



Hope Bay Mining Ltd.
Suite 300
889 Harbourside Drive
North Vancouver, BC
V7P 3S1
T 604.998.5400
F 604.980.0731
www.newmont.com

August 16, 2012

Phyllis Beaulieu, Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Re: July 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**

Construction activities did not take place in this month.

Item 19. Surface Runoff Effluent Quality Limits

There was no runoff from construction areas, therefore, turbidity and total suspended solids samples were not collected.

Part E: Conditions Applying to Water Use**Item 1: Water Usage**

Fresh water used for domestic camp use, portable wash cars, and dust suppression is reported in Table 1.

Table 1: Water Usage for Doris North, July 2012

| Parameters | Water Use |
|---|----------------------------------|
| Water Source | Doris Lake |
| Geographical Coordinates | 68°8'17.04" N, 106°36'52.68"W |
| Monthly Cumulative | 2691 m ³ |
| Annual Cumulative | 14,191 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 2). An additional sample was collected during the AANDC inspection on July 10, 2012 following the parameter list provided by the AANDC Inspector.

Table 2: Monthly Compliance Sample Results for SNP Monitoring Station ST-7, July 2012

| Parameter | Units | ST7-09JUL12 | ST7-10JUL12 |
|---|-------|---------------------|----------------------|
| ALS ID | | L1174847-1 | L1178345-2 |
| Sample Date/Time | | 7/9/2012 7:45:00 AM | 7/10/2012 4:30:00 PM |
| Conductivity (EC) | uS/cm | 243 | - |
| Hardness (as CaCO ₃) | mg/L | 40.7 | 51.5 |
| pH | pH | 7.39 | 7.51 |
| Total Suspended Solids | mg/L | <3.0 | - |
| Alkalinity, Total (as CaCO ₃) | mg/L | - | 30.7 |
| Ammonia, Total (as N) | mg/L | <0.050 | <0.050 |
| Bicarbonate (HCO ₃) | mg/L | - | 37.5 |
| Carbonate (CO ₃) | mg/L | - | <5.0 |
| Chloride (Cl) | mg/L | - | 64 |
| Conductivity (EC) | uS/cm | - | 293 |
| Hardness (as CaCO ₃) | mg/L | - | 47.5 |
| Hydroxide (OH) | mg/L | - | <5.0 |
| Ion Balance | % | - | 97.2 |
| Nitrate and Nitrite (as N) | mg/L | - | <0.071 |
| Nitrate (as N) | mg/L | <0.050 | <0.050 |
| Nitrite (as N) | mg/L | <0.050 | <0.050 |
| Orthophosphate-Dissolved (as P) | mg/L | 0.0011 | - |
| Phosphorus (P)-Total | mg/L | <0.020 | - |
| TDS (Calculated) | mg/L | - | 134 |
| Sulfate (SO ₄) | mg/L | - | 2.48 |
| Cyanide, Total | mg/L | <0.0050 | - |
| Cyanide, Free | mg/L | <0.0050 | - |
| Aluminum (Al)-Total | mg/L | 0.0727 | 0.0515 |
| Antimony (Sb)-Total | mg/L | <0.00040 | 0.0015 |
| Arsenic (As)-Total | mg/L | <0.00040 | <0.00040 |
| Barium (Ba)-Total | mg/L | 0.0032 | 0.0045 |
| Beryllium (Be)-Total | mg/L | <0.0010 | <0.0010 |
| Boron (B)-Total | mg/L | <0.050 | <0.050 |
| Cadmium (Cd)-Total | mg/L | <0.000010 | <0.000010 |
| Calcium (Ca)-Total | mg/L | 8.51 | 10 |
| Chromium (Cr)-Total | mg/L | <0.0010 | <0.0010 |
| Cobalt (Co)-Total | mg/L | <0.0020 | <0.0020 |
| Copper (Cu)-Total | mg/L | 0.007 | 0.0032 |
| Iron (Fe)-Total | mg/L | 0.193 | 0.449 |
| Lead (Pb)-Total | mg/L | 0.00063 | 0.0003 |
| Lithium (Li)-Total | mg/L | <0.010 | <0.010 |
| Magnesium (Mg)-Total | mg/L | 5.54 | 6.43 |
| Manganese (Mn)-Total | mg/L | 0.0144 | 0.0747 |
| Mercury (Hg)-Total | mg/L | <0.000020 | <0.000020 |
| Molybdenum (Mo)-Total | mg/L | <0.0050 | <0.0050 |

| Parameter | Units | ST7-09JUL12 | ST7-10JUL12 |
|--------------------------------|--------------|----------------------------|-----------------------------|
| ALS ID | | L1174847-1 | L1178345-2 |
| Sample Date/Time | | 7/9/2012 7:45:00 AM | 7/10/2012 4:30:00 PM |
| Nickel (Ni)-Total | mg/L | <0.0020 | <0.0020 |
| Potassium (K)-Total | mg/L | 2.05 | 2.35 |
| Selenium (Se)-Total | mg/L | <0.00040 | <0.00040 |
| Silver (Ag)-Total | mg/L | <0.000020 | <0.000020 |
| Sodium (Na)-Total | mg/L | 26.9 | 31.1 |
| Thallium (Tl)-Total | mg/L | <0.00010 | <0.00010 |
| Tin (Sn)-Total | mg/L | <0.050 | <0.050 |
| Titanium (Ti)-Total | mg/L | 0.0019 | 0.0015 |
| Uranium (U)-Total | mg/L | <0.00010 | <0.00010 |
| Vanadium (V)-Total | mg/L | <0.0010 | <0.0010 |
| Zinc (Zn)-Total | mg/L | 0.0285 | 0.0112 |
| Calcium (Ca)-Dissolved | mg/L | 7.56 | 9.1 |
| Magnesium (Mg)-Dissolved | mg/L | 5.29 | 6.01 |
| Potassium (K)-Dissolved | mg/L | - | 2.29 |
| Sodium (Na)-Dissolved | mg/L | - | 32.1 |
| Biochemical Oxygen Demand | mg/L | <2.0 | - |
| Oil and Grease | mg/L | <1.0 | <1.0 |
| Oil And Grease (Visible Sheen) | | no visible sheen | no visible sheen |
| Benzene | mg/L | - | <0.00050 |
| Ethylbenzene | mg/L | - | <0.00050 |
| Toluene | mg/L | - | <0.00050 |
| o-Xylene | mg/L | - | <0.00050 |
| m+p-Xylene | mg/L | - | <0.00050 |
| Xylenes | mg/L | - | <0.00071 |
| Fecal Coliforms | CFU/100mL | <1 | |
| ALS ID | | L1174847-1 | |
| Sample Date/Time | | 7/9/2012 7:45:00 AM | |
| Blue-green algae | Cells/100 mL | 23,700 | |

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 3). 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 3: Water Quality Data Summary for Monitoring Station ST-8A, July 2012

| Parameter | Units | ST8B-09JUL12 | Doris: 2AM-DOH0713 | |
|--------------------------------|-----------|------------------------|-------------------------------------|--|
| ALS ID | | L1174847-2 | (Part G: Item 3 (b)) | |
| Sample Date/Time | | 7/9/2012 9:05:00 AM | Maximum Average Concentration | Maximum Allowable Grab Sample Concentration |
| Conductivity (EC) | uS/cm | 701 | | |
| pH | pH | 7.19 | 6.5 - 9.0 | 9 |
| Total Suspended Solids | mg/L | <3.0 | 100 | 100 |
| Biochemical Oxygen Demand | mg/L | <2.0 | 80 | 80 |
| Oil and Grease | mg/L | <1.0 | 5 | 10 |
| Oil And Grease (Visible Sheen) | | no visible sheen | No Visible Sheen | No Visible Sheen |
| Fecal Coliform | CFU/100mL | <1 | 10,000 | 10,000 |

Station ST-9 was sampled in June (Table 4).

Table 4: Water Quality Data Summary for Monitoring Station ST-9, July 2012

| Parameter | Units | ST9-09JUL12 |
|--------------------------------|-----------|---------------------|
| ALS ID | | L1174847-3 |
| Sample Date/Time | | 7/9/2012 8:37:00 AM |
| Conductivity (EC) | uS/cm | 321 |
| pH | pH | 7.77 |
| Total Suspended Solids | mg/L | <3.0 |
| Biochemical Oxygen Demand | mg/L | <2.0 |
| Oil and Grease | mg/L | <1.0 |
| Oil And Grease (Visible Sheen) | | no visible sheen |
| Fecal Coliform | CFU/100mL | <1 |

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 | 505 | 4.87 |
| Annual Cumulative | 3929 | 22.26 |

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

As described in the 2012 Interim Water Management Plan, the Sedimentation Pond (ST-1) is being used as a collection pond for the water that accumulated in the Pollution Control Pond (ST-2) and the two Underflow Sumps (STS1 and STS2), and occasionally from various berms and containments in the project area. Water that had been stored in the temporary pollution control pond from the 2011 season was also transferred into ST-1. The water in ST-1 is then transferred to the Tailings Impoundment Area (TIA) when the accumulated volume permits. Water was transferred from ST-1 to the TIA beginning in June 2012 (Table 6). The water quality samples collected from ST-1 are summarized in Table 7, which is provided at the end of this report.

Table 6: Water in cubic meters (m³) transferred from ST-1 to the TIA, June 2012

| Parameters | Water volume transferred from ST-1 to TIA (m ³) |
|--------------------|---|
| Monthly Cumulative | 3223 |
| Annual Cumulative | 9107 |

Water from the land farm (ST-4) was sampled on June 24, 2012. The results were compliant (Table 8) with the water licence criteria and approximately 180 m³ was used for dust suppression.

Table 8: Water in cubic meters (m³) removed from ST-4, July 2012

| Parameter | Units | ST4-24JUN12A | Maximum Average Concentration (mg/L) | Maximum Concentration in any Grab Sample (mg/L) |
|--------------------------------|-------|-----------------------------|--------------------------------------|---|
| ALS ID | | L1167650-1 | | |
| Sample Date/Time | | 6/24/2012 2:30:00 PM | | |
| Conductivity (EC) | uS/cm | 719 | - | - |
| pH | pH | 8.22 | 6.0 - 9.0 | 9.0 |
| Total Suspended Solids | mg/L | <3.0 | 15 | 30 |
| Ammonia, Total (as N) | mg/L | 0.427 | 2.0 | 4.0 |
| Lead (Pb)-Total | mg/L | <0.00010 | 0.01 | 0.02 |
| Oil and Grease | mg/L | <1.0 | 5 | 10.0 |
| Oil And Grease (Visible Sheen) | | no visible sheen | no visible sheen | no visible sheen |
| Benzene | mg/L | <0.00050 | 0.37 | - |
| Ethylbenzene | mg/L | <0.00050 | 0.090 | - |
| Toluene | mg/L | <0.00050 | 0.002 | - |

Water from the Doris Tank Farm (ST-5) was sampled on 15 May 2012. A visible sheen was detected in the sample, therefore, the oil-water separator was set up and a compliant sample was collected on 31 May 2012. Discharge began on 8 June 2012 via the oil-water separator; 655 m³ was discharged in June, and a final 6 m³ was pumped in July. Daily samples were collected during discharge (Table 9).

Table 9: ST-5 (Doris Tank Farm) During-discharge Samples, July 2012

| Parameter | Units | ST5-01 JUL 12 | ST5-04JUL12 | Maximum Average Concentration (mg/L) | Maximum Concentration in any Grab Sample (mg/L) |
|--------------------------------|-------|----------------------------|----------------------------|--------------------------------------|---|
| ALS ID | | L1171257-1 | L1174465-1 | | |
| Sample Date/Time | | 7/1/2012 3:23:00 PM | 7/4/2012 2:50:00 PM | | |
| pH | pH | 8.23 | 8.29 | 6.5 – 9.0 | 9.0 |
| Total Suspended Solids | mg/L | <3.0 | <3.0 | 15 | 30 |
| Lead (Pb)-Total | mg/L | <0.00010 | <0.00010 | 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 | |

Water had not accumulated in the Roberts Bay 5 million litre fuel tank berm (ST-6a) in July.

Water from the Roberts Bay Bulk Fuel Containment (ST-6b) was sampled on 15 May 2012. A visible sheen was detected in the sample, therefore, the oil-water separator was set up and a compliant sample was collected on 31 May 2012. A total of 971 m³ of water was removed from the berm in June and a final 132 m³ was removed in the beginning of July; the water was used for dust suppression on the roads.

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

Water Samples were collected from TL-2, TL-3, TL-4, and TL-10 as per the requirements of the licence. Note that TL-1 is taken from the intake end and TL-4 is taken from the discharge end of the same pipe; therefore, samples collected as TL-4 during the dewatering program also fulfill the sampling requirements for TL-1. Sample results for TL-4 are provided in Table 10, which is provided at the end of this report. As expected, discharged water was well below the discharge criteria in the water licence.

Water from the mine site (ST-1 and ST-2) was discharged into Tail Lake periodically (Table 6 and 7).

Water collected from TL-4 was shown to be non-acutely toxic to trout or daphnia (Table 11).

Table 11: Acute Lethality Test Results for TL-4, July 2012

| Parameter | TL4-14JUN12 | Analyst Comments |
|------------------|----------------------|--------------------|
| ALS ID | L1178343-3 | |
| Sample Date/Time | 7/12/2012 5:20:00 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.

Sample results for TL-2 (Doris Creek upstream) are presented in Table 12, which is provided at the end of this report. Sample results for TL-3 (Doris Creek downstream) and a comparison of these results to TL-2 sample results is provided in Table 13, which is also provided at the end of this report. As expected, the TL-3 (downstream of discharge) water quality was similar to the TL-2 (upstream Doris Creek background). Water quality samples at TL-3 indicated that aluminum slightly exceeded criteria on July 4.

Item 30: Tailings Impoundment Area Discharge Volume

Dewatering of the Tailings Impoundment Area commenced on 11 June 2012. The daily discharge and maximum permitted discharge volumes are presented in Table 14.

Table 14: Daily Permitted and Actual Discharge Volumes for the TIA Dewatering Program, July 2012

| Date | TL-2 Discharge Volume (m ³) | Max. Discharge Volume Allowed - 10% of TL-2 (m ³) [†] | Total Daily Vol. Discharged (m ³) | Elevation of TIA (m) |
|----------------------|---|--|---|----------------------|
| July 1, 2012 | 162430 | 16243 | 8907 | 29.4 |
| July 2, 2012 | 154660 | 15466 | 8733 | 29.39 |
| July 3, 2012 | 146880 | 14688 | 8814 | 29.38 |
| July 4, 2012 | 144290 | 14429 | 8701 | 29.37 |
| July 5, 2012 | 137380 | 13738 | 8837 | 29.36 |
| July 6, 2012 | 130460 | 13046 | 7445 | 29.36 |
| July 7, 2012 | 127870 | 12787 | 8745 | 29.34 |
| July 8, 2012 | 121820 | 12182 | 8800 | 29.34 |
| July 9, 2012 | 115780 | 11578 | 7295 | 29.33 |
| July 10, 2012 | 118110 | 11811 | 8542 | 29.32 |
| July 11, 2012 | 113960 | 11396 | 8338 | 29.31 |
| July 12, 2012 | 110060 | 11006 | 8471 | 29.3 |
| July 13, 2012 | 106390 | 10639 | 9146 | 29.28 |
| July 14, 2012 | 102970 | 10297 | 7269 | 29.27 |
| July 15, 2012 | 99790 | 9979 | 8756 | 29.26 |
| July 16, 2012 | 96850 | 9685 | 8545 | 29.25 |
| July 17, 2012 | 94160 | 9416 | 7963 | 29.24 |
| July 18, 2012 | 67400 | 6740 | 6428 | 29.235 |
| July 19, 2012 | 63400 | 6340 | 6928 [^] | 29.22 |
| July 20, 2012 | 59350 | 5935 | 5225 | 29.215 |
| July 21, 2012 | 55500 | 5550 | 4836 | 29.22 |
| July 22, 2012 | 51780 | 5178 | 4613 | 29.22 |
| July 23, 2012 | 48200 | 4820 | 21* | 29.175 |
| July 24, 2012 | 60910 | 6091 | 0* | 29.22 |
| July 25, 2012 | 56060 | 5606 | 0* | 29.22 |
| July 26, 2012 | 55190 | 5519 | 4764 | 29.22 |
| July 27, 2012 | 45710 | 4571 | 3983 | 29.215 |
| July 28, 2012 | 45710 | 4571 | 4001 | 29.205 |
| July 29, 2012 | 45710 | 4571 | 4106 | 29.205 |
| July 30, 2012 | 49330 | 4933 | 4239 | 29.2 |
| July 31, 2012 | 47950 | 4795 | 4173 | 29.195 |
| <i>Monthly Total</i> | | <i>283606</i> | <i>196625</i> | |
| <i>Annual Total</i> | | <i>713178</i> | <i>364356</i> | |

Notes: [†]Data provided by Rescan from the TL-2 continuously monitoring hydrostation. *Pump turned off for servicing. [^]Communication gap resulted in night watch turning up pump; pump now labeled to speak to ESR prior to changing pump settings.

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

Water quality at station TL-10 is provided in Table 15.

Table 15: Daily Permitted and Actual Discharge Volumes for the TIA Dewatering Program, July 2012

| Parameter | Units | TL10-24JUL12A | TL10-24JUL12B | TL10-24JUL12C |
|----------------------------------|-------|----------------------|----------------------|----------------------|
| ALS ID | | L1185478-4 | L1185478-5 | L1185478-6 |
| Sample Date/Time | | 7/24/2012 9:00:00 AM | 7/24/2012 9:00:00 AM | 7/24/2012 9:00:00 AM |
| Conductivity (EC) | uS/cm | 175 | 175 | 175 |
| Hardness (as CaCO ₃) | mg/L | 41.9 | 41.8 | 42.1 |
| pH | pH | 8 | 7.82 | 7.77 |
| Redox Potential | mV | 140 | 145 | 139 |
| Total Suspended Solids | mg/L | <3.0 | <3.0 | <3.0 |
| Total Dissolved Solids | mg/L | 103 | 100 | 99 |
| Ammonia, Total (as N) | mg/L | <0.050 | <0.050 | <0.050 |
| Chloride (Cl) | mg/L | 29.7 | 29.9 | 29.8 |
| Nitrate (as N) | mg/L | <0.050 | <0.050 | <0.050 |
| 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 | 0.0109 | 0.0156 | 0.0153 |
| 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 | <0.0030 | <0.0030 | <0.0030 |
| 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 | 8.2 | 8.42 | 8.6 |
| 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 | 0.0011 | 0.0012 | 0.0011 |
| Iron (Fe)-Total | mg/L | 0.127 | 0.141 | 0.145 |
| Lead (Pb)-Total | mg/L | <0.00010 | <0.00010 | <0.00010 |
| Lithium (Li)-Total | mg/L | <0.010 | <0.010 | <0.010 |
| Magnesium (Mg)-Total | mg/L | 4.68 | 4.68 | 4.85 |
| Manganese (Mn)-Total | mg/L | 0.0158 | 0.0156 | 0.0161 |
| 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 | 1.58 | 1.3 | 1.41 |
| 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 | 14.2 | 13.5 | 13.7 |
| 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 |

| Parameter | Units | TL10-24JUL12A | TL10-24JUL12B | TL10-24JUL12C |
|--------------------------|-------|----------------------|----------------------|----------------------|
| ALS ID | | L1185478-4 | L1185478-5 | L1185478-6 |
| Sample Date/Time | | 7/24/2012 9:00:00 AM | 7/24/2012 9:00:00 AM | 7/24/2012 9:00:00 AM |
| 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 | <0.0040 | <0.0040 | <0.0040 |
| Calcium (Ca)-Dissolved | mg/L | 8.83 | 8.79 | 8.84 |
| Magnesium (Mg)-Dissolved | mg/L | 4.83 | 4.83 | 4.87 |

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. 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

There was no ice cover on Tail Lake.

Environmental Incident Reporting

There were 2 environmental incidents in this reporting period:

- Fuel in one of the tanks on the Rimpull expanded and came out of the tank around the fill cap. Est. ½ liter spilt onto the gravel pad beneath Rimpull truck. The area was cleaned up and some of the fuel in the tank was sucked out to prevent future overflow expansion related spills. Contaminated materials were taken to waste management for offsite disposal.
- A palletized drum of waste oil was punctured by the tracks of a skid steer which was working in the area. Approximately 30 L of oil was spilt out of the barrel into the berm. The punctured drum was noticed soon after puncture, and oil collected in a bucket until the drum was plugged. The hole in the barrel was plugged, the barrel was removed and drained and all spilt oil and contaminated gravel from the berm surface was removed by Waste Management for off-site disposal. Other nearby drums that had also been scraped by the skid steer tracks (but not punctured) were drained and the oil transferred to new, undamaged, drums.

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: Water Quality Data Summary for Monitoring Station ST-1, July 2012

| Parameters | Units | Maximum Average Concentration (mg/L) | Maximum Concentration in any Grab Sample (mg/L) | ST1-04JUL12 | ST1-10JUL12 | ST1-11JUL12 | ST1-22JUL12 | ST1-29JUL12 |
|---|-------|--------------------------------------|---|------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| | | | | L1174452-1 | L1178345-3 | L1178348-1 | L1182757-1 | L1186288-1 |
| | | | | 7/4/2012 9:00:00 AM | 7/10/2012 4:30:00 PM | 7/11/2012 5:00:00 PM | 7/22/2012 5:30:00 PM | 7/29/2012 11:00:00 AM |
| Hardness (as CaCO ₃) | mg/L | | | 2140 | 2010 | 2080 | 1600 | - |
| pH | pH | 6.0 - 9.0 | 9 | 7.63 | 7.67 | 7.77 | 7.99 | 8.07 |
| Total Suspended Solids | mg/L | 15 | 30 | 22 | <3.0 | 10 | 15 | 7 |
| Alkalinity, Total (as CaCO ₃) | mg/L | | | 75.2 | - | 85.5 | 122 | 122 |
| Ammonia, Total (as N) | mg/L | 2 | 4 | 38.1 | 30 | 29.1 | 22.7 | 30.7 |
| Bicarbonate (HCO ₃) | mg/L | | | 91.7 | - | 104 | 148 | 148 |
| Carbonate (CO ₃) | mg/L | | | <5.0 | - | <5.0 | <5.0 | <5.0 |
| Chloride (Cl) | mg/L | | | 2250 | - | 2150 | 1480 | 1900 |
| Conductivity (EC) | uS/cm | | | 8170 | - | 7860 | 5780 | 6780 |
| Hardness (as CaCO ₃) | mg/L | | | 2480 | - | 1980 | 1630 | 1750 |
| Hydroxide (OH) | mg/L | | | <5.0 | - | <5.0 | <5.0 | <5.0 |
| Nitrate and Nitrite (as N) | mg/L | | | 122 | - | 120 | 86.9 | 109 |
| Nitrate (as N) | mg/L | | | 122 | 122 | 120 | 86.9 | 109 |
| Nitrite (as N) | mg/L | | | <0.50 | 0.55 | 0.51 | <0.50 | <0.50 |
| TDS (Calculated) | mg/L | | | 4610 | - | 4240 | 3310 | 3860 |
| Sulfate (SO ₄) | mg/L | | | 133 | 147 | 160 | 193 | 177 |
| Cyanide, Total | mg/L | 1 | 2 | 0.0057 | <0.0050 | <0.0050 | 0.0071 | 0.0198 |
| Aluminum (Al)-Total | mg/L | 1 | 2 | 0.816 | 0.386 | 0.35 | 0.483 | 0.224 |
| Antimony (Sb)-Total | mg/L | | | <0.0016 | <0.00080 | <0.00080 | <0.00080 | 0.0009 |
| Arsenic (As)-Total | mg/L | 0.05 | 0.1 | <0.0016 | 0.00114 | 0.00129 | 0.00162 | 0.0017 |
| Barium (Ba)-Total | mg/L | | | 0.168 | 0.191 | 0.162 | 0.142 | 0.157 |
| Beryllium (Be)-Total | mg/L | | | <0.0040 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Boron (B)-Total | mg/L | | | 0.43 | 0.51 | 0.46 | 0.44 | 0.4 |
| Cadmium (Cd)-Total | mg/L | | | 0.000149 | 0.000095 | 0.000132 | 0.000127 | 0.000642 |
| Calcium (Ca)-Total | mg/L | | | 713 | 694 | 699 | 516 | 595 |
| Chromium (Cr)-Total | mg/L | | | <0.0040 | 0.0029 | 0.0021 | 0.004 | 0.0023 |
| Cobalt (Co)-Total | mg/L | | | <0.0080 | 0.0046 | 0.0044 | 0.0048 | 0.0061 |
| Copper (Cu)-Total | mg/L | 0.02 | 0.3 | 0.0097 | 0.009 | 0.0091 | 0.0108 | 0.0094 |

Table 7 (cont.): Water Quality Data Summary for Monitoring Station ST-1, July 2012

| Parameters | Units | Maximum Average Concentration (mg/L) | Maximum Concentration in any Grab Sample (mg/L) | ST1-04JUL12 | ST1-10JUL12 | ST1-11JUL12 | ST1-22JUL12 | ST1-29JUL12 |
|--------------------------------|-------|--------------------------------------|---|------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| | | | | L1174452-1 | L1178345-3 | L1178348-1 | L1182757-1 | L1186288-1 |
| | | | | 7/4/2012 9:00:00 AM | 7/10/2012 4:30:00 PM | 7/11/2012 5:00:00 PM | 7/22/2012 5:30:00 PM | 7/29/2012 11:00:00 AM |
| Iron (Fe)-Total | mg/L | 0.3 | 0.6 | 1.13 | 1.92 | 0.62 | 1.55 | 1.18 |
| Lead (Pb)-Total | mg/L | 0.01 | 0.02 | <0.00040 | 0.00067 | 0.00023 | 0.00029 | 0.00079 |
| Lithium (Li)-Total | mg/L | | | 0.118 | 0.119 | 0.101 | 0.091 | 0.09 |
| Magnesium (Mg)-Total | mg/L | | | 86.7 | 84.9 | 81.7 | 75.4 | 77.7 |
| Manganese (Mn)-Total | mg/L | | | 0.687 | 0.481 | 0.447 | 0.739 | 1.17 |
| Mercury (Hg)-Total | mg/L | | | <0.000020 | 0.000021 | <0.000020 | <0.000020 | <0.000020 |
| Molybdenum (Mo)-Total | mg/L | | | <0.020 | <0.010 | <0.010 | <0.010 | <0.010 |
| Nickel (Ni)-Total | mg/L | 0.05 | 0.1 | <0.0080 | 0.005 | 0.0043 | 0.007 | 0.0061 |
| Potassium (K)-Total | mg/L | | | 41 | 42.1 | 40.6 | 32.4 | 31.1 |
| Selenium (Se)-Total | mg/L | | | 0.0034 | 0.00332 | 0.00328 | 0.00422 | 0.00363 |
| Silver (Ag)-Total | mg/L | | | <0.000080 | <0.000040 | <0.000040 | <0.000040 | 0.000458 |
| Sodium (Na)-Total | mg/L | | | 576 | 674 | 643 | 480 | 545 |
| Thallium (Tl)-Total | mg/L | | | <0.00040 | <0.00020 | <0.00020 | <0.00020 | 0.00056 |
| Tin (Sn)-Total | mg/L | | | <0.20 | <0.10 | <0.10 | <0.10 | <0.10 |
| Titanium (Ti)-Total | mg/L | | | 0.0357 | 0.0103 | 0.0139 | 0.0191 | 0.0139 |
| Uranium (U)-Total | mg/L | | | 0.00149 | 0.00151 | 0.00157 | 0.00197 | 0.00207 |
| Vanadium (V)-Total | mg/L | | | <0.0040 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Zinc (Zn)-Total | mg/L | 0.01 | 0.02 | 0.073 | 0.185 | 0.0939 | 0.064 | 0.173 |
| Calcium (Ca)-Dissolved | mg/L | | | 841 | 679 | 660 | 528 | 574 |
| Magnesium (Mg)-Dissolved | mg/L | | | 92.4 | 77.1 | 80.9 | 75.2 | 76.9 |
| Potassium (K)-Dissolved | mg/L | | | 45 | - | 38.1 | 34.6 | 31.1 |
| Sodium (Na)-Dissolved | mg/L | | | 659 | - | 568 | 544 | 33.8 |
| Oil and Grease | mg/L | 5 | 10 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 |
| Oil And Grease (Visible Sheen) | | no visible sheen | no visible sheen | no visible sheen | no visible sheen | no visible sheen | no visible sheen | no visible sheen |

Note: Red text indicates that value is above the discharge criteria when discharging to tundra. All water from ST-1 was discharged to Tail Lake T1A

Table 10: TL-4 Sample Results, July 2012

| Parameters | Units | TL-4 Max Average (mg/L) | TL-4 Max Grab (mg/L) | TL4-04JUL12 | TL4-12JUL12 | TL4-22JUL12 | TL4-29JUL12 | TL1/TL4 Monthly Average |
|------------------------------------|-------|-------------------------------|----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------------|
| ALS ID | | | | L1174461-3 | L1178343-3 | L1182755-3 | L1186283-3 | |
| Sample Date/Time | | | | 7/4/2012 11:00:00 AM | 7/12/2012 5:20:00 PM | 7/22/2012 4:40:00 PM | 7/29/2012 2:30:00 PM | |
| Conductivity (EC) | uS/cm | | | - | 165 | 189 | 195 | 183 |
| Hardness (as CaCO3) | mg/L | | | 44.5 | 42.3 | 48.4 | - | 45.1 |
| pH | pH | 6.0 - 9.0 | 9 | - | 7.87 | 8 | 7.96 | 7.94 |
| Redox Potential | mV | | | - | - | 155 | - | 155 |
| Total Suspended Solids | mg/L | 15 | 30 | - | <3.0 | <3.0 | <3.0 | <3.0 |
| Total Dissolved Solids | mg/L | | | - | 109 | 135 | 120 | 121 |
| Ammonia, Total (as N) | mg/L | 6 | - | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Chloride (Cl) | mg/L | | | - | 28.1 | 32.4 | 35 | 31.8 |
| Nitrate (as N) | mg/L | | | - | <0.050 | <0.050 | 0.055 | 0.035 |
| Nitrite (as N) | mg/L | | | - | <0.050 | <0.050 | <0.050 | <0.050 |
| Orthophosphate-Dissolved (as P) | mg/L | | | <0.0010 | <0.0010 | 0.0012 | 0.005 | 0.0018 |
| Phosphorus (P)-Total | mg/L | | | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 |
| Cyanide, Total | mg/L | 1 | 2 | <0.0050 | <0.0050 | <0.0010 | 0.0135 | 0.0048 |
| Cyanide, Free | mg/L | | | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Aluminum (Al)-Total | mg/L | | | 0.0078 | 0.0338 | 0.0101 | 0.0073 | 0.0148 |
| Antimony (Sb)-Total | mg/L | | | <0.00040 | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Arsenic (As)-Total | mg/L | 0.5 | 1 | <0.00040 | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Barium (Ba)-Total | mg/L | | | <0.0030 | <0.0030 | <0.0030 | <0.0030 | <0.0030 |
| Beryllium (Be)-Total | mg/L | | | <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 |
| Cadmium (Cd)-Total | mg/L | | | <0.000010 | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Calcium (Ca)-Total | mg/L | | | 10.5 | 9.49 | 9.92 | 10.1 | 10.0 |
| Chromium (Cr)-Total | mg/L | | | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Cobalt (Co)-Total | mg/L | | | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Copper (Cu)-Total | mg/L | 0.3 | 0.6 | <0.0010 | 0.0012 | 0.0011 | 0.001 | 0.0010 |
| Iron (Fe)-Total | mg/L | | | 0.154 | 0.216 | 0.237 | 0.195 | 0.201 |
| Lead (Pb)-Total | mg/L | 0.2 | 0.4 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| Lithium (Li)-Total | mg/L | | | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 |
| Magnesium (Mg)-Total | mg/L | | | 4.46 | 4.82 | 4.83 | 5.04 | 4.79 |

Note: TL-1 and TL-4 are opposite ends of the same discharge pipeline, therefore, separate TL-1 samples were not collected

Table 10 (cont): TL-4 Sample Results, July 2012

| Parameters | Units | TL-4 Max Average (mg/L) | TL-4 Max Grab (mg/L) | TL4-04JUL12 | TL4-12JUL12 | TL4-22JUL12 | TL4-29JUL12 | TL1/TL4 Monthly Average |
|--------------------------|---------------|-------------------------------|----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------------|
| ALS ID | | | | L1174461-3 | L1178343-3 | L1182755-3 | L1186283-3 | |
| Sample Date/Time | | | | 7/4/2012 11:00:00 AM | 7/12/2012 5:20:00 PM | 7/22/2012 4:40:00 PM | 7/29/2012 2:30:00 PM | |
| Manganese (Mn)-Total | mg/L | | | 0.0129 | 0.0195 | 0.0156 | 0.0075 | 0.0139 |
| Mercury (Hg)-Total | mg/L | | | <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 |
| Nickel (Ni)-Total | mg/L | 0.5 | 1 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Potassium (K)-Total | mg/L | | | 1.49 | 1.55 | 1.59 | 1.68 | 1.58 |
| Selenium (Se)-Total | mg/L | | | <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 |
| Sodium (Na)-Total | mg/L | | | 13.8 | 14.8 | 13.7 | 15.5 | 14.5 |
| Thallium (Tl)-Total | mg/L | | | <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 |
| Titanium (Ti)-Total | mg/L | | | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Uranium (U)-Total | mg/L | | | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| Vanadium (V)-Total | mg/L | | | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Zinc (Zn)-Total | mg/L | 0.5 | 1 | <0.0040 | <0.0040 | 0.0079 | <0.0040 | 0.0035 |
| Calcium (Ca)-Dissolved | mg/L | | | - | 8.92 | 10.7 | 10.1 | 9.9 |
| Magnesium (Mg)-Dissolved | mg/L | | | - | 4.86 | 5.23 | 5.12 | 5.07 |
| Radium-226 | Bq/L | | | - | - | - | <0.005 | <0.005 |
| Fecal Coliforms | CFU/1 00mL | 10,000 | 10,000 | - | <1 | - | - | <1 |

Note: TL-1 and TL-4 are opposite ends of the same discharge pipeline, therefore, separate TL-1 samples were not collected

Table 12: TL-2 Sample Results, July 2012

| Parameter | Units | Maximum Concentration of Any Grab Sample (mg/L) - TL-3 | TL2-04JUL12 | TL2-12JUL12 | TL2-22JUL12 | TL2-29JUL12 |
|---------------------------------|-------|--|-----------------------------|-----------------------------|------------------------------|-----------------------------|
| ALS ID | | | L1174461-1 | L1178343-1 | L1182755-1 | L1186283-1 |
| Sample Date/Time | | | 7/4/2012 10:45:00 AM | 7/12/2012 5:05:00 PM | 7/22/2012 11:24:00 AM | 7/29/2012 2:30:00 PM |
| Conductivity (EC) | uS/cm | | - | 274 | 269 | 279 |
| Hardness (as CaCO3) | mg/L | | 28.7 | 48.7 | 46.1 | 44.7 |
| pH | pH | 6.0 - 9.0 | - | 7.77 | 7.99 | 7.82 |
| Total Suspended Solids | mg/L | 15 | - | <3.0 | <3.0 | <3.0 |
| Total Dissolved Solids | mg/L | | - | 176 | 171 | 163 |
| Ammonia, Total (as N) | mg/L | 1.54* | <0.050 | <0.050 | <0.050 | <0.050 |
| Chloride (Cl) | mg/L | 150 | - | 61.2 | 59.4 | 63.1 |
| Nitrate (as N) | mg/L | 2.9 | - | <0.050 | <0.050 | <0.050 |
| Nitrite (as N) | mg/L | 0.06 | - | <0.050 | <0.050 | <0.050 |
| Orthophosphate-Dissolved (as P) | mg/L | | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Phosphorus (P)-Total | mg/L | | <0.020 | 0.02 | <0.020 | 0.028 |
| Cyanide, Total | mg/L | 0.01 | <0.0050 | <0.0050 | - | <0.0050 |
| Cyanide, Free | mg/L | 0.005 | <0.0050 | <0.0050 | - | <0.0050 |
| Aluminum (Al)-Total | mg/L | 0.1 | 0.0928 | 0.083 | 0.105 | 0.0363 |
| Antimony (Sb)-Total | mg/L | | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Arsenic (As)-Total | mg/L | 0.005 | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Barium (Ba)-Total | mg/L | | <0.0030 | 0.0035 | 0.0043 | 0.0032 |
| Beryllium (Be)-Total | mg/L | | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Boron (B)-Total | mg/L | | <0.050 | <0.050 | <0.050 | <0.050 |
| Cadmium (Cd)-Total | mg/L | 0.000017 | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Calcium (Ca)-Total | mg/L | | 5.28 | 9.52 | 7.16 | 8.62 |
| Chromium (Cr)-Total | mg/L | 0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Cobalt (Co)-Total | mg/L | | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Copper (Cu)-Total | mg/L | 0.002 | 0.0011 | 0.0014 | 0.0015 | 0.0013 |
| Iron (Fe)-Total | mg/L | 0.3 | 0.198 | 0.367 | 0.125 | 0.165 |
| Lead (Pb)-Total | mg/L | 0.001 | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| Lithium (Li)-Total | mg/L | | <0.010 | <0.010 | <0.010 | <0.010 |
| Magnesium (Mg)-Total | mg/L | | 3.78 | 6.07 | 5.42 | 6.15 |
| Manganese (Mn)-Total | mg/L | | 0.011 | 0.0568 | 0.013 | 0.0264 |
| Mercury (Hg)-Total | mg/L | 0.000026 | <0.000020 | <0.000020 | <0.000020 | <0.000020 |
| Molybdenum (Mo)-Total | mg/L | 0.0073 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |

Note: Ammonia maximum criteria based on pH 7 at 20°C. Red text indicates exceedence of TL-3 (downstream) criteria at TL-2 (upstream)

Table 12 (cont): TL-2 Sample Results, July 2012

| Parameter | Units | Maximum Concentration of Any Grab Sample (mg/L) - TL-3 | TL2-04JUL12 | TL2-12JUL12 | TL2-22JUL12 | TL2-29JUL12 |
|--------------------------|-------|--|-----------------------------|-----------------------------|------------------------------|-----------------------------|
| ALS ID | | | L1174461-1 | L1178343-1 | L1182755-1 | L1186283-1 |
| Sample Date/Time | | | 7/4/2012 10:45:00 AM | 7/12/2012 5:05:00 PM | 7/22/2012 11:24:00 AM | 7/29/2012 2:30:00 PM |
| Nickel (Ni)-Total | mg/L | 0.025 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Potassium (K)-Total | mg/L | | 1.2 | 2.21 | 1.79 | 2.28 |
| Selenium (Se)-Total | mg/L | 0.001 | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Silver (Ag)-Total | mg/L | 0.00001 | <0.000020 | <0.000020 | <0.000020 | <0.000020 |
| Sodium (Na)-Total | mg/L | | 17.2 | 30.8 | 466 | 30.1 |
| Thallium (Tl)-Total | mg/L | 0.0008 | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| Tin (Sn)-Total | mg/L | | <0.050 | <0.050 | <0.050 | <0.050 |
| Titanium (Ti)-Total | mg/L | | 0.0024 | 0.0027 | 0.0033 | 0.0018 |
| Uranium (U)-Total | mg/L | | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| Vanadium (V)-Total | mg/L | | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Zinc (Zn)-Total | mg/L | 0.03 | 0.0044 | 0.002 | 0.002 | 0.002 |
| Calcium (Ca)-Dissolved | mg/L | | - | 8.84 | 8.38 | 8.2 |
| Magnesium (Mg)-Dissolved | mg/L | | - | 6.45 | 6.11 | 5.88 |

Note: Ammonia maximum criteria based on pH 7 at 20°C. Red text indicates exceedence of TL-3 (downstream) criteria at TL-2 (upstream)

Table 13: TL-3 Sample Results and Comparison to TL-2 Sample Results, July 2012

| Parameter | Units | Maximum Concentration of Any Grab Sample (mg/L) – TL-3 | TL3-04JUL12 | TL3-12JUL12 | TL3-22JUL12 | TL3-29JUL12 |
|----------------------------------|-------|--|----------------------|----------------------|----------------------|----------------------|
| ALS ID | | | L1174461-2 | L1178343-2 | L1182755-2 | L1186283-2 |
| Sample Date/Time | | | 7/4/2012 11:20:00 AM | 7/12/2012 5:40:00 PM | 7/22/2012 4:45:00 PM | 7/29/2012 2:30:00 PM |
| Conductivity (EC) | uS/cm | | - | 267 | 265 | 271 |
| Hardness (as CaCO ₃) | mg/L | | 31 | 46.8 | 47.4 | - |
| pH | pH | 6.0 - 9.0 | - | 7.8 | 7.75 | 7.71 |
| Total Suspended Solids | mg/L | 15 | - | <3.0 | <3.0 | <3.0 |
| Total Dissolved Solids | mg/L | | - | 169 | 166 | 168 |
| Ammonia, Total (as N) | mg/L | 1.54 | <0.050 | <0.050 | <0.050 | <0.050 |
| Chloride (Cl) | mg/L | 150 | - | 58.6 | 57.4 | 61.2 |
| Nitrate (as N) | mg/L | 2.9 | - | <0.0050 | <0.050 | <0.050 |
| Nitrite (as N) | mg/L | 0.06 | - | <0.0010 | <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 | 0.02 |
| Cyanide, Total | mg/L | 0.01 | <0.0050 | <0.0050 | <0.0010 | <0.0050 |
| Cyanide, Free | mg/L | 0.005 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Aluminum (Al)-Total | mg/L | 0.1 | 0.119 | 0.0623 | 0.0985 | 0.0303 |
| Antimony (Sb)-Total | mg/L | | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Arsenic (As)-Total | mg/L | 0.005 | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Barium (Ba)-Total | mg/L | | <0.0030 | 0.0036 | 0.0035 | 0.003 |
| Beryllium (Be)-Total | mg/L | | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Boron (B)-Total | mg/L | | <0.050 | <0.050 | <0.050 | <0.050 |
| Cadmium (Cd)-Total | mg/L | 0.000017 | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Calcium (Ca)-Total | mg/L | | 5.88 | 9.53 | 7.58 | 8.7 |
| Chromium (Cr)-Total | mg/L | 0.001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Cobalt (Co)-Total | mg/L | | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Copper (Cu)-Total | mg/L | 0.002 | 0.0011 | 0.0015 | 0.0015 | 0.0013 |
| Iron (Fe)-Total | mg/L | 0.3 | 0.209 | 0.327* | 0.125 | 0.162 |
| Lead (Pb)-Total | mg/L | 0.001 | 0.00014 | <0.00010 | <0.00010 | <0.00010 |
| Lithium (Li)-Total | mg/L | | <0.010 | <0.010 | <0.010 | <0.010 |

Notes: Ammonia maximum criteria based on pH 7 at 20°C. Red text indicates over licence discharge criteria. Red text with a * indicates TL-2 and TL-3 were above the licence discharge criteria on that date. Black text with a * indicates that value is above licence criteria but below TL-2 on that date.

Table 13 (cont): TL-3 Sample Results and Comparison to TL-2 Sample Results, July 2012

| Parameter | Units | Maximum Concentration of Any Grab Sample (mg/L) – TL-3 | TL3-04JUL12 | TL3-12JUL12 | TL3-22JUL12 | TL3-29JUL12 |
|--------------------------------|-------|--|----------------------|----------------------|----------------------|----------------------|
| ALS ID | | | L1174461-2 | L1178343-2 | L1182755-2 | L1186283-2 |
| Sample Date/Time | | | 7/4/2012 11:20:00 AM | 7/12/2012 5:40:00 PM | 7/22/2012 4:45:00 PM | 7/29/2012 2:30:00 PM |
| Magnesium (Mg)-Total | mg/L | | 3.97 | 6.23 | 5.31 | 6.09 |
| Manganese (Mn)-Total | mg/L | | 0.0109 | 0.0429 | 0.0131 | 0.0238 |
| Mercury (Hg)-Total | mg/L | 0.000026 | <0.000020 | <0.000020 | <0.000020 | <0.000020 |
| Molybdenum (Mo)-Total | mg/L | 0.0073 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Nickel (Ni)-Total | mg/L | 0.025 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Potassium (K)-Total | mg/L | | 1.4 | 2.18 | 1.87 | 2.14 |
| Selenium (Se)-Total | mg/L | 0.001 | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Silver (Ag)-Total | mg/L | 0.00001 | <0.000020 | <0.000020 | <0.000020 | <0.000020 |
| Sodium (Na)-Total | mg/L | | 19 | 30.2 | 25.3 | 28.1 |
| Thallium (Tl)-Total | mg/L | 0.0008 | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| Tin (Sn)-Total | mg/L | | <0.050 | <0.050 | <0.050 | <0.050 |
| Titanium (Ti)-Total | mg/L | | 0.0024 | 0.0016 | 0.0037 | 0.0013 |
| Uranium (U)-Total | mg/L | | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| Vanadium (V)-Total | mg/L | | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Zinc (Zn)-Total | mg/L | 0.03 | 0.0171 | <0.0040 | <0.0040 | <0.0040 |
| Magnesium (Mg)-Dissolved | mg/L | | - | 6.1 | 6.2 | 6.09 |
| Hexavalent Chromium | mg/L | | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Oil and Grease | mg/L | 5 | <1.0 | <1.0 | <1.0 | <1.0 |
| Oil And Grease (Visible Sheen) | | | no visible sheen | no visible sheen | no visible sheen | no visible sheen |

Notes: Ammonia maximum criteria based on pH 7 at 20°C. Red text indicates over licence discharge criteria. Red text with a * indicates TL-2 and TL-3 were above the licence discharge criteria on that date. Black text with a * indicates that value is above licence criteria but below TL-2 on that date.