15	2	✓
Nickel	ug/L	2090	2070	15.0	1.1	✓
Selenium	ug/L	1.2	1.4	15.0	0.4	✓
Silver	ug/L	0.2	0.2	15.0	0.2	✓
Strontium	ug/L	91	91	15	2	✓
Thallium	ug/L	0.35	0.35	15.00	0.11	✓
Tin	ug/L	<1	<1	15	2	✓
Titanium	ug/L	907	891	15.0	1.1	✓
Uranium	ug/L	5.8	5.8	15.0	1.1	✓
Vanadium	ug/L	44.2	44.4	15.0	0.2	✓
Zinc	ug/L	645	644	15	2	✓

Material Used: Edmonton Duplicate

Date Acquired: Jul 21, 2005

Acquired By: Fernando Maglalang

Mercury	ug/L	<0.02	<0.02	30.000	0.050	✓
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Material Used: Metals Int. Duplicate - water tot

Date Acquired: Jul 28, 2005

Acquired By: Marie England



Quality Control

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Attn: Michael Tansey
Sampled By: Steve Schlesak
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Project
ID:
Name: Lupin Mine
Location: Nunavut
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P.O.:
Acct. Code:

NWL Lot ID: 396502
Control Number:
Date Received: Jul 21, 2005
Date Reported: Aug 02, 2005
Report Number: 724749

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Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Iron	mg/L	2.0	2.0	1.8	2.2	✓
Manganese	mg/L	0.490	0.500	0.450	0.550	✓
Silicon	mg/L	5.11	5.00	4.50	5.50	✓
Sulfur	mg/L	9.7	10.0	9.0	11.0	✓
Mercury	mg/L	0.0007	0.0008	0.0007	0.0010	✓
Aluminum	ug/L	314	322	273	371	✓
Antimony	ug/L	12.1	11.5	10.2	12.8	✓
Arsenic	ug/L	12.2	11.5	10.3	12.7	✓
Barium	ug/L	63	61	52	69	✓
Beryllium	ug/L	5.9	5.9	4.9	7.0	✓
Bismuth	ug/L	31.2	30.2	26.0	34.4	✓
Boron	ug/L	124	125	102	148	✓
Cadmium	ug/L	0.67	0.63	0.47	0.78	✓
Chromium	ug/L	32.3	31.8	27.5	36.2	✓
Cobalt	ug/L	6.6	6.4	5.4	7.5	✓
Copper	ug/L	62	63	55	70	✓
Lead	ug/L	6.6	6.2	5.4	7.0	✓
Lithium	ug/L	62	65	53	76	✓
Molybdenum	ug/L	62	61	53	69	✓
Nickel	ug/L	31.2	31.4	27.0	35.8	✓
Selenium	ug/L	11.8	11.0	9.7	12.3	✓
Silver	ug/L	6.5	6.2	5.5	7.0	✓
Strontium	ug/L	63	64	55	72	✓
Thallium	ug/L	3.14	3.14	2.56	3.72	✓
Tin	ug/L	60	59	52	66	✓
Titanium	ug/L	31.7	31.5	27.0	36.0	✓
Uranium	ug/L	31.2	30.8	26.9	34.7	✓
Vanadium	ug/L	6.6	6.5	5.4	7.6	✓
Zinc	ug/L	61	59	49	69	✓

Material Used: Edmonton Digestion Check
Date Acquired: Jul 22, 2005
Acquired By: Fernando Maglalana

Iron	mg/L	9.6	10.0	9.0	11.0	✓
Manganese	mg/L	2.32	2.500	2.250	2.750	✓
Silicon	mg/L	24.3	25.00	22.50	27.50	✓
Sulfur	mg/L	49.1	50.0	45.0	55.0	✓
Mercury	mg/L	0.0031	0.0031	0.0027	0.0035	✓

Material Used: Metals High
Date Acquired: Jul 25, 2005
Acquired By: Nicole Sehn



Quality Control

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T5J 2T2
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Sampled By: Steve Schlesak
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NWL Lot ID: 396502
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Date Received: Jul 21, 2005
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Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Iron	mg/L	0.2	0.2	0.2	0.2	✓
Manganese	mg/L	0.051	0.050	0.045	0.055	✓
Silicon	mg/L	0.53	0.50	0.45	0.55	✓
Sulfur	mg/L	0.9	1.0	0.9	1.2	✓
Mercury	mg/L	0.0008	0.0008	-0.0016	0.0032	✓
Aluminum	ug/L	1040	1000	850	1150	✓
Antimony	ug/L	40.3	40.0	34.0	46.0	✓
Arsenic	ug/L	42.5	40.0	34.0	46.0	✓
Barium	ug/L	200	200	170	230	✓
Beryllium	ug/L	19.3	20.0	17.0	23.0	✓
Bismuth	ug/L	97.9	100.0	85.0	115.0	✓
Boron	ug/L	389	400	340	460	✓
Cadmium	ug/L	2.07	2.00	1.70	2.30	✓
Chromium	ug/L	105	100.0	85.0	115.0	✓
Cobalt	ug/L	21.6	20.0	17.0	23.0	✓
Copper	ug/L	204	200	170	230	✓
Lead	ug/L	19.7	20.0	17.0	23.0	✓
Lithium	ug/L	182	200	170	230	✓
Molybdenum	ug/L	200	200	170	230	✓
Nickel	ug/L	104	100.0	85.0	115.0	✓
Selenium	ug/L	41.6	40.0	34.0	46.0	✓
Silver	ug/L	21.4	20.0	17.0	23.0	✓
Strontium	ug/L	203	200	170	230	✓
Thallium	ug/L	10.0	10.00	8.50	11.50	✓
Tin	ug/L	192	200	170	230	✓
Titanium	ug/L	103	100.0	85.0	115.0	✓
Uranium	ug/L	98.4	100.0	85.0	115.0	✓
Vanadium	ug/L	18.8	20.0	17.0	23.0	✓
Zinc	ug/L	211	200	170	230	✓

Material Used: Metals Low
Date Acquired: Jul 22, 2005
Acquired By: Fernando Maglalang



Quality Control

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Location: Nunavut
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NWL Lot ID: 396502
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Date Received: Jul 21, 2005
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Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/L	55	50	43	58	✓
Antimony	uq/L	2.1	2.0	1.7	2.3	✓
Arsenic	uq/L	2.0	2.0	1.7	2.3	✓
Barium	uq/L	10	10	9	12	✓
Beryllium	uq/L	1.0	1.0	0.9	1.2	✓
Bismuth	uq/L	4.9	5.0	4.3	5.8	✓
Boron	uq/L	20	20	17	23	✓
Cadmium	uq/L	0.11	0.10	0.09	0.12	✓
Chromium	uq/L	5.3	5.0	4.3	5.8	✓
Cobalt	uq/L	1.1	1.0	0.9	1.2	✓
Copper	uq/L	11	10	9	12	✓
Lead	uq/L	1	1.0	0.9	1.2	✓
Lithium	uq/L	10	10	9	12	✓
Molybdenum	uq/L	10	10	9	12	✓
Nickel	uq/L	5.0	5.0	4.3	5.8	✓
Selenium	uq/L	2.2	2.0	1.7	2.3	✓
Silver	uq/L	1	1.0	0.9	1.2	✓
Strontium	uq/L	10	10	9	12	✓
Thallium	uq/L	0.52	0.50	0.43	0.58	✓
Tin	uq/L	10	10	9	12	✓
Titanium	uq/L	5.2	5.0	4.3	5.8	✓
Uranium	uq/L	5.1	5.0	4.3	5.8	✓
Vanadium	uq/L	1.0	1.0	0.9	1.2	✓
Zinc	uq/L	10	10	9	12	✓

Material Used: Metals Trace

Date Acquired: Jul 22, 2005

Acquired By: Fernando Maglalang

Mercury	ug/L	0.58	14.000	11.000	17.000	✓
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Material Used: S0102 - Hg

Date Acquired: Jul 28, 2005

Acquired By: