WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee	Licensee Representative
Weber Arctic Expeditions Ltd.	Richard Weber
Licence No. / Expiry	**Representative's Title**
7BL-AWL2333	Owner/ Operator
Land / Other Authorizations	**Land / Other Authorizations**
Lease 58F/2-1-2	
Date of Inspection	**Inspector**
July 11, 2023	Joseph Monteith & James Bolt

Activities Inspected

☒ Camp ☐ Drilling ☐ Mining ☐ Construction ☐ Reclamation ☒ Fuel Storage
☐ Roads/Hauling ☒ Other: ☐ Other:

Conditions: A- Acceptable U-Unacceptable C-Concern NI-Not Inspected NA- Not applicable

PART:	Condition	Observation No.*
A: SCOPE, DEFINITIONS AND ENFORCEMENT	NI	
B: GENERAL CONDITIONS	A	
C: CONDITIONS APPLYING TO WATER USE	A	1-6
D: CONDITIONS APPLYING TO WASTE DISPOSAL	A	7-19
E: CONDITIONS FOR CAMPS, ACCESS INFRASTRUCTURES AND OPERATIONS	A	28
F: CONDITIONS APPLYING TO MODIFICATIONS	A	
G: CONDITIONS APPLYING TO CONSTRUCTION	NI	
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING	A	18-25,27
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING	NA	
J: CONDITIONS APPLYING TO MONITORING	A	26
SCHEDULES	A	

**The observation number corresponds with specific comments provided below.*

Samples taken by Inspector:	Location(s): camp: N74 04 12.0 W93 48 36.0
☐ Yes ☒ No	Fuel cache at airstrip: N74 04 16.1 W93 47 02.9

SECTION 1 ☒ **Comments** (s.__) ☐ **Non-Compliance with Act or Licence** (s.__) ☐ **Action Required** (s.__)

BACKGROUND

The Arctic Watch Lodge, owned and operated by Weber Arctic Expeditions Ltd. (previously Canadian Arctic Holiday Ltd.), is situated on Somerset Island, approximately eighty (80) kilometres south of Resolute Bay, in the Qikiqtani Region, Nunavut.

On June 20, 2023 7BL-AWL2333 was issued to Weber Arctic Expeditions Ltd., as a replacement License. The license authorizes Arctic Watch to withdrawal up to 5m^3 of water per day and deposit waste in support of their tourism facility.

Relevant infrastructure includes, the camp (photo 1), and airstrip on Inuit Owned Land(IOL) (photo 2) water withdrawal site, water storage facilities, sumps for grey water and sump pit for black water. There are mobile storage tanks for sewage, and a stationary storage tank with pump for grey water. There is also a solid waste facility, fuel storage tanks and secondary containment berm for storage of Hazardous Material, and secondary containment for hazardous waste.

Inspector Statement

On July 11, 2023, an Inspection was conducted by Water Resource Officer Joseph Monteith(WRO Monteith) at Weber's Arctic Expedition Ltd.'s Arctic Watch Lodge located at Cunningham Inlet, Somerset Island, NU for water licence 7BL-AWL2333.

General Condition

On November 6, 2023 Robert Hunter, Licensing Administrator with the Nunavut Water board emailed WRO Monteith acknowledging receipt of Weber Arctic Expeditions Ltd. 2022 and 2023 annual reports.

Water Use

1. Water withdrawn from the Cunningham River which flows 5 metres below the camp. (photo 3).
2. Water intake hose has a fish mesh screen (photo 3).

3. 5 water storage tanks. 1-500 Gallon, and 4-100 Gallon water storage tanks (photo 4).
4. Water meter photographed on July 11, 2023 showing 125325.6 US Gallons (474.40 m^3)withdrawn (photo 5).
5. Water Usage Logs from June 14, 2023 to July 2, 2023 shows 123386 US Gallons (467.06 m^3) were withdrawn. Water meter and Water usage log recordings do not have same information on the day of inspection. Total water withdrawn during that time did not exceed the daily withdrawal amount of 5m^3 (photo 6).
6. Water Usage Logs from form July 16, 2023 to August 23 shows 123386 US Gallons and cubic metres. Log book indicates below 5m³ daily withdrawal of water from the Cunningham River (photo 7).

Waste Disposal

7. Bulk Metals and Solid Wastes left on site for recycling. Hazardous wastes, bulk wastes and domestic waste are flown to Yellowknife for proper disposal at an approved facility (photo 28).
8. 2 x washing stations (photo 8).
9. A Mobile Sewage Tank (photo 9).
10. 2 x Sump Pit (photo 10,11).
11. 2x Grey water storage tanks (photo 12).
12. Forced Air Incinerator. Logs indicate 25kg of incinerated material flown to Yellowknife, NT for disposal (photo 13, 14,28).
13. Waste drums at airstrip (photo 15).
14. Waste drums in secondary containment at Solid Waste Facility (photo 16).
15. Old incinerator (photo 17).
16. Bulk woods (photo 18).
17. Bulk Metals (photo 19).
18. Waste in drums in secondary containment (photo 20).

Spill Contingency

19. Fuel Cache #1 was within 31 metres of thew nearest adjacent water body. Reclamation of the drainage ditch was conducted. This is now deemed to be compliant with requirement to store fuel cache 31 metres away from the high water mark. Prior notification provided to the inspector, and the NWB on July 22, 2023.
20. Drum with minor spills. Drum outside of secondary containment (photo 24).
21. 5 Propane storage tanks. 4 medium, 1 large tanks (photo 25).
22. 900 Litre Storage tank, with drip pan for secondary containment. (photo 26).
23. The Fuel Transfer Area, drums in secondary containment drums spill kit drums, and on top of a secondary containment pallet. Signs of minor spills. Secondary containment berm set up to capture any spills from the hose post inspection. (photos 27and 28).
24. Double walled fuel storage tank in secondary containment (photo 29).
25. All-Terrain Vehicle(ATV) parked on the vehicle maintenance pad, rubber matting over some timbers provides secondary containment for leaks and spills while servicing (photo 30).

Record Keeping

26. On October 10 , 2023 WRO Monteith received an email from Richard Weber, Owner of Arctic Watch, Cunningham Inlet, NU, with a document contained the dates of the garbage log. The document also had a sentence regarding the amount of water used at 63111 Gallons used between June 15 and August 20, 2019. With a calculation of use per day at 3.6 m³ the licensee is authorized for 5 m³ per day.

Spill Reports

27. Only July 18, 2012 a pipe leak initiated the submission of spill report 2012-297 for 5 litres of petroleum product spilt from a truck. The cause was from a pipe leak from the vehicle. Spill report closed October 30, 2023.

SECTION 2	☐ Comments	☐ Non-Compliance with Act or Licence	☒ Action Required

-Move the grey water storage tanks at least 31 metres from the High Water Mark to be compliant with Part H: Item 2, as the storage tanks and pipes falls under the definition of Part A:Item 2. “Sump or Sumps”.
-use of drip pans to manage motor fluids and other wastes while servicing to contain wastes at the fuel transfer station to be in compliance with Part H: Item 3. Action remedied post inspection (photo).
-maintain your Water Usage Logs daily, to ensure that you have captured all daily measurements of water withdrawal to be compliant with Part J: Item 1.
-Find new Secondary Containment Berms for storage of fuel as per Part A: Item 2. For your fuel transfer station.
-Submit spill reports for the minor spills observed at the fuel transfer station and the fuel cache at airport, as per Part H: Item 4 and 5.

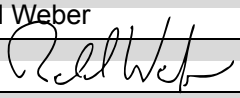
SECTION 3	☐ Comments	☒ Non-Compliance with Act or Licence	☐ Action Required

PART H: CONDITIONS APPLYING TO SPILL CONTINGENCY PLANNING
2.The Licensee shall prevent any chemicals, petroleum products or wastes associated with the project from entering water. All Sumps and fuel caches shall be located at a distance of at least thirty-one (31) metres from the ordinary High Water Mark of any adjacent water body and inspected on a regular basis.

3. The Licensee shall conduct any equipment maintenance and servicing in designated areas and shall implement special procedures (such as the use of drip pans) to manage motor fluids and other waste and contain potential spills.

4. If during the term of this Licence, an unauthorized discharge of waste occurs, or if such a discharge is foreseeable, the Licensee shall: a. Employ the approved Spill Contingency Plan;
b. Report the spill immediately to the 24-Hour Spill Line at (867) 920-8130 and to the Inspector at (867) 975-4295; and
c. For each spill occurrence, submit to the Inspector, no later than thirty (30) days after initially reporting the event, a detailed report that will include the amount and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean up the spill site.
5. The Licensee shall, in addition to Part H, Item 4, regardless of the quantity of releases of harmful substances, report to the NWT/NU Spill Line if the release is near or into a water body.

Part J: Item 1. CONDITIONS APPLYING TO THE MONITORING PROGRAM
The Licensee shall measure and record, in cubic metres, the daily quantities of water utilized for all purposes.
Part A: Item 2. Definitions
"**Secondary Containment**" means an impermeable structure, external to and separate from primary containment, which prevents unplanned spills of hazardous materials and provides a minimum capacity of 110% of the original vessel. Where multiple vessels are stored within the containment, it must provide a minimum capacity equal to the sum of the largest vessel and 10% of the aggregate volume of all other vessels located in the containment. This structure shall also provide containment and control of hoses and nozzles;
"**Sump or Sumps**" A structure or depression that collects, controls, and filters liquid waste before it is released to the environment. This structure should be designed to prevent erosion while allowing percolation of liquid waste;

Licensee or Representative	Inspector's Name
Richard Weber	Joseph Monteith
Signature	**Signature**
	
Date	**Date**
Nov 6 2023	November 27, 2023

CC: Licensing Department, NWB
Jeremy Fraser, Manager of Field Operations, CIRNAC

PHOTO LOG

Date	Camera	Inspector	
July 11, 2023	Galaxy S9	Joseph Monteith	
Photo Log #		**Location**	
Photo 1		Arctic Watch, Cunningham inlet	

Description: camp and structures used in relation to the project

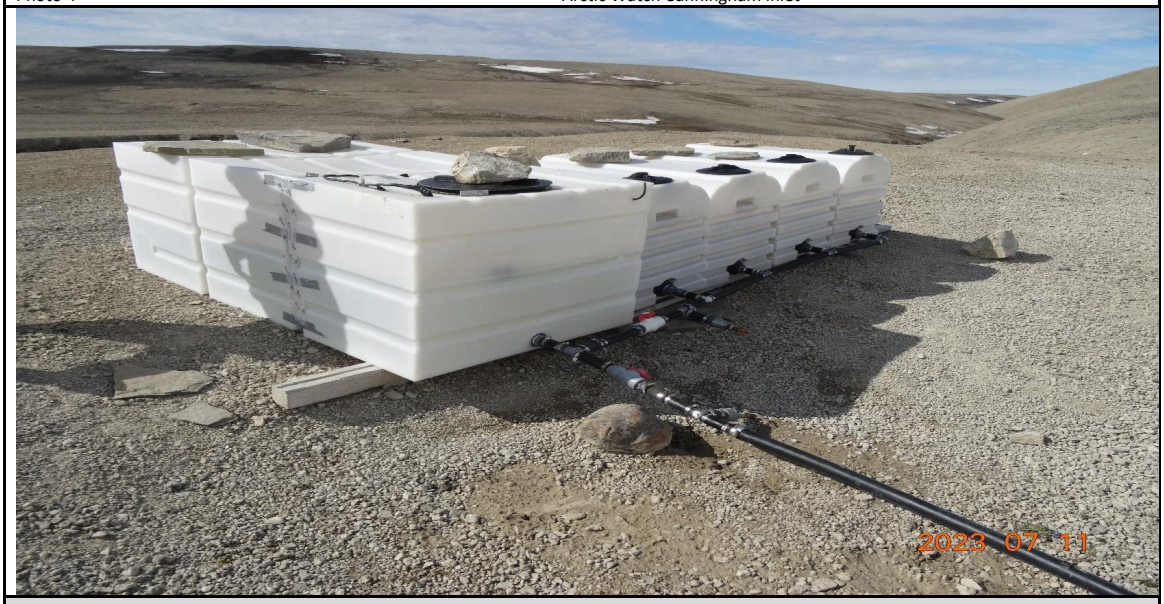
Photo Log #	Location
Photo 2	Arctic Watch Cunningham inlet

Description: Arctic Watch Airstrip at Cunningham River, Somerset Island, Nunavut.

Photo Log #	Location
Photo 3	Arctic Watch Cunningham inlet

Description: Water withdrawal site. Fish Mesh Screen visible

Photo Log #	Location
Photo 4	Arctic Watch Cunningham inlet

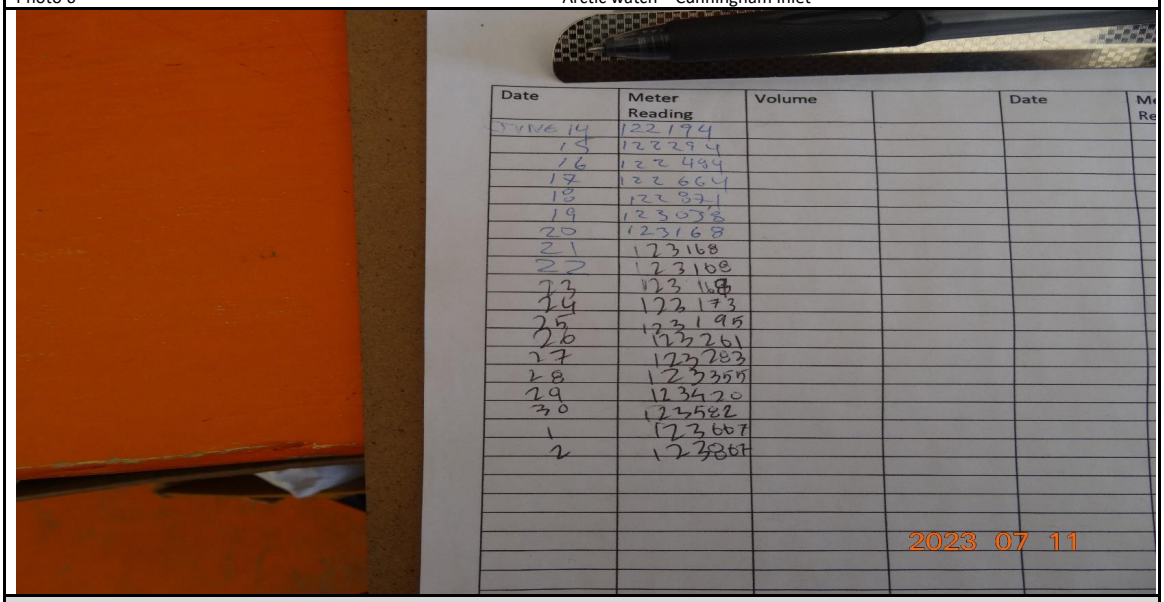


Description: 1-500 Gallon, and 4-100 Gallon water storage tanks

Photo Log #	Location
Photo 5	Arctic watch – Cunningham Inlet

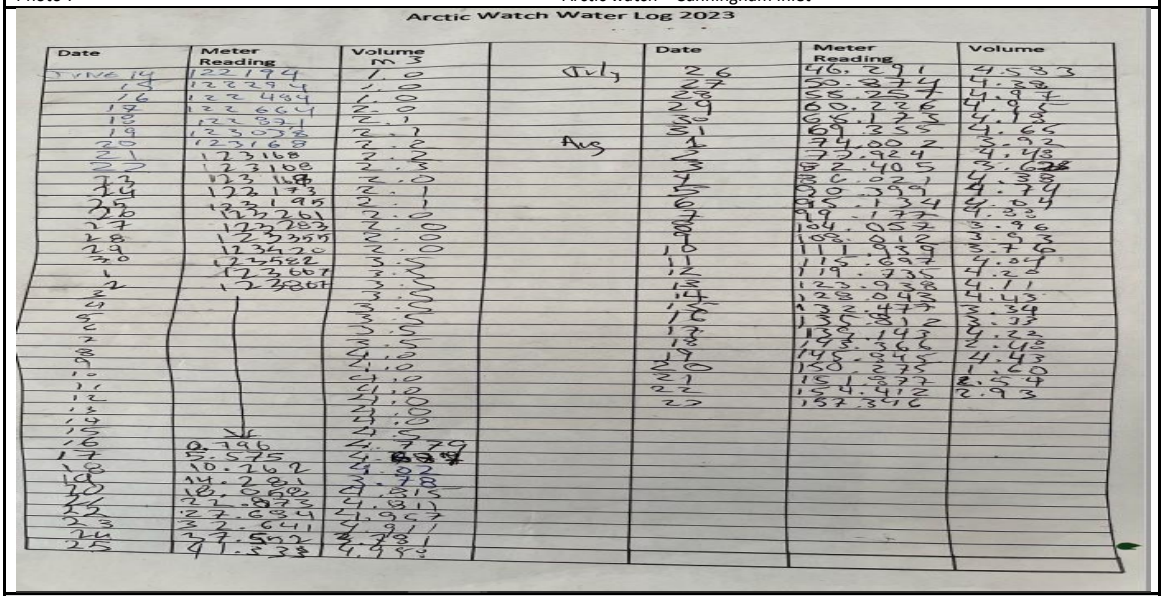
Description: DAE Water Meter reads 125325.6 US Gallons

Photo Log #	Location
Photo 6	Arctic watch – Cunningham Inlet



Description: Water Usage Logs from June 14, 2023 to July 2, 2023 shows 123386 US Gallons were withdrawn.

Photo Log #	Location
Photo 7	Arctic watch – Cunningham Inlet



Description: Water usage logs as recorded from the water meter shows a total of 157.346 US Gallons consumed form July 16, 2023 to August 23, 2023. Discrepancy in water usage from June 3, 2023 to June 16m, 2023. Daily cubic metres recorded.

Photo Log #	Location
Photo 8	Arctic Watch Cunningham inlet

Description: 2 washing stations with grey water.

Photo Log #	Location
Photo 9	Arctic watch – Cunningham Inlet

Description: mobile sewage tank.

Photo Log #	Location
Photo 10	Arctic Watch - Cunningham inlet

Description:1 of 2 sump pits.

Photo Log #	Location
Photo 11	Arctic Watch - Cunningham inlet

Description:2 of 2 sump pits.

Photo Log #	Location
Photo 12	Arctic Watch Cunningham inlet

Description: Grey water storage. Grey awater is gravity fed into the storage tanks. Any suspended solids is captured here, and the liquid is pumped to the sump pit.

Photo Log #	Location
Photo 13	Arctic watch – Cunningham Inlet

Description: forced air incinerator

Photo Log #	Location
Photo 14	Arctic watch – Cunningham Inlet

Description: Inside the Incinerator. Incinerated debris, typically drummed up in empty fuel drums, and flown to an approved waste disposal facility in Yellowknife, NT.

Photo Log #	Location
Photo 15	Arctic Watch Cunningham inlet

Description: Behind vehicle and waste drums storage at the airstrip

Photo Log #	Location
Photo 16	Arctic Watch Cunningham inlet

Description: Empty Waste drums on a lined pad with timbers to contain any wastes at Solid Waste Facility.

Photo Log #	Location
Photo 17	Arctic Watch Cunningham inlet

Description: Old incinerator Solid Waste Storage Facility

Photo Log #	Location
Photo 18	Arctic Watch Cunningham inlet

Description: Empty Propane Tank in Bulk Woods at bulk wood at Solid Waste Facility.

Photo Log #	Location
Photo 19	Arctic Watch Cunningham inlet

Description: Bulk Metal and bulk wood at Solid Waste Facility

Photo Log #	Location
Photo 20	Arctic Watch Cunningham inlet

Description: Fuel cache secondary contaminent. Drainage ditched within 31 metres of fuel cache. Photo submitted by Weber Arctic Expeditions Ltd.

Photo Log #	Location
Photo 21	Arctic Watch Cunningham inlet

Description: Fuel Cache secondary contaminent. Drainage ditched filled in with gravel to comply with the requirement to be 31 metres from the Ordinary High Water Mark of any adjacent water bodies.

Photo Log #	Location
Photo 22	Arctic Watch Cunningham inlet

Description: Fuel Cache secondary containment walls are flush with the surrounding landscape. 19 barrels on top of liner. Also a fuel transfer station.

Photo Log #	Location
Photo 23	Arctic Watch Cunningham inlet

Description: Fuel Cache in secondary containment walls are slightly elevated with the surrounding landscape. Approximately77 barrels on top of liner. Also a fuel transfer station with two drums.

Photo Log #	Location
Photo 24	Arctic Watch Cunningham inlet

Description: Minor spill from a drum outside secondary containment.

Photo Log #	Location
Photo 25	Arctic Watch - Cunningham inlet

Description: 1 large propane tank ,4 medium propane tanks.

Photo Log #	Location
Photo 26	Arctic watch – Cunningham Inlet

Description: 900 Litre Fuel Storage tank with secondary containment drip pan. Connection points outside of secondary containment

Photo Log #	Location
Photo 27	Arctic watch – Cunningham Inlet

Description: Fuel Storage tank with fuel transfer equipment in spill kit containment. 2 x spill kits containment on top of secondary containment pallet. 1 x spill kit. Sign of minor spills. Photo 30 shows installation of a drip pan to capture spills from the fuel line during fuel transfer.

Photo Log #	Location
Photo 28	Arctic watch – Cunningham Inlet

Description: Weber's Arctic Expeditions Ltd. Constructed this containment berm to capture liquids at the fuel transfer station.

Photo Log #	Location
Photo 29	Arctic watch – Cunningham Inlet

Description: Fuel Storage tank with built in secondary containment and on top of secondary containment.

Photo Log #	Location
Photo 30	Arctic watch – Cunningham Inlet

Description: Vehicle Maintenance platform. Flooring is ply wood, and a rubber mat propped up with some timbers to help capture any spills.