

Annual Report: Nunavut Water Board Licence No. 3BC-CVF1111 / Expedition CASE 12**General Remark**

Due to high water discharge rates of Humphrey's River in early August 2011 the originally intended camp site for the expedition CASE 12 – Vendom Fiord at Lat 78° 03' 00" / Lon 82° 15' 00" W was partly flooded and thus not utilisable. Polar Continental Shelf Project (PCSP) logistics manager Mike Kristjanson, proposed an alternative camp site at Lat 78° 06' 47.49" N / Lon 82° 28' 34.58" W at the nearby Mulla River. This site has also good accessibility by Twin Otter, is located out of the river's bed, and it provided sufficient drinking water.

Water use and waste disposal activities

The daily use of water for the camp (maximum number of persons present: 13; field days: 23) averaged between 150 and 200 liters per day. A greywater sump and a latrine pit were established beyond 31 m of the high water mark of the Mulla River. At the end of the expedition CASE 12, both have been covered with native material and leveled to the original surface contour. All other waste of the expedition including micro-litter has been carefully collected in waste disposal bags, which have been completely transported back by Twin Otter to Resolute Bay for regular disposal by PCSP.

Photographic record of camp site

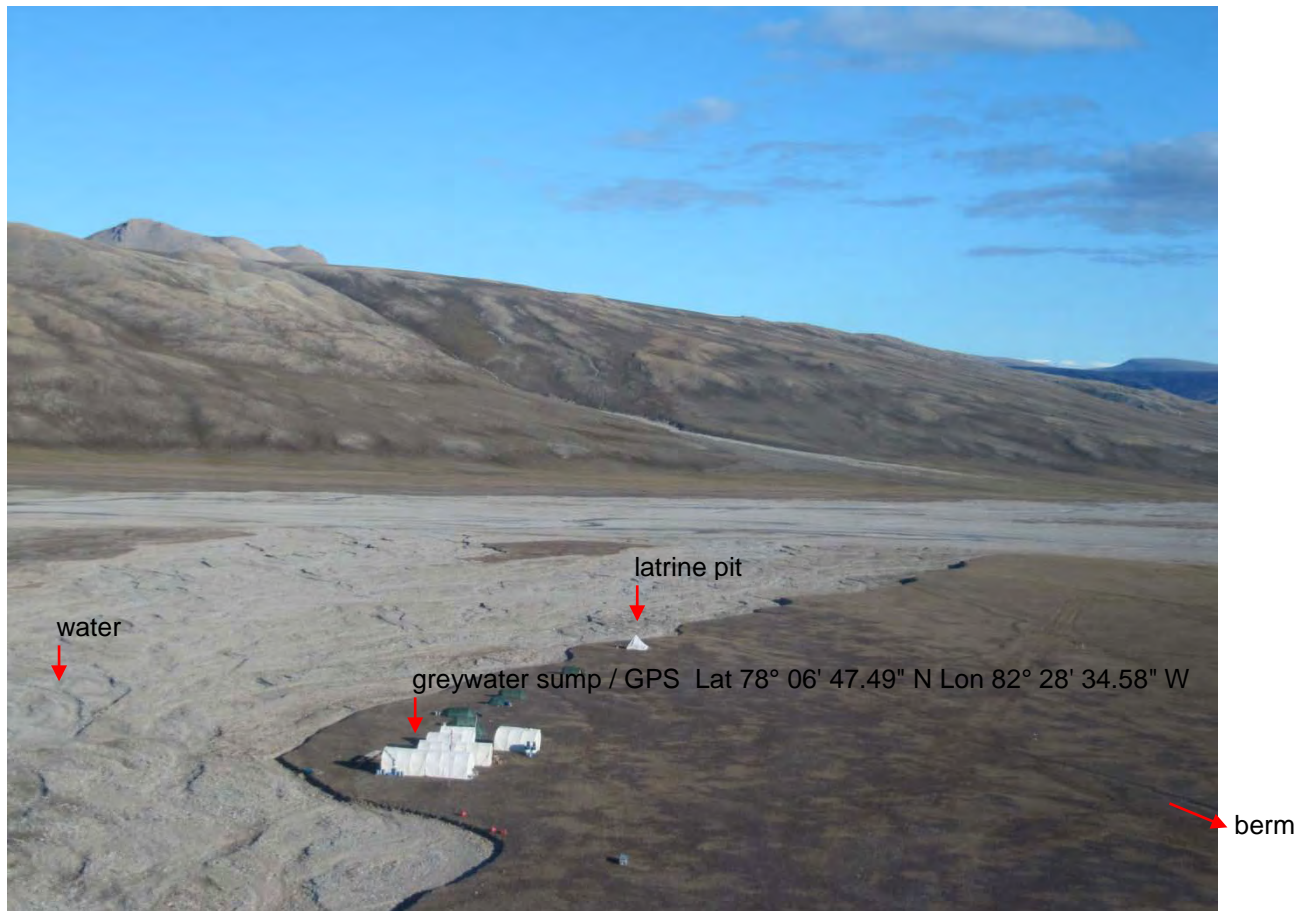
Arrival at camp site of expedition CASE 12 at the western bank of the Mulla River (06/08/2011).



Helicopter next to fuel berm, which was set up ca. 250 m apart from river board.



View on cleaned camp site before last Twin Otter transport flight (28/08/2011).



CASE 12 camp site during field work: helicopter view from NW on western bank of braided Mulla River system (left, nearly dry). Mess and kitchen tents (first and second white tent) can be seen in the foreground and latrine tent set apart (white tent in background). Fuel berm is located outside the right image border.

Summary

Within 23 field days a maximum of $23 \times 200 \text{ litres} = 4600 \text{ litres} = 4,6 \text{ m}^3$ of water were used for camp purposes. GPS coordinate of location where water was used = Lat $78^\circ 06' 47.49''$ N Lon $82^\circ 28' 34.58''$ W (position of kitchen tent entrance = location of greywater sump). The position of the latrine pit was ca. 250 m SE of this point. The fuel berm was located ca. 250 m NW of this point. Water was taken out of one of the river arms ca. 100-300 m east of this point (depending if braided river channels had water or not). All other waste was transported back to PCSP for regular disposal.