PART J: CONDITIONS APPLYING TO THE MONITORING PROGRAM

1. The Licensee shall measure and record, in cubic metres, the daily quantities of water utilized for camp at Monitoring Station MEA-1, and for drilling and other purposes.

    - The daily quantities of water used for the camp and for the drilling is summarized in the Table 1.

Table 1, Monitoring Station MEA-1

Month	Camp (m^3/day) (MEA-1)	Drilling (m^3/day)	Total (m^3/day)
January	5.0	0	5.0
February	11.5	14.5	26
March	15.9	68.1	84
April	16.4	153.0	169.4
May	14.8	139.0	153.8
June	13.9	192.3	206.2
July	13.2	146.8	160.0
August	12.6	158.2	170.8
September	11.0	260.4	271.4
October	6.1	74.5	80.6
November	3.1	0	3.1
December	4.9	0	4.9

2. The Licensee shall, at a minimum, maintain Monitoring Stations at the following locations: MEA-1, Amaruq (IVR) Camp Water Intake, Volume

    - See Table 1.

MEA-2, Effluent discharged from the Wastewater Treatment System “Bionest” (WWTS), Volume and Effluent Quality

    - See Table 2 for effluent quality. Since the Wastewater Treatment System “Bionest” is a system discharging effluent continuously, the volume discharged equals the camp water intake, Table 1.

- In 2016, additional filters at final effluent and 3 pretreatment tanks, including 2 aerated tanks, were added for the grey water coming from the kitchen. Also, a dissipation channel was built outside for the discharge pipe to reduce the risk of creating soil erosion.

Table 2, Effluent discharged from the Wastewater Treatment System “Bionest” (WWTS)

	Parameters	**Unit**	**Limit**	2016-01-05	2016-01-25	2016-02-02	2016-02-08	2016-02-15	2016-02-17	2016-02-23	2016-03-07	2016-03-14	2016-03-21	2016-03-29	2016-04-04
MEA-2 (previously MEA-1)	Fecal coliforms	CFU/100ml	1000	0	<10	68000	1600	80	16	270	13000	50	280	106	410
	BOD5	mg/L	80	5	11	43	50	21	49	25	52	26	10	16	12
	Oil and grease	mg/L	5	<1	<1	3	1	1	2	<1	<1	3	<1	3	<1
	TSS	mg/L	100	<1	2	55	46	24	23	30	78	48	22	18	24
	PH		6.0 to 9.5	5.04	6.28	6.89	7.32	7.6	7.46	7.32	7.29	7.19	6.93	7.04	7.34

	Parameters	**Unit**	**Limit**	2016-04-11	2016-04-18	2016-04-25	2016-05-02	2016-05-11	2016-05-17	2016-05-23	2016-05-30	2016-06-06	2016-06-13	2016-06-20	2016-06-28
MEA-2 (previously MEA-1)	Fecal coliforms	CFU/100ml	1000	6	22	*NA*	118	150	30	150	3	320	26	10	3
	BOD5	mg/L	80	15	16	28	34	33	34	58	32	35	15	16	14
	Oil and grease	mg/L	5	<1	<1	<1	<1	3	1	1	2	<1	<1	1	<1
	TSS	mg/L	100	27	21	55	37	104	52	41	41	1	16	39	26
	PH		6.0 to 9.5	7.47	7.28	7.34	7.32	7.41	7.44	7.35	6.83	7.61	7.18	7.33	7.25

	Parameters	**Unit**	**Limit**	2016-07-04	2016-07-11	2016-07-18	2016-07-24	2016-08-01	2016-08-08	2016-08-15	2016-08-22	2016-08-30	2016-09-05	2016-09-12	2016-09-19
MEA-2 (previously MEA-1)	Fecal coliforms	CFU/100ml	1000	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	BOD5	mg/L	80	13	29	7	10	12	5	10	5	NA	16	14	6
	Oil and grease	mg/L	5	1	<1	<1	<1	4	<1	<1	<1	<1	1	<1	<1
	TSS	mg/L	100	29	28	15	15	9	9	14	9	27	60	15	17
	PH		6.0 to 9.5	7.46	7.45	7.04	7.09	7.02	6.99	6.38	6.52	6.71	6.79	6.87	6.53

	Parameters	**Unit**	**Limit**	2016-09-26	2016-10-03	2016-10-10	2016-10-17	2016-10-24	2016-11-01	2016-11-16	2016-11-22	2016-11-30	2016-12-12	2016-12-20	2016-12-26
MEA-2 (previously MEA-1)	Fecal coliforms	CFU/100ml	1000	<2	<2	8	<2	<2	<2	NA	<2	<2	<2	<2	<10
	BOD5	mg/L	80	8	7	9	7	6	4	2	4	2	3	15	8
	Oil and grease	mg/L	5	<1	2	2	<1	1	<1	<1	<1	1	<1	<1	<1
	TSS	mg/L	100	19	10	21	17	18	13	9	8	2	1	6	15
	PH		6.0 to 9.5	7.37	6.89	6.82	6.85	6.48	5.82	5.98	7.3	7.49	6.1	5.67	8.21

MEA-3, Effluent discharged from the Bulk Fuel Storage Facilities, Volume and Effluent Quality

- No discharge.

MEA-4, Effluent discharged from Storm-water Management Pond A-P5 and Trench-water containment ponds, Volume and Effluent Quality

- No discharge

3. The Licensee shall sample the effluent discharging from the WWTS at Monitoring Station MEA-2 prior to being released into environment in order to provide confirmation of effluent quality as required by Part D, Item 10, for the following parameters:
pH
FecalColiforms
Biochemical Oxygen Demand (BOD5)
Oil and Grease (and visual)
Total Suspended Solids (TSS)

- See Table 2

4. The Licensee shall sample the effluent discharging from the Bulk Fuel Storage Facilities at Monitoring Station MEA-3 prior to being released into environment in order to provide confirmation of effluent quality as required by Part D, Item 13.

- No discharge.

5. The Licensee shall sample the effluent discharging from Storm-water Management Pond and other containment ponds at Monitoring Station MEA-4 prior to being released into environment in order to provide confirmation of effluent quality as required by Part D, Item 14.

- No discharge.

6. The Licensee shall provide the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where sources of water are utilized for all purposes.

Table 3, water intakes locations

Locations	X	Y
For drilling	96° 41' 52.909" W	65° 24' 18.833" N
For drilling	96° 44' 26.522" W	65° 23' 53.619" N
For drilling	96° 46' 40.175" W	65° 23' 19.538" N
For drilling	96° 47' 6.941" W	65° 23' 24.309" N
For drilling	96° 46' 46.296" W	65° 24' 4.501" N
For drilling	96° 46' 28.847" W	65° 24' 38.391" N
For drilling	96° 42' 18.085" W	65° 25' 20.445" N
For drilling	96° 42' 6.736" W	65° 24' 41.397" N
For drilling	96° 41' 40.426" W	65° 24' 48.548" N
For drilling	96° 38' 57.300" W	65° 24' 2.628" N
For drilling	96° 37' 2.494" W	65° 23' 51.770" N
For drilling	96° 38' 4.986" W	65° 24' 6.775" N
For drilling	96° 38' 32.787" W	65° 25' 5.671" N
For drilling	96° 39' 33.409" W	65° 25' 32.446" N
Camp water intake	96° 41' 7.971" W	65° 24' 8.671" N

7. The Licensee shall provide the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where wastes associated with camp operations and exploration activities are deposited including sump locations associated with drilling and drill casings left as stuck and cut off and for further drilling in casings.

- All domestic waste generated by the camp is incinerated in a dual-chamber incinerator. Inert waste is disposed of in the Meadowbank Landfill or transported by boat to a southern facility for disposal.
- Hazardous waste is transported by boat to a southern facility for recycling or disposal according to regulations.
- Scrap metal is transported by boat to a southern facility for recycling.
- For the drilling waste (cutting) generated during the on-ice drilling, this is recovered in containers during the drilling and transported on land to ensure that no connection with the water body will occur.
- For the drilling waste (cutting) generated during the on land drilling, this is disposed of near each drilling site in a natural depression where there is no risk of runoff to the water bodies, see Table 6 for GPS coordinates.

Table 4, Coordinates for drilling waste disposal coming from drilling on ice

ID	X	Y
Drilling waste disposal 1	96°41' 10.619" W	65°24' 48.609" N
Drilling waste disposal 2	96°41' 39.303" W	65°24' 38.798" N
Drilling waste disposal 3	96°42' 28.620" W	65°24' 29.391" N
Drilling waste disposal 4	96°42' 38.629" W	65°24' 30.671" N
Drilling waste disposal 5	96°42' 35.676" W	65°24' 25.041" N
Drilling waste disposal 6	96°42' 16.492" W	65°24' 8.372" N
Drilling waste disposal 7	96°42' 14.365" W	65°23' 53.082" N
Drilling waste disposal 8	96°44' 46.226" W	65°24' 4.727" N
Drilling waste disposal 9	96°45' 16.571" W	65°23' 10.801" N
Drilling waste disposal 10	96°45' 52.642" W	65°23' 27.703" N
Drilling waste disposal 11	96°46' 40.727" W	65°23' 11.236" N

Table 5, Coordinates for casings left on the field

Hole ID	X	Y
AMQ15-320	96° 42' 9.781" W	65° 24' 2.093" N
AMQ16-833	96° 41' 11.110" W	65° 24' 36.072" N
AMQ16-871	96° 40' 44.292" W	65° 24' 38.383" N
AMQ16-966	96° 42' 4.481" W	65° 24' 3.976" N
AMQ16-1000	96° 42' 6.799" W	65° 24' 6.448" N
AMQ16-1029	96° 43' 1.788" W	65° 24' 2.213" N
AMQ16-1031	96° 42' 4.191" W	65° 24' 5.203" N
AMQ16-1032	96° 43' 1.746" W	65° 24' 2.187" N
AMQ16-1033	96° 42' 18.767" W	65° 24' 0.737" N
AMQ16-1045	96° 42' 9.471" W	65° 24' 1.397" N
AMQ16-1063	96° 42' 17.368" W	65° 24' 1.764" N

Drilling waste (cutting) coming from drilling on land was disposed of proximal to drill holes and below are the drill hole coordinates (on land).

Table 6, On-land drilling locations

HoleID	X	Y	HoleID	X	Y	HoleID	X	Y	HoleID	X	Y
AMQ16-585	96° 41' 38.129" W	65° 24' 36.992" N	AMQ16-821	96° 42' 13.383" W	65° 24' 29.913" N	AMQ16-903	96° 44' 4.842" W	65° 23' 44.978" N	AMQ16-987	96° 41' 53.629" W	65° 24' 44.910" N
AMQ16-588	96° 41' 32.037" W	65° 24' 41.914" N	AMQ16-822	96° 41' 13.534" W	65° 24' 46.335" N	AMQ16-904	96° 41' 41.344" W	65° 24' 53.894" N	AMQ16-988	96° 42' 7.464" W	65° 24' 38.886" N
AMQ16-605	96° 42' 12.282" W	65° 24' 37.879" N	AMQ16-823	96° 41' 50.737" W	65° 24' 39.696" N	AMQ16-905	96° 38' 35.427" W	65° 24' 18.171" N	AMQ16-989	96° 43' 28.136" W	65° 25' 14.142" N
AMQ16-614	96° 42' 17.019" W	65° 24' 37.133" N	AMQ16-824	96° 41' 14.888" W	65° 24' 16.458" N	AMQ16-906	96° 46' 2.252" W	65° 23' 23.448" N	AMQ16-990	96° 41' 53.271" W	65° 24' 46.167" N
AMQ16-614A	96° 42' 16.850" W	65° 24' 37.037" N	AMQ16-825	96° 41' 11.176" W	65° 24' 38.709" N	AMQ16-907	96° 40' 43.163" W	65° 24' 48.900" N	AMQ16-991	96° 42' 10.265" W	65° 24' 39.941" N
AMQ16-626	96° 41' 30.688" W	65° 24' 11.795" N	AMQ16-826	96° 41' 20.672" W	65° 24' 36.090" N	AMQ16-908	96° 40' 53.469" W	65° 24' 44.897" N	AMQ16-992	96° 41' 56.402" W	65° 24' 45.352" N
AMQ16-627	96° 43' 29.455" W	65° 24' 5.952" N	AMQ16-827	96° 42' 17.258" W	65° 24' 7.308" N	AMQ16-909	96° 41' 46.777" W	65° 25' 3.119" N	AMQ16-993	96° 40' 51.979" W	65° 24' 47.846" N
AMQ16-636	96° 41' 31.634" W	65° 24' 49.416" N	AMQ16-828	96° 41' 18.185" W	65° 24' 47.890" N	AMQ16-910	96° 38' 6.915" W	65° 24' 15.661" N	AMQ16-994	96° 42' 12.936" W	65° 24' 40.322" N
AMQ16-643	96° 41' 43.106" W	65° 24' 42.910" N	AMQ16-829	96° 41' 1.115" W	65° 24' 36.430" N	AMQ16-911	96° 43' 59.212" W	65° 23' 41.869" N	AMQ16-995	96° 41' 56.074" W	65° 24' 44.707" N
AMQ16-648	96° 41' 45.860" W	65° 24' 41.995" N	AMQ16-830	96° 41' 48.041" W	65° 24' 40.959" N	AMQ16-912	96° 41' 37.375" W	65° 25' 17.289" N	AMQ16-996	96° 41' 10.123" W	65° 24' 42.331" N
AMQ16-650	96° 42' 40.769" W	65° 24' 14.300" N	AMQ16-831	96° 41' 51.754" W	65° 24' 34.779" N	AMQ16-913	96° 46' 3.823" W	65° 23' 18.925" N	AMQ16-997	96° 42' 26.705" W	65° 24' 40.959" N
AMQ16-660	96° 42' 46.849" W	65° 24' 11.426" N	AMQ16-832	96° 41' 13.889" W	65° 24' 35.602" N	AMQ16-914	96° 43' 51.448" W	65° 23' 36.738" N	AMQ16-998	96° 43' 3.487" W	65° 25' 25.504" N
AMQ16-664	96° 42' 51.563" W	65° 24' 10.220" N	AMQ16-833	96° 41' 11.110" W	65° 24' 36.072" N	AMQ16-915	96° 38' 5.365" W	65° 24' 2.464" N	AMQ16-999	96° 41' 56.478" W	65° 24' 43.931" N
AMQ16-666	96° 41' 36.307" W	65° 24' 48.324" N	AMQ16-834	96° 41' 25.307" W	65° 24' 34.065" N	AMQ16-915A	96° 38' 5.408" W	65° 24' 2.453" N	AMQ16-1000	96° 42' 6.799" W	65° 24' 6.448" N
AMQ16-683	96° 41' 28.900" W	65° 24' 39.975" N	AMQ16-835	96° 42' 36.197" W	65° 24' 9.026" N	AMQ16-916	96° 41' 1.130" W	65° 25' 16.616" N	AMQ16-1001	96° 42' 14.297" W	65° 24' 32.081" N
AMQ16-694	96° 41' 23.903" W	65° 24' 41.049" N	AMQ16-836	96° 41' 8.172" W	65° 24' 36.811" N	AMQ16-917	96° 46' 2.904" W	65° 23' 15.717" N	AMQ16-1002	96° 41' 58.307" W	65° 24' 43.892" N
AMQ16-706	96° 41' 27.625" W	65° 24' 41.249" N	AMQ16-837	96° 41' 45.874" W	65° 24' 41.120" N	AMQ16-918	96° 44' 38.299" W	65° 23' 44.137" N	AMQ16-1003	96° 42' 2.413" W	65° 24' 43.324" N
AMQ16-707	96° 43' 4.536" W	65° 24' 8.352" N	AMQ16-838	96° 41' 58.779" W	65° 24' 32.439" N	AMQ16-919	96° 41' 27.239" W	65° 25' 18.156" N	AMQ16-1004	96° 43' 27.208" W	65° 25' 9.704" N
AMQ16-711	96° 43' 6.474" W	65° 24' 7.181" N	AMQ16-839	96° 42' 34.971" W	65° 24' 10.019" N	AMQ16-920	96° 39' 55.472" W	65° 23' 41.427" N	AMQ16-1005	96° 42' 27.276" W	65° 24' 29.913" N
AMQ16-714	96° 41' 27.574" W	65° 24' 38.133" N	AMQ16-840	96° 41' 44.171" W	65° 24' 42.210" N	AMQ16-921	96° 40' 55.508" W	65° 24' 50.915" N	AMQ16-1006	96° 42' 0.017" W	65° 24' 42.779" N
AMQ16-720	96° 41' 24.566" W	65° 24' 39.670" N	AMQ16-841	96° 41' 0.370" W	65° 24' 39.662" N	AMQ16-922	96° 46' 3.235" W	65° 23' 11.794" N	AMQ16-1007	96° 41' 6.679" W	65° 24' 44.447" N
AMQ16-727	96° 41' 44.243" W	65° 24' 37.162" N	AMQ16-842	96° 42' 32.119" W	65° 24' 10.219" N	AMQ16-923	96° 41' 27.264" W	65° 25' 18.170" N	AMQ16-1008	96° 41' 59.017" W	65° 24' 43.212" N
AMQ16-731	96° 41' 20.140" W	65° 24' 42.912" N	AMQ16-844	96° 41' 23.244" W	65° 24' 33.422" N	AMQ16-924	96° 41' 33.009" W	65° 24' 28.894" N	AMQ16-1009	96° 42' 18.632" W	65° 24' 28.486" N
AMQ16-734	96° 41' 37.112" W	65° 24' 42.271" N	AMQ16-845	96° 42' 30.094" W	65° 24' 11.568" N	AMQ16-925	96° 44' 32.685" W	65° 23' 41.064" N	AMQ16-1010	96° 43' 20.587" W	65° 25' 3.252" N
AMQ16-741	96° 41' 23.162" W	65° 24' 45.467" N	AMQ16-846	96° 41' 58.928" W	65° 24' 35.645" N	AMQ16-926	96° 40' 57.355" W	65° 24' 43.307" N	AMQ16-1011	96° 41' 57.201" W	65° 24' 42.730" N
AMQ16-748	96° 41' 38.663" W	65° 24' 43.958" N	AMQ16-847	96° 41' 33.219" W	65° 24' 19.310" N	AMQ16-927	96° 46' 13.439" W	65° 23' 38.646" N	AMQ16-1013	96° 42' 38.546" W	65° 24' 27.984" N
AMQ16-749	96° 42' 25.720" W	65° 24' 13.073" N	AMQ16-848	96° 42' 25.798" W	65° 24' 12.506" N	AMQ16-928	96° 44' 27.024" W	65° 23' 37.957" N	AMQ16-1014	96° 41' 54.110" W	65° 24' 42.616" N
AMQ16-750	96° 41' 32.425" W	65° 24' 44.930" N	AMQ16-849	96° 41' 48.229" W	65° 24' 40.514" N	AMQ16-929	96° 41' 0.282" W	65° 25' 9.685" N	AMQ16-1015	96° 42' 22.371" W	65° 24' 23.082" N
AMQ16-753	96° 42' 8.567" W	65° 24' 16.235" N	AMQ16-850	96° 42' 9.200" W	65° 24' 37.201" N	AMQ16-930	96° 46' 44.951" W	65° 23' 42.026" N	AMQ16-1015A	96° 42' 22.381" W	65° 24' 23.087" N
AMQ16-754	96° 41' 15.744" W	65° 24' 40.240" N	AMQ16-851	96° 41' 52.763" W	65° 24' 44.580" N	AMQ16-931	96° 44' 21.543" W	65° 23' 34.899" N	AMQ16-1016	96° 43' 15.005" W	65° 24' 55.247" N
AMQ16-755	96° 41' 15.354" W	65° 24' 44.082" N	AMQ16-852	96° 42' 29.945" W	65° 24' 11.474" N	AMQ16-932	96° 47' 7.749" W	65° 23' 41.536" N	AMQ16-1017	96° 41' 57.983" W	65° 24' 41.400" N
AMQ16-756	96° 41' 26.457" W	65° 24' 45.897" N	AMQ16-853	96° 42' 11.168" W	65° 24' 39.205" N	AMQ16-933	96° 41' 44.778" W	65° 25' 15.911" N	AMQ16-1018	96° 41' 12.570" W	65° 24' 43.721" N
AMQ16-759	96° 41' 32.309" W	65° 24' 44.288" N	AMQ16-854	96° 41' 26.027" W	65° 24' 32.746" N	AMQ16-934	96° 40' 44.625" W	65° 24' 56.596" N	AMQ16-1020	96° 40' 43.969" W	65° 24' 46.300" N
AMQ16-760	96° 41' 22.951" W	65° 24' 47.848" N	AMQ16-854A	96° 41' 25.997" W	65° 24' 32.742" N	AMQ16-935	96° 41' 49.916" W	65° 24' 35.381" N	AMQ16-1021	96° 44' 50.039" W	65° 24' 43.661" N
AMQ16-761	96° 41' 40.399" W	65° 24' 36.413" N	AMQ16-855	96° 41' 15.399" W	65° 24' 55.529" N	AMQ16-936	96° 44' 4.112" W	65° 23' 15.420" N	AMQ16-1022	96° 41' 56.045" W	65° 24' 40.698" N
AMQ16-764	96° 41' 12.567" W	65° 24' 42.816" N	AMQ16-856	96° 41' 25.027" W	65° 24' 43.243" N	AMQ16-937	96° 46' 41.229" W	65° 23' 50.267" N	AMQ16-1023	96° 41' 18.390" W	65° 24' 42.497" N
AMQ16-765	96° 41' 22.149" W	65° 24' 41.746" N	AMQ16-857	96° 42' 16.878" W	65° 24' 40.531" N	AMQ16-938	96° 41' 3.112" W	65° 25' 30.602" N	AMQ16-1024	96° 41' 48.755" W	65° 24' 38.808" N
AMQ16-766	96° 41' 17.435" W	65° 24' 50.193" N	AMQ16-858	96° 42' 26.484" W	65° 24' 11.623" N	AMQ16-939	96° 44' 33.776" W	65° 23' 28.301" N	AMQ16-1025	96° 40' 44.414" W	65° 24' 42.566" N
AMQ16-771	96° 41' 9.175" W	65° 24' 39.663" N	AMQ16-859	96° 42' 3.823" W	65° 24' 9.835" N	AMQ16-940	96° 47' 11.330" W	65° 23' 51.620" N	AMQ16-1026	96° 42' 47.115" W	65° 24' 36.148" N
AMQ16-772	96° 41' 32.036" W	65° 24' 38.261" N	AMQ16-860	96° 42' 24.498" W	65° 24' 11.309" N	AMQ16-941	96° 41' 0.468" W	65° 24' 40.988" N	AMQ16-1027	96° 41' 42.053" W	65° 25' 13.783" N
AMQ16-773	96° 42' 25.759" W	65° 24' 28.891" N	AMQ16-861	96° 41' 14.681" W	65° 24' 58.383" N	AMQ16-942	96° 41' 52.555" W	65° 24' 35.164" N	AMQ16-1028	96° 41' 20.720" W	65° 24' 44.316" N
AMQ16-775	96° 41' 24.110" W	65° 24' 50.742" N	AMQ16-862	96° 41' 6.852" W	65° 24' 50.761" N	AMQ16-943	96° 40' 54.362" W	65° 25' 0.613" N	AMQ16-1029	96° 43' 1.788" W	65° 24' 2.213" N
AMQ16-776	96° 41' 4.124" W	65° 24' 42.903" N	AMQ16-863	96° 41' 26.329" W	65° 24' 30.842" N	AMQ16-944	96° 40' 40.585" W	65° 25' 31.142" N	AMQ16-1030	96° 41' 17.506" W	65° 24' 45.562" N
AMQ16-777	96° 42' 22.526" W	65° 24' 26.950" N	AMQ16-864	96° 42' 26.490" W	65° 24' 11.629" N	AMQ16-945	96° 45' 53.112" W	65° 23' 19.384" N	AMQ16-1031	96° 42' 4.191" W	65° 24' 5.203" N
AMQ16-778	96° 41' 34.388" W	65° 24' 40.888" N	AMQ16-865	96° 42' 24.040" W	65° 24' 7.709" N	AMQ16-946	96° 47' 49.215" W	65° 23' 56.625" N	AMQ16-1032	96° 43' 1.746" W	65° 24' 2.187" N
AMQ16-779	96° 42' 20.216" W	65° 24' 13.768" N	AMQ16-866	96° 41' 12.461" W	65° 25' 0.291" N	AMQ16-947	96° 41' 56.740" W	65° 25' 13.748" N	AMQ16-1033	96° 42' 18.767" W	65° 24' 0.737" N
AMQ16-781	96° 41' 14.621" W	65° 24' 38.510" N	AMQ16-867	96° 42' 24.538" W	65° 24' 9.636" N	AMQ16-948	96° 41' 57.648" W	65° 24' 34.818" N	AMQ16-1034	96° 42' 32.168" W	65° 24' 8.935" N
AMQ16-782	96° 41' 10.970" W	65° 24' 53.025" N	AMQ16-868	96° 41' 1.066" W	65° 24' 50.778" N	AMQ16-949	96° 46' 11.233" W	65° 23' 25.305" N	AMQ16-1035	96° 41' 14.965" W	65° 24' 46.950" N
AMQ16-783	96° 41' 13.551" W	65° 24' 14.977" N	AMQ16-869	96° 42' 22.732" W	65° 24' 12.120" N	AMQ16-950	96° 40' 38.971" W	65° 25' 3.254" N	AMQ16-1036	96° 42' 28.502" W	65° 24' 9.705" N
AMQ16-784	96° 42' 31.975" W	65° 24' 24.100" N	AMQ16-870	96° 41' 19.835" W	65° 24' 45.512" N	AMQ16-951	96° 47' 20.326" W	65° 24' 15.727" N	AMQ16-1038	96° 41' 28.279" W	65° 25' 12.892" N
AMQ16-785	96° 41' 8.878" W	65° 24' 55.096" N	AMQ16-871	96° 40' 44.292" W	65° 24' 38.383" N	AMQ16-952	96° 41' 31.526" W	65° 25' 16.110" N	AMQ16-1039	96° 41' 11.090" W	65° 24' 46.685" N
AMQ16-786	96° 41' 58.698" W	65° 24' 31.426" N	AMQ16-872	96° 42' 31.539" W	65° 24' 4.722" N	AMQ16-953	96° 41' 0.452" W	65° 24' 40.976" N	AMQ16-1040	96° 41' 20.976" W	65° 24' 14.083" N
AMQ16-787	96° 42' 14.123" W	65° 24' 39.813" N	AMQ16-872A	96° 42' 31.539" W	65° 24' 4.722" N	AMQ16-954	96° 46' 11.727" W	65° 23' 19.553" N	AMQ16-1040A	96° 41' 20.964" W	65° 24' 14.077" N
AMQ16-787A	96° 42' 14.033" W	65° 24' 39.755" N	AMQ16-872B	96° 42' 31.167" W	65° 24' 4.494" N	AMQ16-955	96° 40' 44.933" W	65° 24' 19.563" N	AMQ16-1041	96° 40' 57.827" W	65° 24' 41.481" N
AMQ16-788	96° 42' 18.790" W	65° 24' 24.630" N	AMQ16-873	96° 42' 26.595" W	65° 24' 6.209" N	AMQ16-956	96° 39' 57.805" W	65° 25' 7.340" N	AMQ16-1041A	96° 40' 57.868" W	65° 24' 41.521" N
AMQ16-789	96° 41' 18.923" W	65° 24' 37.842" N	AMQ16-874	96° 42' 22.526" W	65° 24' 12.670" N	AMQ16-957	96° 47' 11.277" W	65° 24' 5.713" N	AMQ16-1042	96° 40' 43.596" W	65° 24' 45.692" N
AMQ16-790	96° 41' 2.964" W	65° 24' 55.092" N	AMQ16-874A	96° 42' 22.526" W	65° 24' 12.670" N	AMQ16-959	96° 40' 54.660" W	65° 25' 19.925" N	AMQ16-1043	96° 41' 31.203" W	65° 24' 30.164" N
AMQ16-791	96° 42' 7.069" W	65° 24' 30.967" N	AMQ16-875	96° 42' 23.042" W	65° 24' 4.496" N	AMQ16-959A	96° 40' 54.647" W	65° 25' 19.916" N	AMQ16-1044	96° 42' 57.885" W	65° 24' 3.451" N
AMQ16-792	96° 41' 4.073" W	65° 24' 45.951" N	AMQ16-875A	96° 42' 23.042" W	65° 24' 4.496" N	AMQ16-960	96° 42' 2.698" W	65° 24' 35.334" N	AMQ16-1045	96° 42' 9.471" W	65° 24' 1.397" N
AMQ16-792A	96° 41' 4.035" W	65° 24' 45.957" N	AMQ16-876	96° 41' 4.182" W	65° 24' 40.777" N	AMQ16-961	96° 39' 24.423" W	65° 25' 21.103" N	AMQ16-1046	96° 41' 20.085" W	65° 24' 32.090" N
AMQ16-793	96° 42' 20.217" W	65° 24' 13.770" N	AMQ16-877	96° 41' 30.964" W	65° 24' 42.604" N	AMQ16-962	96° 46' 52.367" W	65° 24' 30.838" N	AMQ16-1047	96° 42' 57.848" W	65° 24' 3.426" N
AMQ16-795	96° 41' 3.047" W	65° 24' 51.778" N	AMQ16-878	96° 42' 20.626" W	65° 24' 11.507" N	AMQ16-963	96° 46' 1.470" W	65° 23' 50.005" N	AMQ16-1049	96° 43' 5.523" W	65° 24' 1.575" N
AMQ16-796	96° 42' 58.512" W	65° 24' 9.340" N	AMQ16-879	96° 41' 31.769" W	65° 24' 39.475" N	AMQ16-964	96° 41' 18.962" W	65° 24' 58.484" N	AMQ16-1050	96° 43' 9.589" W	65° 24' 0.753" N
AMQ16-798	96° 42' 6.501" W	65° 24' 33.454" N	AMQ16-880	96° 42' 18.528" W	65° 24' 10.282" N	AMQ16-965	96° 41' 53.842" W	65° 25' 15.975" N	AMQ16-1052	96° 42' 54.210" W	65° 24' 4.266" N
AMQ16-799	96° 42' 13.729" W	65° 24' 36.234" N	AMQ16-881	96° 44' 54.369" W	65° 23' 28.103" N	AMQ16-966	96° 42' 4.481" W	65° 24' 3.976" N	AMQ16-1053	96° 40' 56.890" W	65° 25' 21.183" N
AMQ16-800	96° 41' 19.929" W	65° 24' 39.980" N	AMQ16-882	96° 42' 16.466" W	65° 24' 9.098" N	AMQ16-967	96° 39' 56.027" W	65° 25' 12.834" N	AMQ16-1054	96° 42' 54.261" W	65° 24' 4.295" N
AMQ16-801	96° 42' 11.631" W	65° 24' 12.716" N	AMQ16-883	96° 42' 21.984" W	65° 24' 40.087" N	AMQ16-968	96° 46' 13.678" W	65° 24' 36.925" N	AMQ16-1055	96° 40' 49.644" W	65° 25' 21.459" N
AMQ16-802	96° 41' 9.080" W	65° 24' 48.773" N	AMQ16-884	96° 41' 6.416" W	65° 24' 41.366" N	AMQ16-969	96° 41' 59.929" W	65° 24' 30.735" N	AMQ16-1056	96° 41' 29.164" W	65° 24' 13.392" N
AMQ16-803	96° 41' 23.543" W	65° 24' 36.054" N	AMQ16-885	96° 44' 50.357" W	65° 23' 25.042" N	AMQ16-970	96° 39' 14.723" W	65° 25' 19.224" N	AMQ16-1057	96° 37' 6.501" W	65° 23' 57.138" N
AMQ16-804	96° 42' 10.577" W	65° 24' 34.768" N	AMQ16-886	96° 42' 15.389" W	65° 24' 8.401" N	AMQ16-971	96° 41' 23.575" W	65° 24' 16.730" N	AMQ16-1058	96° 40' 52.199" W	65° 25' 18.609" N
AMQ16-805	96° 43' 3.557" W	65° 24' 9.959" N	AMQ16-887	96° 42' 37.079" W	65° 24' 40.752" N	AMQ16-972	96° 41' 10.758" W	65° 25' 17.342" N	AMQ16-1059	96° 37' 4.220" W	65° 24' 2.891" N
AMQ16-806	96° 41' 12.516" W	65° 24' 50.670" N	AMQ16-888	96° 40' 48.661" W	65° 24' 45.115" N	AMQ16-973	96° 45' 44.371" W	65° 24' 32.064" N	AMQ16-1060	96° 44' 43.755" W	65° 24' 29.756" N
AMQ16-807	96° 43' 8.075" W	65° 24' 8.080" N	AMQ16-889	96° 42' 53.844" W	65° 24' 34.922" N	AMQ16-974	96° 40' 52.649" W	65° 24' 43.803" N	AMQ16-1061	96° 40' 59.522" W	65° 25' 18.333" N
AMQ16-808	96° 41' 38.018" W	65° 24' 21.073" N	AMQ16-890	96° 44' 44.705" W	65° 23' 21.933" N	AMQ16-975	96° 42' 6.693" W	65° 24' 36.060" N	AMQ16-1062	96° 41' 5.368" W	65° 24' 34.534" N
AMQ16-809	96° 42' 9.917" W	65° 24' 11.357" N	AMQ16-891	96° 41' 2.852" W	65° 24' 43.089" N	AMQ16-975A	96° 42' 6.693" W	65° 24' 36.060" N	AMQ16-1062A	96° 41' 5.368" W	65° 24' 34.534" N
AMQ16-810	96° 41' 53.693" W	65° 24' 32.857" N	AMQ16-892	96° 40' 58.415" W	65° 24' 46.146" N	AMQ16-976	96° 41' 55.531" W	65° 24' 41.442" N	AMQ16-1063	96° 42' 17.368" W	65° 24' 1.764" N
AMQ16-811	96° 41' 15.868" W	65° 24' 52.565" N	AMQ16-893	96° 42' 4.477" W	65° 24' 35.175" N	AMQ16-977	96° 44' 57.049" W	65° 24' 44.590" N	AMQ16-1064	96° 40' 57.216" W	65° 25' 17.171" N
AMQ16-812	96° 41' 2.876" W	65° 24' 38.016" N	AMQ16-894	96° 44' 38.711" W	65° 23' 18.413" N	AMQ16-978	96° 41' 13.680" W	65° 24' 33.186" N	AMQ16-1065	96° 44' 30.236" W	65° 24' 22.554" N
AMQ16-813	96° 41' 3.705" W	65° 24' 49.101" N	AMQ16-895	96° 44' 4.349" W	65° 23' 50.739" N	AMQ16-979	96° 42' 17.244" W	65° 24' 35.208" N	AMQ16-1066	96° 41' 2.648" W	65° 25' 24.176" N
AMQ16-814	96° 42' 13.887" W	65° 24' 33.961" N	AMQ16-896	96° 40' 23.017" W	65° 24' 6.066" N	AMQ16-980	96° 43' 57.727" W	65° 24' 32.655" N	AMQ16-1067	96° 40' 55.503" W	65° 25' 24.248" N
AMQ16-815	96° 40' 59.330" W	65° 24' 53.052" N	AMQ16-897	96° 45' 54.794" W	65° 23' 31.051" N	AMQ16-981	96° 42' 19.109" W	65° 24' 37.038" N	AMQ16-1068	96° 41' 3.265" W	65° 25' 20.238" N
AMQ16-816	96° 41' 20.831" W	65° 24' 37.158" N	AMQ16-898	96° 41' 55.635" W	65° 24' 38.346" N	AMQ16-982	96° 42' 15.008" W	65° 24' 38.401" N	AMQ16-1069	96° 41' 10.391" W	65° 24' 17.751" N
AMQ16-817	96° 41' 38.226" W	65° 24' 17.185" N	AMQ16-899	96° 44' 10.441" W	65° 23' 48.059" N	AMQ16-983	96° 41' 8.942" W	65° 24' 43.278" N	AMQ16-1069A	96° 41' 10.406" W	65° 24' 17.760" N
AMQ16-818	96° 41' 51.768" W	65° 24' 31.905" N	AMQ16-900	96° 45' 47.577" W	65° 23' 28.751" N	AMQ16-984	96° 42' 12.917" W	65° 24' 36.854" N	AMQ16-1070	96° 40' 47.023" W	65° 25' 20.216" N
AMQ16-819	96° 40' 58.992" W	65° 24' 43.143" N	AMQ16-901	96° 39' 41.530" W	65° 24' 11.693" N	AMQ16-985	96° 43' 42.686" W	65° 25' 16.837" N	AMQ16-1071	96° 40' 49.822" W	65° 25' 17.344" N
AMQ16-820	96° 42' 8.906" W	65° 24' 9.221" N	AMQ16-902	96° 46' 8.089" W	65° 23' 29.456" N	AMQ16-986	96° 42' 7.938" W	65° 24' 38.184" N			

8. The Licensee shall determine the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all drill holes located within thirty-one (31) metres of the ordinary High Water Mark, as per Part F, Item 2, and provide these locations on a map of suitable scale for review as part of the annual report.

Table 7, GPS co-ordinates for drill hole locations within thirty-one (31) metres of the High Water Mark

Holes inside the 31meters	**X**	**Y**
AMQ16-711	96° 43' 6.474" W	65° 24' 7.181" N
AMQ16-724	96° 42' 34.147" W	65° 24' 11.478" N
AMQ16-769	96° 42' 39.751" W	65° 24' 9.656" N

9. The Licensee shall establish background and post drilling water quality for pH, conductivity, temperature and dissolved oxygen at the nearest downstream water body to drill locations. Monitoring is to be done just prior to commencement of drilling and weekly thereafter, concluding one week after drilling has been completed and the site restored.

- Please see Table 8.

10. The Licensee shall obtain representative samples of the water column below any ice where required under Part F, Items 9 and 10. Monitoring shall include, at a minimum, the following:
Physical Parameters (pH, electrical conductivity, total suspended solids), Major Ions (Calcium, chloride, magnesium, potassium, sodium, sulphate), Total Metals (Aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, iron, lead, lithium, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, tin, titanium, uranium, vanadium and zinc).

Part F, item 9. For “on-ice” drilling where drill additives are not being used, return water released must be nontoxic, and not result in an increase in total suspended solids in the immediate receiving waters, above the Canadian Council of Ministers for the Environment, Guidelines for the Protection of Freshwater Aquatic Life (i.e. 10 mg/L for lakes with background levels under 100 mg/L, or 10% for those above 100 mg/L).

- No total suspended solid increase of 10 mg/L was present in samples analysed coming from immediate receiving waters.

Table 8, Water sampling during drilling

Date	Sample ID	Sampling period	Lake	pH	Cond	DO	Tss
2016-03-11	600	During drilling	Whale Tail	6.80	95	2.9	<1
2016-03-21	620	During drilling	Whale Tail	6.68	48	3.6	<1
2016-03-26	632	During drilling	Whale Tail	6.65	52	4.1	<1
2016-04-09	653	During drilling	Whale Tail	6.66	48	12.3	<1
2016-05-08	688	During drilling	Whale Tail	6.66	44	12.9	2
2016-02-12	581	During drilling	Mammoth	6.74	51	-	<1
2016-02-21	573	During drilling	Mammoth	6.68	61	-	<1
2016-03-05	583	During drilling	Mammoth	6.58	66	4.2	5
2016-03-06	582	During drilling	Mammoth	6.69	62	3.1	6
2016-03-13	602	During drilling	Mammoth	6.9	92	2.8	10
2016-03-13	603	During drilling	Mammoth	6.88	52	2.6	<1
2016-03-20	619	During drilling	Mammoth	6.76	75	3.9	5
2016-03-20	618	During drilling	Mammoth	6.69	54	2.3	1
2016-03-26	630	During drilling	Mammoth	6.62	54	2.4	<1
2016-04-03	646	During drilling	Mammoth	6.63	61	-	<1
2016-04-03	649	During drilling	Mammoth	6.66	256	-	<1
2016-04-09	663	During drilling	Mammoth	6.65	64	11.5	3
2016-04-09	662	During drilling	Mammoth	6.69	48	12	2
2016-04-16	691	During drilling	Mammoth	6.67	58	10.9	<1
2016-04-16	696	During drilling	Mammoth	6.44	132	10.5	<1
2016-03-13	598	During drilling	A49	6.63	181	4.2	<1

Part F, item 10. The Licensee shall establish water quality conditions prior to and upon completion of any drilling program through lake ice.

- The major Ions and some metals were not analyzed in 2016 since the monitoring was conducted in respect of the water license 2BE-MEA1318. 2017 monitoring will be conducted in respect of the water license 2BB-MEA1318 issued on December 1st 2016 and additional analysis parameters will be added.

Table 9, Water samples prior to and upon completion of drilling program through lake ice.

Date	Sample ID	Sampling period	Lake	pH	Cond	DO	Hardness	Tss	Turb	Al	As	Sb	Ba	Be	Cd	Cr	Co	Cu	Fe	Pb	Li	Mn	Hg	Mo	Ni	Se	Sn	Sr	Tl	Ti	U	V	Zn
2016-02-21	570	Before drilling	Whale Tail	6.67	50	-	-	<1	1.76	0.016	0.031	0.0001	0.0095	<0.0005	<0.00002	0.0029	<0.0005	0.0076	0.02	<0.0003	<0.005	0.0021	<0.00001	<0.0005	0.0015	<0.001	<0.001	0.028	<0.002	<0.01	<0.001	<0.0005	0.006
2016-05-08	737	After drilling	Whale Tail	6.62	51	13.2	17	1	0.51	<0.006	0.003	<0.0001	0.0073	<0.0005	<0.00002	0.0015	<0.0005	<0.0005	<0.01	0.0013	<0.005	0.0012	<0.00001	<0.0005	0.0008	0.001	<0.001	0.036	<0.002	<0.01	<0.001	<0.0005	0.002
2016-02-07	556	Before drilling	Mammoth	6.53	56	-	-	<1	0.83	0.008	<0.0005	<0.0001	0.0091	<0.0005	<0.00002	<0.0006	<0.0005	0.0005	0.01	<0.0003	<0.005	0.0027	0.00004	<0.0005	0.001	<0.001	<0.001	0.027	<0.002	<0.01	<0.001	<0.0005	0.001
2016-04-30	722	After drilling	Mammoth	6.72	48	-	26	<1	0.51	0.01	<0.0005	<0.0001	<0.0117	<0.0005	<0.00002	0.0014	<0.0005	0.0008	<0.01	<0.0003	<0.005	0.0025	<0.00001	<0.0005	0.0021	<0.001	<0.001	0.037	<0.002	<0.01	<0.001	<0.0005	<0.001
2016-04-30	704	Before drilling	A43	6.44	70	-	26	<1	0.72	<0.006	<0.0005	<0.0001	0.0263	0.0005	<0.00002	<0.0006	<0.0005	<0.0005	0.02	<0.0003	<0.005	0.0112	<0.00001	<0.0005	0.001	<0.001	<0.001	0.027	<0.002	<0.01	<0.001	<0.0005	<0.001
2016-05-08	743	After drilling	A43	6.56	123	10.4	47	<1	1.8	<0.006	0.0015	<0.0001	0.0492	<0.0005	<0.00002	<0.0006	<0.0005	0.0008	0.07	0.0009	<0.005	0.0069	<0.00001	<0.0005	0.0028	<0.001	<0.001	0.061	<0.002	<0.01	<0.001	<0.0005	0.002
2016-03-07	587	Before drilling	A49	6.73	169	4.2	56	3	0.44	0.021	<0.0005	<0.0001	0.0075	<0.0005	<0.00002	<0.0006	<0.0005	0.0037	0.06	<0.0003	<0.005	0.0586	<0.00001	<0.0005	0.0066	<0.001	<0.001	-	<0.002	0.01	<0.001	<0.0005	0.02
2016-05-15	774	After drilling	A49	6.58	207	11.3	82	1	0.65	0.017	0.0039	<0.0001	0.0107	<0.0005	<0.00002	0.0017	<0.0005	0.0016	0.03	<0.0003	<0.005	0.0571	0.00005	<0.0005	0.0138	<0.001	<0.001	0.099	<0.002	0.01	<0.001	<0.0005	0.004

11. The Licensee shall establish baseline water quality conditions prior to drilling within thirty-one (31) metres of the ordinary High Water Mark as per Part F, Items 2 and 3. Monitoring shall include the following: Physical Parameters (pH, electrical conductivity, total suspended solids, turbidity)
Major Ions (Calcium, chloride, magnesium, potassium, sodium, sulphate)
Total Metals (Aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, iron, lead, lithium, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, tin, titanium, uranium, vanadium and zinc)

- Only 3 holes were drilled within the thirty-one meters of the ordinary Water Mark in April and May and all of those were located on the banks of the narrow between Whale Lake and Mammoth Lake. Mammoth is a lake studied in relation to the Amaruq Whale Tail Pit project. The samples taken prior and after the drilling didn't show an alteration of the water quality.

Table 10, Mammoth Lake sample analysis (data from CREMP)

Lake	Mammoth Lake (MAM)							
Stations								
Area-Replicate ID	MAM-07	MAM-08	MAM-09	MAM-10	MAM-11	MAM-12	MAM-13	MAM-14
Depth (m)	3	3	3	3	3	3	3	3
Date	2016-04-24	2016-04-24	2016-07-29	2016-07-29	2016-08-13	2016-08-13	2016-09-12	2016-09-12
Field Measurements (Surface)								
Temperature (°C)	0.66	0.72	12.1	12.2	14.4	14.4	7	7.1
Specific Conductivity (µS/cm)	51.7	40.7	31.2	31.1	30.2	29.9	35.2	35.2
Dissolved Oxygen (mg/L)	16.02	13.69	10.46	10.38	9.62	9.46	10.02	10
pH	6.4	6.39	6.72	6.85	6.69	6.66	6.61	6.7
Physical Tests (mg/L)								
Conductivity (µS/cm)	50.6	42.5	33.5	33.8	35	34.6	35.2	34.6
Hardness	18.4	15.3	12.5	12.7	12.9	12.7	12.6	12.5
pH (Laboratory)	6.93	6.94	6.58	6.58	6.68	6.64	6.81	6.82
Total Suspended Solids	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids	36.1	30.4	38.7	38.3	25.3	25.5	24.8	24.6
Turbidity (NTU)	0.2	0.17	0.29	0.32	0.27	0.26	0.26	0.26
Total Metals (mg/L)								
Aluminum	0.0045	0.0036	0.0086	0.0102	0.0071	0.0068	0.008	0.0055
Antimony	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic	0.00039	0.00039	0.00039	0.00041	0.00042	0.00037	0.00041	0.00042
Barium	0.00942	0.00754	0.00692	0.00699	0.0059	0.00621	0.00644	0.00651
Beryllium	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Calcium	4.91	3.97	3.51	3.57	3.42	3.61	3.49	3.57
Chromium	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00025	0.00011
Cobalt	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Copper	0.00058	0.0005	<0.00050	<0.00050	0.0006	<0.00050	0.00059	<0.00050
Iron	<0.010	<0.010	0.017	0.016	0.013	0.012	0.021	0.017
Lead	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.00022	0.000179
Lithium	0.0017	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium	1.53	1.29	0.93	0.94	0.91	0.96	0.96	0.99
Manganese	0.00171	0.00108	0.00286	0.00308	0.0017	0.00278	0.00201	0.00204
Mercury	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000093	0.000086
Nickel	0.00131	0.00092	0.00096	0.00101	0.0007	0.00091	0.00091	0.00075
Phosphorus	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium	0.84	0.77	0.59	0.6	0.61	0.64	0.68	0.69
Selenium	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Silicon	0.554	0.516	0.26	0.274	0.263	0.268	0.334	0.331
Silver	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium	0.861	0.79	0.586	0.583	0.571	0.591	0.588	0.593
Strontium	0.0303	0.0227	0.0263	0.0264	0.025	0.0248	0.0243	0.0248
Sulfur	1.21	1.17	0.71	0.71	0.69	0.74	1.06	1.06
Thallium	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Tin	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Uranium	0.000023	0.00002	0.000028	0.000027	0.000021	0.000021	0.000019	0.000019
Vanadium	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Zinc	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Zirconium	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030

12. The Licensee shall, where turbidity is observed in adjacent waters or waters immediately downstream of any drilling program conducted within thirty-one (31) metres of the ordinary High Water Mark of any water body, during summer following any such drilling program as per Part F, Item 5 (c), conduct additional monitoring of the parameters listed in Part J, Item 10 to determine whether any further mitigation is required.

- No turbidity was observed in adjacent water or waters immediately downstream of drilling sites. The drilling waste (cutting) was pumped and disposed of at least at 31 meters from the water body in a natural depression where direct flow into water body is not possible.

13. The Licensee shall monitor runoff and/or discharge from the quarry sites to receiving environment, during blasting activities, during periods of flow and following significant precipitation events, on a monthly basis, for the following parameters:
Physical Parameters (pH (field and laboratory), temperature (field), alkalinity, bicarbonate, carbonate, electrical conductivity, hardness, hydroxide, ion balance, total dissolved solids, total suspended sediments)
Nutrients (Ammonia-nitrogen, nitrate nitrogen, nitrite-nitrogen, ortho-phosphate)
Major Ions (Calcium, chloride, magnesium, potassium, sodium, sulphate)
Total Metals (Aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, iron, lead, lithium, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, tin, titanium, uranium, vanadium and zinc).

- The quarry associated to this requirement is not in operation yet.

14. The Licensee shall, during periods of flow and just after a major rainfall event, conduct water quality testing immediately upstream and downstream of the water crossings, any significant water seeps in contact with the road and any flows originating from borrow pits or rock quarries on a monthly basis prior to construction, during the construction and upon completion for the parameters listed under Part J, Item 11.

- Weekly samplings of the water crossing 181 were conducted between May and October and no alteration of the water quality was observed between upstream and downstream samples.

Table 11, Water crossing 181 samples analysis

Culvert 181	2016-05-29		2016-06-05		2016-06-15		2016-06-30		2016-07-12		2016-07-22		2016-08-01		2016-08-07		2016-08-23		2016-08-29		2016-09-10		2016-09-21		2016-09-29		2016-10-06	
	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS	US	DS
pH	5.53	6	5.49	5.47	6.2	6.21	6.57	6.64	6.66	6.66	6.81	6.75	6.75	6.82	6.73	6.73	6.67	6.64	6.54	6.54	6.71	6.7	6.75	6.73	6.68	6.63	6.7	6.69
Cond	61	32	67	87	11	11	14	15	15	16	16	16	17	15	25	44	20	21	21	21	27	31	30	30	37	36	22	22
Tss	15	15	<1	<1	1	1	2	2	<1	2	3	1	<1	4	<1	1	4	4	<1	1	1	<1	<1	<1	<1	3	1	1
Hardness	20	10	21	24	2	2	3	3	5	6	4	5	6	5	6	9	7	6	6	6	8	10	9	9	12	11	7	6
Turb.	42	15.4	37.6	53	1.56	1.87	1.45	1.65	1.47	1.2	1.06	1.2	1.3	1.07	0.79	2.45	0.82	0.97	0.91	1.05	0.9	1.05	0.61	0.76	0.93	0.77	0.74	0.94
Al	1.32	0.363	0.859	0.969	0.023	0.037	<0.006	<0.006	<0.006	0.016	0.014	0.035	0.029	0.018	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.013	0.033	0.007	0.025	0.027	0.021	0.017
As	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0013	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Sb	0.0002	0.0001	<0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Ba	0.0183	0.0087	0.0225	0.0263	0.0014	0.0016	<0.0005	<0.0005	0.001	0.0013	0.0009	0.0007	0.0036	<0.0005	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0018	0.003	0.0014	0.0018	<0.0005	<0.0005	<0.0005	<0.0005
Be	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0014	0.0009
Cd	<0.00002	<0.00002	0.00002	<0.00002	0.00004	<0.00002	<0.00002	<0.00002	<0.00002	0.00003	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Cr	0.002	<0.0006	0.0055	0.0052	0.0033	0.0025	<0.0006	<0.0006	<0.0006	<0.0006	0.0014	0.0017	0.0008	0.0007	<0.0006	<0.0006	0.0009	0.0014	0.0028	0.0031	<0.0006	<0.0006	<0.0006	<0.0006	0.001	0.0011	<0.0006	0.0037
Co	0.0019	0.0011	0.0024	0.0028	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cu	0.0037	0.0006	0.0028	0.0033	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0026	<0.0005	<0.0005	0.0027	<0.0005	0.0005
Fe	1.73	0.61	1.59	1.87	0.04	0.07	0.09	0.14	0.25	0.5	0.34	0.2	0.44	0.2	0.11	0.23	0.52	0.17	0.14	0.34	0.13	0.28	0.14	0.24	0.15	0.16	0.12	0.11
Pb	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0006	0.0006	<0.0003	0.002	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0302	0.0014	<0.0003	<0.0003	<0.0003	<0.0003
Li	<0.005	<0.005	0.005	0.006	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mn	0.3875	0.2415	0.5897	0.6414	0.0127	0.022	0.0032	0.0051	0.0089	0.0192	0.008	0.0046	0.0132	0.003	0.0152	0.0447	0.0159	0.008	0.0099	0.0151	0.0119	0.0235	0.0159	0.0205	0.0223	0.0214	0.0043	0.003
Hg	<0.00001	<0.00001	-	<0.00001	<0.00001	<0.00001	-	-	<0.0001	<0.0001	0.00076	0.00075	0.00071	0.00076	<0.0001	<0.0001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Mo	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Ni	0.0065	0.0024	0.0062	0.0068	<0.0005	<0.0005	<0.0005	0.001	<0.0005	0.0005	0.0005	0.0005	<0.0005	<0.0005	0.0007	0.0015	<0.0005	<0.0005	<0.0005	<0.0005	0.0006	0.0009	0.002	0.0007	0.0011	0.001	0.0006	0.0006
Se	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sn	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sr	0.019	0.011	0.034	0.039	<0.005	<0.005	0.005	<0.005	0.005	0.005	0.005	0.007	0.005	0.005	0.008	0.016	0.005	<0.006	0.006	0.008	0.008	0.01	0.015	0.015	0.016	0.017	<0.005	<0.005
Tl	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Ti	0.04	0.01	0.04	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
U	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
V	<0.0005	<0.0005	0.0013	0.0006	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Zn	0.019	0.03	0.02	0.034	<0.001	0.001	<0.001	0.007	0.003	0.024	0.007	0.001	0.018	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	0.011	<0.001	0.003	0.013	0.011	<0.001	0.007	0.008	0.001

15. The Licensee shall implement a water crossings visual inspection and maintenance program prior to, during spring freshet and after heavy rainfall events to identify issues related to watercourse crossings structural integrity and hydraulic function.

- See pictures attached in the document “Visual inspection crossing 181_freshet 2016”. No issue related to watercourse crossing structural integrity or hydraulic function was seen in 2016.

16. The Licensee shall submit to the Board for review within the 2016 Annual Report, a Quality Assurance/Quality Control Plan (QA/QC) prepared in accordance with and in consultation with the accredited laboratory conducting the analyses. The Plan shall include a cover letter from the accredited laboratory confirming approval of the Plan for analyses to be performed under this Licence. This Plan shall be developed in accordance with current Standard Methods and the 1996 Quality Assurance (QA) and Quality Control (QC) Guidelines for Use by Class “A” (INAC).

- Please find attached the QAQC plan.

17. The Licensee shall annually review the approved Quality Assurance/Quality Control plan and modify it as necessary. Proposed changes shall be submitted to an accredited laboratory for approval.

- Please find attached the QAQC plan.

18. All sampling, sample preservation and analyses shall be conducted in accordance with methods prescribed in the current edition of Standard Methods for the Examination of Water and Wastewater, or by such other methods approved by the Board in writing.

- Laboratory accreditations were added in the QAQC plan, in attachment.

19. All analyses shall be performed in a laboratory accredited according to ISO/IEC Standard 17025. The accreditation shall be current and in good standing.

- Laboratory accreditations were added in the QAQC plan, in attachment.

20. The Licensee shall include in the Annual Report required under Part B, Item 2 and in Construction Summary Report required under Part E, Item 8 all data, monitoring results and information required by this Part.

- Part E item

  8. The Licensee shall submit to the Board for review within thirty (30) days prior to construction, issued-for-construction drawings for all engineered project infrastructures (i.e. roads, camp pad construction, water crossings) stamped by a qualified Engineer. A Construction Summary Report including as-built plans and drawings stamped by a qualified Engineer shall be submitted to the Board within ninety (90) days of completing construction undertakings.

  - On July 30th 2015, Agnico Eagle submitted to the board an engineered drawing for water crossing 181 located south of the Amaruq camp. The construction started on September 3rd, 2015 and the upstream stabilization was completed before the winter. In summer 2016, the stabilization of the downstream was completed. Pictures 1 to 3 show construction and stabilization of the culverts.
  - An additional field survey is required by the engineer to complete the as-built plan. The survey will be conducted when snow is melted and final report will be submitted with the 2017 annual report.

Picture 1, Crossing 181 during construction (September 2015)

Picture 2, Crossing 181, upstream stabilization completed before winter (October 2015)

Picture 3, Crossing 181, downstream stabilization completed (2016)

21. Additional monitoring may be requested by the Inspector.

- No additional monitoring requested by the inspector.