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Re: May 2012 – Monthly Monitoring Report for Water Licence 2AM-DOH0713

This report is comprised of monitoring requirements as set out in Schedule J of water license 2AM-DOH0713 and additional requirements from AANDC. License items include:

- Part D (Conditions Applying to Construction) Items 7 and 19;
- Part E (Conditions applying to Water Use) Item 1;
- Part G (Conditions Applying to Waste Management and Waste Management Plans) Items 3(e) and 3(b), Item 21 (a) and 22 (e);
- Part J (Conditions Applying to General and Aquatic Effects Monitoring) Items 12 and 14.

Other monitoring requirements stipulated in the license refer to facilities that have not been constructed.

Part D: Conditions Applying to Construction**Item 7. Construction Monitoring**

Work on the Tail Lake north dam structure was completed in May; thermistor instrumentation is being installed. Construction monitoring was undertaken and documented. A summary of construction monitoring will be submitted with the annual Construction Monitoring report.

Item 19. Surface Runoff Effluent Quality Limits

Surface runoff samples from construction as part of the Waste Rock and Ore, and Quarry Monitoring Management Plans was undertaken for runoff that has the potential to directly or indirectly enter a waterbody. Turbidity was collected in situ, and a subset of the seeps were sampled for laboratory analysis of total suspended solids as well (Table 1).

Table 1 – Construction Surface Runoff Sample Results for Turbidity and Total Suspended Solids, May 2012

Sample ID	ALS ID	Date Sampled	Total Suspended Solids (mg/L)*	Turbidity (in situ) (NTU)	Comments
ST10E-29MAY12	L1156106-2	29-May-2012 @ 13:44	32	56.6	Above last coco mat (sump area)
ST10F-29MAY12	-	29-May-2012 @ 13:46	-	60.4	Below last coco mat (sump area)
ST10G-29MAY12	-	29-May-2012 @ 14:12	-	6.43	Below turnoff towards pump house
ST10E-30MAY12	L1156106-5	30-May-2012 @ 16:00	30	58.3	Above last coco mat (sump area)

*2AM-DOH0713 TSS maximum grab criteria is 100 mg/L and TSS maximum average criteria 50 mg/L for runoff that has the potential to enter a waterbody

Part E: Conditions Applying to Water Use

Item 1: Water Usage

Water used for domestic camp use, portable wash cars, ice road construction, and frozen core production is reported in Table 2.

Table 2: Water Usage for Doris North (m³), May 2012

Parameters	Water Use
Water Source	Doris Lake
Geographical Coordinates	68°8'17.04" N, 106°36'52.68"W
Monthly Cumulative	514 m ³
Annual Cumulative	10,805 m ³
2AM-DOH0713 Permitted Water Volume (Total Annual)	480,000m ³

Schedule J: Water Quality Monitoring at Water Intake

Monthly compliance samples, in accordance with Schedule J requirements of the licence, were taken from monitoring station ST-7 (Table 3).

Table 3: Monthly Compliance Sample Results for SNP Monitoring Station ST-7, May 2012

Parameter	Units	ST-7
ALS Lab Reference #		L1146534-1
Sample Date/Time		11-May-2012 @ 9:46
pH	pH	7.8
Total Suspended Solids	mg/L	<3.0
Cyanide, Total	mg/L	<0.0050
Cyanide, Free	mg/L	<0.0050
Fecal Coliforms	CFU/100 mL	<1
Biochemical Oxygen Demand	mg/L	<2.0
Oil and Grease	mg/L	<1.0
Oil And Grease (Visible Sheen)		No Visible Sheen
Conductivity (EC)	uS/cm	332
Hardness (as CaCO ₃)	mg/L	55.3
Ammonia, Total (as N)	mg/L	<0.050
Nitrate (as N)	mg/L	<0.050
Nitrite (as N)	mg/L	<0.050
Orthophosphate-Dissolved (as P)	mg/L	<0.0010

Parameter	Units	ST-7
Phosphorus (P)-Total	mg/L	0.026
Aluminum (Al)-Total	mg/L	0.0099
Antimony (Sb)-Total	mg/L	<0.00040
Arsenic (As)-Total	mg/L	<0.00040
Barium (Ba)-Total	mg/L	0.0033
Beryllium (Be)-Total	mg/L	<0.0010
Boron (B)-Total	mg/L	<0.050
Cadmium (Cd)-Total	mg/L	<0.000010
Calcium (Ca)-Total	mg/L	9.57
Chromium (Cr)-Total	mg/L	<0.0010
Cobalt (Co)-Total	mg/L	<0.0020
Copper (Cu)-Total	mg/L	0.0022
Iron (Fe)-Total	mg/L	0.033
Lead (Pb)-Total	mg/L	0.00014
Lithium (Li)-Total	mg/L	<0.010
Magnesium (Mg)-Total	mg/L	7.25
Manganese (Mn)-Total	mg/L	<0.0050
Mercury (Hg)-Total	mg/L	<0.000020
Molybdenum (Mo)-Total	mg/L	<0.0050
Nickel (Ni)-Total	mg/L	<0.0020
Potassium (K)-Total	mg/L	2.41
Selenium (Se)-Total	mg/L	<0.00040
Silver (Ag)-Total	mg/L	<0.000020
Sodium (Na)-Total	mg/L	31.8
Thallium (Tl)-Total	mg/L	<0.00010
Tin (Sn)-Total	mg/L	<0.050
Titanium (Ti)-Total	mg/L	<0.0010
Uranium (U)-Total	mg/L	<0.00010
Vanadium (V)-Total	mg/L	<0.0010
Zinc (Zn)-Total	mg/L	0.0075
Calcium (Ca)-Dissolved	mg/L	10.4
Magnesium (Mg)-Dissolved	mg/L	7.14
ALS Sample ID		L1146547-1
Sample Date/Time		11-May-2012 @ 9:48
Blue-Green Algae	Cells/mL	36,200

Part G: Conditions Applying to Waste Management and Waste Management Plans.

Item 3(b): Conditions applying to sewage effluent quality

Sampling station ST-8 is located within the Doris Camp sewage treatment plant. Effluent samples were collected from ST-8A and were compliant for all parameters (Table 4). Sampling station ST-8B was taken out of service on November 5, 2011 due to insufficient flow and will be brought back on line when necessary.

Table 4: Water Quality Data Summary for Monitoring Station ST-8A, May 2012

Parameter/SNP Sites	Units	ST-8A	Doris: 2AM-DOH0713 (Part G: Item 3 (b))	
ALS Lab Reference #		L1146534-2	Maximum Average Concentration	Maximum Allowable Grab Sample Concentration
Sample Date/Time		11-May-2012 @ 9:30		
BOD ₅	mg/L	5.3	80	80
TSS (mg/L)	mg/L	<3.0	100	100
Fecal Coliform	CFU/100mL	20	10,000	10,000
pH (pH unit)	pH unit	7.37	6-9	9
Oil & Grease (Visible Sheen)		No Visible Sheen	No Visible Sheen	No Visible Sheen
Oil & Grease (mg/L)	mg/L	<1.0	5	10

Station ST-9 was frozen.

Item 3(e): Treated Sewage Effluent Release in cubic meters

The volume of treated effluent released at ST-8 and the volume of sludge removed and incinerated are shown in Table 5.

Table 5: Treated Sewage Effluent released in cubic meters (m³) through ST-8 and total sludge volume removed

Parameters	Effluent Released ST-8 (m ³)	Sludge Volume (m ³)
Monthly Cumulative	442	2.83
Annual Cumulative	2965	15.69

Item 21 (a) and Items 22 (c), (e): Sedimentation pond, landfarm, and fuel containment sumps

Water was not discharged from ST-1, ST-4, ST-5, or ST-6b facilities. Roberts Bay 5 million litre fuel tank berm (ST-6a) was sampled and discharged (Table 6). A total of pumped 381 m³ was removed from the berm without incident on 31 May 2012. Water from the berm was used for dust suppression on the roads and the remainder was discharged to tundra.

Table 6: ST-6A (Roberts Bay 5M Litre Fuel Tank Berm) Pre-discharge and During-discharge Sample Results, May 2012

Parameter	Units	ST6A-25MAY12	ST6A-31MAY12	Maximum Average Concentration (mg/L)	Maximum Concentration in any Grab Sample (mg/L)
ALS ID		L1152479-1	L1156113-3		
Sample Date/Time		25-May-2012 @ 7:30	5/31/2012 3:00:00 PM		
pH	pH	8.09	8.26	6.0 - 9.0	9
Total Suspended Solids	mg/L	7	22	15	30
Lead (Pb)-Total	mg/L	0.00013	0.00028	0.01	0.02
Oil and Grease	mg/L	<1.0	<1.0	5	10
Oil And Grease (Visible Sheen)		No Visible Sheen	No Visible Sheen	-	-
Benzene	mg/L	<0.00050	<0.00050	0.37	-
Ethylbenzene	mg/L	<0.00050	<0.00050	0.09	-
Toluene	mg/L	<0.00050	<0.00050	0.002	-

Item 26, 27, 28 and Part J Item 8: Water Discharged from Tailing Impoundment Area

Water Samples were collected from TL-1 every second day for 2 weeks prior to commencing discharge. Results for those samples collected in May are included in this report (Table 7 – at end of this report). Note that TL-1 is taken from the intake end and TL-4 is taken from the discharge end of the same pipe; therefore, TL-1 results are compared to TL-4 in Table 7. Water from the mine site (ST-1 and ST-2) was not discharged into Tail Lake; therefore, these sample results represent background water quality conditions for Tail Lake. On 22 May 2012, the total suspended solids was above the maximum grab concentration (30 mg/L) specified for TL-4; this is due to the sampler disturbing the substrates while collecting the sample.

Water collected from TL-1 was shown to be non-acutely toxic to trout or daphnia (Table 8).

Table 8: Acute Lethality Test Results for TL-1, May 2012

Parameter	TL1-13MAY12	Analyst Comments
ALS ID	L1147173-1	
Sample Date/Time	5/13/2012 2:10:00 PM	
Trout		
LC50	>100%	No effect occurred
LC25	>100%	No effect occurred
Daphnia		
LC50	>100%	No effect occurred
LC25	>100%	No effect occurred
EC50	>100%	No effect occurred
EC25	>100%	No effect occurred

Notes: LC50 = lethal concentration that results in mortality of 50% of the test organisms; LC25 = lethal concentration that results in mortality of 25% of the test organisms; EC50 = effects concentration that results in visible effects (immobility) of 50% of the test organisms; EC25 = effects concentration that results in visible effects (immobility) of 25% of the test organisms.

Item 30: Tailings Impoundment Area Discharge Volume

Water was not discharged from the Tailings Impoundment Area in this month.

Schedule J: Tailings Impoundment Area Water Quality (TL-10)

Water quality was measured at station TL-10 on May 13, 2012 (Table 9).

Table 9: TL-10 Water Quality Results, May 2012

Parameter	Units	TL10-13MAY12A (Top)	TL10-13MAY12B (Mid)	TL10-13MAY12C (Bottom)
ALS ID		L1147168-1	L1147168-2	L1147168-3
Sample Date/Time		13-May-2012 @ 15:52	13-May-2012 @ 16:10	13-May-2012 @ 16:22
Conductivity (EC)	uS/cm	263	263	272
Hardness (as CaCO ₃)	mg/L	60.3	59.9	67.7
pH	pH	7.83	7.79	7.72
Total Suspended Solids	mg/L	<3.0	<3.0	<3.0
Total Dissolved Solids	mg/L	162	158	168
Ammonia, Total (as N)	mg/L	0.055	<0.050	<0.050
Chloride (Cl)	mg/L	43	43.3	45.2
Nitrate (as N)	mg/L	<0.050	<0.050	0.06

Parameter	Units	TL10-13MAY12A (Top)	TL10-13MAY12B (Mid)	TL10-13MAY12C (Bottom)
Nitrite (as N)	mg/L	<0.050	<0.050	<0.050
Orthophosphate-Dissolved (as P)	mg/L	<0.0010	<0.0010	<0.0010
Phosphorus (P)-Total	mg/L	<0.020	<0.020	<0.020
Cyanide, Total	mg/L	<0.0050	<0.0050	<0.0050
Cyanide, Free	mg/L	<0.0050	<0.0050	<0.0050
Aluminum (Al)-Total	mg/L	0.0227	0.0135	0.0127
Antimony (Sb)-Total	mg/L	<0.00040	<0.00040	<0.00040
Arsenic (As)-Total	mg/L	<0.00040	<0.00040	<0.00040
Barium (Ba)-Total	mg/L	0.0066	0.0067	0.0197
Beryllium (Be)-Total	mg/L	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	mg/L	<0.000010	<0.000010	<0.000010
Calcium (Ca)-Total	mg/L	12.2	11.8	10.7
Chromium (Cr)-Total	mg/L	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L	<0.0020	<0.0020	<0.0020
Copper (Cu)-Total	mg/L	0.0048	0.0019	0.0017
Iron (Fe)-Total	mg/L	0.158	0.127	0.126
Lead (Pb)-Total	mg/L	0.00016	<0.00010	<0.00010
Lithium (Li)-Total	mg/L	<0.010	<0.010	<0.010
Magnesium (Mg)-Total	mg/L	8.13	8.06	7.31
Manganese (Mn)-Total	mg/L	<0.0050	<0.0050	<0.0050
Mercury (Hg)-Total	mg/L	<0.000020	<0.000020	<0.000020
Molybdenum (Mo)-Total	mg/L	<0.0050	<0.0050	<0.0050
Nickel (Ni)-Total	mg/L	<0.0020	<0.0020	<0.0020
Potassium (K)-Total	mg/L	2.52	2.43	2.52
Selenium (Se)-Total	mg/L	<0.00040	<0.00040	<0.00040
Silver (Ag)-Total	mg/L	<0.000020	<0.000020	<0.000020
Sodium (Na)-Total	mg/L	23.7	23.2	21.9
Thallium (Tl)-Total	mg/L	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	<0.050	<0.050	<0.050
Titanium (Ti)-Total	mg/L	<0.0010	<0.0010	<0.0010
Uranium (U)-Total	mg/L	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0134	0.0053	0.021
Calcium (Ca)-Dissolved	mg/L	11.4	11.2	12.8
Magnesium (Mg)-Dissolved	mg/L	7.73	7.74	8.69

Part J: Conditions Applying to General and Aquatics Effects Monitoring

Item 12d Tonnages of Waste Rock Stored on the Temporary Waste Rock Pad

Underground mining is no longer occurring while the project is in care and maintenance. Waste rock has not been removed from the pile. The total volume of rock on the temporary waste rock pad is 182 716 tonnes, as per the December 2011 survey.

Item 12g Tail Lake Ice Thickness

The ice thickness on Tail Lake was not measured in this month.

Environmental Incident Reporting

There were 3 environmental incidents in this reporting period:

- An oil and grease spill was found outside of the Doris Portal. The spill is attributed to a compressor that used to be located outside the portal. The compressor had been removed during the winter after the Portal was shut down. The contaminated material was removed and was taken to waste management for offsite disposal.
- A megabag of waste materials being transported from a drill contractor shop to the waste management area at Roberts Bay contained an unsealed pail of oil which leaked inside the bag and subsequently dripped out onto the gravel laydown. A trail of drips estimated at 10L leaked on to the ground. The materials were properly contained and the contaminated gravel was cleaned up and removed for disposal. Proper waste management, storage of fluid products and handling protocols were reviewed with contractor.
- Gravity feed overflow of an auxiliary tank on the oil/water separator spilled approx. 2 L of diesel inside the berm into effluent water being treated for discharge. A sorbent boom was deployed to contain the product and sorbent pads were used to absorb the remainder. O/W Separator unit was moved to an area of the berm without water and placed on a spill tray. The auxiliary tank on the O/W separator was swapped out for a different model without a gravity feed mechanism.

Should there be any questions regarding this monthly report, please contact Angela Holzapfel, Manager of Environmental Compliance for Hope Bay Mining Limited at (604) 345-3122 or Angela.Holzapfel@Newmont.com.

Yours sincerely,

Angela Holzapfel

Manager of Environmental Compliance

Hope Bay Mining Limited

Table 7: TL-1 Sample Results, May 2012

Parameter	Units	TL-4 Max Average (mg/L)	TL-4 Max Grab (mg/L)	TL1- 12MAY12	TL1- 14MAY12	TL1- 16MAY12	TL1- 18MAY12	TL1- 20MAY12	TL1- 22MAY12	TL1- 25MAY12	TL1- 26MAY12	TL-1 Monthly Average
ALS ID				L1147171-1	L1147171-2	L1150245-1	L1150245-2	L1150249-1	L1152477-1	L1153356-2	L1153356-1	
Sample Date/Time				12-May-2012 @15:05	14-May-2012 @8:56	16-May-2012 @15:10	18-May-2012 @8:05	20-May-2012 @17:15	22-May-2012 @14:20	25-May-2012 @17:55	26-May-2012 @15:10	May
pH	pH	6.0 - 9.0	9.0	7.95	8.01	7.6	7.64	7.67	7.7	7.64	7.61	7.73
Total Suspended Solids	mg/L	15.0	30.0	<3.0	<3.0	<3.0	<3.0	24*	37*	4	<3.0	5.1
Total Dissolved Solids	mg/L			190	177	154	126	63	66	65	79	115
Conductivity (EC)	uS/cm			298	289	255	224	84.6	98.9	102	111	183
Hardness (as CaCO3)	mg/L			76.8	65.5	59.6	52.9	30.8	38.1	34.2	38.5	49.6
Cyanide, Total	mg/L	1.00	2.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide, Free	mg/L			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chloride (Cl)	mg/L			49.6	48.1	40.7	35.3	3.54	4.07	7.26	9.17	24.72
Ammonia, Total (as N)	mg/L	6	-	<0.050	<0.050	<0.050	<0.050	<0.050	0.076	0.054	<0.050	0.035
Nitrate (as N)	mg/L			0.114	<0.050	<0.050	<0.050	0.143	0.179	0.127	<0.050	0.083
Nitrite (as N)	mg/L			<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Orthophosphate- Dissolved (as P)	mg/L			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Phosphorus (P)- Total	mg/L			<0.020	<0.020	0.027	0.028	0.047	0.061	<0.020	<0.020	0.025
Aluminum (Al)- Total	mg/L			0.0478	0.0122	0.0164	0.0197	1.5	1.78	0.19	0.177	0.468
Antimony (Sb)- Total	mg/L			<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Arsenic (As)-Total	mg/L	0.50	1.00	<0.00040	<0.00040	<0.00040	<0.00040	0.00041	0.00047	<0.00040	<0.00040	0.00026
Barium (Ba)-Total	mg/L			0.0047	0.0034	0.0031	<0.0030	0.008	0.0088	0.0037	0.0047	0.0047
Beryllium (Be)- Total	mg/L			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L			<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium (Cd)- Total	mg/L			0.000047	<0.000010	0.000033	<0.000010	0.000017	0.000013	0.000012	0.000014	0.00002
Calcium (Ca)- Total	mg/L			13.7	11.7	12.2	10.6	10.1	11.9	10.4	12.0	11.6
Chromium (Cr)- Total	mg/L			<0.0010	<0.0010	<0.0010	<0.0010	0.0098	0.0113	<0.0010	0.0011	0.0031
Cobalt (Co)-Total	mg/L			<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Copper (Cu)-Total	mg/L	0.30	0.60	0.004	0.002	0.002	0.0017	0.0074	0.0079	0.0019	0.0017	0.0036

Parameter	Units	TL-4 Max Average (mg/L)	TL-4 Max Grab (mg/L)	TL1- 12MAY12	TL1- 14MAY12	TL1- 16MAY12	TL1- 18MAY12	TL1- 20MAY12	TL1- 22MAY12	TL1- 25MAY12	TL1- 26MAY12	TL-1 Monthly Average
Iron (Fe)-Total	mg/L			0.169	0.067	0.111	0.106	2.30	2.92	0.347	0.351	0.796
Lead (Pb)-Total	mg/L	0.20	0.40	0.00024	<0.00010	<0.00010	<0.00010	0.00065	0.0007	0.00011	<0.00010	0.00024
Lithium (Li)-Total	mg/L			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Magnesium (Mg)-Total	mg/L			9.27	8.00	8.27	6.91	2.39	2.99	2.26	2.74	5.35
Manganese (Mn)-Total	mg/L			0.0052	<0.0050	<0.0050	<0.0050	0.0944	0.1090	0.1350	0.0990	0.0563
Mercury (Hg)-Total	mg/L			<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum (Mo)-Total	mg/L			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Nickel (Ni)-Total	mg/L	0.50	1.00	<0.0020	<0.0020	<0.0020	<0.0020	0.006	0.0059	<0.0020	<0.0020	0.0022
Potassium (K)-Total	mg/L			3.28	2.67	2.53	2.03	1.02	1.16	1.07	1.18	1.87
Selenium (Se)-Total	mg/L			<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silver (Ag)-Total	mg/L			<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Sodium (Na)-Total	mg/L			27.9	23.7	25.9	20.8	3.5	4.0	4.5	5.4	14.5
Thallium (Tl)-Total	mg/L			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L			<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium (Ti)-Total	mg/L			0.0014	<0.0010	<0.0010	<0.0010	0.0544	0.056	0.0102	0.0084	0.0165
Uranium (U)-Total	mg/L			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L			<0.0010	<0.0010	<0.0010	<0.0010	0.0055	0.0063	<0.0010	<0.0010	0.0019
Zinc (Zn)-Total	mg/L	0.50	1.00	0.0205	<0.0040	<0.0040	<0.0040	0.0101	0.0085	0.0047	0.0051	0.0069
Calcium (Ca)-Dissolved	mg/L			14.7	12.5	11.3	10.3	10.3	12.6	10.6	11.8	11.8
Magnesium (Mg)-Dissolved	mg/L			9.71	8.35	7.62	6.63	1.26	1.59	1.90	2.21	4.91

Note: TL-4 criteria are listed here because TL-1 and TL-4 are taken from opposite ends of the same discharge pipeline; red text indicates sample exceeds maximum grab sample discharge criteria

*elevated TSS in this sample is attributed to the sampler disturbing the substrate when collecting the sample; note the corresponding increase in total metal concentrations for these samples.