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04 July 2024

Richard Dwyer
Manager of Licencing
Nunavut Water Board
PO Box 119
Gjoa Haven, NU
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Dear Mr. Dwyer,

Re. 2BM-ULU2030 Part J Item 14 – Monthly Monitoring Program, June 2024

Further to Part J Item 14 of 2BM-ULU2030, Blue Star Gold Corp. (Blue Star) is pleased to provide the following in fulfillment of monthly monitoring requirements during periods of site activity. Ongoing activities at Ulu Camp throughout June included camp operations, compliance monitoring, waste management, and exploration.

Please note that we had not received the results at the time the May report was sent. The results for the monitoring stations listed in Table 1 are now provided in Table 3 for May and Table 4 for June.

Table1. Applicable monitoring stations, **JUNE 2024**

Station ID	Station Description	Comment
ULU-1	Water Intake at West Lake	See Table 2, Table 3, & Table 4
ULU-2	Sewage effluent discharge point	Inactive, facility decommissioned
ULU-3	Sewage effluent discharge point	Inactive, facility decommissioned
ULU-4	Mine water pumped from underground Mine Sump	No underground operations. Not discharging
ULU-4b	Portal Surface Retention Pond	See Table 3 & Table 4
ULU-5	Settling/Neutralization Pond	Pond not constructed
ULU-6	Settling/Neutralization Pond	Pond not constructed
ULU-7	Runoff from Waste Rock Pile	Not flowing.
ULU-8	Runoff from Ore Pad	See Table 3 & Table 4
ULU-9	Outflow from East Lake	See Table 3 & Table 4
ULU-10	Ulu Lake Inflow from East Lake	Decommissioned; See Table 3
ULU-11	Ulu Lake Outflow	See Table 3 & Table 4
ULU-12	Domestic water intake for new camp	New camp not constructed
ULU-13	Soil treatment facility water holding pond	Pond not constructed
ULU-14	Airstrip Bulk Fuel Storage Facility	Not yet constructed for the season
ULU-15	Landfill Facility	See Table 3 & Table 4
MW-1, -2, -3	Monitoring well at soil treatment facility	Facility not constructed; wells not installed

Table 2. ULU-1 Daily volume, **JUNE 2024** (domestic and drilling water use).

Date	Volume (m ³)		
	Domestic*	Drilling	Total
1	2.66	-	2.66
2	1.53	-	1.53
3	2.1	-	2.1
4	1.3	-	1.3
5	2.91	-	2.91
6	1.81	-	1.81
7	1.82	-	1.82
8	2.29	-	2.29
9	2.67	-	2.67
10	1.78	-	1.78
11	2.27	-	2.27
12	2.55	-	2.55
13	1.53	-	1.53
14	2.47	-	2.47
15	2.02	-	2.02
16	2.4	-	2.4
17	1.8	-	1.8
18	1.95	-	1.95
19	1.9	-	1.9
20	2.11	-	2.11
21	2.55	-	2.55
22	1.85	-	1.85
23	2.34	-	2.34
24	2.51	-	2.51
25	2.21	-	2.21
26	2.02	-	2.02
27	2.81	-	2.81
28	1.77	-	1.77
29	1.54	-	1.54
30	1.19	-	1.19
*Core-cutting water is included in the domestic extraction			

Table 3. Results for Compliance Stations, **MAY 2024.**

	Units	Detection Limits	ULU-1	ULU-4B	ULU-8	ULU-9	ULU-10	ULU-11	ULU-15
Date			May 31	May 31	May 24	May 27	May 31	May 31	May 25
pH	Field		6.8	6.7	6.6	7.00	6.7	6.8	7.0
	Lab		6.54	6.83	7.05	6.79	6.45	6.41	7.90
Conductivity	uS/cm	2.0	47	240	190	48	57	30	360
Total Suspended Solids	mg/L	1.0	<1.0	1.7	33	<1.0	<1.0	<1.0	2.5
Total Dissolved Solids	mg/L	10	48	180	140	56	40	20	220
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO3)	mg/L	1.0	5.5	19	22	5.6	4.0	3.2	80
Chloride (Cl)	mg/L	1.0	<1.0	3.0	9.1	1.4	1.2	<1.0	3.7
Sulphate (SO4)	mg/L	1.0	11	78	59	11	17	6.5	94
Fecal Coliforms	CFU/100 mL	1	n/a	n/a	n/a	<1	n/a	n/a	n/a
Total Ammonia (N)	mg/L	0.015	<0.015	<0.015	0.019	<0.015	<0.015	<0.015	0.024
Dissolved Nitrite (N)	mg/L	0.01	<0.010	<0.010	<0.019	<0.010	<0.010	<0.010	<0.010
Dissolved Nitrate (N)	mg/L	0.01	0.018	0.13	0.21	0.036	0.039	0.031	0.33
Turbidity	NTU	0.10	1.6	2.0	3.9	1.2	0.14	1.0	2.8
Total Mercury (Hg)	ug/L	0.0019	<0.0019	<0.0019*	0.0084	0.0023	<0.0019	0.0020	<0.0019
Total Arsenic (As)	ug/L	0.020	0.098	23.1	1.71	0.232	0.130	0.069	0.667
Total Cadmium (Cd)	ug/L	0.0050	0.0080	0.0135	0.0470	0.0330	0.0293	0.0266	0.0600
Total Calcium (Ca)	ug/L	0.050	3.92	32.7	21.2	4.59	5.08	2.18	51.7
Total Copper (Cu)	ug/L	0.050	3.06	1.63	4.13	1.57	1.64	2.35	2.69
Total Lead (Pb)	ug/L	0.0050	0.0180	0.298	0.042	0.0302	0.0298	0.0434	0.111
Total Nickel (Ni)	ug/L	0.020	1.92	1.88	6.18	1.87	0.879	3.35	1.17
Total Sodium (Na)	ug/L	0.050	0.749	2.07	7.44	1.09	1.47	0.624	2.98
Total Zinc (Zn)	ug/L	0.10	2.87	2.82	20.0	7.78	2.74	10.6	85.0
F1 (C6-C10) - BTEX	ug/L	100	n/a	n/a	n/a	n/a	n/a	n/a	<100
F2 (C10-C16 Hydrocarbons)	mg/L	0.10	n/a	n/a	n/a	n/a	n/a	n/a	<0.10
F3 (C16-C34 Hydrocarbons)	mg/L	0.10	n/a	n/a	n/a	n/a	n/a	n/a	0.14
F4 (C34-C50 Hydrocarbons)	mg/L	0.20	n/a	n/a	n/a	n/a	n/a	n/a	<0.20

*Sampled on June 11, 2024, since missed from the May sample.

Table 4. Results for Compliance Stations, JUNE 2024.

	Units	Detection Limits	ULU-1	ULU-4B	ULU-8	ULU-9	ULU-11	ULU-15
Date			June 11	June 18	June 18	June 12	June 19	June 10
pH	Field		7.1	7.3	6.9	7.3	7.3	7.2
	Lab		6.21	7.55	6.61	6.25	6.47	6.98
Conductivity	uS/cm	2.0	80	340	610	71	66	720
Total Suspended Solids	mg/L	1.0	<0.99	<1.0	9.1	<1.0	<1.0	480
Total Dissolved Solids	mg/L	10	36	170	400	28	52	1.5
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO3)	mg/L	1.0	8.3	42	20	7.6	4.9	120
Chloride (Cl)	mg/L	1.0	1.1	3.4	26	1.3	1.4	13
Sulphate (SO4)	mg/L	1.0	25	110	230	21	23	240
Fecal Coliforms	CFU/100 mL	1	n/a	n/a	n/a	<1	<1	n/a
Total Ammonia (N)	mg/L	0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.030
Dissolved Nitrite (N)	mg/L	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Dissolved Nitrate (N)	mg/L	0.01	0.038	0.29	0.50	0.080	0.016	0.96
Turbidity	NTU	0.10	0.16	<0.10	1.6	0.18	0.10	0.16
Total Mercury (Hg)	ug/L	0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
Total Arsenic (As)	ug/L	0.020	0.088	28.8	1.05	0.189	0.063	0.930
Total Cadmium (Cd)	ug/L	0.0050	0.0051	0.0054	0.0142	0.0226	0.0142	0.170
Total Calcium (Ca)	ug/L	0.050	6.84	57.1	80.6	6.73	5.62	102
Total Copper (Cu)	ug/L	0.050	3.14	1.08	2.04	1.70	1.74	3.13
Total Lead (Pb)	ug/L	0.0050	0.0107	0.0358	0.0052	0.0195	0.0130	0.0582
Total Nickel (Ni)	ug/L	0.020	1.65	1.09	2.64	1.59	3.34	1.88
Total Sodium (Na)	ug/L	0.050	1.23	2.74	20.1	1.83	1.12	13.9
Total Zinc (Zn)	ug/L	0.10	3.31	1.21	11.0	5.02	9.84	14.7
F1 (C6-C10) - BTEX	ug/L	100	n/a	n/a	n/a	n/a	n/a	<100
F2 (C10-C16 Hydrocarbons)	mg/L	0.10	n/a	n/a	n/a	n/a	n/a	<0.10
F3 (C16-C34 Hydrocarbons)	mg/L	0.10	n/a	n/a	n/a	n/a	n/a	<0.10
F4 (C34-C50 Hydrocarbons)	mg/L	0.20	n/a	n/a	n/a	n/a	n/a	<0.20

If you have any questions or concerns about this report, please don't hesitate to reach out.

Kindest regards,

Annabelle Perry

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