



AREVA Resources Canada Inc.

Kiggavik Project, Nunavut

Monthly Wildlife Report

August 1 – September 4, 2014

1 Introduction

Wildlife monitoring was conducted consistently during the 2014 Kiggavik exploration program in accordance with the Kiggavik Project Wildlife Mitigation and Monitoring Plan (WMMP). This monthly report covers the month of August and first week of September and is the final report for the 2014 season.

2 Local Wildlife Monitors

The Wildlife Monitors record wildlife sightings in log books and reports findings to the Safety, Health, Environment, and Quality (SHEQ) Supervisor. Wildlife Monitors are responsible for notifying the Project Geologist and/or SHEQ Supervisor of approaching caribou herds and determining their distance from activities. The monitors also determine when the herds are a sufficient distance for activities to resume in the event that caribou proximities dictate a shutdown of operations. The Wildlife Monitors liaise with the SHEQ Supervisor to determine if monitoring is needed at additional locations besides the HOL locations around camp.

The two Wildlife Monitors, Timothy Evviuk and Floyd Aksawnee from Baker Lake completed monitoring throughout August. This included monitoring around the camp and from the five height-of-land (HOL) stations surrounding camp (See Figure 2-1).

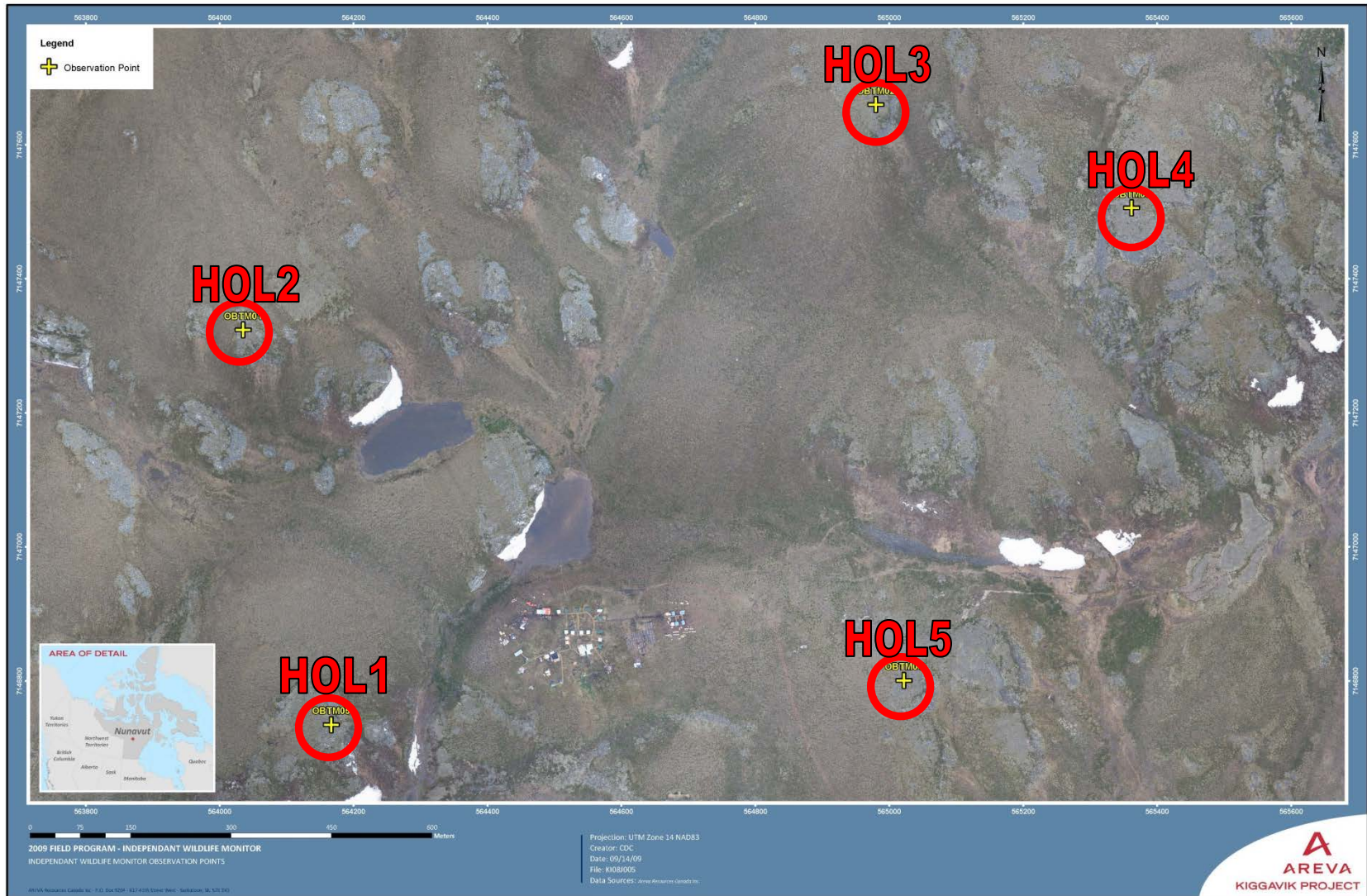


Figure 2-1 Wildlife Monitor Height of Land (HOL) Locations

3 August Wildlife Summary

3.1 Wildlife Sightings and Observation Methods

Apart from the regular observations from Wildlife Monitors, personnel record wildlife sightings as well. Observation methods vary with sightings provided from the personnel in camp, the field, aerial flights, and the Wildlife Monitors. The Government of Northwest Territories (GNWT) also provides collar data that enables proper implementation of the WMMP. Wildlife logs are placed in the camp kitchen, camp office and in each helicopter for ease of recording wildlife sightings. During site orientation, personnel are informed of the wildlife log locations and are encouraged to record all sightings.

Sighting details vary with the observer, but typically include information regarding the species observed, the number present, behaviour, location, and whether a disturbance occurred. Sightings are transcribed into an environmental data spreadsheet as shown in the appended Table. There were a total of 51 separate wildlife sightings of various animals (See Table 3-1).

Table 3-1 August - September Kiggavik Wildlife Summary

Species	Total Number Observed	Wildlife Sightings
Bald Eagle	1	1
Caribou	8	6
Fox	4	4
Geese*	1050	2
Muskox	336	25
Ptarmigan	10	1
Raptor	2	1
Sandhill Crane	2	1
Weasel	2	2
Wolf	12	8
Total	1427	51

*Large flocks of geese were present during the end of the season

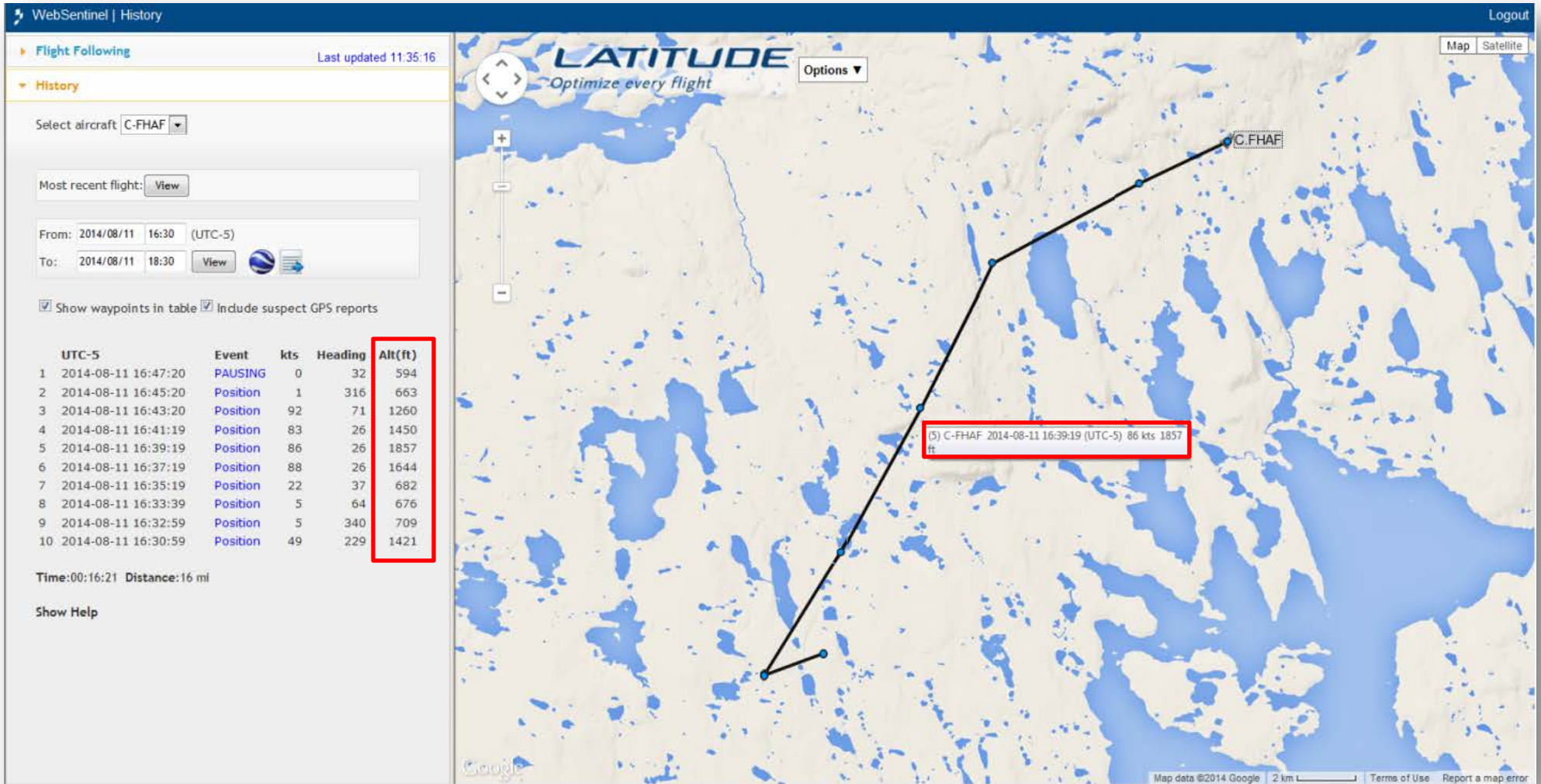
4 Flight Altitudes

The Kiggavik camp uses two helicopters for transport of personnel and to provide drill support. Long range flights are occasionally made between Baker Lake and Kiggavik, while short range flights are regularly made between the Kiggavik camp and drilling rigs. These flights are monitored for altitude restrictions, and pilots are informed if caribou approach the area. The WMMP requires that long range flights be flown a minimum of 610 m (2000 ft) above ground, and short range flights be flown 300 m (1000 ft) above ground with exceptions for low-level ceiling conditions, slinging activity, or risks to flight safety. The pilots have been compliant with altitudes required for both long range and short range flights.

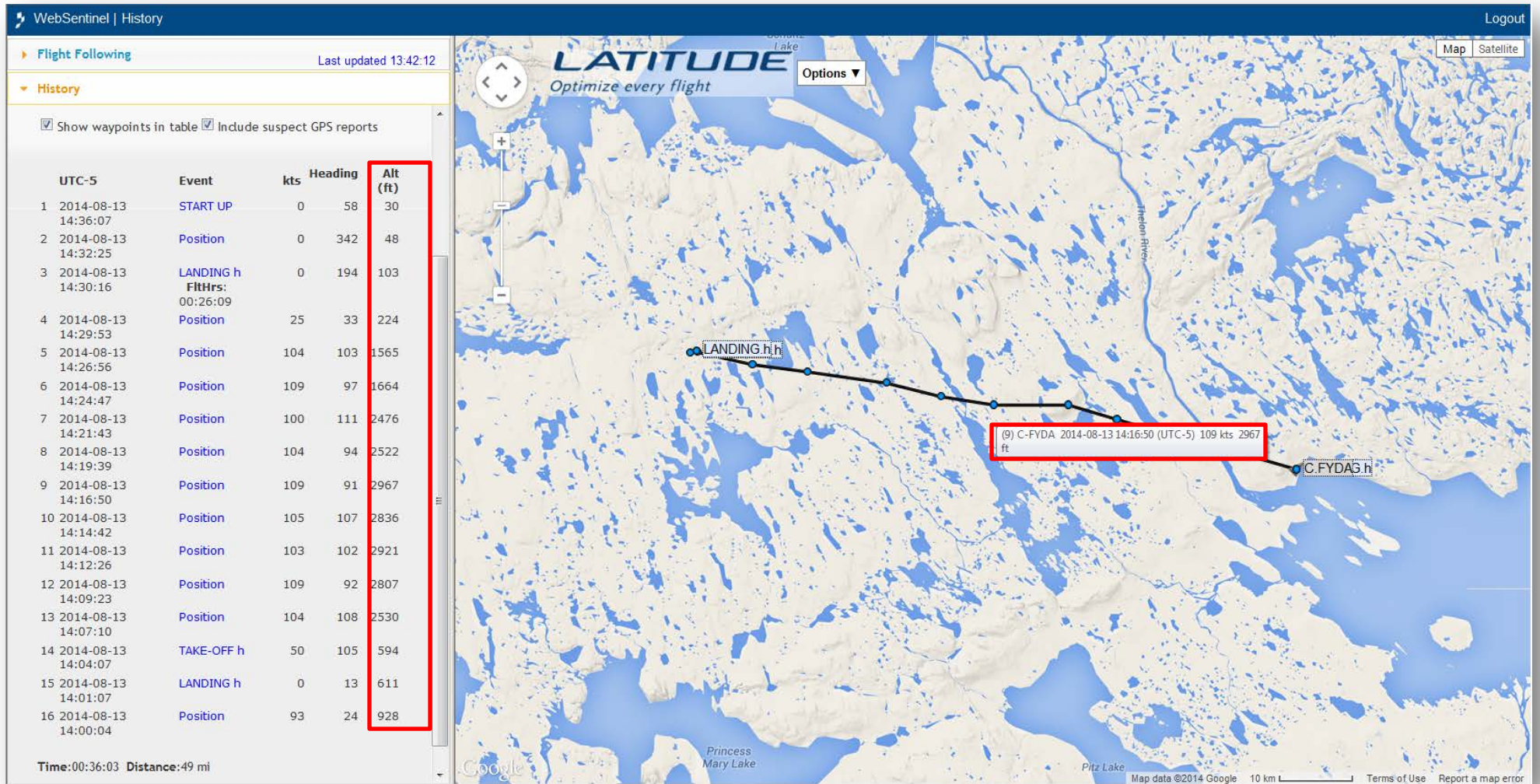
Through the internet based WebSentinel program, helicopter altitudes are tracked and periodically checked by the SHEQ Supervisor. The WebSentinel program allows the SHEQ Supervisor to ensure pilots abide by the proper altitudes. The pilots have been diligent in flying at or above the desired altitudes whenever possible with the exception of slinging requirements or low ceiling/bad weather.

APPENDIX A – Flight Altitude Checks

Short Range Flight



Long Range Flight



August to September Wildlife Sightings

Date	Time	Observation method	Species	Number	Behaviour	Disturbance	Cause of Disturbance	Behaviour Before Disturbance	Behaviour After Disturbance	Actions Taken to Avoid Disturbance	Physical Location	Comments
1-Aug-2014	11:00 AM	Field Observation	Wolf	2	Both white	No	-	-	-	-	Contact Grid	
4-Aug-2014	7:00 AM	Camp Observation	Weasel	1	Playing on boardwalk	No	-	-	-	-	Near cabins	
5-Aug-2014	5:00 PM	Camp Observation	Muskox	10	Feeding, walking (young ones grunting)	No	-	-	-	-	1 km east of camp	
5-Aug-2014	8:00 AM	Field Observation	Muskox	10	Walking and babies	No	-	-	-	-	Pizza Grid (Mushroom Lake)	
5-Aug-2014	3:00 PM	Field Observation	Muskox	3	Walking	No	-	-	-	-	Pizza Grid North	
5-Aug-2014	1:30 PM	Field Observation	Caribou	1	Walking	No	-	-	-	-	Pizza Grid (Mushroom Lake)	
5-Aug-2014	4:46 PM	Aerial	Muskox	20	Walking	No	-	-	-	-	Sleek Lake	
6-Aug-2014	2:55 PM	Field Observation	Muskox	20	Unknown	No	-	-	-	-	HOL 3	
6-Aug-2014	4:53 PM	Field Observation	Muskox	3	Unknown	No	-	-	-	-	5.5 km from HOL 3	
6-Aug-2014	10:00 AM	Field Observation	Muskox	1	Feeding	No	-	-	-	-	Pizza Grid North	
6-Aug-2014	1:00 PM	Field Observation	Caribou	1	Running	No	-	-	-	-	Next to Mushroom Lake	
6-Aug-2014	3:00 PM	Field Observation	Caribou	1	Running	No	-	-	-	-	500 m east of Mushroom Lake	
7-Aug-2014	5:00 PM	Camp Observation	Fox	1	Jogging along	No	-	-	-	-	Behind core shack #2	
7-Aug-2014	5:45 PM	Camp Observation	Weasel	1	Following me	No	-	-	-	-	Large core	
8-Aug-2014	3:23 PM	Aerial	Muskox	8	Unknown	No	-	-	-	-	Sleek Lake	
8-Aug-2014	2:00 PM	Aerial	Muskox	21	Grazing	No	-	-	-	-	Fuel cache	
9-Aug-2014	6:50 PM	Aerial	Muskox	6	Unknown	No	-	-	-	-	NW corner Sleek Lake	
10-Aug-2014	8:45 AM	Camp Observation	Ptarmigan	10	Running	No	-	-	-	-	Near camp office	
10-Aug-2014	9:45 AM	Field Observation	Bald Eagle	1	Flew off cliff	Yes	Landed near drill setup	Sitting on cliff	Took off from cliff	None - did not see eagle	~ 100 m from new drill setup (Igloo West)	
10-Aug-2014	4:53 PM	Field Observation	Muskox	16	Unkown	No	-	-	-	-	~2 km from HOL 4	
11-Aug-2014	10:15 AM	Aerial	Muskox	20	Grazing	No	-	-	-	-	Siamese Lake	
13-Aug-2014	2:00 PM	Field Observation	Caribou	3	Running	No	-	-	-	-	Sleek Lake	
13-Aug-2014	11:00 AM	Field Observation	Fox	1	Hunting	No	-	-	-	-	North of Camp	
13-Aug-2014	9:45 AM	Aerial	Muskox	1	Feeding	No	-	-	-	-	SW of camp	

Date	Time	Observation method	Species	Number	Behaviour	Disturbance	Cause of Disturbance	Behaviour Before Disturbance	Behaviour After Disturbance	Actions Taken to Avoid Disturbance	Physical Location	Comments
13-Aug-2014	5:00 PM	Field Observation	Caribou	1	Running	No	-	-	-	-	85W	
13-Aug-2014	9:45 AM	Aerial	Muskox	1	Feeding	No	-	-	-	-	Unknown	
14-Aug-2014	7:00 PM	Field Observation	Sandhill Crane	2	Flying	No	-	-	-	-	Contact	
14-Aug-2014	4:25 PM	Aerial	Muskox	30	Grazing	No	-	-	-	-	Jane East	
15-Aug-2014	6:54 PM	Aerial	Wolf	3	Running	No	-	-	-	-	Sleek Lake	
15-Aug-2014	7:08 AM	Aerial	Muskox	20	Grazing	No	-	-	-	-	Contact	
15-Aug-2014	7:30 AM	Field Observation	Wolf	2	Running	No	-	-	-	-	Sleek	
15-Aug-2014	4:15 PM	Field Observation	Muskox	1	Running	Yes	Walked too close	Laying down	Running Away	None - did not see on ground	Sleek	
16-Aug-2014	5:00 PM	Camp Observation	Fox	1	Hunting	No	-	-	-	-	Greywater Sump	
16-Aug-2014	5:00 PM	Field Observation	Muskox	13	Feeding	No	-	-	-	-	Contact	
18-Aug-2014	3:38 PM	Aerial	Muskox	20	Grazing	No	-	-	-	-	Contact	
18-Aug-2014	1:30 PM	Field Observation	Muskox	30	Grazing	No	-	-	-	-	40km E of camp	
19-Aug-2014	3:40 PM	Aerial	Geese	50	Flocking	No	-	-	-	-	Sleek Lake	
19-Aug-2014	5:08 PM	Aerial	Muskox	30	Grazing	No	-	-	-	-	Siamese Lake	
19-Aug-2014	7:00 PM	Field Observation	Muskox	15	Grazing	No	-	-	-	-	Jane East	
19-Aug-2014	10:00 AM	Field Observation	Raptor	2	Sitting	No	-	-	-	-	Sleek Lake	
20-Aug-2014	9:05 AM	Aerial	Wolf	1	Unknown	No	-	-	-	-	Drill 2 9.5 miles SW of camp	
20-Aug-2014	9:05 AM	Aerial	Wolf	1	Curious	No	-	-	-	-	9.5 Mi SW of camp	
21-Aug-2014	3:00 PM	Aerial	Muskox	5	Grazing	No	-	-	-	-	Muskox Grid	
21-Aug-2014	9:00 PM	Field Observation	Wolf	1	Running	No	-	-	-	-	S of camp	
23-Aug-2014	10:00 AM	Aerial	Wolf	1	Running	No	-	-	-	-	Contact	
25-Aug-2014	8:57 AM	Aerial	Wolf	1	Unknown	No	-	-	-	-	5 miles east of camp	
29-Aug-2014	12:45 PM	Aerial	Muskox	20	Grazing	No	-	-	-	-	Near Audra Lake	Observed during trip to Baker Lake
31-Aug-2014	7:45 PM	Field Observation	Fox	1	Running	No	-	-	-	-	2 km NE of camp	
31-Aug-2014	All day	Field Observation	Geese	1000	Flying	No	-	-	-	-	Geese located all around camp and en route to Baker Lake	

Date	Time	Observation method	Species	Number	Behaviour	Disturbance	Cause of Disturbance	Behaviour Before Disturbance	Behaviour After Disturbance	Actions Taken to Avoid Disturbance	Physical Location	Comments
2-Sep-2014	2:06 PM	Aerial	Caribou	1	Standing	No	-	-	-	-	1 mile north of camp	Caribou appeared lame
2-Sep-2014	5:00 PM	Aerial	Muskox	12	Grazing	No	-	-	-	-	9 miles W of camp	