

REPORT – NWB 8WLC-LHA1718 Approval Without A Licence

Project Name: Planetary Analog Studies at the Flashline Mars Arctic Research Station Project

Licensee: Shannon Rupert

Mailing Address: Mars Society, 11111 West 8th Ave. Ste A, Lakewood, Colorado 80215-5516, USA

Water Sources used: Unnamed creek in the vicinity of the Flashline Mars Arctic Research Station, Devon Island.

Water Quantity taken: 0.075 m³/day

Water Source Coordinates: 75.433828° N, -89.836651° W

Waste Management and/or Disposal: Greywater disposal on site (sump), solid waste disposal via Resolute

Sump Coordinates:

- Sump: 75.433828° N, -89.836651° W

Progressive Reclamation Work Undertaken:

All reclamation work for sites erected was completed during the license period. Water was taken from an unnamed stream in the vicinity of the Flashline Mars Arctic Research Station on Devon Island. Consumption did not exceed 0.075 m³/day.

For greywater disposal, a sump site was dug at the station. For the sump site, a shallow hole (10-20 cm), was dug into the soil for the disposal of wastewater. At the end of its use, the sump site was filled in with the original displaced soil leaving no impression in the tundra.

Human waste was disposed of in two ways, neither of which have an impact on the local environment. Solid human waste was burnt on site. The ashes have been brought to Resolute for disposal. Liquid human waste is contained into barrels, which were placed into containment basins near the base. These containment basins were inspected and verified by Environment Canada on July 1, 2017.

Non-human waste was flown out at the end of the season for disposal.

Date Submitted:

Submitted/Prepared by: Paul Sokoloff

Contact Information: 613-364-4077, psokoloff@mus-nature.ca