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Teck

January 15, 2011

Nunavut Water Board
Box 119
Gjoa Haven, NU
X0B 0J0

Attention: Phyllis Beaulieu, Manager of Licensing

Indian and Northern Affairs Canada
P.O. Box 100
Building 918
Iqaluit, Nunavut
X0A 0H0

Attention: Jeff Mercer, Manager, Lands Administration

Dear Ms. Beaulieu and Mr. Mercer;

Re: Polaris Mine – 2010 1st and 2nd Decommissioning and Reclamation Monitoring Report (Water Licence #NWB1POL0311)

Please find attached the Polaris Mine 2010 1st and 2nd Quarter decommissioning and reclamation monitoring report.

This report is being emailed to due to the late submission of this report. The translation of the report is not included at this time. Once the translation has been completed, the entire report in paper format complete with a CD containing an electronic copy of the report in pdf format will be mailed to you.

If there are any questions with regard to this report, please contact the undersigned.

Yours truly,



Bruce Donald
Manager, Dormant Properties
Environment and Corporate Affairs
Teck Resources Limited

Enclosures:

- 1st and 2nd Quarter 2010 Decommissioning and Reclamation Report

CC: Ian Parsons, INAC

POLARIS MINE 2010 1ST AND 2ND QUARTER DECOMMISSIONING AND RECLAMATION REPORT

**FOR THE
NUNAVUT WATER BOARD
AND
INDIAN AND NORTHERN AFFAIRS CANADA**



POLARIS MINE
2010 1ST AND 2ND QUARTER
DECOMMISSIONING AND RECLAMATION REPORT

DISTRIBUTION

Nunavut Water Board

- Manager of Licensing - 2 copies

Indian and Northern Affairs Canada

- Manager, Lands Administration – 1 copy

Teck Metals Ltd.

- Manager, Dormant Properties (Kimberley) – 2 copies

POLARIS MINE
2010 1ST AND 2ND QUARTER
DECOMMISSIONING AND RECLAMATION
MONITORING REPORT

LIST OF APPENDICES

APPENDIX 1 – Executive Summary in Inuktitut

APPENDIX 2 - May 28th 2010 Garrow Lake Water Quality and Stratigraphy Monitoring Results

APPENDIX 3 – May 28th 2010 Garrow Lake Field Monitoring Results

APPENDIX 4 – 1st and 2nd Quarter 2010 Expenditure Report

APPENDIX 5 - CD with electronic version (pdf) of the 2010 1st and 2nd Quarter Decommissioning and Reclamation Monitoring Report

2010 POLARIS MINE 1ST AND 2ND QUARTER POST-RECLAMATION MONITORING REPORT

INTRODUCTION

During the 1st Quarter of 2010 the Polaris Mine site remained unoccupied due to winter weather conditions. During the 2nd Quarter, 2010 a monitoring crew was on site for a day. As there was no effluent discharge from Garrow Lake, the only monitoring undertaken was the spring sampling of Garrow Lake. An executive summary of information for the 1st and 2nd Quarter in Inuktitut is provided in Appendix 1.

1st Quarter, 2010

During the 1st Quarter of 2010, the Polaris Mine remained un-occupied by personnel. No monitoring events occurred during the quarter.

The Water Licence requires a mid-winter sampling of Garrow Lake stratigraphy for water quality parameters. At mid-winter the site was not safely accessible. Charter aircraft will not fly to the site due to the dark conditions without the site having runway lighting and visual confirmation from the ground of landing conditions.

There was no data collected of temperature conditions in the Little Red Dog Landfill or the Operational Landfill as there was no one at the site during the quarter. However, data loggers are installed on the thermistors at both landfills so the data is being collected daily over the winter and the data will be retrieved in July and reported in the 2010 3rd quarter monitoring report.

Due to winter conditions at the site throughout the 1st Quarter reporting period, there was no discharge from Garrow Lake and thus there was no effluent discharge to monitor.

Appendix 4 contains a combined 1st Quarter and 2nd Quarter expenditure report. There was no reclamation work conducted at the site during the 1st Quarter so any 1st Quarterly expenditures relate to either late invoicing received for 2009 work. 2nd Quarter costs relate to the spring water column sampling of Garrow Lake.

2nd Quarter, 2010

During the majority of the 2nd Quarter the Polaris Mine site remained un-occupied by personnel. However, monitoring of the water column of Garrow Lake was completed on May 28, 2010 to capture the Maximum Ice Thickness conditions as required by the Water Licence.

There was no effluent flow to monitor from the site during the quarter there is no effluent data to report.

1. Garrow Lake Water Quality and Stratigraphy Monitoring

Please find attached to this report the sample analysis from ALS Laboratories for the May 28th, 2010 sampling event of Garrow Lake (Appendix 2). This represents the Maximum Ice Thickness monitoring event required by the Water Licence. Appendix 3 contains the field data collected with a Hydro-lab sampler which collects water temperature, conductivity, pH, dissolved oxygen, and redox potentials at various depths within the water column.

The data continues to confirm that the stratigraphy of the lake is intact and stable and that zinc concentrations in the water column are low.

2010 POLARIS MINE 1ST AND 2ND QUARTER POST-RECLAMATION MONITORING REPORT

2. Notification of Intent to Initiate Planned Discharge of Effluent from the Tailings Impoundment Area (Part D, Section 1)

The date of initiation of effluent discharge is no longer under the control of Teck Cominco as siphoning is no longer required. As part of the approved site decommissioning plan, Garrow Dam was removed in 2004 and discharge from the lake occurs naturally. This normally occurs during early July.

3. Water Quality and Environmental Effects Monitoring Program

There was no effluent discharge from Garrow Lake in the 2nd Quarter.

4. Landfill Temperature Monitoring

Landfill temperature data was not collected during the Quarter as there was only one day where anyone was on site (and were fully occupied collecting Garrow Lake data). As there are data loggers on the landfill thermistors, the data will be collected during the 3rd Quarter and reported at along with the other 3rd Quarter data collected.

5. Quarterly Expenditure Reports

Appendix 4 contains a combined expenditure report for the 1st and 2nd Quarter of 2010. The only work undertaken during the quarter was the mid-winter sampling of Garrow Lake.

Electronic File of Report

Refer to Appendix 5 for an electronic copy of this report in pdf format.

APPENDIX 1

EXECUTIVE SUMMARY OF 1ST AND 2ND QUARTER 2010

POLARIS MINE POST RECLAMATION MONITORING

REPORT

TRANSLATED INTO INUKTITUT

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[illegible]

APPENDIX 2

May 28th, 2010 GARROW LAKE

WATER QUALITY AND STRATIGRAPHY

MONITORING RESULTS

Your Project #: TC10-01 POLARIS MINE,GARROW LK
Site: LITTLE CORNWALLIS ISL, NU
Your C.O.C. #: 08317289, 08317290, 08317291, 08317292,
08317293

Attention: Randy Baker
AZIMUTH CONSULTING GROUP
218 - 2902 WEST BROADWAY
VANCOUVER, BC
CANADA V6K 2G8

Report Date: 2010/07/05

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B039605

Received: 2010/06/01, 10:00

Sample Matrix: Sea Water
Samples Received: 44

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	21	2010/06/11	2010/10/06	BRN SOP-00264 R4.0	Based on SM2320B
Alkalinity - Water	21	2010/06/11	2010/11/06	BRN SOP-00264 R4.0	Based on SM2320B
Alkalinity - Water	2	2010/06/30	2010/06/29	BRN SOP-00264 R4.0	Based on SM2320B
Cyanide (Total)	9	N/A	2010/06/04	BRN SOP-00226 R2.0	Based on EPA 9012AR1
Conductance - water	3	N/A	2010/06/29	BRN SOP-00264 R2.0	Based on SM-2510B
Conductance - water	21	N/A	2010/10/06	BRN SOP-00264 R2.0	Based on SM-2510B
Conductance - water	20	N/A	2010/11/06	BRN SOP-00264 R2.0	Based on SM-2510B
Hardness (calculated as CaCO3)	44	N/A	2010/06/14		
Elements by ICP-AES (dissolved)	44	N/A	2010/06/14	65-S-60	Based on EPA 200.7
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2010/06/15	BRN SOP-00206	Based on EPA 200.8
Na, K, Ca, Mg, S by CRC ICPMS (total)	40	N/A	2010/06/16	BRN SOP-00206	Based on EPA 200.8
Metals by Chelation CRC ICPMS (tot)	4	N/A	2010/06/17	BRN SOP-00206	Based on EPA 200.8
Metals by Chelation CRC ICPMS (tot)	11	N/A	2010/06/23	BRN SOP-00206	Based on EPA 200.8
Metals by Chelation CRC ICPMS (tot)	29	N/A	2010/06/24	BRN SOP-00206	Based on EPA 200.8
Elements by CRC ICPMS (total) - Seawater	4	N/A	2010/06/14	BRN SOP-00206 R7.0	Based on EPA 200.8
Elements by CRC ICPMS (total) - Seawater	40	N/A	2010/06/15	BRN SOP-00206 R7.0	Based on EPA 200.8
Filter and HNO3 Preserve for Metals	44	N/A	2010/06/04	BRN WI-00006 R1.0	Based on EPA 200.2
pH Water	22	N/A	2010/10/06	BRN SOP-00264 R4.0	Based on SM-4500H+B
pH Water	22	N/A	2010/11/06	BRN SOP-00264 R4.0	Based on SM-4500H+B
Salinity by Conductivity Method	44	2010/06/11	2010/06/10		Based on SMAA 2520B
Sulphide	13	N/A	2010/06/07	BRN SOP-00228 R5.0	SM - 4500 S2 D
Total Suspended Solids-LowLevel	41	N/A	2010/06/04	BRN SOP-00277 R5.0	Based on SM-2540 D

* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ROB MACARTHUR, BBY Customer Service
Email: rob.macarthur@maxxamanalytics.com
Phone# (604) 639-8431

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

RESULTS OF CHEMICAL ANALYSES OF SEA WATER

Maxxam ID		U50316	U50317	U50318	U50319	U50320	U50321	U50322	U50323	U50324		
Sampling Date		2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28		
	Units	GLS-2M	GLS-3M	GLS-4M	GLS-5M	GLS-6M	GLS-7M	GLS-8M	GLS-9M	GLS-10M	RDL	QC Batch
Calculated Parameters												
Filter and HNO3 Preservation	N/A	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	N/A	ONSITE
Misc. Inorganics												
Cyanide + Thiocyanate	mg/L	<0.0005	<0.0005		<0.0005					<0.0005	0.0005	4008199
Dissolved Hardness (CaCO3)	mg/L	1960	1970	1980	1950	1940	1970	1900	2100	6500	0.5	4002499
Salinity	g/L	9.72	9.72	9.73	9.70	9.71	9.81	9.73	10.3	32.0	0.01	4022820
Alkalinity (Total as CaCO3)	mg/L	150	150	150	150	150	150	150	150	220	0.5	4022806
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
Bicarbonate (HCO3)	mg/L	180	180	190	190	190	180	180	180	270	0.5	4022806
Carbonate (CO3)	mg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
Hydroxide (OH)	mg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
MISCELLANEOUS												
Sulphide	mg/L					<0.005					0.005	4010858
Physical Properties												
Conductivity	uS/cm	16200	16200	16200	16200	16200	16400	16300	17100	47900	1	4022818
pH	pH Units	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.8		4022819
Physical Properties												
Total Suspended Solids	mg/L	2	1	<1	1	<1	1	1	1	3	1	4005135

N/A = Not Applicable

RDL = Reportable Detection Limit

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

RESULTS OF CHEMICAL ANALYSES OF SEA WATER

Maxxam ID		U50325	U50326	U50327		U50340	U50341	U50342	U50343	U50344	U50345		
Sampling Date		2010/05/28	2010/05/28	2010/05/28		2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28		
	Units	GLS-11M	GLS-12M	GLS-13M	RDL	GLS-14M	GLS-15M	GLS-16M	GLS-17M	GLS-18M	GLS-19M	RDL	QC Batch
Calculated Parameters													
Filter and HNO3 Preservation	N/A	LAB	LAB	LAB	N/A	LAB	LAB	LAB	LAB	LAB	LAB	N/A	ONSITE
Misc. Inorganics													
Cyanide + Thiocyanate	mg/L				0.0005	0.96						0.05	4008199
Dissolved Hardness (CaCO3)	mg/L	11000	11300	11400	0.5	11300	11300	11000	10700	10900	10900	0.5	4002499
Salinity	g/L	58.7	62.4	63.2	0.01	63.4	63.7	63.3	63.6	63.6	63.5	0.01	4022820
Alkalinity (Total as CaCO3)	mg/L	400	430	430	0.5	430	440	430	430	440	450	0.5	4022806
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
Bicarbonate (HCO3)	mg/L	490	520	520	0.5	530	540	530	520	530	550	0.5	4022806
Carbonate (CO3)	mg/L	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
Hydroxide (OH)	mg/L	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
MISCELLANEOUS													
Sulphide	mg/L				0.005	0.009					0.149	0.005	4010858
Physical Properties													
Conductivity	uS/cm	81600	86000	87000	1	87200	87600	87100	87500	87500	87300	1	4022818
pH	pH Units	7.8	7.8	7.8		7.8	7.8	7.8	7.8	7.9	7.7		4022819
Physical Properties													
Total Suspended Solids	mg/L	2	6	4	1	26	8	5	14	7	7	1	4005135

N/A = Not Applicable

RDL = Reportable Detection Limit

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

RESULTS OF CHEMICAL ANALYSES OF SEA WATER

Maxxam ID		U50346		U50354	U50355	U50356	U50357	U50358	U50359	U50360	U50361		
Sampling Date		2010/05/28		2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28		
	Units	GLS-20M	RDL	GLC-2M	GLC-3M	GLC-4M	GLC-5M	GLC-6M	GLC-7M	GLC-8M	GLC-9M	RDL	QC Batch
Calculated Parameters													
Filter and HNO3 Preservation	N/A	LAB	N/A	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	N/A	ONSITE
Misc. Inorganics													
Cyanide + Thiocyanate	mg/L		0.05	<0.0005	<0.0005		<0.0005					0.0005	4008199
Dissolved Hardness (CaCO3)	mg/L	10800	0.5	1880	1860	1820	1830	1820	1840	1810	1840	0.5	4002499
Salinity	g/L	63.6	0.01	9.74	9.73	9.75	9.71	9.68	9.76	9.71	9.97	0.01	4022820
Alkalinity (Total as CaCO3)	mg/L	430	0.5	150	150	150	150	150	150	150	150	0.5	4022806
Alkalinity (PP as CaCO3)	mg/L	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
Bicarbonate (HCO3)	mg/L	530	0.5	180	190	180	180	180	180	180	180	0.5	4022806
Carbonate (CO3)	mg/L	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
Hydroxide (OH)	mg/L	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
MISCELLANEOUS													
Sulphide	mg/L	0.133	0.005					<0.005				0.005	4010858
Physical Properties													
Conductivity	uS/cm	87500	1	16300	16200	16300	16200	16200	16300	16200	16600	1	4022818
pH	pH Units	7.8		8.2	8.3	8.2	8.2	8.1	8.2	8.2	8.1		4022819
Physical Properties													
Total Suspended Solids	mg/L	4	1	3	<1	1	<1	<1	1	<1	1	1	4005135

N/A = Not Applicable

RDL = Reportable Detection Limit

Maxxam Job #: B039605

Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP

Client Project #: TC10-01 POLARIS MINE, GARROW LK

Site Reference: LITTLE CORNWALLIS ISL, NU

Sampler Initials: CR

RESULTS OF CHEMICAL ANALYSES OF SEA WATER

Maxxam ID		U50362	U50363	U50364	U50365	U50387	U50388	U50389	U50390		
Sampling Date		2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28		
	Units	GLC-10M	GLC-11M	GLC-12M	GLC-13M	GLC-14M	GLC-15M	GLC-16M	GLC-17M	RDL	QC Batch
Calculated Parameters											
Filter and HNO3 Preservation	N/A	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	N/A	ONSITE
Misc. Inorganics											
Cyanide + Thiocyanate	mg/L	<0.0005								0.0005	4008199
Dissolved Hardness (CaCO3)	mg/L	2340	9740	10200	11200	10800	10900	10100	9600	0.5	4002499
Salinity	g/L	13.2	54.9	62.3	63.0	63.5	63.5	63.5	63.3	0.01	4022820
Alkalinity (Total as CaCO3)	mg/L	150	380	420	430	440	440	440	430	0.5	4022806
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
Bicarbonate (HCO3)	mg/L	190	460	520	530	530	530	530	530	0.5	4022806
Carbonate (CO3)	mg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
Hydroxide (OH)	mg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4022806
MISCELLANEOUS											
Sulphide	mg/L					0.007				0.005	4010858
Physical Properties											
Conductivity	uS/cm	21400	77200	85900	86800	87400	87300	87400	87100	1	4022818
pH	pH Units	8.1	7.8	7.8	7.8	7.9	7.9	7.8	7.8		4022819
Physical Properties											
Total Suspended Solids	mg/L	1	5	5	13	11	12	13	6	1	4005135

N/A = Not Applicable

RDL = Reportable Detection Limit

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

RESULTS OF CHEMICAL ANALYSES OF SEA WATER

Maxxam ID		U50391	U50392	U50393	U50394		U50395		
Sampling Date		2010/05/28	2010/05/28	2010/05/28	2010/05/28		2010/05/28		
	Units	GLC-18M	GLC-19M	GLC-20M	GLC-22M	RDL	GLC-30M	RDL	QC Batch
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	LAB	LAB	LAB	N/A	LAB	N/A	ONSITE
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	11000	10400	10100	9790	0.5	9970	0.5	4002499
Salinity	g/L	63.5	63.5	63.6	63.6	0.01	63.4	0.01	4022820
Alkalinity (Total as CaCO3)	mg/L	440	440	430	440	0.5	430	0.5	4022806
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	0.5	4022806
Bicarbonate (HCO3)	mg/L	540	530	530	530	0.5	530	0.5	4022806
Carbonate (CO3)	mg/L	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	0.5	4022806
Hydroxide (OH)	mg/L	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	0.5	4022806
MISCELLANEOUS									
Sulphide	mg/L			0.107	0.136	0.005	1.20	0.03	4010858
Physical Properties									
Conductivity	uS/cm	87400	87300	87500	87500	1	87200	1	4022818
pH	pH Units	7.9	7.8	7.8	7.9		7.8		4022819
Physical Properties									
Total Suspended Solids	mg/L	5	4	5	5	1	52	1	4005135

N/A = Not Applicable

RDL = Reportable Detection Limit

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

RESULTS OF CHEMICAL ANALYSES OF SEA WATER

Maxxam ID		U50396			U50402	U50403		U50404		
Sampling Date		2010/05/28			2010/05/28	2010/05/28		2010/05/28		
	Units	GLC-38M	RDL	QC Batch	TB	FB-GL-2	QC Batch	EB-GL-1	RDL	QC Batch
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB	N/A	ONSITE	LAB	LAB	ONSITE	LAB	N/A	ONSITE
Misc. Inorganics										
Dissolved Hardness (CaCO3)	mg/L	10600	0.5	4002499	<0.5	7.4	4002499	1.8	0.5	4002499
Salinity	g/L	65.0	0.01	4022820	<0.01	1.28	4022820	0.01	0.01	4022820
Alkalinity (Total as CaCO3)	mg/L	420	0.5	4022806	1.4	16	4068513	0.9	0.5	4022806
Alkalinity (PP as CaCO3)	mg/L	<0.5	0.5	4022806	<0.5	<0.5	4068513	<0.5	0.5	4022806
Bicarbonate (HCO3)	mg/L	510	0.5	4022806	1.7	20	4068513	1.1	0.5	4022806
Carbonate (CO3)	mg/L	<0.5	0.5	4022806	<0.5	<0.5	4068513	<0.5	0.5	4022806
Hydroxide (OH)	mg/L	<0.5	0.5	4022806	<0.5	<0.5	4068513	<0.5	0.5	4022806
MISCELLANEOUS										
Sulphide	mg/L	2.09	0.05	4010858	<0.005	0.006	4010858	<0.005	0.005	4010858
Physical Properties										
Conductivity	uS/cm	89100	1	4022818	1	2430	4068511	18	1	4068511
pH	pH Units	7.8		4022819	6.3	7.5	4022819	5.9		4022819
Physical Properties										
Total Suspended Solids	mg/L	5	1	4005135						

N/A = Not Applicable

RDL = Reportable Detection Limit

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (SEA WATER)

Maxxam ID		U50316	U50317	U50318	U50319		U50320	U50321	U50322	U50323	U50324		
Sampling Date		2010/05/28	2010/05/28	2010/05/28	2010/05/28		2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28		
	Units	GLS-2M	GLS-3M	GLS-4M	GLS-5M	QC Batch	GLS-6M	GLS-7M	GLS-8M	GLS-9M	GLS-10M	RDL	QC Batch
Dissolved Metals by ICP													
Dissolved Calcium (Ca)	mg/L	168	169	170	168	4027210	167	170	164	176	433	0.05	4027210
Dissolved Magnesium (Mg)	mg/L	374	376	378	372	4027210	369	376	361	403	1320	0.05	4027210
Total Metals by ICPMS													
Total Aluminum (Al)	ug/L	93	<10	16	13	4015290	12	15	<10	<10	<10	10	4015290
Total Antimony (Sb)	ug/L	<0.5	<0.5	<0.5	<0.5	4015290	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4015290
Total Arsenic (As)	ug/L	<0.5	<0.5	<0.5	<0.5	4015290	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4015290
Total Barium (Ba)	ug/L	100	100	101	99	4015290	103	101	100	102	68	1	4015290
Total Beryllium (Be)	ug/L	<1	<1	<1	<1	4015290	<1	<1	<1	<1	<1	1	4015290
Total Bismuth (Bi)	ug/L	<1	<1	<1	<1	4015290	<1	<1	<1	<1	<1	1	4015290
Total Boron (B)	ug/L	1080	1080	1080	1090	4015290	1130	1110	1150	1200	3850	50	4015290
Total Cadmium (Cd)	ug/L	0.64	0.61	0.63	0.61	4020354	0.62	0.63	0.63	0.67	1.25	0.01	4036461
Total Chromium (Cr)	ug/L	0.6	<0.5	<0.5	<0.5	4015290	<0.5	<0.5	<0.5	<0.5	0.6	0.5	4015290
Total Cobalt (Co)	ug/L	0.06	0.05	0.05	<0.05	4020354	0.05	0.05	<0.05	0.10	0.69	0.05	4036461
Total Copper (Cu)	ug/L	3.63	1.48	1.65	1.45	4020354	1.38	1.31	1.32	1.48	2.31	0.05	4036461
Total Iron (Fe)	ug/L	25	7	15	8	4020354	8	7	6	7	8	1	4036461
Total Lead (Pb)	ug/L	5.02	0.44	1.25	0.72	4020354	0.61	0.22	0.12	0.31	0.42	0.05	4036461
Total Lithium (Li)	ug/L	86	86	87	88	4015290	89	88	89	95	256	20	4015290
Total Manganese (Mn)	ug/L	7.0	6.9	6.8	6.7	4020354	6.6	6.7	7.7	16.5	88.1	0.2	4036461
Total Nickel (Ni)	ug/L	5.79	5.81	5.73	5.65	4020354	5.34	5.40	5.57	5.66	8.64	0.05	4036461
Total Molybdenum (Mo)	ug/L	3	3	3	3	4015290	3	3	3	4	6	1	4015290
Total Phosphorus (P)	ug/L	123	55	85	68	4015290	<50	<50	107	114	119	50	4015290
Total Selenium (Se)	ug/L	<0.5	<0.5	<0.5	<0.5	4015290	<0.5	<0.5	<0.5	<0.5	0.7	0.5	4015290
Total Silicon (Si)	ug/L	1000	1020	1070	1050	4015290	1080	1070	1090	1190	6540	100	4015290
Total Silver (Ag)	ug/L	<0.05	<0.05	<0.05	<0.05	4015290	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4015290
Total Strontium (Sr)	ug/L	3500	3490	3570	3520	4015290	3640	3560	3550	3790	11500	10	4015290
Total Thallium (Tl)	ug/L	0.1	0.1	<0.1	0.1	4015290	0.1	<0.1	0.1	<0.1	<0.1	0.1	4015290
Total Tin (Sn)	ug/L	<1	<1	<1	<1	4015290	<1	<1	<1	<1	<1	1	4015290
Total Titanium (Ti)	ug/L	<10	<10	<10	<10	4015290	<10	<10	<10	<10	<10	10	4015290
Total Zinc (Zn)	ug/L	261	263	261	258	4020354	249	251	261	277	685	0.5	4036461
Total Uranium (U)	ug/L	1.71	1.64	1.64	1.69	4015290	1.68	1.59	1.71	1.74	3.46	0.05	4015290
Total Vanadium (V)	ug/L	<10	<10	<10	<10	4015290	<10	<10	<10	<10	<10	10	4015290
Total Calcium (Ca)	mg/L	192	191	200	193	4002092	199	201	204	201	522	1	4002092
Total Magnesium (Mg)	mg/L	486	479	513	474	4002092	493	497	510	527	1760	1	4002092
Total Potassium (K)	mg/L	107	105	113	104	4002092	107	109	112	118	354	1	4002092
Total Sodium (Na)	mg/L	3080	3020	3210	3000	4002092	3090	3110	3220	3340	10200	1	4002092
Total Sulphur (S)	mg/L	354	356	379	349	4002092	363	367	377	384	1350	20	4002092

RDL = Reportable Detection Limit

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (SEA WATER)

Maxxam ID		U50325	U50326	U50327	U50340	U50341	U50342	U50343	U50344	U50345	U50346		
Sampling Date		2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28		
	Units	GLS-11M	GLS-12M	GLS-13M	GLS-14M	GLS-15M	GLS-16M	GLS-17M	GLS-18M	GLS-19M	GLS-20M	RDL	QC Batch
Dissolved Metals by ICP													
Dissolved Calcium (Ca)	mg/L	716	728	731	725	737	718	710	718	714	714	0.05	4027210
Dissolved Magnesium (Mg)	mg/L	2230	2310	2330	2300	2300	2240	2180	2200	2210	2200	0.05	4027210
Total Metals by ICPMS													
Total Aluminum (Al)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	4015290
Total Antimony (Sb)	ug/L	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4015290
Total Arsenic (As)	ug/L	1.1	1.5	1.5	1.4	1.3	1.1	1.3	1.4	0.9	1.4	0.5	4015290
Total Barium (Ba)	ug/L	53	53	58	56	61	57	57	56	55	57	1	4015290
Total Beryllium (Be)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	4015290
Total Bismuth (Bi)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	4015290
Total Boron (B)	ug/L	6560	6830	7320	7070	7410	7080	7000	7000	6890	7360	50	4015290
Total Cadmium (Cd)	ug/L	0.26	0.03	0.03	0.01	0.01	<0.01	0.01	0.01	<0.01	<0.01	0.01	4036461
Total Chromium (Cr)	ug/L	0.8	1.1	1.5	1.3	1.3	1.4	1.2	1.4	1.3	1.2	0.5	4015290
Total Cobalt (Co)	ug/L	1.52	1.51	1.28	0.80	0.84	0.75	0.76	0.73	0.78	0.73	0.05	4036461
Total Copper (Cu)	ug/L	1.54	1.02	0.52	0.88	0.47	0.38	0.39	0.29	0.27	0.30	0.05	4036461
Total Iron (Fe)	ug/L	30	56	389	395	439	471	408	380	397	367	1	4036461
Total Lead (Pb)	ug/L	0.58	0.41	0.61	0.52	0.53	0.49	0.51	0.35	0.26	0.26	0.05	4036461
Total Lithium (Li)	ug/L	417	426	468	428	462	437	436	436	416	457	20	4015290
Total Manganese (Mn)	ug/L	158	146	130	116	121	116	115	115	117	113	0.2	4036461
Total Nickel (Ni)	ug/L	9.35	8.36	6.66	5.28	5.20	5.01	4.90	4.80	4.67	4.83	0.05	4036461
Total Molybdenum (Mo)	ug/L	5	6	5	5	5	5	5	5	5	5	1	4015290
Total Phosphorus (P)	ug/L	92	228	484	95	83	99	<50	219	127	204	50	4015290
Total Selenium (Se)	ug/L	1.9	1.1	1.4	1.6	1.7	2.1	1.8	1.9	1.6	1.7	0.5	4015290
Total Silicon (Si)	ug/L	15000	17300	17800	17900	18000	17900	17600	18100	17500	17700	100	4015290
Total Silver (Ag)	ug/L	0.08	0.08	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4015290
Total Strontium (Sr)	ug/L	19000	19700	21000	20300	21500	20200	20000	20000	19400	20800	10	4015290
Total Thallium (Tl)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4015290
Total Tin (Sn)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	4015290
Total Titanium (Ti)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	4015290
Total Zinc (Zn)	ug/L	207	21.5	16.1	9.0	8.2	7.8	7.6	6.5	4.7	4.9	0.5	4036461
Total Uranium (U)	ug/L	7.00	7.43	8.18	7.66	8.24	7.90	7.78	7.57	7.32	8.06	0.05	4015290
Total Vanadium (V)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	4015290
Total Calcium (Ca)	mg/L	876	949	957	938	943	940	932	945	922	930	1	4002092
Total Magnesium (Mg)	mg/L	3020	3260	3780	3170	3160	3210	3180	3510	3190	3410	1	4002092
Total Potassium (K)	mg/L	661	759	888	751	760	765	766	826	767	799	1	4002092
Total Sodium (Na)	mg/L	17800	19800	22900	19500	<1	<1	<1	<1	<1	20900	1	4002092
Total Sulphur (S)	mg/L	2330	2440	2920	2310	2350	2380	2320	2550	2360	2480	20	4002092

RDL = Reportable Detection Limit

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (SEA WATER)

Maxxam ID		U50354		U50355	U50356		U50357	U50358		U50359	U50360		
Sampling Date		2010/05/28		2010/05/28	2010/05/28		2010/05/28	2010/05/28		2010/05/28	2010/05/28		
	Units	GLC-2M	QC Batch	GLC-3M	GLC-4M	QC Batch	GLC-5M	GLC-6M	QC Batch	GLC-7M	GLC-8M	RDL	QC Batch
Dissolved Metals by ICP													
Dissolved Calcium (Ca)	mg/L	163	4027210	162	158	4027210	159	159	4027230	161	159	0.05	4027230
Dissolved Magnesium (Mg)	mg/L	357	4027210	353	346	4027210	347	345	4027230	349	344	0.05	4027230
Total Metals by ICPMS													
Total Aluminum (Al)	ug/L	103	4015290	<10	<10	4015776	<10	<10	4015776	<10	<10	10	4015776
Total Antimony (Sb)	ug/L	<0.5	4015290	<0.5	<0.5	4015776	<0.5	<0.5	4015776	<0.5	<0.5	0.5	4015776
Total Arsenic (As)	ug/L	<0.5	4015290	<0.5	<0.5	4015776	<0.5	<0.5	4015776	<0.5	<0.5	0.5	4015776
Total Barium (Ba)	ug/L	101	4015290	102	100	4015776	98	99	4015776	97	101	1	4015776
Total Beryllium (Be)	ug/L	<1	4015290	<1	<1	4015776	<1	<1	4015776	<1	<1	1	4015776
Total Bismuth (Bi)	ug/L	<1	4015290	<1	<1	4015776	<1	<1	4015776	<1	<1	1	4015776
Total Boron (B)	ug/L	1240	4015290	1090	1060	4015776	1070	1080	4015776	1080	1080	50	4015776
Total Cadmium (Cd)	ug/L	0.77	4036461	0.62	0.61	4036461	0.62	0.60	4036461	0.62	0.62	0.01	4050377
Total Chromium (Cr)	ug/L	<0.5	4015290	<0.5	<0.5	4015776	<0.5	<0.5	4015776	<0.5	<0.5	0.5	4015776
Total Cobalt (Co)	ug/L	0.08	4036461	0.05	0.05	4036461	0.05	0.07	4036461	0.05	<0.05	0.05	4050377
Total Copper (Cu)	ug/L	3.96	4036461	1.14	1.14	4036461	1.17	1.13	4036461	1.00	1.07	0.05	4050377
Total Iron (Fe)	ug/L	77	4036461	8	7	4036461	6	7	4036461	6	6	1	4050377
Total Lead (Pb)	ug/L	42.0	4036461	0.15	0.17	4036461	0.20	0.12	4036461	0.13	0.08	0.05	4050377
Total Lithium (Li)	ug/L	84	4015290	93	86	4015776	87	87	4015776	87	88	20	4015776
Total Manganese (Mn)	ug/L	8.1	4036461	6.6	6.6	4036461	6.6	6.4	4036461	6.4	6.6	0.2	4050377
Total Nickel (Ni)	ug/L	5.97	4036461	5.54	5.53	4036461	5.45	5.36	4036461	5.32	5.48	0.05	4050377
Total Molybdenum (Mo)	ug/L	3	4015290	3	3	4015776	3	3	4015776	3	3	1	4015776
Total Phosphorus (P)	ug/L	<50	4015290	96	78	4015776	91	59	4015776	89	142	50	4015776
Total Selenium (Se)	ug/L	<0.5	4015290	<0.5	<0.5	4015776	<0.5	<0.5	4015776	<0.5	<0.5	0.5	4015776
Total Silicon (Si)	ug/L	971	4015290	924	932	4015776	983	998	4015776	989	970	100	4015776
Total Silver (Ag)	ug/L	<0.05	4015290	<0.05	<0.05	4015776	<0.05	<0.05	4015776	<0.05	<0.05	0.05	4015776
Total Strontium (Sr)	ug/L	3490	4015290	3600	3530	4015776	3520	3470	4015776	3430	3510	10	4015776
Total Thallium (Tl)	ug/L	0.1	4015290	0.1	0.1	4015776	0.1	<0.1	4015776	<0.1	0.1	0.1	4015776
Total Tin (Sn)	ug/L	<1	4015290	<1	<1	4015776	<1	<1	4015776	<1	<1	1	4015776
Total Titanium (Ti)	ug/L	<10	4015290	<10	<10	4015776	<10	<10	4015776	<10	<10	10	4015776
Total Zinc (Zn)	ug/L	261	4036461	246	251	4036461	256	253	4036461	246	254	0.5	4050377
Total Uranium (U)	ug/L	1.69	4015290	1.66	1.61	4015776	1.63	1.59	4015776	1.52	1.62	0.05	4015776
Total Vanadium (V)	ug/L	<10	4015290	<10	<10	4015776	<10	<10	4015776	<10	<10	10	4015776
Total Calcium (Ca)	mg/L	184	4002092	193	185	4002092	186	188	4002092	184	190	1	4002092
Total Magnesium (Mg)	mg/L	447	4002092	489	477	4002092	473	483	4002092	474	493	1	4002092
Total Potassium (K)	mg/L	99	4002092	106	107	4002092	105	106	4002092	104	108	1	4002092
Total Sodium (Na)	mg/L	3010	4002092	3090	3020	4002092	2970	3030	4002092	2980	3070	1	4002092
Total Sulphur (S)	mg/L	316	4002092	358	359	4002092	351	378	4002092	363	370	20	4002092

RDL = Reportable Detection Limit

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (SEA WATER)

Maxxam ID		U50361	U50362	U50363	U50364	U50365	U50387	U50388	U50389	U50390	U50391		
Sampling Date		2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28	2010/05/28		
	Units	GLC-9M	GLC-10M	GLC-11M	GLC-12M	GLC-13M	GLC-14M	GLC-15M	GLC-16M	GLC-17M	GLC-18M	RDL	QC Batch
Dissolved Metals by ICP													
Dissolved Calcium (Ca)	mg/L	160	190	651	680	718	715	717	673	651	731	0.05	4027230
Dissolved Magnesium (Mg)	mg/L	351	454	1970	2050	2280	2200	2200	2030	1940	2220	0.05	4027230
Total Metals by ICPMS													
Total Aluminum (Al)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	4015776
Total Antimony (Sb)	ug/L	<0.5	<0.5	0.7	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4015776
Total Arsenic (As)	ug/L	<0.5	<0.5	1.1	1.3	0.9	1.4	1.2	1.2	1.3	1.1	0.5	4015776
Total Barium (Ba)	ug/L	95	99	51	55	55	58	59	61	59	57	1	4015776
Total Beryllium (Be)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	4015776
Total Bismuth (Bi)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	4015776
Total Boron (B)	ug/L	1080	1630	6370	7340	7050	7210	7510	7540	7380	7020	50	4015776
Total Cadmium (Cd)	ug/L	0.64	0.74	0.42	0.04	0.02	0.01	<0.01	0.01	0.01	0.01	0.01	4050377
Total Chromium (Cr)	ug/L	<0.5	<0.5	0.8	1.2	1.3	1.7	1.8	1.5	1.6	1.3	0.5	4015776
Total Cobalt (Co)	ug/L	0.10	0.11	1.47	1.69	1.39	0.86	0.85	0.85	0.77	0.76	0.05	4050377
Total Copper (Cu)	ug/L	1.13	1.35	1.09	0.58	0.31	1.56	0.27	0.96	0.28	0.20	0.05	4050377
Total Iron (Fe)	ug/L	7	7	30	37	330	425	444	454	425	376	1	4050377
Total Lead (Pb)	ug/L	0.09	0.10	0.48	0.40	0.70	0.47	0.48	0.56	0.49	0.68	0.05	4050377
Total Lithium (Li)	ug/L	86	121	427	463	441	464	467	456	452	430	20	4015776
Total Manganese (Mn)	ug/L	15.1	22.5	157	153	138	118	121	121	119	117	0.2	4050377
Total Nickel (Ni)	ug/L	5.62	5.98	9.83	8.54	6.91	5.62	5.91	5.55	5.53	5.03	0.05	4050377
Total Molybdenum (Mo)	ug/L	3	3	6	6	5	5	6	5	6	5	1	4015776
Total Phosphorus (P)	ug/L	104	76	342	260	247	218	338	82	286	153	50	4015776
Total Selenium (Se)	ug/L	<0.5	<0.5	1.7	1.9	1.2	1.3	1.6	1.8	1.9	1.5	0.5	4015776
Total Silicon (Si)	ug/L	1030	1760	13800	15800	16800	17900	18200	18100	18300	17300	100	4015776
Total Silver (Ag)	ug/L	<0.05	<0.05	0.16	0.14	0.11	0.07	0.07	0.08	0.11	0.09	0.05	4015776
Total Strontium (Sr)	ug/L	3500	4910	18600	20600	19600	20700	21100	21400	21300	20200	10	4015776
Total Thallium (Tl)	ug/L	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4015776
Total Tin (Sn)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	4015776
Total Titanium (Ti)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	4015776
Total Zinc (Zn)	ug/L	272	359	345	34.9	11.5	9.4	9.1	9.3	11.4	7.5	0.5	4050377
Total Uranium (U)	ug/L	1.54	1.83	6.57	7.79	7.08	7.89	7.80	8.05	7.59	7.49	0.05	4015776
Total Vanadium (V)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	4015776
Total Calcium (Ca)	mg/L	188	225	839	906	917	932	937	931	937	921	1	4002092
Total Magnesium (Mg)	mg/L	488	633	3050	3030	3110	3130	3290	3110	3330	3130	1	4002092
Total Potassium (K)	mg/L	109	148	660	726	747	765	802	741	795	752	1	4002092
Total Sodium (Na)	mg/L	3070	4040	17500	<1	<1	<1	<1	<1	<1	<1	1	4002092
Total Sulphur (S)	mg/L	368	479	2570	2470	2350	2440	2510	2350	2550	2360	20	4002092

RDL = Reportable Detection Limit

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (SEA WATER)

Maxxam ID		U50392	U50393	U50394	U50395		U50396	U50402	U50403	U50404		
Sampling Date		2010/05/28	2010/05/28	2010/05/28	2010/05/28		2010/05/28	2010/05/28	2010/05/28	2010/05/28		
	Units	GLC-19M	GLC-20M	GLC-22M	GLC-30M	QC Batch	GLC-38M	TB	FB-GL-2	EB-GL-1	RDL	QC Batch
Dissolved Metals by ICP												
Dissolved Calcium (Ca)	mg/L	696	677	657	666	4027230	694	<0.05	0.78	0.19	0.05	4027230
Dissolved Magnesium (Mg)	mg/L	2110	2040	1980	2020	4027230	2150	<0.05	1.31	0.31	0.05	4027230
Total Metals by ICPMS												
Total Aluminum (Al)	ug/L	<10	<10	<10	27	4015776	10	<10	86	<10	10	4015893
Total Antimony (Sb)	ug/L	<0.5	<0.5	<0.5	<0.5	4015776	<0.5	<0.5	<0.5	<0.5	0.5	4015893
Total Arsenic (As)	ug/L	1.4	1.1	1.8	1.4	4015776	3.4	<0.5	<0.5	<0.5	0.5	4015893
Total Barium (Ba)	ug/L	55	55	58	53	4015776	39	<1	3	<1	1	4015893
Total Beryllium (Be)	ug/L	<1	<1	<1	<1	4015776	<1	<1	<1	<1	1	4015893
Total Bismuth (Bi)	ug/L	<1	<1	<1	<1	4015776	<1	<1	<1	<1	1	4015893
Total Boron (B)	ug/L	6890	6820	7230	6920	4015776	7430	<50	<50	<50	50	4015893
Total Cadmium (Cd)	ug/L	0.02	0.01	<0.01	0.19	4050377	0.02	<0.01	0.06	<0.01	0.01	4050377
Total Chromium (Cr)	ug/L	1.6	1.4	1.6	1.8	4015776		<0.5	<0.5	<0.5	0.5	4015893
Total Cobalt (Co)	ug/L	0.80	0.79	0.78	0.47	4050377	0.09	<0.05	<0.05	<0.05	0.05	4050377
Total Copper (Cu)	ug/L	0.25	0.23	0.15	1.56	4050377	0.24	0.06	2.26	0.49	0.05	4050377
Total Iron (Fe)	ug/L	364	363	389	454	4050377	179	<1	21	3	1	4050377
Total Lead (Pb)	ug/L	0.48	0.49	0.27	59.4	4050377	3.42	<0.05	5.87	0.53	0.05	4050377
Total Lithium (Li)	ug/L	412	421	453	417	4015776	473	<20	<20	<20	20	4015893
Total Manganese (Mn)	ug/L	122	116	118	130	4050377	69.1	<0.2	0.5	<0.2	0.2	4050377
Total Nickel (Ni)	ug/L	5.23	5.02	4.80	2.84	4050377	1.20	0.06	0.49	0.20	0.05	4050377
Total Molybdenum (Mo)	ug/L	5	6	5	2	4015776	1	<1	<1	<1	1	4015893
Total Phosphorus (P)	ug/L	397	134	341	125	4015776		<50	<50	<50	50	4015893
Total Selenium (Se)	ug/L	1.7	2.0	1.9	1.1	4015776	<0.5	<0.5	<0.5	<0.5	0.5	4015893
Total Silicon (Si)	ug/L	18000	17700	18300	17900	4015776	17400	<100	<100	<100	100	4015893
Total Silver (Ag)	ug/L	<0.05	<0.05	0.05	<0.05	4015776	0.20	<0.05	<0.05	<0.05	0.05	4015893
Total Strontium (Sr)	ug/L	19100	19500	20400	19600	4015776	20600	<10	19	<10	10	4015893
Total Thallium (Tl)	ug/L	<0.1	<0.1	<0.1	<0.1	4015776	<0.1	<0.1	<0.1	<0.1	0.1	4015893
Total Tin (Sn)	ug/L	<1	<1	<1	<1	4015776	<1	<1	<1	<1	1	4015893
Total Titanium (Ti)	ug/L	<10	<10	<10	<10	4015776	<10	<10	<10	<10	10	4015893
Total Zinc (Zn)	ug/L	11.8	6.3	5.6	61.4	4050377	8.2	<0.5	9.9	3.3	0.5	4050377
Total Uranium (U)	ug/L	7.47	7.07	7.68	6.28	4015776	2.96	<0.05	<0.05	<0.05	0.05	4015893
Total Vanadium (V)	ug/L	<10	<10	<10	<10	4015776	<10	<10	<10	<10	10	4015893
Total Calcium (Ca)	mg/L	934	925	954	936	4002092	960	<1	1	<1	1	4002092
Total Magnesium (Mg)	mg/L	3420	3140	3340	3130	4002092	3250	<1	2	<1	1	4002092
Total Potassium (K)	mg/L	803	738	812	739	4002092	814	<1	<1	<1	1	4002092
Total Sodium (Na)	mg/L	20800	19100	<1	19100	4002092	<1	4	15	1	1	4002092
Total Sulphur (S)	mg/L	2530	2320	2520	2250	4002092	2650	<20	<20	<20	20	4002092

RDL = Reportable Detection Limit

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
4005135	Total Suspended Solids	2010/06/04			99	80 - 120	<1	mg/L		
4008199	Cyanide + Thiocyanate	2010/06/04	94	80 - 120	80	80 - 120	<0.0005	mg/L	NC	20
4010858	Sulphide	2010/06/07	99	80 - 120	97	80 - 120	<0.005	mg/L	NC	20
4015290	Total Arsenic (As)	2010/06/15	101	75 - 125	100	75 - 125	<0.5	ug/L	NC	25
4015290	Total Barium (Ba)	2010/06/15	NC	75 - 125	97	75 - 125	<1	ug/L	1.0	25
4015290	Total Beryllium (Be)	2010/06/15	95	75 - 125	97	75 - 125	<1	ug/L	NC	25
4015290	Total Chromium (Cr)	2010/06/15	102	75 - 125	99	75 - 125	<0.5	ug/L	NC	25
4015290	Total Lithium (Li)	2010/06/15	NC	75 - 125	92	75 - 125	<20	ug/L	NC	25
4015290	Total Selenium (Se)	2010/06/15	91	75 - 125	95	75 - 125	<0.5	ug/L	NC	25
4015290	Total Titanium (Ti)	2010/06/15	112	75 - 125	107	75 - 125	<10	ug/L	NC	25
4015290	Total Uranium (U)	2010/06/15	108	75 - 125	98	75 - 125	<0.05	ug/L	4.3	25
4015290	Total Vanadium (V)	2010/06/15	99	75 - 125	90	75 - 125	<10	ug/L	NC	25
4015290	Total Strontium (Sr)	2010/06/15			95	75 - 125	<10	ug/L	0.2	25
4015290	Total Aluminum (Al)	2010/06/15					<10	ug/L	1.6	25
4015290	Total Antimony (Sb)	2010/06/15					<0.5	ug/L	NC	25
4015290	Total Bismuth (Bi)	2010/06/15					<1	ug/L	NC	25
4015290	Total Boron (B)	2010/06/15					<50	ug/L	0.6	25
4015290	Total Molybdenum (Mo)	2010/06/15					<1	ug/L	NC	25
4015290	Total Phosphorus (P)	2010/06/15					<50	ug/L	NC	25
4015290	Total Silicon (Si)	2010/06/15					<100	ug/L	0.4	25
4015290	Total Silver (Ag)	2010/06/15					<0.05	ug/L	NC	25
4015290	Total Thallium (Tl)	2010/06/15					<0.1	ug/L	NC	25
4015290	Total Tin (Sn)	2010/06/15					<1	ug/L	NC	25
4015776	Total Arsenic (As)	2010/06/15	98	75 - 125	99	75 - 125	<0.5	ug/L	NC	25
4015776	Total Barium (Ba)	2010/06/15	NC	75 - 125	98	75 - 125	<1	ug/L	1.6	25
4015776	Total Beryllium (Be)	2010/06/15	96	75 - 125	99	75 - 125	<1	ug/L	NC	25
4015776	Total Chromium (Cr)	2010/06/15	101	75 - 125	100	75 - 125	<0.5	ug/L	NC	25
4015776	Total Lithium (Li)	2010/06/15	NC	75 - 125	99	75 - 125	<20	ug/L	NC	25
4015776	Total Selenium (Se)	2010/06/15	96	75 - 125	101	75 - 125	<0.5	ug/L	NC	25
4015776	Total Strontium (Sr)	2010/06/15	NC	75 - 125	95	75 - 125	<10	ug/L	2.4	25
4015776	Total Titanium (Ti)	2010/06/15	105	75 - 125	102	75 - 125	<10	ug/L	NC	25
4015776	Total Uranium (U)	2010/06/15	102	75 - 125	98	75 - 125	<0.05	ug/L	3.6	25
4015776	Total Vanadium (V)	2010/06/15	100	75 - 125	93	75 - 125	<10	ug/L	NC	25
4015776	Total Aluminum (Al)	2010/06/15					<10	ug/L	NC	25
4015776	Total Antimony (Sb)	2010/06/15					<0.5	ug/L	NC	25
4015776	Total Bismuth (Bi)	2010/06/15					<1	ug/L	NC	25
4015776	Total Boron (B)	2010/06/15					<50	ug/L	2.5	25
4015776	Total Molybdenum (Mo)	2010/06/15					<1	ug/L	NC	25
4015776	Total Phosphorus (P)	2010/06/15					<50	ug/L	NC	25
4015776	Total Silicon (Si)	2010/06/15					<100	ug/L	7.3	25

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
4015776	Total Silver (Ag)	2010/06/15					<0.05	ug/L	NC	25
4015776	Total Thallium (Tl)	2010/06/15					<0.1	ug/L	NC	25
4015776	Total Tin (Sn)	2010/06/15					<1	ug/L	NC	25
4015893	Total Arsenic (As)	2010/06/14	100	75 - 125	97	75 - 125	<0.5	ug/L	15.0	25
4015893	Total Barium (Ba)	2010/06/14	103	75 - 125	101	75 - 125	<1	ug/L	0.06	25
4015893	Total Beryllium (Be)	2010/06/14	94	75 - 125	104	75 - 125	<1	ug/L	NC	25
4015893	Total Chromium (Cr)	2010/06/14	105	75 - 125	85	75 - 125	<0.5	ug/L		
4015893	Total Lithium (Li)	2010/06/14	NC	75 - 125	93	75 - 125	<20	ug/L	1.9	25
4015893	Total Selenium (Se)	2010/06/14	89	75 - 125	112	75 - 125	<0.5	ug/L	NC	25
4015893	Total Strontium (Sr)	2010/06/14	NC	75 - 125	95	75 - 125	<10	ug/L	0.5	25
4015893	Total Titanium (Ti)	2010/06/14	121	75 - 125	88	75 - 125	<10	ug/L	NC	25
4015893	Total Uranium (U)	2010/06/14	109	75 - 125	95	75 - 125	<0.05	ug/L	1.2	25
4015893	Total Vanadium (V)	2010/06/14	113	75 - 125	93	75 - 125	<10	ug/L	NC	25
4015893	Total Aluminum (Al)	2010/06/14					<10	ug/L	NC	25
4015893	Total Antimony (Sb)	2010/06/14					<0.5	ug/L	NC	25
4015893	Total Bismuth (Bi)	2010/06/14					<1	ug/L	NC	25
4015893	Total Boron (B)	2010/06/14					<50	ug/L	3.5	25
4015893	Total Molybdenum (Mo)	2010/06/14					<1	ug/L	NC	25
4015893	Total Phosphorus (P)	2010/06/14					<50	ug/L		
4015893	Total Silicon (Si)	2010/06/14					<100	ug/L	0.3	25
4015893	Total Silver (Ag)	2010/06/14					<0.05	ug/L	NC	25
4015893	Total Thallium (Tl)	2010/06/14					<0.1	ug/L	NC	25
4015893	Total Tin (Sn)	2010/06/14					<1	ug/L	NC	25
4020354	Total Cadmium (Cd)	2010/06/17	88	80 - 120	91	80 - 120	<0.01	ug/L	0.2	25
4020354	Total Cobalt (Co)	2010/06/17	106	80 - 120	97	80 - 120	<0.05	ug/L		
4020354	Total Copper (Cu)	2010/06/17	99	80 - 120	106	80 - 120	0.07, RDL=0.05	ug/L	2.6	25
4020354	Total Lead (Pb)	2010/06/17	90	80 - 120	102	80 - 120	<0.05	ug/L	NC	25
4020354	Total Nickel (Ni)	2010/06/17	104	80 - 120	96	80 - 120	<0.05	ug/L	3.7	25
4020354	Total Zinc (Zn)	2010/06/17	92	80 - 120	97	80 - 120	<0.5	ug/L	NC	25
4020354	Total Iron (Fe)	2010/06/17					<1	ug/L	2.1	25
4020354	Total Manganese (Mn)	2010/06/17					<0.2	ug/L		
4022806	Alkalinity (Total as CaCO ₃)	2010/10/06	NC	80 - 120	102	80 - 120	<0.5	mg/L	1.5	20
4022806	Alkalinity (PP as CaCO ₃)	2010/10/06					<0.5	mg/L	NC	20
4022806	Bicarbonate (HCO ₃)	2010/10/06					<0.5	mg/L	1.5	20
4022806	Carbonate (CO ₃)	2010/10/06					<0.5	mg/L	NC	20
4022806	Hydroxide (OH)	2010/10/06					<0.5	mg/L	NC	20
4022818	Conductivity	2010/10/06			99	80 - 120	<1	uS/cm	0.2	20
4022820	Salinity	2010/06/10					<0.01	g/L	0.2	25
4027210	Dissolved Calcium (Ca)	2010/06/14					<0.05	mg/L	1.1	20
4027210	Dissolved Magnesium (Mg)	2010/06/14					<0.05	mg/L	0.8	20

Maxxam Job #: B039605
Report Date: 2010/07/05

AZIMUTH CONSULTING GROUP
Client Project #: TC10-01 POLARIS MINE, GARROW LK
Site Reference: LITTLE CORNWALLIS ISL, NU
Sampler Initials: CR

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
4027230	Dissolved Calcium (Ca)	2010/06/14					<0.05	mg/L	0.4	20
4027230	Dissolved Magnesium (Mg)	2010/06/14					<0.05	mg/L	0.8	20
4036461	Total Cadmium (Cd)	2010/06/23	95	80 - 120	92	80 - 120	<0.01	ug/L	0.9	25
4036461	Total Cobalt (Co)	2010/06/23	99	80 - 120	89	80 - 120	<0.05	ug/L	NC	25
4036461	Total Copper (Cu)	2010/06/23	91	80 - 120	100	80 - 120	<0.05	ug/L	0.2	25
4036461	Total Lead (Pb)	2010/06/23	93	80 - 120	103	80 - 120	<0.05	ug/L	0.8	25
4036461	Total Nickel (Ni)	2010/06/23	NC	80 - 120	89	80 - 120	<0.05	ug/L	2.1	25
4036461	Total Zinc (Zn)	2010/06/23	NC	80 - 120	94	80 - 120	<0.5	ug/L	0.8	25
4036461	Total Iron (Fe)	2010/06/23					<1	ug/L	5.1	25
4036461	Total Manganese (Mn)	2010/06/23					<0.2	ug/L	1.9	25
4050377	Total Cadmium (Cd)	2010/06/24	94	80 - 120	90	80 - 120	<0.01	ug/L	2.4	25
4050377	Total Cobalt (Co)	2010/06/24	101	80 - 120	95	80 - 120	<0.05	ug/L	NC	25
4050377	Total Copper (Cu)	2010/06/24	96	80 - 120	99	80 - 120	0.09, RDL=0.05	ug/L	10.5	25
4050377	Total Lead (Pb)	2010/06/24	93	80 - 120	100	80 - 120	<0.05	ug/L	NC	25
4050377	Total Nickel (Ni)	2010/06/24	NC	80 - 120	92	80 - 120	<0.05	ug/L	2.4	25
4050377	Total Zinc (Zn)	2010/06/24	NC	80 - 120	90	80 - 120	<0.5	ug/L	3.3	25
4050377	Total Iron (Fe)	2010/06/24					<1	ug/L	0.8	25
4050377	Total Manganese (Mn)	2010/06/24					<0.2	ug/L	2.3	25
4068511	Conductivity	2010/06/29			101	80 - 120	<1	uS/cm	0.08	20
4068513	Alkalinity (Total as CaCO ₃)	2010/06/29	108	N/A	103	80 - 120	<0.5	mg/L	0.6	20
4068513	Alkalinity (PP as CaCO ₃)	2010/06/29					<0.5	mg/L	NC	20
4068513	Bicarbonate (HCO ₃)	2010/06/29					<0.5	mg/L	0.6	20
4068513	Carbonate (CO ₃)	2010/06/29					<0.5	mg/L	NC	20
4068513	Hydroxide (OH)	2010/06/29					<0.5	mg/L	NC	20

N/A = Not Applicable

RDL = Reportable Detection Limit

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Login check

Invoice To:		Require Report?	Yes	☒	No	☐
Company Name:	Azimuth Consulting Group					
Contact Name:	Randy Baker or Cheryl Mackintosh					
Address:	218-2902 West Broadway					
	Vancouver, BC			PC:	V6K 2G8	
Phone / Fax#:	Ph:	604-730-1220		Fax:	604-739-8511	

Report To:	
same as invoice	
PC:	
Ph:	Fax:

PO # AFES:	
Quotation #:	B00428
Project #:	TC10-01
Proj. Name:	Polaris Mine, Garrow Lake
Location:	Little Cornwallis Isl, NU
Sampler's Initials:	CURTIS KIDD

REGULATORY REQUIREMENTS:

☐ CSR	☐ PST
☐ CCME	☐ CDWQG
☐ CCME FWAL	☐ G50
☒ MMR	

REPORT DISTRIBUTION:

☐ Mail ☐ Fax
☒ PDF ☒ Excel ☐ Other: _____
☒ Email: rbaker@azimuthgroup.ca
 cmackintosh@azimuthgroup.ca
 bruce.donald@teck.com

SERVICE REQUESTED:

☐ RUSH (Please ensure you contact the lab)
Date Required:

x REGULAR Turnaround

METALS: (WATERS)

☒ Total ☐ Extractable ☐ Dissolved**ANALYSIS REQUESTED**[illegible]

** For water samples, please indicate if sample container has been preserved (P) and/or filtered (F).

Relinquished By:

Curtis KIDD

Date/Time:

MAY 29/10 11am

Signature:

Curtis Kugel

COMMENTS/SPECIAL INSTRUCTIONS:

Water is hypersaline, for TSS measurement run 1-2L distilled water through filters!!!
Note 2 methods of analysis are requested for total metals; Total metals have been preserved with HNO₃; Sulfide has been preserved with NaOH and zinc acetate; Cyanide has been preserved with NaOH

Received

JUN 01 2010

10:00

Temperature

Temperature	
67,5	3,4,5
4,4,4	6,4,5

Login check

APPENDIX 3

May 28th, 2010 GARROW LAKE

FIELD MEASUREMENTS

GARROW LAKE - MINIMUM ICE THICKNESS TESTING OF STRATIFICATION USING HYDROLAB

Station: SOUTH [GLS (262-3a)] Water Depth must be at least 19m

Sampler: CURTIS KIDD

UTM: _____

Date/Time: MAY 28/10 12:45 pm

Depth of Ice 3m

Water Depth: 20 m

Depth (M)	Temp	Conductivity	pH	Dissolved Oxygen	Redox	Observations/Comments
Ice cover on surface						
2	- .60	17.5	8.53	19.69	307	
3	- .62	17.2	8.57	19.54	305	
4	- .62	17.2	8.59	19.46	303	
5	- .62	17.2	8.61	19.41	301	
6	- .62	17.1	8.62	19.33	300	
7	- .64	17.2	8.63	19.31	299	
8	- .38	17.2	8.63	19.07	298	
9	2.59	18.8	8.48	15.56	298	
9.5						- Didn't measure
10	4.58	59.2	7.78	1.41	305	
10.5						- Didn't measure
11	6.00	85.7	7.84	.74	292	
12	6.13	89.1	7.88	.57	268	
13	6.48	90	7.89	.47	196	
14	6.55	90.4	7.89	.42	173	
15	6.58	90.6	7.90	.38	120	
16	6.60	90.7	7.90	.35	73	
17	6.61	90.7	7.90	.32	37	
18	6.61	90.8	7.90	.30	-8	
19	6.56	90.8	7.91	.28	-35	
20	6.53	91	7.91	.28	-53	
?Deeper?						
*Record Lake Depth						

Notes re Hydro Lab:

- Make sure the probe is store with the cup full of water that has the storage solution in it.
- As it is stored with liquid, make sure Rick stores it in his locked (expensive equip) heated storage (no freezing)
- Use the special grease on the electrical connections before submerging in Garrow Lake
- Rinse everything off before storage. Remove the AA batteries so they don't leak in the readout device.

GARROW LAKE - MINIMUM ICE THICKNESS TESTING OF STRATIFICATION USING HYDROLAB

Station: CENTER (GLC (262-3))

Sampler: GURTISS KIDD

UTM: _____

Date/Time: MAY 28/10 3:45 pm

Depth of Ice 3m

Water Depth: 40 m

Depth (M)	Temp	Conductivity	pH	Dissolved Oxygen	Redox	Observations
Ice cover on surface						
2	- .64	18	7.94	17.73	318	
3	- .64	17.3	8.18	17.09	312	
4	- .64	17.2	8.38	16.55	309	
5	- .65	17.2	8.45	16.16	307	
6	- .64	17.2	8.50	16.00	305	
7	- .65	17.2	8.54	15.80	304	
8	- .65	17.1	8.57	15.80	302	
9	2.02	18.3	8.49	13.86	302	
9.5						- Didn't Measure
10	4.60	53.1	7.82	9.39	316	
10.5						- Didn't Measure
11	5.97	84.3	7.83	5.37	305	
12	6.14	88.9	7.86	1.99	299	
13	6.37	89.8	7.87	1.24	252	
14	6.58	90.3	7.87	.92	214	
15	6.60	90.5	7.88	.69	186	
16	6.60	90.6	7.89	.57	162	
17	6.61	90.7	7.89	.51	140	
18	6.61	90.9	7.90	.46	90	
19	6.58	90.9	7.90	.43	52	
20	6.53	91	7.90	.41	20	
21						
22	6.80	91	7.90	.39	-13	
23						Hydrolab acting up
24						"
25						"
26						"
27						"
28						"
29						"
30	6.60	91.1	7.87	.34	-72	
31						Didn't Measure
32						"
33						"
34						"
35						"
36						"
37						"
38	7.33	92.2	7.69	.34	-106	
39						- Didn't measure
40	7.48	92.5	7.66	.35	-118	

Notes re Hydro Lab:

- Make sure the probe is store with the cup full of water that has the storage solution in it.
- As it is stored with liquid, make sure Rick stores it in his locked (expensive equip) heated storage (no freezing)
- Use the special grease on the electrical connections before submerging in Garrow Lake
- Rinse everything off before storage. Remove the AA batteries so they don't leak in the readout device.

APPENDIX 4

2010 1ST AND 2ND QUARTER EXPENDITURE REPORT

TABLE 1

	APPROVED CLOSURE PLAN BUDGET		ACTUAL EXPENDITURES TO DATE						FORECAST OF REMAINING OUTSTANDING LIABILITY					
	By Code	Subtotals	Expended To December 31, 2010		Expended January 1, 2010 To 2nd Qtr 2010		Project Total To Date		2010 Forecast to End of Yr		2011 Forecast		Total Forecast Remaining to Dec 31 2011	
			By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals
DEMOLITION & RECLAMATION (BARE COSTS)														
MINE EQUIPMENT REMOVAL														
Hazardous Materials Remova	35,845		853				853		-			-		
Mine Refrigeration Plant	145,525		25,639				25,639		-			-		
Mobile & Mine Equipment	2,919		12,981				12,981		-			-		
Remove Salvaged Mine Equipmen	20,754		-				-		-			-		
Misc Sub Contract Costs	45,957		28,540				28,540		-			-		
		\$ 251,000		\$ 68,013		\$ -		\$ 68,013		\$ -		\$ -		\$ -
MINE ACCESS SEALING	60,000		20,992				20,992		-			-		
Seal Mine Portals		\$ 60,000		\$ 20,992		\$ -		\$ 20,992		\$ -		\$ -		\$ -
CONCENTRATOR BUILDING														
Miscellaneous Materials	22,092		-				-		-			-		
Mill Equipment Clean-Up - Fuels	16,398		-				-		-			-		
Mill Equipment Clean-Up	99,900		40,613				40,613		-			-		
Hazardous Materials Remova	151,117		94,553				94,553		-			-		
Barge Demolition	608,552		443,526				443,526		-			-		
Misc Process Equipment Demolition & Remova	197,432		183,317				183,317		-			-		
Misc Sub Contract Costs	88,469		84,794				84,794		-			-		
		\$ 1,184,000		\$ 846,803		\$ -		\$ 846,803		\$ -		\$ -		\$ -
CONCENTRATE STORAGE STRUCTURE & EQUIPMENT	26,117		1,905				1,905		-			-		
Concentrate Storage Equipment Clean-Up	67,600		8,421				8,421		-			-		
Conveyors	555,283		93,654				93,654		-			-		
Concentrate Storage Structure & Equipment		\$ 649,000		\$ 103,980		\$ -		\$ 103,980		\$ -		\$ -		\$ -
SHIP LOADER & CONVEYOF	50,000		24,592				24,592		-			-		
Conveyors		\$ 50,000		\$ 24,592		\$ -		\$ 24,592		\$ -		\$ -		\$ -
DOCK & SHORELINE														
Dock & Shoreline Reclamator	869,000		837,739				837,739		-			-		
		\$ 869,000		\$ 837,739		\$ -		\$ 837,739		\$ -		\$ -		\$ -
THICKENER & TAILINGS LINES														
Hazardous Materials Remova	22,577		16,452				16,452		-			-		
Tailings Thickener	377,423		106,677				106,677		-			-		
		\$ 400,000		\$ 123,129		\$ -		\$ 123,129		\$ -		\$ -		\$ -
GARROW LAKE														
Garrow Lake Siphons & Lake Drawdown	120,391		195,965				195,965		-			-		
Dam/Spillway Modifications	95,467		269,662				269,662		-			-		
Escalation Allowance	3,142		-				-		-			-		
		\$ 219,000		\$ 465,627		\$ -		\$ 465,627		\$ -		\$ -		\$ -
CRF PLANT STRUCTURE & EQUIPMENT1														
CRF Plant Equipment Clean-Up	7,002		1,040				1,040		-			-		
CRF Plant Equipment Remova	17,533		9,406				9,406		-			-		
CRF Plant Buildings Demolition	130,455		23,497				23,497		-			-		
Misc Sub Contract Costs	11,010		46,766				46,766		-			-		
		\$ 166,000		\$ 80,709		\$ -		\$ 80,709		\$ -		\$ -		\$ -
ACCOMMODATION COMPLEX STRUCTURE & EQUIPMENT														
Accommodation Complex Building Demolitor	249,000		72,318				72,318		-			-		
		\$ 249,000		\$ 72,318		\$ -		\$ 72,318		\$ -		\$ -		\$ -
FUEL STORAGE & HANDLING EQUIPMENT														
Miscellaneous Materials	3,681		4,904				4,904		-			-		
Purge & Decommission Fuel Tanks	53,404		341,959				341,959		-			-		
Hazardous Materials Remova	50,645		547,319				547,319		-			-		
Fuel Pumping & Distribution Systems	87,270		11,173				11,173		-			-		
		\$ 195,000		\$ 905,355		\$ -		\$ 905,355		\$ -		\$ -		\$ -
BUILDINGS & CONTAINER1														
Miscellaneous Materials	1,323		-				-		-			-		
Misc Warehouse / Shipping Equipment	1,221		3,292				3,292		-			-		
Misc Buildings Demolition	250,456		100,053				100,053		-			-		
		\$ 253,000		\$ 103,345		\$ -		\$ 103,345		\$ -		\$ -		\$ -
MISC CONTRACTOR LABOUF	133,000		2,310				2,310		-			-		
Unallocated Labour		\$ 133,000		\$ 2,310		\$ -		\$ 2,310		\$ -		\$ -		\$ -
GENERAL SITE GRADING														
Hazardous Materials Remova	44,719		90,114				90,114		-			-		
General Site Grading & Reclamation	7,129		828,869				828,869		-		50,000	-	50,000	
Escalation Allowance	4,152		-				0		-			-		50,000
		\$ 56,000		\$ 918,983		\$ -		\$ 918,983		\$ -		\$ 50,000		\$ 50,000
LANDFILL RECLAMATION														
Landfill Reclamation	432,000		821,746				821,746		-			-		
		\$ 432,000		\$ 821,746		\$ -		\$ 821,746		\$ -		\$ -		\$ -
CONTAMINATED SOILS - CLEANUP														
Metals & Hydrocarbon Contaminated Soils Cleanup & Disposal	366,623		2,627,104				2,627,104		-			-		
Hydrcarbon Contaminated Soils (By Polaris	173,605		13,131				13,131		-			-		
Metals Contaminated Soils (By Polaris	48,675		52,382				52,382		-			-		
U/G Handling & Disposal Of Contaminated Soil:			1,012,154				1,012,154		-			-		
		\$ 595,000		\$ 3,704,771		\$ -		\$ 3,704,771		\$ -		\$ -		\$ -
QUARRIES & MINE SURFACE RECLAMATION (EARTHWORK														
Backfill & Re-Contouring	263,000		273,711				273,711		-			-		
		\$ 263,000		\$ 273,711		\$ -		\$ 273,711		\$ -		\$ -		\$ -
MISC. DEMOLITION & CLEAN-UP														
Misc Unallocated Clean-Up / Demc	380,000		-				0		115,500		185,000		300,500	
		\$ 380,000		\$ -		\$ -		\$ -	\$ 115,500		\$ 185,000		\$ 300,500	\$ 300,500
EQUIPMENT PURCHASE/RENTAI														
Contractor Equipment Rental	5,274,900		5,216,572				5,216,572		-			-		
Contractor Misc Equipment Purchase	719,407		432,906				432,906		-			-		
Escalation Allowance	59,693		-				0		-			-		
		\$ 6,054,000		\$ 5,649,478		\$ -		\$ 5,649,478		\$ -		\$ -		\$ -
MISC. SERVICES & SUPPLIES														
Misc Purchased Materials / Supplies	235,333		536,124				536,124		-			-		
Escalation Allowance	19,667		-				-		-			-		
		\$ 255,000		\$ 536,124		\$ -		\$ 536,124		\$ -		\$ -		\$ -
FUEL														
Fuel Supply	3,294,536		4,216,186				4,216,186		-			-		
Fuel Taxes (Heating & Power Generation	68,677		-				-		-			-		
Fuel Taxes (Equipment)	467,343		713,101				713,101		-			-		
Escalation Allowance	157,444		-				-		-			-		
		\$ 3,988,000		\$ 4,929,287		\$ -		\$ 4,929,287		\$ -		\$ -		\$ -
MAINTENANCE OF EQUIPMENT & FACILITIES														
Mobile Equip Maintenance	1,296,759		7,682,560				7,682,560		-			-		
Building Maintenance	506,923		2,136,535				2,136,535		-			-		
Escalation Allowance	101,318		-				-		-			-		
		\$ 1,905,000		\$ 9,819,095		\$ -		\$ 9,819,095		\$ -		\$ -		\$ -
PRE - PURCHASED EQUIPMENT (BY COMINCO														
Construction Equipment - Purchase (By Owner)	541,000		893,766				893,766		-			-		
		\$ 541,000		\$ 893,766		\$ -		\$ 893,766		\$ -		\$ -		\$ -
CONTRACTOR'S FIELD SUPPORT & SUPPLIES														
TRANSPORTATION (SHIPPING														
Packing & Preparation	85,326		-				-		-			-		
Shipping Costs	948,661		3,411,970				3,411,970		-			-		
Escalation Allowance	78,013		-				-		-			-		
		\$ 1,112,000		\$ 3,411,970		\$ -		\$ 3,411,970		\$ -		\$ -		\$ -
CONTRACTOR MOB, DEMOB & SUPERVISIO														
Contractor Mob/Demob	61,883		208,747				208,747		-			-		
Contractor Supervisor/Admin Personne	2,127,339		3,756,445				3,756,445		-			-		
Safety Services & Supplier	36,000		521,604				521,604		-			-		
Misc Temporary Services / Modifications	223,824		1,007,843				1,007,843		-			-		
Escalation Allowance	13,954		-				-		-			-		
		\$ 2,463,000		\$ 5,496,639		\$ -		\$ 5,496,639		\$ -		\$ -		\$ -
MISC. SERVICES & SUPPLIES														
Communications & TV	374,000		256,412				256,412		-			-		
Escalation Allowance	31,000		-				-		-			-		
		\$ 405,000		\$ 256,412		\$ -		\$ 256,412		\$ -		\$ -		\$ -
ACCOMMODATIONS														
Catering	1,487,166		2,153,968				2,153,968		-			-		
Escalation Allowance	122,834		-				-		-			-		
		\$ 1,610,000		\$ 2,153,968		\$ -		\$ 2,153,968		\$ -		\$ -		\$ -
TRAVEL & PERSONNEL														
Travel (Airlares & Expenses)	1,552,881		4,683,561				4,683,561		-			-		
Travel Premium - Revised Rotation Scheduk	1,072,773		-				-		-			-		
Misc Personnel Transport	72,274		391,547				391,547		-			-		
Escalation Allowance	575,072		-				-		-			-		
		\$ 3,273,000		\$ 5,075,108		\$ -		\$ 5,075,108		\$ -		\$ -		\$ -

POLARIS MINE DECOMMISSIONING, RECLAMATION AND MONITORING - ACTUAL EXPENDITURES AND ESTIMATED REMAINING LIABILITY

	APPROVED CLOSURE PLAN BUDGET		ACTUAL EXPENDITURES TO DATE						FORECAST OF REMAINING OUTSTANDING LIABILITY					
			Expended To December 31, 2009		Expended January 1, 2010 To 2nd Qtr 2010		Project Total To Date		2010 Forecast to End of Yr		2011 Forecast		Total Forecast Remaining to Dec 31 2011	
	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals
CONTRACTOR INDIRECTS														
HO MOB & DEMOB SUPPORT														
Mob & Demob	1,912,000		1,912,376				1,912,376		-				-	
		\$ 1,912,000		\$ 1,912,376		\$ -		\$ 1,912,376		\$ -		\$ -		\$ -
CONTRACTOR MANAGEMENT SUPPORT														
Personnel	3,928,932		3,928,932				3,928,932		-				-	
Safety & First Aid Personnel to Provide Overlap	184,068		183,644				183,644		-				-	
		\$ 4,113,000		\$ 4,112,576		\$ -		\$ 4,112,576		\$ -		\$ -		\$ -
OTHER CONTRACTOR INDIRECTS														
Contractor's General Indirects	4,952,000		7,470,401				7,470,401						-	
		\$ 4,952,000		\$ 7,470,401		\$ -		\$ 7,470,401		\$ -		\$ -		\$ -
ENGINEERING / PROJECT MANAGEMENT														
ENVIRONMENTAL SITE ASSESSMENT														
Environmental Consultants - Site Assessment	275,787		354,711				354,711		-				-	
Site Assessment - Unallocated	207,874		105,263				105,263		-				-	
Escalation Allowance	2,339		-				-		-				-	
		\$ 486,000		\$ 459,974		\$ -		\$ 459,974		\$ -		\$ -		\$ -
CLOSURE PLAN														
Environmental Consultants - Closure Plan	415,772		372,272				372,272		-				-	
Escalation Allowance	2,228		-				-		-				-	
		\$ 418,000		\$ 372,272		\$ -		\$ 372,272		\$ -		\$ -		\$ -
ENGINEERING / SPECIAL CONSULTANTS														
Design Consultants - Dock / Loadout	1,316		1,320				1,320		-				-	
Design Consultants - Tailings / Garrow Lake	3,520		3,515				3,515		-				-	
Design Consultants - Dock / Loadout	79,684		65,354				65,354		-				-	
Design Consultants - Tailings / Garrow Lake	54,780		45,328				45,328		-				-	
Sitework & Demolition Procedures - Design Services	18,300		46,825				46,825		-				-	
Escalation Allowance	2,400		-				-		-				-	
		\$ 160,000		\$ 162,342		\$ -		\$ 162,342		\$ -		\$ -		\$ -
PROJECT MANAGEMENT CONSULTANT (HO STAFF)														
Project Management - Salaries	411,069		1,289,847				1,289,847		-				-	
Project Management - Reimb Expenses	100,000		85,492				85,492		-				-	
Escalation Allowance	31,931		-				-		-				-	
		\$ 543,000		\$ 1,375,339		\$ -		\$ 1,375,339		\$ -		\$ -		\$ -
CONSTRUCTION MANAGEMENT (FIELD STAFF)														
Construction Management - Salaries	2,142,878		1,915,004				1,915,004		-				-	
Escalation Allowance	179,122		-				-		-				-	
		\$ 2,322,000		\$ 1,915,004		\$ -		\$ 1,915,004		\$ -		\$ -		\$ -
ENVIRONMENTAL TESTING AND SAMPLING														
Environmental Reclamation Supervision - Staff	337,123		1,038,747				1,038,747		-				-	
Escalation Allowance	29,550		-				-		-				-	
Environmental Reclamation Supervision - Testing	330,000		171,498				171,498		-				-	
Additional Sampling and Consultant Services (MMER)	0		354,386				354,386		-				-	
Escalation Allowance	26,327		-				-		-				-	
		\$ 723,000		\$ 1,564,631		\$ -		\$ 1,564,631		\$ -		\$ -		\$ -
OWNER'S COSTS														
SALARIES & EXPENSES														
Teck HO Proj Mgmt (Staff Lab)	374,631		476,911				476,911		-				-	
Teck HO Proj Mgmt (Misc Material & Exp)	199,149		221,031				221,031		-				-	
Escalation Allowance	34,220		-				-		-				-	
		\$ 608,000		\$ 697,942		\$ -		\$ 697,942		\$ -		\$ -		\$ -
OVERHEAD / HO SUPPORT														
Land Leases, Licences	175,000		96,979				96,979		-				-	
Miscellaneous Permits	45,000		16,889				16,889		-				-	
Insurance	445,900		319,459				319,459		-				-	
Property Taxes	465,000		180,412				180,412		-				-	
Home Office General Admin (Labour & Exp)	722,384		16,700				16,700		-				-	
Public Relations	74,292		58,718				58,718		-				-	
Legal	57,540		48,421				48,421		-				-	
Escalation Allowance	168,560		-				-		-				-	
Misc Owner's Overhead	6,324		13,882				13,882		-				-	
		\$ 2,190,000		\$ 751,460		\$ -		\$ 751,460		\$ -		\$ -		\$ -
GENERAL ADMIN														
Closure Management - Polaris Personne	54,000		-				-		-				-	
Escalation Allowance	2,880		-				-		-				-	
Closure Wrap Up	5,120		-				-		-				-	
		\$ 62,000		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
POST RECLAMATION COSTS (2005 - 2011)														
SITE MONITORING AND HOLDING COSTS														
Annual Post Closure Environmental Monitoring (2005 to 2011)	510,000		1,123,300		33,217		1,156,517		291,283		248,500		539,783	
Final Sampling Program, Data Evaluation and Reporting in 2011	160,000		-				-		-				-	
Land Lease/Licence costs from 2005 to 2011	126,000		-				-		-				-	
Property Taxes - 2005 to 2011	70,000		-				-		-				-	
Escalation Allowance	135,000		-				-		-				-	
		\$ 1,001,000		\$ 1,123,300		\$ 33,217		\$ 1,156,517		\$ 291,283		\$ 248,500		\$ 539,783
TOTAL DECOMMISSIONING / RECLAMATION & MONITORING COSTS														
		\$ 47,500,000		\$ 69,513,587		\$ 33,217		\$ 69,546,804		\$ 406,783		\$ 483,500		\$ 890,283

Note: For actual and forecast expenditures have not included Land Lease costs, Licence Costs or Property Taxes as these do not represent a potential cost or liability to the government

APPENDIX 5

**Electronic File (pdf) of Report
On Cd**