



372 Bay Street
Suite 901
Toronto, Ontario
M5H 2W9
416-628-0216

October 3, 2013

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

Re: August 2013 – Monthly Monitoring Report for Water Licence 2BE-HOP1222

Part I Conditions Applying to Abandonment and Restoration

In August, sleeping tent removal continued opportunistically at Windy Camp, as did clean-up of the site. The cutting and capping of old drill sites in the Windy Camp area was continued as well. The excavation of contaminated soils (as identified in the Patch closure plan) at the Patch laydown was initiated with concurrent confirmatory testing.

Part J Items 2, 3, 4, 5, 6, 10: Sewage Treatment Effluent, Bulk Fuel Containments, and Quarries

Windy Camp has been closed for operations since October 23, 2008; therefore the licence requirements relating to the WWTF (HOP-2 and HOP-3) are not applicable. HOP-5 (Bulk Fuel Storage – Windy Camp) and HOP-6 (Bulk Fuel Storage Facility – Patch Lake) were dismantled in 2012. HOP-8 has not been constructed. Water quality sampling and management was not required at HOP-7A, B or D (quarries A, B and D) as no water was observed at these sites.

Part J Item 7: Under-Ice Drilling Samples

Not applicable at this time of year.

Part J Item 8: Water Use Volumes

In August, water was extracted from Windy Lake for use at Doris Camp and for dust suppression (Table 1). Water was also used for drilling (Table 2). At the AANDC Inspectors request, water recirculated through the drill was also recorded and is presented in Table 2, although the amount of water consumed during the drilling is interpreted as the volume regulated under the licence. Geographical locations of water extraction for drilling are retained on file per Part J Item 12 of the licence.

The water quality results from HOP-1 are presented in Table 3.

Table 1: Daily water usage from Windy Lake, in cubic meters, August 2013

Date	Volume (m ³)
1-Aug-13	0.00
2-Aug-13	0.00
3-Aug-13	54.00
4-Aug-13	0.00
5-Aug-13	0.00
6-Aug-13	52.00
7-Aug-13	0.00
8-Aug-13	0.00
9-Aug-13	28.00
10-Aug-13	0.00

11-Aug-13	0.00
12-Aug-13	0.00
13-Aug-13	38.75
14-Aug-13	0.00
15-Aug-13	0.00
16-Aug-13	56.00
17-Aug-13	0.00
18-Aug-13	0.00
19-Aug-13	42.00
20-Aug-13	0.00
21-Aug-13	28.00
22-Aug-13	24.00
23-Aug-13	42.00
24-Aug-13	17.20
25-Aug-13	0.00
26-Aug-13	16.00
27-Aug-13	35.00
28-Aug-13	28.00
29-Aug-13	49.00
30-Aug-13	14.00
31-Aug-13	0.00

Table 2: Daily drill water usage, in cubic meters, August 2013

Date	Volume (m³) consumed	Volume (m³) recirculated + consumed
1-Aug-13	15.50	143.40
2-Aug-13	12.30	154.20
3-Aug-13	14.40	164.00
4-Aug-13	14.00	132.90
5-Aug-13	13.50	163.00
6-Aug-13	10.20	127.50
7-Aug-13	7.90	133.70
8-Aug-13	9.60	123.90
9-Aug-13	9.21	124.90
10-Aug-13	11.09	150.70
11-Aug-13	7.00	137.40
12-Aug-13	11.10	131.60
13-Aug-13	44.04	98.37
14-Aug-13	18.07	133.37
15-Aug-13	18.92	113.46
16-Aug-13	25.91	138.76
17-Aug-13	17.30	176.70
18-Aug-13	28.50	149.40
19-Aug-13	17.60	162.10
20-Aug-13	10.73	155.61
21-Aug-13	35.24	161.87
22-Aug-13	19.60	131.80
23-Aug-13	27.60	171.60
24-Aug-13	20.90	148.00
25-Aug-13	10.10	166.50
26-Aug-13	19.21	107.30
27-Aug-13	44.21	84.50
28-Aug-13	38.60	118.30
29-Aug-13	22.90	107.30
30-Aug-13	15.00	84.50
31-Aug-13	10.60	118.30

Table 3: HOP-1 Water Quality Sample Results, August 2013

Sample ID	HOP1-06Aug13
ALS ID	L1343243-15

Sample Date/Time		8/6/2013 13:40
Parameters	Units	Results
pH	pH	7.94
Total Suspended Solids	mg/L	<3.0
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
Phosphorus (P)-Total	mg/L	<0.020
Cyanide, Total	mg/L	<0.0050
Cyanide, Free	mg/L	<0.0050
Fecal Coliforms	CFU/100mL	<1
Aluminum (Al)-Total	mg/L	0.145
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	13.5
Chromium (Cr)-Total	mg/L	<0.0010
Cobalt (Co)-Total	mg/L	<0.0020
Copper (Cu)-Total	mg/L	0.0014
Iron (Fe)-Total	mg/L	0.193
Lead (Pb)-Total	mg/L	<0.00010
Lithium (Li)-Total	mg/L	<0.010
Magnesium (Mg)-Total	mg/L	10.1
Manganese (Mn)-Total	mg/L	0.0067
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	3.73
Selenium (Se)-Total	mg/L	<0.00040
Silver (Ag)-Total	mg/L	<0.000020
Sodium (Na)-Total	mg/L	56.1
Thallium (Tl)-Total	mg/L	<0.00010
Tin (Sn)-Total	mg/L	<0.050
Titanium (Ti)-Total	mg/L	0.0064
Uranium (U)-Total	mg/L	0.00018
Vanadium (V)-Total	mg/L	<0.0010
Zinc (Zn)-Total	mg/L	<0.0040
Calcium (Ca)-Dissolved	mg/L	12.5
Magnesium (Mg)-Dissolved	mg/L	9.65
Oil and Grease	mg/L	<1.0
Oil And Grease (Visible Sheen)		NO VISIBLE SHEEN
Biochemical Oxygen Demand (BOD5)	mg/L	<2.0

Incident Reporting

There were no incidents pertaining to the licence during the period.

Should there be any questions regarding this monthly report, please contact Katsky Venter or Lea-Marie Bowes-Lyon, ESR Site Managers for TMAC Resources Inc. at (867)-988-0568 or Katsky.Venter@tmacresources.com or Lea-Marie.Bowes-Lyon@tmacresources.com.

Yours sincerely,

Katsky Venter

Environmental and Social Responsibility Site Manager
Hope Bay Project