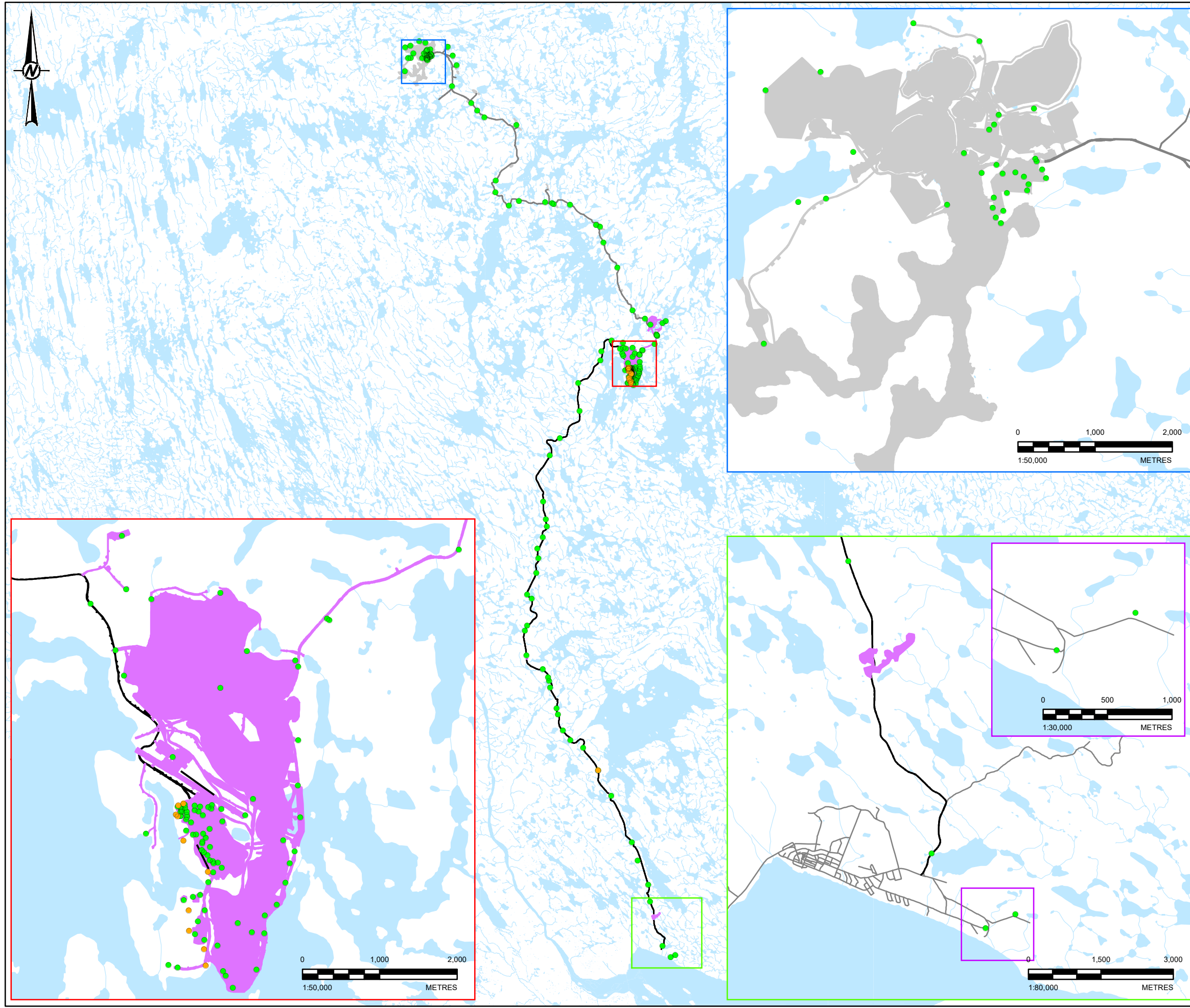


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LEGEND
PROJECT DATA

- SURVEY LOCATIONS - NO NON-NATIVE PLANTS OBSERVED
- SURVEY LOCATIONS - UNDISTURBED TUNDRA
- TRANSECT
- WHOLE TAIL MINE SITE
- HAUL ROAD
- MEADOWBANK MINE SITE
- ALL WEATHER ACCESS ROAD

BASE DATA

- WATERCOURSE
- WATERBODY

REFERENCE(S)

- INFRASTRUCTURE OBTAINED FROM AGNICO EAGLE MINES LIMITED.
- ROAD, WATERCOURSE AND WATERBODY DATA OBTAINED FROM NATURAL RESOURCES CANADA.

COORDINATE SYSTEM: CANADA ALBERS EQUAL AREA CONIC

AGNICO EAGLE

CLIENT

AGNICO EAGLE MINES LIMITED:
MEADOWBANK DIVISION

PROJECT
MEADOWBANK AND WHALE TAIL PIT TEMP 2022

TITLE
2022 NON-NATIVE PLANT SURVEY RESULTS

	CONSULTANT	YYYY-MM-DD	2023-03-27
	DESIGNED	SOD	
	PREPARED	CDB	
	REVIEWED	DC	
	APPROVED	CDLM	

PROJECT NO.	CONTROL	REV.	FIGURE
21502960	4000/4040	0	16-1

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16.4 Management Recommendations

The 2022 survey was the fourth consecutive year of non-native species monitoring for the Meadowbank complex.

Efforts for non-native plant management, including identified non-endemic species, should continue and added diligence should be undertaken with regards to areas of high traffic from equipment. Continued and thorough cleaning of equipment and materials prior to entering the site, per the TEMP Version 7, will prevent seed of non-native species from being introduced. Surveys for the 14 non-native plant species identified by CESCC as well as other species not native to Nunavut should continue to be completed annually. Mechanical control such as mowing or hand pulling, as appropriate for the site setting, is recommended for any identified non-native plant species.

Chemical herbicide treatments are not recommended to be used at this point as the tundra is a very sensitive ecosystem. As a further measure of prevention, the CESCC (2010) has developed posters that show non-native species in Nunavut. We recommend that these be displayed at the Meadowbank Complex to raise staff awareness and be incorporated into staff on-boarding materials, which could be used to supplement non-native plant information and posters used on-site. These materials can also be displayed at the Agnico office/crew house in Baker Lake and potentially in other areas within the community.

A management plan for non-native plant species employing adaptive management may be implemented if non-native plant species are observed within the Meadowbank Complex area. A non-native plant management plan would describe the methods for the eradication, control and/or minimization of the encroachment of non-native plant species into new areas and outline additional measures such as on-boarding and training in the identification of non-native plant species for the area.

17.0 SPECIAL STUDIES

17.1 Snow Study

17.1.1 Overview

Collared caribou from the Lorillard herd have historically interacted with the AWAR and WTHR during their spring and fall migrations. The following sections focus exclusively on characterizing snow conditions and caribou interaction along the WTHR during spring (see Section 3.6 for information on caribou interaction with the AWAR).

The direction of travel for these animals crossing the WTHR has always been from the west to the east in the spring. Snow is removed periodically from the WTHR (and AWAR) to promote safe driving conditions for the transport of Meadowbank Mine staff and supplies, and mined ore between Whale Tail and the Meadowbank Mine sites. Snow is removed or redistributed from the road surface to areas adjacent to the roads. The snow is redistributed in a way to minimize the size of any snow berms formed on the side of the roads (i.e., snow is pushed to the eastern, downwind side of the road). Doing so also reduces the amount of snow management activity required due to snow drifting back onto the WTHR.

Per Whale Tail Expansion Project commitment 9 from the TAG Meeting held in Baker Lake June 11-13, 2019, Agnico Eagle committed to complete a three-year snow monitoring program as part of the TEMP that measures snow conditions adjacent to the WTHR. Snow hardness and sinking depth are important for caribou energy expenditure of locomotion, where the combination of softer and deeper snow may inhibit caribou movements (Fancy and White 1987). The goal of the snow monitoring is to determine whether changes to snow resulting from snow removal along the WTHR result in conditions that potentially inhibit caribou movements. The primary questions to be answered by the snow study monitoring were:

- 1) How do snow conditions within the managed snow area where caribou are crossing the WTHR differ from the snow conditions in adjacent portions of the berm where crossing did not occur?
- 2) How do snow conditions and caribou track characteristics differ between areas within the snow berm and areas beyond the berm where snow conditions have not been altered by snow removal activity?

An annual sample goal of 36 survey locations was originally proposed over three years. Since 2020, a number of challenges have limited the program from achieving this goal including locating fresh caribou tracks. In 2022 a power analysis was conducted using data from 2020-2022 to determine the total number of sampling locations required to detect very small, small and moderate effect sizes for snow hardness. Snow condition monitoring data collected in 2020, 2021, and 2022 are presented below, as well as the results of the power analysis. These data represent preliminary results of snow condition monitoring.

17.1.2 Methods

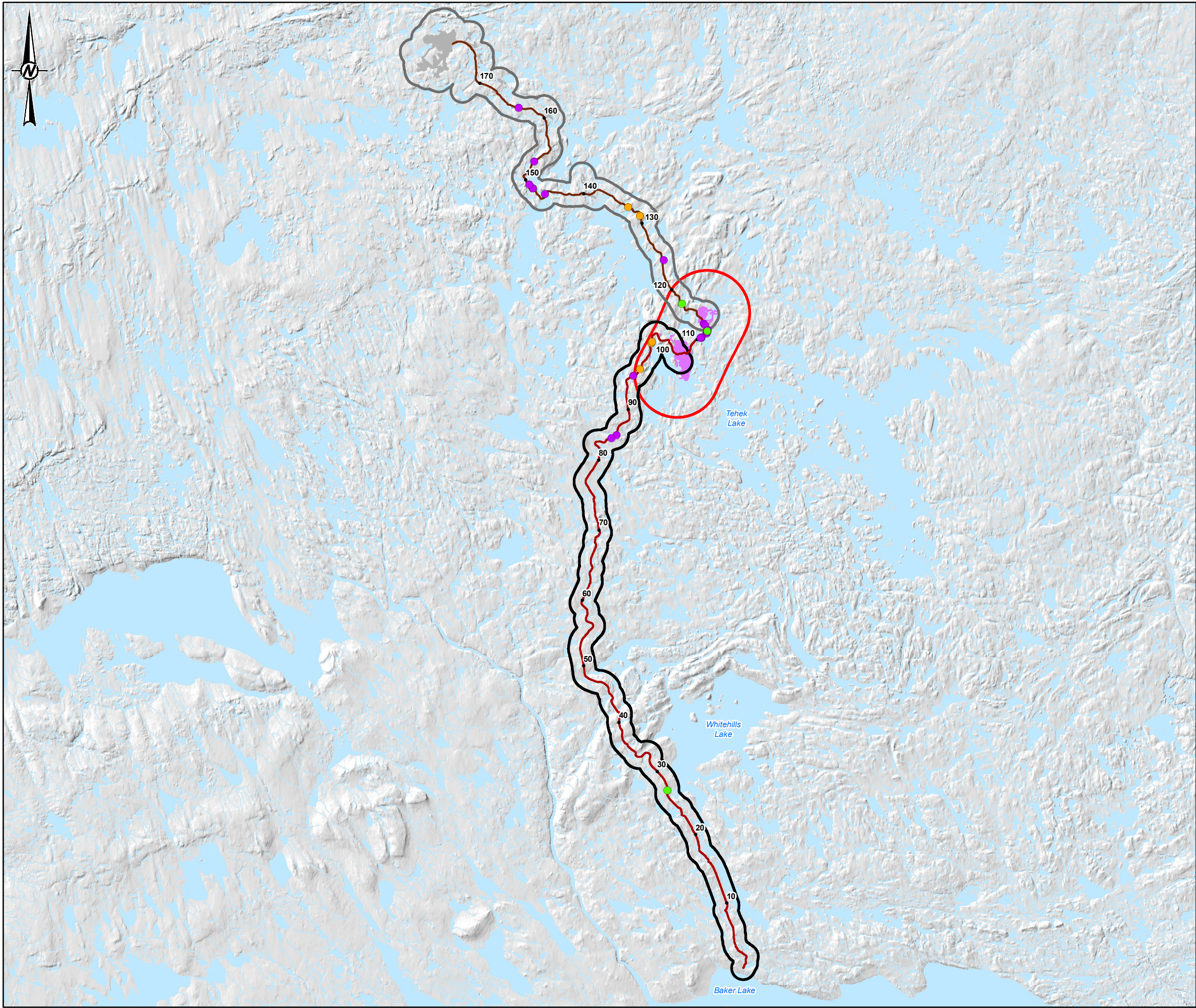
Twenty-eight survey locations have been sampled along the AWAR and WTHR between 2020 and 2022, including five survey locations in May 2020, three locations in April 2021, and twenty locations in April and May of 2022 (Figure 17-1). Survey locations were chosen opportunistically based on the availability of fresh caribou tracks crossing the road, and while the majority of plots sampled were located along the WTHR, sampling locations along the AWAR were included opportunistically as well. Snow management practices are consistent between the WTHR and AWAR, and any patterns identified for potential effects of snow characteristics on caribou crossing are not expected to differ between the two roads. Surveyors established six plots at each survey location and collected data on the snow depth, snow hardness, caribou track depth, as well as the height, width, and slope of the snow-managed berm that occurred adjacent to the WTHR (Golder 2020d). Snow and caribou track depth

were measured using a metre stick while snow hardness was measured using a mechanical dynamometer (i.e., push-pull gauge; Lundmark and Ball 2008). Three plots were established on the upwind side of the WTHR (i.e., the side of the road that the prevailing wind blows from— the west) and three plots were established on the downwind side of the WTHR (i.e., the east side of the road).

The three survey plots on each side of the road included a “use” plot, a “snow-management control” plot and a “non-managed control” plot (Figure 17-2). The use plot occurred within the snow-managed berm in an area where caribou had left tracks while crossing the WTHR. The snow-managed control plot occurred approximately 5.0 m from the use plot, within the snow-managed berm but in a portion of it that did not contain caribou tracks.

Monitoring at caribou use areas and the finer spatial scale of the snow-managed control and use plots was a recommendation by the TAG (KivIA 2019). The non-managed control plot occurred beyond the snow-managed berm and in an area where caribou tracks were present (Figure 17-2).

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LEGEND
SNOW SURVEY LOCATION (SURVEY YEAR)

- 2020
- 2021
- 2022
- KILOMETRE MARKER

- ALL-WEATHER ACCESS ROAD (AWAR)
- WHALE TAIL HAUL ROAD (WTHR)
- AWAR LOCAL STUDY AREA (LSA)
- WTHR LOCAL STUDY AREA (LSA)
- MEADOWBANK LOCAL STUDY AREA (LSA)
- WHALE TAIL MINE SITE
- MEADOWBANK MINE SITE
- WATERCOURSE
- WATERBODY

0 10 20
1:500,000 KILOMETRES

REFERENCE(S)

- INFRASTRUCTURE OBTAINED FROM AGNICO EAGLE MINES LIMITED.
- WATERCOURSE AND WATERBODY DATA OBTAINED FROM NATURAL RESOURCES CANADA.

COORDINATE SYSTEM: NAD 1983 CSRS UTM ZONE 14N

CLIENT

AGNICO EAGLE MINES LIMITED:
MEADOWBANK DIVISION

PROJECT
MEADOWBANK AND WHALE TAIL PIT TEMP 2022

TITLE
SNOW SURVEY LOCATIONS ALONG THE ALL-WEATHER
ACCESS ROAD AND WHALE TAIL HAUL ROAD (2020-2022)

CONSULTANT	YYYY-MM-DD	2023-03-27
	DESIGNED	JF
	PREPARED	CDB
	REVIEWED	DC
	APPROVED	CDLM

PROJECT NO.	CONTROL	REV.	FIGURE
21502960	4000/4040	0	17-1

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28mm

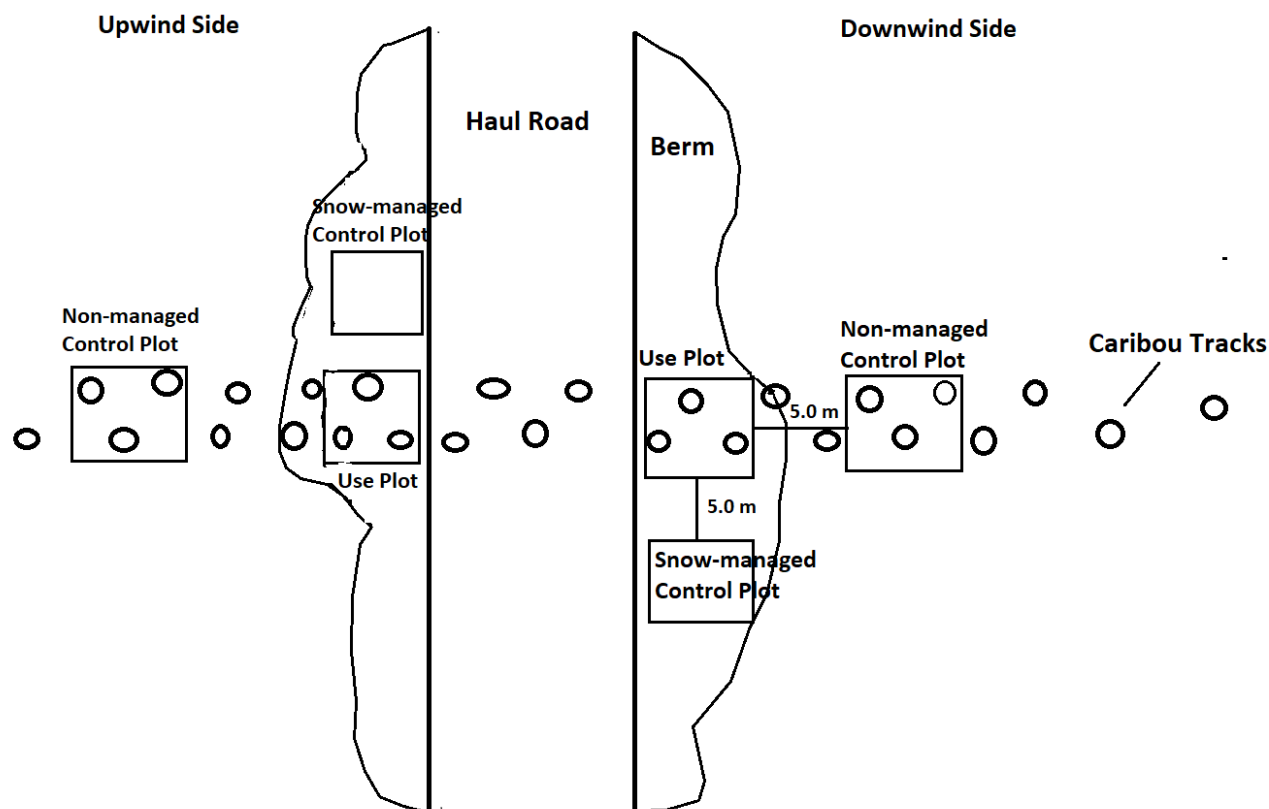


Figure 17-2: Survey Plot Configuration Used During Snow Survey Monitoring Along the Whale Tail Haul Road

Using data from all years, averages and 95% confidence intervals were calculated for each snow metric and plot type. Intervals shown in brackets are 95% confidence intervals unless stated otherwise.

The power analysis was conducted in R (R Core Team 2021) using the package *simr* (Green and MacLeod 2016). Mixed effect linear regression models were created using mean snow hardness as the response variable, plot type as the explanatory variable, and location ID as a random effect. The location ID refers to a unique location associated with a caribou crossing event where a set of six plots were established (i.e., the six plots all share the same location ID). The first model was associated with question one (how do snow conditions within the managed snow area where caribou are crossing differ from the snow conditions in adjacent portions of the berm where crossing did not occur) and as such this model only included use plots and snow-managed control plots (Figure 17-2) for plot type. The second model was associated with question two (how do snow conditions differ between areas within the snow berm and areas beyond the berm) and as such this model only included use plots and non-managed control plots (Figure 17-2) for plot type. Both models were evaluated to determine the number of survey locations required to reach sufficient power (80% power; Green and MacLeod 2016) subject to detect three different statistical effect sizes: 10% (very small), 25% (small), and 50% (moderate) (Cohen 1988; Sawilowsky 2009). For example, using model one we calculated the number of survey locations that would be required to detect a 10%, 25% or 50% difference in mean snow hardness between use

plots and snow-managed control plots. These three statistical effect sizes were chosen to provide a gradient of statistical effect sizes ranging from a very small difference to a moderate size difference (Cohen 1988; Sawilowsky 2009) in snow hardness between plots.

17.1.3 Results

A total of 20 survey locations were completed during the spring migration of 2022 out of an ideal target of 36. Across all years (2020-2022), snow surveys were completed at a total of 28 survey locations with data collected from 172 individual snow plots. The targeted number of plots was not met in 2020 (five plots), 2021 (three locations), or 2022 (20 locations). Challenges in meeting the targeted number of plots were related to locating fresh caribou tracks before they were filled with snow, or no longer reflected the snow conditions when caribou travelled through the area. Of the 28 survey locations, 21 were along the WTHR and 7 were along the AWAR. Workers were patrolling on a daily basis along the AWAR and the WTHR during the migration season (between 01 April and late May) for signs of caribou crossing tracks adequate for snow sampling measurements. Excluding hours spent on identifying crossing track locations, 140 survey hours were required to sample the 20 survey locations for 2022, which included over 120 individual snow plots. A full suite of snow data were collected at use plots and snow-managed control plots, and caribou track data were collected at use plots. Due to issues with datasheets, only snow hardness data was collected at non-managed control plots instead of a full suite of snow data and caribou track data. Some snow measurements were excluded due to inconsistencies with reporting units.

Table 16-1 provides a summary of snow metrics recorded at use plots, snow-managed control plots, and non-managed control plots during 2020, 2021, and 2022 survey periods. Average berm height, berm width, and slope were similar on the upwind (west) and downwind (east) sides of the haul road (Table 16-1).

Considering all plot types sampled, mean snow depth was not significantly different on the upwind side of the haul road (0.35 m [95% CI: 0.27-0.43]) compared to the downwind side of the road (0.24 m [0.18-0.31]) (Table 17-1; Figure 17-3). Average snow depth in use plots on the upwind side of the road (0.35 m [0.25-0.45]) was similar to the average snow depth in the snow-managed control plots (i.e., plots within the berm but not used by caribou) on the upwind side of the road (0.34 m [0.22-0.46]). Downwind use plots (0.23 m [0.16-0.30]) had similar average snow depths compared to downwind snow-managed control plots (0.25 m [0.16-0.34]).

Snow hardness, as measured using the push-pull gauge, was similar between plots on the upwind side (14 Newtons (N) [12-16]) and the downwind side (15 N [12-17]) of the WTHR. On both the upwind and downwind sides of the WTHR, average snow hardness was similar between use plots, snow-managed control plots, and non-managed control plots (Table 17-1; Figure 17-4).

Caribou track depth measurements were only collected in use plots during 2020, 2021, and 2022, and will also be collected in non-managed control plots in future years to facilitate berm and non-berm comparisons. Average track depths (cm) collected at use plots are shown in Table 17-1.

Table 17-1: Summary of Snow Depth and Snow Hardness Data Collected at Survey Plots on the Upwind and Downwind Side of the Whale Tail Haul Road

Snow Metric	Plot Type	Upwind	Downwind
Snow Berm Height (m) (Average [95% CI])	Use Plot	0.25 [0.05-0.45]	0.26 [0.00-0.54]
	Snow-management Control	0.20 [0.02-0.38]	0.32 [0.02-0.62]
	Non-managed Control	NA	NA
Average Snow Berm Height-- All Plots		0.22 [0.09-0.35]	0.29 [0.09-0.49]
Snow Berm Width (m) (Average [95% CI])	Use Plot	1.80 [0.75-2.85]	4.04 [0.51-7.57]
	Snow-management Control	1.58 [0.61-2.55]	4.67 [1.02-8.32]
	Non-managed Control	NA	NA
Average Snow Berm Width – All Plots		1.70 [0.99-2.41]	4.37 [1.85-6.89]
Slope (°) (Average [95% CI])	Use Plot	4.05 [1.54-6.56]	3.83 [1.27-6.39]
	Snow-management Control	3.84 [1.26-6.42]	4.81 [1.67-7.95]
	Non-managed Control	-	-
Average Slope-- All Plots		3.95 [2.17-5.73]	4.33 [2.31-6.35]
Snow Depth (m) (Average [95%CI])	Use Plot	0.35 [0.25-0.45]	0.23 [0.16-0.30]
	Snow-management Control	0.34 [0.22-0.46]	0.25 [0.16-0.34]
	Non-managed Control	-	-
Average Snow Depth-- All Plots		0.35 [0.27-0.43]	0.24 [0.18-0.30]
Snow Hardness (N) (Average [95%CI])	Use Plot	13 [9-16]	14 [9-18]
	Snow-management Control	14 [9-19]	17 [12-22]
	Non-managed Control	16 [12-19]	14 [10-17]
Average Snow Hardness-- All Plots		14 [12-16]	15 [12-17]
Track Depth (cm) (Average [95%CI])	Use Plot	5.4 [4.0-6.8]	5.5 [4.1-6.8]
	Snow-management Control	NA	NA
	Non-managed Control	-	-
		5.4 [4.0-6.8]	5.5 [4.1-6.8]

Note: 95%CI = 95% confidence interval; m = metre; N = Newtons of force; NA = not applicable; "-" = data were not collected for this plot type.

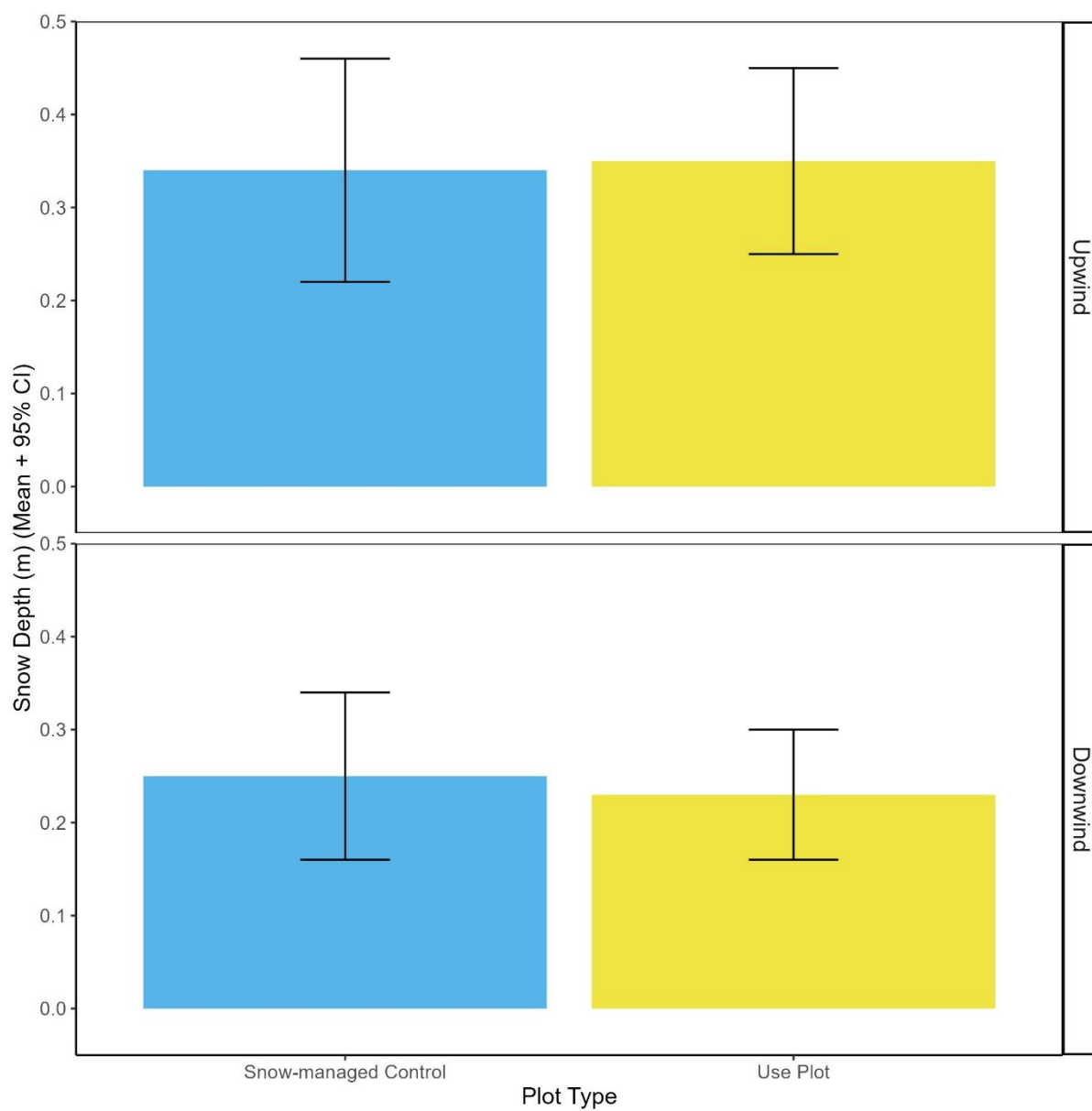


Figure 17-3: Average Snow Depth (m) at Survey Plots on the Upwind and Downwind Side of the Whale Tail Haul Road. Error Bars Represent 95% Confidence Intervals.

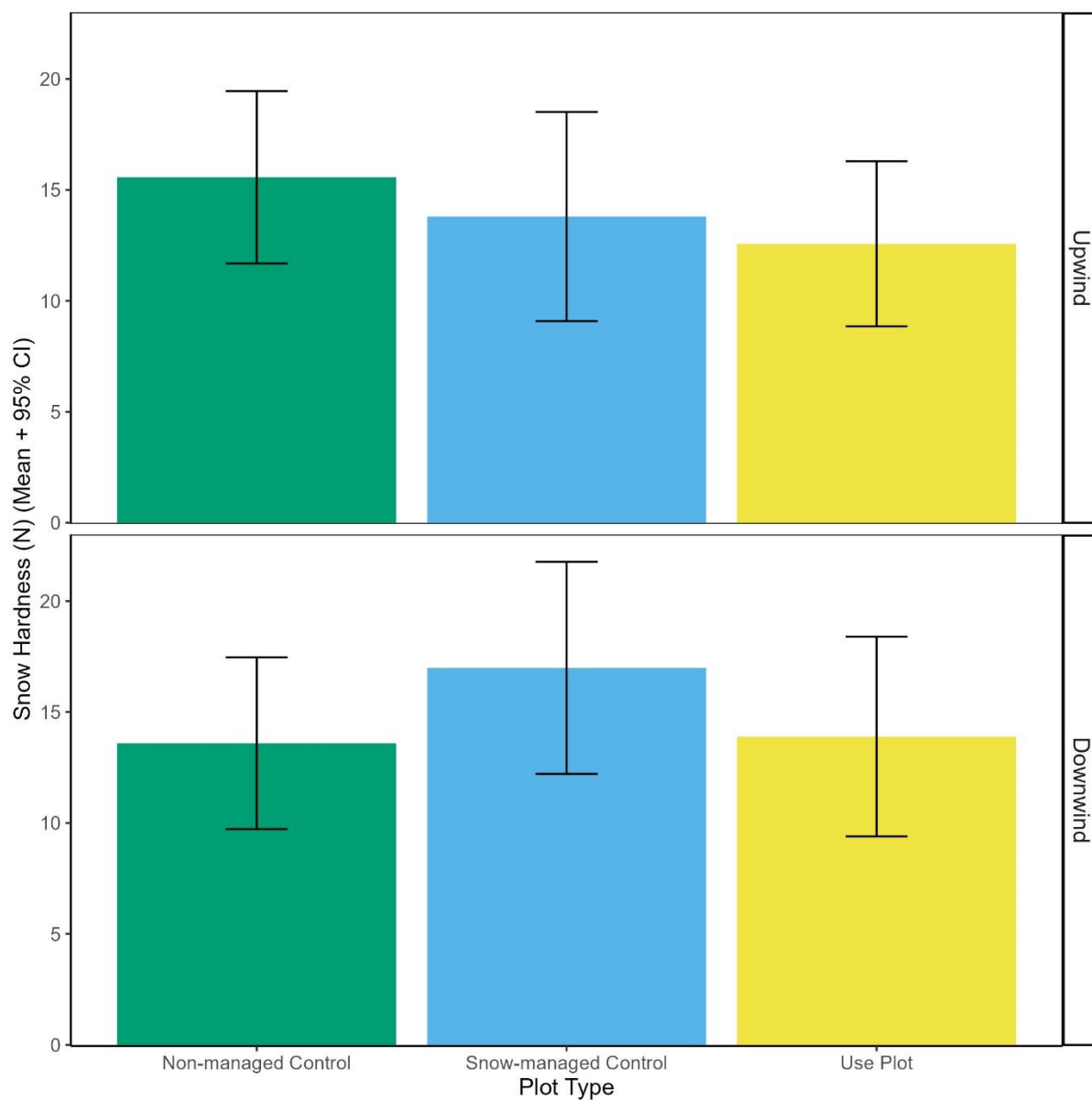


Figure 17-4: Average Snow Hardness (N) at Survey Plots on the Upwind and Downwind Side of the Whale Tail Haul Road. Error Bars Represent 95% Confidence Intervals.

Two mixed effect linear regression models were used to compare (i) snow hardness between use plots and snow-managed control plots, and (ii) snow hardness between use plots and non-managed control plots. Both models were evaluated to determine the number of survey locations required to reach sufficient power (80% power; Green and MacLeod 2016), to detect three different effect sizes: 10%, 25%, and 50%. Results of the power analysis are presented in Table 17-2.

Table 17-2: Number of Survey Locations Needed to Reach Sufficient Power Based on Results of the Snow Hardness Power Analysis

Model ^(a)	Number of Locations per Effect Size ^(b)		
	Effect Size 10%	Effect Size 25%	Effect Size 50%
Use Plots vs Snow-managed Control	400 locations	65 locations	20 locations
Use Plots vs Non-managed Control	320 locations	50 locations	20 locations

- a) Snow models used in the power analysis were mixed effects linear regression models with location ID as a random intercept and snow hardness as the response variable. Each model included only two plot types, one for use plots versus snow-managed control and one for use plots versus non-managed control.
- b) Approximate number of locations to reach 80% power for a given effect size: 10%, 25%, 50%.

Models for use plots versus snow-managed control plots would require approximately 400 survey locations to detect a 10% effect size, 65 survey locations for a 25% effect size, or 20 survey locations for a 50% effect size (Table 17-2). Models for use plots versus non-managed control plots would require approximately 320 survey locations to detect a 10% effect size, 50 survey locations for a 25% effect size, or 20 survey locations for a 50% effect size (Table 17-2). The current sample size of 28 survey locations is already sufficient to detect an effect size of 50% for both models, however, a 50% difference in snow hardness (i.e., effect sizes) was not observed.

17.1.4 Management Recommendations

Based on preliminary snow data collected between 2020 and 2022, snow hardness appears to be similar across all plot types (Figure 17-4). Results of the power analysis indicate that sample sizes are already sufficient to evaluate at least moderate differences in snow hardness between plots (i.e., effect sizes of 50% or greater), but no such differences in snow hardness were observed. To assess differences in snow hardness for smaller effect sizes (e.g., 25%) for both study questions, snow data should be collected at a minimum of 65 locations, with six plots completed at each locations as per the study design (Golder 2020d). The power analysis was completed using snow hardness data rather than other metrics based on snow data availability for each plot type from 2020-2022 survey locations (i.e., snow depth data not collected for non-managed control plots) as well as the documented influence of snow hardness on sinking depth and caribou locomotion (Fancy and White 1987). For future snow data collection, a full suite of snow characteristics data (snow depth, snow hardness, slope) will be collected for each plot type to facilitate comparisons. Additionally, caribou track depth information will be collected in both the use plot and in the non-managed control plot to facilitate comparison between the snow conditions within the berm area and beyond the berm area. Agnico Eagle will communicate data recording improvements to field crews, including protocols for post-field data sheet checks for quality assurance. In 2023 Agnico Eagle will explore the possibility for HTO wildlife monitors to report fresh caribou crossing tracks along the WTHR to Agnico Eagle. HTO wildlife monitors are frequently on the WTHR conducting other surveys, and prompt reporting of locations with fresh caribou crossing tracks would increase opportunities for surveying snow conditions. Data collected between 2020 and 2022 allowed for the evaluation of survey techniques and allowed for the completion of a power analysis to assess the minimum number of survey locations needed to answer monitoring questions.

17.2 Caribou Behaviour

The following is a summary of the Meadowbank Gold Mine Caribou Behaviour Study, 2022, completed by ERM Consultants Canada Ltd. (ERM 2023; Appendix I).

17.2.1 Overview

As part of the Nunavut Impact Review Board (NIRB) Project Certificates #004 and #008, Agnico Eagle is required to study and report on the effects of the Project on caribou. The TEMP (Agnico Eagle 2019) includes behaviour monitoring for caribou.

During 2020, Agnico Eagle retained ERM to update the field protocols used for behaviour monitoring. ERM adapted standard methods for caribou behaviour monitoring developed by the Government of Northwest Territories Department of Environment and Natural Resources (GNWT ENR). Following the first two years of data collection (2020 and 2021) and comments from the TAG, GN, and KivIA, the protocols were updated for the 2022 season to improve the quality of the data collected.

Based on guidance from the TEMP (Agnico Eagle 2019), the overall objective of the caribou behaviour monitoring program is to determine if caribou activity budgets change with distance from the mine, and to document caribou response to stressors.

The detailed objectives of the 2022 study were:

- 1) To conduct a study using the Government of Northwest Territories Department of Environment and Natural Resources (GNWT ENR 2017) behaviour survey methodology at the Project site to estimate how the AWAR, WTHR, and site infrastructure contribute to the effects of the Project on caribou.
- 2) To use information from the surveys to determine what factors predict caribou behaviour, specifically comparing:
 - near vs. far
 - large groups of caribou vs. small groups
 - surveys with and without disturbances
 - road open vs. closed and
 - upstream vs. downstream side of the road (east or west side, as determined by dominant direction of travel in each season)

17.2.2 Methods

17.2.2.1 Field Surveys

Field surveys were conducted primarily during spring and fall migration in all years (2020-2022) by the Agnico Eagle environmental technicians. These technicians were trained and were dedicated to conducting behaviour surveys. Each survey lasted 30 minutes, with scan samples conducted every three minutes. In the case that a disturbance event occurred during the survey the time and type of disturbance was recorded.

Alert behaviour and trotting or running were considered disturbance “response behaviours” and were grouped together in the subsequent data analysis. In this report, alert and running behaviours are referred to collectively as response behaviours, but it is important to note that this is irrespective of whether or not there were disturbances recorded. Caribou may exhibit these behaviours without a disturbance occurring. Walking was also assessed as a response behaviour in some analyses, which are specifically noted in the results.

Following recommendations from the TAG in 2021, an additional set of longer surveys was completed to specifically look at the behavioural response to convoys of vehicles. These surveys were 90 minutes each, consisting of a “before convoy”, “during convoy” and “after convoy” survey. Observers sought out caribou that were likely to remain within view for 90 minutes, such as caribou that were feeding or laying down. Nine surveys were completed in both 2021 and 2022 using this extended methodology. These are explored visually in the results but were not analysed in a separate statistical analysis due to the small sample size.

17.2.2.2 Data Analysis

The objective of the data analysis was to quantify trends in the survey data and determine whether factors such as distance to Project infrastructure (road), group size, or the disturbances could be used to explain caribou behavior. The primary hypothesis was that caribou closer to the road would demonstrate a stronger response to disturbances.

Following the 2020 analysis, there was a suggestion from the TAG to explore whether the proportion of walking caribou changed as a response to disturbance. This was done to see if walking would be better categorized as a response behaviour or a non-response behaviour. For the analysis, walking data was still kept separate from running or alert behaviours (the previous response behaviours), because the proportion of caribou walking was substantially higher at any given time than the proportion exhibiting alert or running behaviour. Grouping the three “response” behaviours together would risk washing out the potentially higher stress behaviours of alert and running.

Generalized linear mixed-effects models were used to assess the differences in the proportion of response behaviours in surveyed animals as a function of various controlling variables, including the occurrence of disturbances. This regression framework provides a means to control for habitat, environmental variables, repeated measurements, and spatial correlation.

Statistical analyses were conducted using the data from each three-minute time interval in each survey. Three dependent variables were tested:

- 1) Proportion of response behaviours in each time interval.
- 2) Proportion of walking and response behaviour in each time interval.
- 3) The number of minutes it took caribou to return to background behavior levels every time there was a disturbance.

The three dependent variables were modelled against a suite of potentially important variables to determine if there was any statistical relationship with response behaviour. The variables included in this analysis were group size, distance to road, temperature, wind speed, season and side of the road (upstream/downstream), the roads status (closed or open), and whether or not a disturbance occurred in the survey. Season and side of the road were included as an interaction term, because direction of travel is seasonally dependent. A random effect was included for survey ID, because the three-minute intervals within each 30-minute survey are interrelated.

Full methods used for the caribou behaviour monitoring program are presented in Appendix I.

17.2.3 Results

The behaviour monitoring data from 2022 were combined with data from 2020 and 2021, and all results outlined in this report use both years, unless otherwise stated. The program and combined data resulted in several key findings:

- The standard monitoring protocols adapted from the GNWT ENR worked well at the Project site.
- 104 surveys were conducted in 2022, compared to 134 surveys were conducted in 2021 and 116 in 2020; 63 surveys occurred during spring migration from March to May, 18 occurred during calving and summer from June to August, and 23 occurred during fall migration from September to December.
- Caribou mostly exhibited the non-response behaviours of standing, laying, feeding, and walking.
- Observations were well distributed across a range of caribou group sizes from 1 to 2 individuals to >1,000.
- Larger groups of caribou tended to be recorded further from the road. Only five groups larger than 100 individuals were recorded within 100 m of the road at the start of the survey, two in 2021 and three in 2022.
- Caribou group size was not linked to response behaviour or walking behaviour in statistical analyses.
- Statistical analysis indicated that there is a trend for caribou at greater distance from the road (>1,000 m) to have a lower proportion of response behaviours (alert and running) than caribou within 100 m of the road.
- Approximately 54% of the surveys included a disturbance event; typically, haul traffic and light trucks from the mine, and occasionally all-terrain vehicles (ATVs) from Baker Lake on the AWAR for travel and harvesting.
- Following a disturbance event, the proportion of response behaviours in a group of caribou was significantly higher, but generally returned to baseline behaviours within one or two sampling intervals (i.e., three or six minutes).

- In response to comments from the KivIA, the behaviour of “walking” was investigated for whether it may be an “alert” behaviour instead of a non-response behaviour; however, disturbances did not statistically affect the proportion of caribou walking.
- Surveyors conducted 18 special 90-minute surveys (nine in both 2022 and 2021) during convoys to assess whether the response to convoys was similar to that of other vehicles. Caribou responded similarly to convoys but possibly for longer than for other vehicles. More convoy surveys are needed to analyze the data statistically.
- During periods when large groups of caribou are present, the AWAR and WTHR are closed following a decision tree in the Meadowbank Mine TEMP, reducing the potential to record interactions between vehicles and caribou. Road closure status did not affect behaviour in the statistical analysis, possibly due to it having less explanatory power than the other variables included.
- Groups of caribou were observed on both the east and west sides of the road in all seasons but were more commonly observed on the west side during spring migration (a.k.a. upstream of the dominant direction of travel). Statistical analysis found that side of road and season did not affect response behaviour (alert/running), but that caribou were significantly more likely to be walking on the upstream side of the road. The dominant behaviour on the downstream side was feeding or laying down.

Full results of the caribou behaviour monitoring program are presented in Appendix I.

17.2.4 Management Recommendations

The updates applied to the survey protocol in 2021 and 2022 used feedback from the previous years of data and analysis and were helpful in improving the overall quality and accuracy of the data. Even with the changes to the protocol, the trends in the results were highly consistent between the three years of data. This increases the confidence that trends are repeatable year to year. Overall, the results of the statistical analysis provided support for the key hypothesis that caribou tend to respond to disturbances, particularly when they are close to the road. However, the analysis also found that disturbances did not have a detectable effect on caribou behaviour after three to six minutes. Additional data collection during convoys would bolster the sample size and improve the likelihood of detecting statistically significant effects.

17.3 Road and Viewshed Survey Comparison

17.3.1 Overview

Following submission of the 2021 Wildlife Monitoring Summary Report, KivIA requested comparison of the distance and direction of caribou observations from road and viewshed surveys (comment 4.7, Agnico Eagle 2022c). A comparison is presented in this section, focusing on the maximum distance caribou were detected from the road and associated direction (i.e., side of road), and group size from road and viewshed surveys. It is assumed that viewshed surveys allow observers to detect caribou at further distances than road surveys.

17.3.2 Methods

The number of surveys by month, where road and viewshed surveys completed on the Whale Tail Haul Road are shown in Table 17-3. The intention of the comparison was to determine if viewshed surveys were acting as an early warning system for caribou approaching site, or if road surveys were adequately capturing caribou far away from roads and implementing adequate mitigation measures. The mean and 95th percentile of the distance

caribou were observed from the road and the group size of the observation were calculated for each survey type by season (Table 17-4). Figures were produced to allow qualitative comparison of caribou observations from road and viewshed surveys.

Table 17-3: Number of Road and Viewshed Surveys Completed by Month.

Year	Month	Number of Road Surveys	Number of Road Surveys with Caribou Detections	Percent of Road Surveys with Caribou Detections (%)	Number of Viewshed Surveys	Number of Viewshed Surveys with Caribou Detections	Percent of Viewshed Surveys with Caribou Detections (%)
2021	January	3	1	33.33	0	0	N/A
	February	3	0	0	1	0	0
	March	7	0	0	0	0	N/A
	April	21	17	80.95	0	0	N/A
	May	17	17	100.00	0	0	N/A
	June	6	6	100.00	0	0	N/A
	July	6	2	33.33	1	1	100.00
	August	6	6	100.00	5	5	100.00
	September	13	11	84.62	4	4	100.00
	October	13	6	46.15	6	2	33.33
	November	21	5	23.81	4	2	50.00
	December	16	4	25.00	6	0	0
2022	January	7	4	57.14	4	0	0
	February	7	4	57.14	4	3	75.00
	March	7	3	42.86	5	1	20.00
	April	30	24	80.00	7	4	57.14
	May	25	22	88.00	7	3	42.86
	June	12	5	41.67	3	1	33.33
	July	9	2	22.22	5	1	20.00
	August	31	28	90.32	5	5	100.00
	September	11	7	63.64	6	4	66.67
	October	17	5	29.41	5	1	20.00
	November	19	10	52.63	3	0	0
	December	7	2	28.57	4	0	0
Total		314	191	60.83	85	37	43.53

17.3.3 Results

There were 71 days where both survey types were completed on the same day across all seasons in 2021 and 2022, and on 19 of these 71 days, caribou were detected during road and viewshed surveys. The percentage of road surveys with caribou detections was higher than the percentage of viewshed surveys with caribou detections in each season, except summer 2021 (Table 17-4). The 95th percentile of distance of caribou groups from the road was higher from viewshed surveys than road surveys, except in fall 2021 (Table 17-4). There was large variation in the distance that caribou were observed from the road, and the group size observed from both survey types, indicated by large standard deviation (Table 17-4). If viewshed surveys were detecting caribou approaching the road, more observations would be expected on the east side of the road in the fall, and on the west side of the road in the spring. This was true in fall 2021 and spring 2022, however more observations on the west side of the road were observed in fall 2022.

There were relatively few observations from both survey types in winter (Table 17-4), none of which exceeded the GST (Figure 17-5). The percentage of viewshed surveys that detected caribou was higher in the summer than in other seasons, but no observations exceeded the GST (Table 17-4; Figure 17-5). Smaller average caribou group sizes from maximum distance observations were observed from viewshed surveys in the fall, and larger group sizes were observed in the spring (Table 17-4). Some of the observations far from the road (i.e., greater than 1.5 km) were larger caribou group sizes (Figure 17-5). In spring 2022, three viewshed observations exceeded the GST (Figure 17-5). All other GST exceedances were from road surveys.

It was expected that viewshed surveys would detect caribou farther from the road on average, as these surveys are intended to identify caribou approaching the road as an 'early warning system'. This trend was observed in all seasons where both surveys were performed consistently, except fall 2021, however the sample size for comparison was relatively low. Results indicate that road surveys may be capable of detecting caribou at long distances (up to 4 km) from the road. Increased sample size of caribou observations from viewshed surveys would allow a more rigorous comparison of road and viewshed surveys.

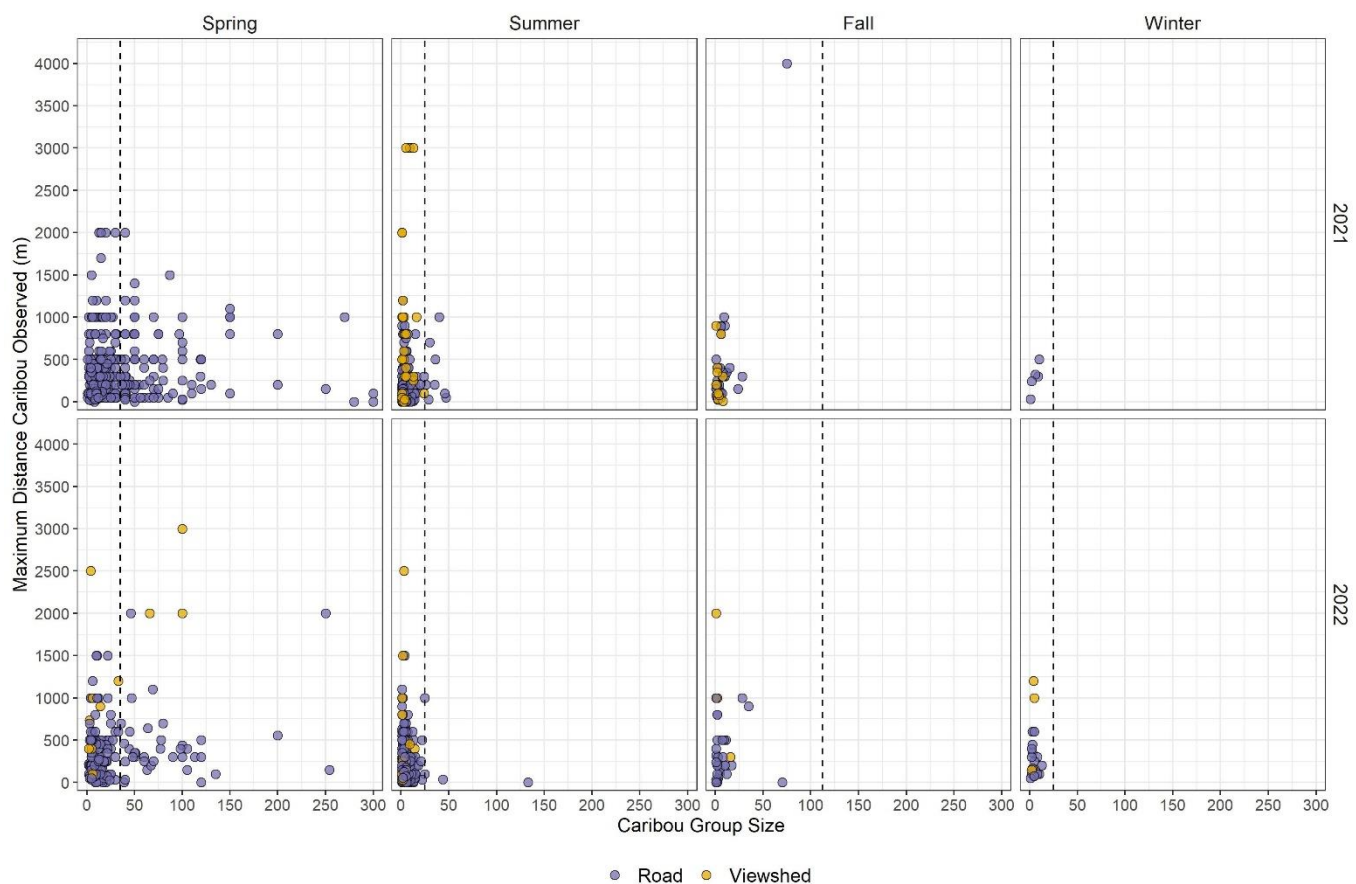


Figure 17-5: Group Size and Distance of all Caribou Observation from the Road by Survey Type and Season. Dashed Line Indicates Group Size Threshold for each Season.

Table 17-4: Summary Statistics for Caribou Observations from Road and Viewshed Surveys along the Whale Tail Haul Road.

Year	Season	Survey Type	Number of Surveys	Number of Surveys with Caribou Observations	Number of Caribou Observations	Percentage of Surveys Caribou Observed (%)	Number of Observations East Side of Road ^(a)	Number of Observations West Side of Road ^(a)	Average Distance of Caribou Observations from Road (Mean \pm Standard Deviation)	95th Percentile of Distance of Caribou Observations from Road	Average Caribou Group Size (Mean \pm Standard Deviation)	95th Percentile of Caribou Group Size
2021	Spring	Road	37	33	297	89.19	38	242	399.18 \pm 390.21	1020	35.52 \pm 47.32	120
		Viewshed	0	N/A ^(b)	N/A ^(b)	N/A ^(b)	N/A ^(b)	N/A ^(b)	N/A ^(b)	N/A ^(b)	N/A ^(b)	N/A ^(b)
	Summer	Road	26	20	171	76.92	82	75	218.05 \pm 310.99	800	6.12 \pm 8.03	22
		Viewshed	9	9	29	100.00	25	4	820.00 \pm 922.87	3000	5.14 \pm 5.57	15
	Fall	Road	48	18	38	37.50	15	22	388.16 \pm 660.20	915	8.00 \pm 12.61	25
		Viewshed	14	4	10	28.57	6	4	316.50 \pm 312.23	855	3.80 \pm 2.66	8
	Winter	Road	21	4	5	19.05	3	2	278.80 \pm 169.07	464	5.60 \pm 4.04	10
		Viewshed	4	0	0	N/A ^(b)	N/A ^(b)	N/A ^(b)	N/A ^(b)	N/A ^(b)	N/A ^(b)	N/A ^(b)
2022	Spring	Road	53	44	149	83.02	36	107	378.97 \pm 366.79	1000	30.34 \pm 41.89	110
		Viewshed	14	7	12	50.00	3	9	1194.42 \pm 965.67	2725	28.75 \pm 38.00	100
	Summer	Road	61	43	337	70.49	126	157	194.05 \pm 214.53	600	4.41 \pm 8.38	13
		Viewshed	16	9	25	56.25	10	15	422.60 \pm 546.01	1400	2.80 \pm 3.03	8
	Fall	Road	44	18	31	40.91	22	8	325.29 \pm 299.51	950	8.35 \pm 13.92	32
		Viewshed	12	3	6	25.00	1	5	803.33 \pm 702.61	1750	4.83 \pm 5.91	14
	Winter	Road	24	11	18	45.83	14	4	245.33 \pm 174.87	600	4.89 \pm 3.14	10
		Viewshed	16	4	4	25.00	1	3	625.00 \pm 554.53	1170	17.25 \pm 1.71	6

a) Does not include observations where caribou groups were observed on both sides of road.

b) N/A = not applicable. No caribou detections in a given season, therefore summary statistics cannot be calculated.

17.3.4 Management Recommendations

Following discussion with the TAG in November 2022, more viewshed surveys should be performed, especially those completed on the same day as road surveys to allow a more rigorous comparison of the two survey methods. Viewshed observations exceeding GST values only occurred in spring 2022. Continuation of viewshed surveys in summer and winter (i.e., outside of sensitive periods) could be discussed at future TAG meetings. A spotting scope should be used rather than binoculars during viewshed surveys to increase detection distance.

18.0 SUMMARY

The 2022 Annual Report describes the data collected to date from the various monitoring programs associated with the TEMP Version 7 (Agnico Eagle 2019). The 2022 Annual Report describes natural and Project-related effects on wildlife populations and plant communities occurring near the Project.

In 2022, monitoring efforts focused on areas immediately around the Meadowbank Mine and Whale Tail Mine sites, along the AWAR and the WTHR. Surveying and monitoring efforts focused on evaluating current habitat losses, monitoring nesting success of raptors, and monitoring and managing wildlife presence, particularly caribou, near the Project facilities and infrastructure. A summary of potential Project effects, threshold levels, and the 2022 monitoring results is provided in Table 18-1.

18.1 Accuracy of Impact Predictions

Table 18-1: Potential Project Effects, Thresholds, and Results of Monitoring in 2022

Potential Effect	Thresholds	Monitoring Methods	Frequency	Completed in 2022	Threshold Exceeded (2022)
Vegetation (Wildlife Habitat)					
Habitat Loss (Compared to Permitted Areas)	Meadowbank = 1,532 ha AWAR = 455 ha Whale Tail = 1,505 ha Threshold is >5% habitat loss of permitted area	Ground Surveys; Mapping and GIS analyses – ELC habitat mapping	Every three years	NO	N/A
Habitat Reclamation following Mine Closure	N/A	Ground Surveys; Mapping and GIS analyses – ELC habitat mapping	Every three years to 11 years post-closure	NO	N/A
Ungulates					
Habitat Loss and Degradation (Compared to Permitted Areas)	Meadowbank: Growing = 531 ha Winter = 407 ha Whale Tail: Growing = 76 ha Winter = 602 ha	Ground Surveys; Mapping and GIS analyses – ELC habitat mapping	Every three years	NO	N/A
Sensory Disturbance	No threshold but Decisions Trees followed when caribou are seen near mine facilities	AWAR, Vault Haul Road, and WTHR surveys; Satellite-collaring data; Viewshed surveys; Daily and weekly pit and Mine-site ground surveys; Incidental wildlife reporting	Daily / weekly	YES	N/A
Project-related Mortality - Vehicle Collisions	Two individuals (cumulative across Project)	AWAR and WTHR surveys; daily and weekly pit and Mine-site ground surveys; collision reporting system	Mine site – daily AWAR and WTHR – up to every two days at peak migration	YES	NO
Hunting by Baker Lake Residents	20% Change in Harvest Patterns in RSA from Historic	Hunter Harvest Study	Yearly	YES	NO

Table 18-1: Potential Project Effects, Thresholds, and Results of Monitoring in 2022

Potential Effect	Thresholds	Monitoring Methods	Frequency	Completed in 2022	Threshold Exceeded (2022)
Other Project-related Mortality	Two individuals (cumulative across Project).	Daily and weekly pit and Mine-site ground surveys; collision reporting system	Daily	YES	NO
Predatory Mammals					
Disturbance to denning predators	One den failure.	Den site surveys	As required	NO	N/A
Project-related Mortality	Two individuals (cumulative across Project).	AWAR and WTHR surveys; daily and weekly pit and Mine-site ground surveys; collision reporting system	Mine site – daily AWAR and WTHR – up to every two days at peak migration	YES	NO. one wolverine killed on AWAR in 2022.
Raptors					
Disturbance of Nesting Raptors	One nest failure.	Daily and weekly pit and Mine-site ground surveys; Incidental wildlife reporting; Dedicated raptor nest surveys; AWAR, Vault Haul Road, and WTHR surveys	Nests within 200 m - daily Nests from 200 to 1000 m - weekly	YES	NO
Project-related Mortality	One individual (cumulative across Project).	AWAR, Vault Haul Road, and WTHR surveys; Daily and weekly pit and Mine-site ground surveys; Collision reporting system	Mine site – daily AWAR and haul roads – up to every two days at peak migration	YES	NO
Waterbirds					
Disturbance of Nesting Waterfowl	One nest failure.	Daily and weekly pit and Mine-site ground surveys; Waterbird nest surveys	Yearly - for active nests within 200 m	YES	NO
Project-related Mortality	One individual (cumulative across Project),	AWAR, Vault Haul Road, and WTHR surveys; Collision reporting system	Mine site – daily AWAR and WTHR – up to every two days at peak migration	YES	NO
Other Breeding Birds					
Changes in Breeding Bird Populations	20% Change from Natural,	PRISM Plots and Breeding Bird Surveys	PRISM – 48 PRISM sites over ten years (2021 to 2031) Breeding Bird Surveys – at minimum every three years	YES. PRISM surveys completed; Breeding Birds Surveys not completed.	N/A. Population trend not assessed in 2022.

AWAR = All Weather Access Road, ELC = Ecological Land Classification, GIS = geographic information systems, ha = hectares, N/A = not applicable, RSA = Regional Study Area, WTHR = Whale Tail Haul Road.

19.0 CLOSURE

We trust the above meets your present requirements. If you have any questions or require additional information, please do not hesitate to contact the undersigned.

WSP Canada Inc.

***Original
signed
by:***

Scott Wilson, R.P.Bio
Wildlife Biologist

***Original
signed
by:***

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Principal, Project Director & Senior Wildlife Biologist

***Original
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SW/CDML/sw/jr

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APPENDIX A

Wildlife Database

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-01-02 9:31	Yes	Caribou	16	Feeding	N/A	1000	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-01-02 9:31	Yes	Muskox	11	Feeding	N/A	1500	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-01-02 9:31	Yes	Caribou	164	Feeding	N/A	750	73	West	No		-96.32423	64.86213			No	Exceeded	Road closed
Road	2022-01-02 9:31	Yes	Caribou	4	Feeding	N/A	250	54	West	No		-96.35835	64.71319			No	Not Exceeded	
Road	2022-01-02 9:31	Yes	Caribou	3	Walking	S	300	51	West	No		-96.37907	64.69323			No	Not Exceeded	
Incidental	2022-01-02 14:15	Yes	Caribou	26	Feeding	N/A	300	32	West	No		-96.20446	64.56469			No	Exceeded	Road closed
Incidental	2022-01-02 15:01	Yes	Caribou	35	Lying Down	N/A	500	54	West	No		-96.35835	64.71319			No	Exceeded	Road closed
Road	2022-01-05 10:08	Yes	Caribou	25	Feeding	N/A	500	77	West	No	Gps not working	-96.33908	64.89511			No	Not Exceeded	
Road	2022-01-05 10:08	Yes	Muskox	1	Walking	N	750	57	West	No	Gps not working	-96.36013	64.73137			No	Not Exceeded	
Road	2022-01-06 11:54	No					NA					NA	NA					
Incidental	2022-01-06 18:52	Yes	Caribou	9	Not recorded	N/A	NA	50	West	No		-96.3731	64.67942			No	Not Exceeded	
Road	2022-01-06 23:54	No					NA					NA	NA					
Road	2022-01-07 10:57	Yes	Caribou	33	Lying Down	N/A	900	47	West	No	Km47 gps not working	-96.34656	64.65799			No	Exceeded	Open with speed restriction
Road	2022-01-07 10:57	Yes	Caribou	29	Lying Down	N/A	2000	51	West	N/A		-96.37907	64.69323			No	Exceeded	Open with speed restriction More than 1.5km
Road	2022-01-07 10:57	Yes	Caribou	9	Feeding	N/A	850	72	West	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-01-08 10:25	Yes	Muskox	15	Feeding	N/A	400	93	West		Gps not working	-96.22197	65.00077			No	Exceeded	Communicate to coordinator. Open with speed restriction
Road	2022-01-08 10:25	Yes	Caribou	31	Feeding	N/A	2000	53	West	No		-96.37309	64.70606			No	Exceeded	Open with speed restriction More than 1.5km
Road	2022-01-08 10:25	Yes	Caribou	48	Walking	S	2000	49	West	No		-96.37072	64.66688			No	Exceeded	Open with speed restriction More than 1.5km
Road	2022-01-09 9:51	Yes	Caribou	10	Feeding	N/A	1000	69	West	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-01-11 10:50	Yes	Muskox	24	Feeding	N/A	30	91	West	No		-96.22486	64.98469			No	Exceeded	Speed restriction of 30km/h between KM 90 -92
Road	2022-01-11 10:50	Yes	Caribou	17	Feeding	N/A	900	70	West	No		-96.31652	64.83649			Yes - Same location, about the same size of herd since few days	Not Exceeded	
Incidental	2022-01-12 9:55	Yes	Caribou	16	Walking	E	100	104	East	No		-96.09721	65.04458			No	Not Exceeded	
Road	2022-01-14 10:06	Yes	Caribou	4	Foraging	N/A	170	57	West	N/A		-96.36013	64.73137			No	Not Exceeded	
Road	2022-01-14 10:06	Yes	Caribou	17	Foraging	N/A	150	69	West	N/A		-96.31427	64.82772			No	Not Exceeded	
Road	2022-01-14 10:06	Yes	Muskox	15	Resting	N/A	710	92	West	N/A		-96.22191	64.99435			No	Exceeded	Speed restriction of 30km/h between KM 91 -93
Road	2022-01-19 11:10	Yes	Caribou	2	Feeding	N/A	250	68	West	No		-96.32681	64.82032			No	Not Exceeded	
Road	2022-01-19 11:10	Yes	Caribou	11	Feeding	N/A	50	56	East	No		-96.35139	64.72588			No	Not Exceeded	
Road	2022-01-19 11:10	Yes	Caribou	17	Feeding	N/A	650	46	West	No		-96.32957	64.65622			No	Not Exceeded	
Incidental	2022-01-19 15:10	Yes	Caribou	64	Feeding	N	350	50	West	No		-96.3731	64.67942			No	Exceeded	Open with speed restriction
Road	2022-01-27 9:07	Yes	Caribou	15	Feeding	N/A	0	57	Both	Yes	Crossing west to east	-96.36013	64.73137			No	Not Exceeded	
Road	2022-01-27 9:07	Yes	Caribou	10	Feeding	N/A	300	53	East	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-01-27 9:07	Yes	Caribou	4	Feeding	N/A	75	49	West	No		-96.37072	64.6688			No	Not Exceeded	
Road	2022-01-27 9:07	Yes	Caribou	5	Feeding	N/A	75	46	West	No		-96.32957	64.65622			No	Not Exceeded	
Incidental	2022-01-29 11:55	Yes	Caribou	10	Foraging	Not Recorded	25	55	East	No		-96.34597	64.71855			No	Not Exceeded	
Road	2022-01-30 11:34	Yes	Caribou	17	Lying Down	N/A	50	57	Both	No		-96.36013	64.73137			No	Not Exceeded	
Road	2022-01-30 11:34	Yes	Caribou	27	Lying Down	N/A	75	56	Both	No		-96.35139	64.72588			No	Exceeded	Speed restriction was put in place
Road	2022-01-30 11:34	Yes	Caribou	14	Feeding	N/A	200	54	Both	No		-96.35835	64.71319			No	Not Exceeded	
Road	2022-01-30 11:34	Yes	Caribou	5	Feeding	N/A	100	52	West	No		-96.37745	64.70086			No	Not Exceeded	
Incidental	2022-02-02 11:27	Yes	Caribou	10	Foraging	N/A	20	53	East	No		-96.37309	64.70606	No		No	Not Exceeded	
Road	2022-02-03 8:49	Yes	Muskox	10	Foraging	E	0	95	Both	Yes	Speed restriction was implemented from km 94 to 96, to 30 km/h.	-96.19522	65.01286			No	Not Exceeded	
Road	2022-02-03 8:49	Yes	Caribou	3	Foraging	N/A	300	72	East	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-02-03 8:49	Yes	Caribou	80	Foraging	E	50	56	Both	Yes	Speed restriction to 30km/h from Km 53 to 57	-96.35139	64.72588			No	Exceeded	Open with speed restriction
Road	2022-02-03 8:49	Yes	Caribou	7	Feeding	N/A	400	54	West	No	Speed restriction to 30 km/h from Km 53 to 57.	-96.35835	64.71319			No	Not Exceeded	
Incidental	2022-02-03 12:22	Yes	Arctic hare	1	Dead	N/A	0	16	North	N/A	Visibility was bad at some places because of blowing snow.	-96.06242	64.44628		Project related	No	Not Exceeded	
Incidental	2022-02-07 12:00	Yes	Caribou	60	Not recorded		NA	53				-96.37309	64.70606	No		No	Exceeded	speed restriction between KM 49-55
Road	2022-02-11 14:38	Yes	Caribou	14	Lying Down	N/A	81	48	East	N/A		-96.36878	64.66417			No	Not Exceeded	
Road	2022-02-11 14:38	Yes	Caribou	23	Walking	W	0	56	Both	Yes	7 of the 22 caribou cross to the west side. The otherones were walking east.	-96.35139	64.72588			No	Not Exceeded	
Road	2022-02-11 14:38	Yes	Caribou	5	Foraging	N/A	84	71	East	N/A		-96.3197	64.84471			No	Not Exceeded	
Incidental	2022-02-11 16:00	Yes	Caribou	1	Dead	W	20	57	West	Yes	HTO wildlife monitor (Felix Tutanuaq) was observing a group of caribou crossing the road at km 57 along the AWAR. One Caribou was limping and appeared injured. After crossing the road, the injured Caribou layed down on the ground approximately 20 metres from the road. HTO wildlife monitor performed a visual inspection and observed that the injured animal appeared to have received a bullet in the left shoulder. HTO wildlife monitor took the initiative to dispatch the animal to prevent further suffering. AEM Environment technician arrived at the scene after the animal had been dispatched.	-96.36013	64.73137		Project non-related	No	Not Exceeded	
Incidental	2022-02-11 17:01	Yes	Caribou	100	Not recorded	W	0	58	Both	Yes		-96.35794	64.74165			No	Exceeded	Speed restriction from KM 54 to 58
Road	2022-02-13 8:04	Yes	Caribou	11	Foraging	N/A	300	58	West	No		-96.35794	64.74165			No	Not Exceeded	
Road	2022-02-13 8:04	Yes	Caribou	6	Foraging	N/A	100	57	East	No		-96.36013	64.73137			No	Not Exceeded	
Road	2022-02-13 8:04	Yes	Caribou	42	Foraging	N/A	50	57	East	No		-96.36013	64.73137			No	Exceeded	Speed restriction from km 54 to 59
Road	2022-02-13 8:04	Yes	Caribou	12	Foraging	N/A	250	48	East	No		-96.36878	64.66417			No	Not Exceeded	
Road	2022-02-15 22:00	Yes	Caribou	5	Foraging	N/A	80	72	West	N/A		-96.32384	64.85386			No	Not Exceeded	
Road	2022-02-15 22:00	Yes	Caribou	10	Walking	E	0	54	East	Yes		-96.35835	64.71319			No	Not Exceeded	
Road	2022-02-15 22:00	Yes	Caribou	10	Walking	E	0	49	East	Yes		-96.37072	64.6688			No	Not Exceeded	
Road	2022-02-15 22:00	Yes	Caribou	2	Foraging	N/A	68	33	East	N/A		-96.21631	64.57146			No	Not Exceeded	
Road	2022-02-17 6:42	Yes	Caribou	13	Foraging	N/A	200	57	Both	No		-96.36013	64.73137			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-02-17 6:42	Yes	Caribou	9	Resting	N/A	100	56	East	No		-96.35139	64.72588			No	Not Exceeded	
Road	2022-02-17 6:42	Yes	Caribou	17	Foraging	N/A	300	53	West	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-02-17 6:42	Yes	Caribou	7	Resting	N/A	70	46	West	No		-96.32957	64.65622			No	Not Exceeded	
Road	2022-02-17 6:42	Yes	Caribou	6	Feeding	N/A	212	27	East	No		-96.16125	64.53222			No	Not Exceeded	
Road	2022-02-17 6:42	Yes	Caribou	3	Feeding	N/A	50	35	East	No		-96.24426	64.57386			No	Not Exceeded	
Road	2022-02-17 6:42	Yes	Caribou	8	Foraging	S	50	46	Both	No		-96.32957	64.65622			No	Not Exceeded	
Road	2022-02-18 8:31	Yes	Caribou	19	Feeding	N/A	0	56	Both	Yes		-96.35139	64.72588			No	Not Exceeded	
Road	2022-02-18 8:31	Yes	Caribou	25	Foraging	W	140	54	West	No		-96.35835	64.71319			No	Not Exceeded	
Road	2022-02-18 8:31	Yes	Caribou	9	Resting	N/A	170	53	East	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-02-18 8:31	Yes	Caribou	23	Foraging	W	120	52	West	No		-96.37745	64.70086			No	Not Exceeded	
Road	2022-02-18 8:31	Yes	Caribou	2	Foraging	S	340	21	East	No		-96.1045	64.48693			No	Not Exceeded	
Road	2022-02-18 8:31	Yes	Caribou	5	Feeding	N/A	140	44	East	No		-96.30352	64.64171			No	Not Exceeded	
Road	2022-02-22 7:44	Yes	Caribou	2	Feeding	N/A	100	96	West	No		-96.18089	65.0181			No	Not Exceeded	
Road	2022-02-22 7:44	Yes	Caribou	6	Feeding	N/A	750	67	East	No		-96.3262	64.81233			No	Not Exceeded	
Road	2022-02-22 7:44	Yes	Caribou	15	Lying Down	N/A	150	57	West	No		-96.36013	64.73137			No	Not Exceeded	
Road	2022-02-22 7:44	Yes	Caribou	5	Walking	S	100	54	West	No		-96.35835	64.71319			No	Not Exceeded	
Road	2022-02-22 7:44	Yes	Caribou	7	Feeding	N/A	150	49	West	No		-96.37072	64.6688			No	Not Exceeded	
Incidental	2022-02-23 17:00	Yes	Caribou	1	Injured	N/A	100	91		No	The Baker lake Dispatch Called the Environment DPT to let them know that there was a limping caribou at km 91 at about 100 meters from the road.	-96.22486	64.98469	No		No	Not Exceeded	
Road	2022-02-24 14:37	Yes	Caribou	9	Resting	W	100	34	East	No		-96.23991	64.56848			No	Not Exceeded	
Road	2022-02-24 14:37	Yes	Caribou	7	Foraging	SE	400	46	West	No		-96.34735	64.65819			No	Not Exceeded	
Road	2022-02-25 7:42	Yes	Caribou	20	Feeding	N/A	0	56	Both	Yes	Some of them were crossing west to east	-96.35139	64.72588			No	Not Exceeded	
Road	2022-02-25 7:42	Yes	Caribou	28	Feeding	N/A	100	49	West	No		-96.37072	64.6688			No	Exceeded	Speed restriction
Road	2022-02-25 7:42	Yes	Caribou	2	Feeding	N/A	2000	34	West	No		-96.24047	64.56875			No	Not Exceeded	
Road	2022-02-25 7:42	Yes	Caribou	2	Lying Down	N/A	200	34	East	No		-96.24047	64.56875			No	Not Exceeded	
Incidental	2022-02-25 12:30	Yes	Arctic fox	3	Feeding	N/A	190	60	West	No	3 Artic fox were feeding on caribou	-96.36363	64.75548			No	Not Exceeded	
Incidental	2022-02-25 15:43	Yes	Caribou	1	Dead	N/A	190	60	West	No	By looking at the carcass with binoculars it was determined that it was the leftovers of a harvested caribou	-96.36363	64.75548		Project non-related	No	Not Exceeded	
Road	2022-02-28 12:20	Yes	Caribou	9	Foraging	S	300	53	West	No		-96.35672	64.71398				Not Exceeded	
Road	2022-03-01 9:05	Yes	Arctic fox	1	Walking	W	0	71	Both	Yes		-96.3197	64.84471			No	Not Exceeded	
Road	2022-03-01 9:05	Yes	Caribou	6	Feeding	N/A	75	52	East	No		-96.37745	64.70086			No	Not Exceeded	
Road	2022-03-01 9:05	Yes	Caribou	4	Walking	S	700	32	East	No		-96.20446	64.56469			No	Not Exceeded	
Road	2022-03-02 9:19	Yes	Caribou	9	Foraging	N/A	150	33	East	No		-96.21022	64.57174			No	Not Exceeded	
Road	2022-03-05 8:04	Yes	Caribou	9	Foraging	N/A	0	102	East	Yes		-96.12783	65.0517			No	Not Exceeded	
Road	2022-03-05 8:04	Yes	Muskox	9	Feeding	N/A	500	91	East	No		-96.22486	64.98469			No	Not Exceeded	
Road	2022-03-05 8:04	Yes	Caribou	3	Foraging	N/A	300	53	East	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-03-05 8:04	Yes	Caribou	33	Foraging	N/A	100	52	Both	No		-96.37745	64.70086			No	Exceeded	30km/hr speed restriction in place at KM52.
Road	2022-03-05 8:04	Yes	Caribou	11	Resting	N/A	100	33	East	No		-96.21631	64.57146			No	Not Exceeded	
Road	2022-03-09 10:28	Yes	Arctic fox	1	Running	S	10	81	East	No		-96.30208	64.92518			No	Not Exceeded	
Road	2022-03-09 10:28	Yes	Caribou	4	Feeding	N/A	20	52	West	No		-96.37745	64.70086			No	Not Exceeded	
Road	2022-03-11 12:39	No					NA					NA	NA					
Road	2022-03-15 9:25	No					NA					NA	NA					
Road	2022-03-15 16:38	No					NA					NA	NA					
Road	2022-03-18 9:14	Yes	Caribou	2	Walking	NE	148	13	East	No		-96.03681	64.42344			No	Not Exceeded	
Road	2022-03-18 13:15	No					NA					NA	NA					
Road	2022-03-24 7:52	No					NA					NA	NA					
Road	2022-03-28 9:21	Yes	Muskox	7	Feeding	N/A	1500	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Incidental	2022-03-28 13:15	Yes	Muskox	3	Feeding	Not Recorded	1000	37	West	No		-96.269	64.58416			No	Not Exceeded	
Incidental	2022-03-28 13:27	Yes	Caribou	5	Lying Down	Not Recorded	582	53	East	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-03-30 11:32	Yes	Caribou	9	Feeding	Not Recorded	857	51	East	No		-96.37133	64.67306			No	Not Exceeded	
Road	2022-04-01 8:15	Yes	Muskox	6	Walking	NW	999	82	East	No		-96.31204	64.9306			No	Not Exceeded	
Road	2022-04-01 8:15	Yes	Caribou	9	Foraging	N/A	999	53	East	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-04-01 8:15	Yes	Caribou	4	Walking	S	100	52	West	No		-96.37745	64.70086			No	Not Exceeded	
Road	2022-04-02 7:41	Yes	Caribou	8	Resting	N/A	100	106	East	No		-96.08289	65.02713			No	Not Exceeded	
Road	2022-04-02 7:41	Yes	Muskox	8	Resting	N/A	1500	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-04-02 7:41	Yes	Caribou	4	Resting	N/A	100	52	West	No		-96.37745	64.70086			No	Not Exceeded	
Road	2022-04-03 8:46	Yes	Caribou	250	Walking	S	500	92	West	No		-96.22191	64.99435			No	Exceeded	Closing Road
Road	2022-04-03 8:46	Yes	Caribou	5	Walking	NW	300	33	East	No		-96.21631	64.57146			No	Not Exceeded	
Road	2022-04-03 8:46	Yes	Caribou	10	Walking	S	5	50	East	Yes		-96.3731	64.67942			No	Not Exceeded	
Road	2022-04-03 8:46	Yes	Caribou	5	Resting	N/A	900	53	West	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-04-04 7:43	No					NA					NA	NA					
Incidental	2022-04-04 8:34	Yes	Caribou	40	Walking	NW	150	87	West	No		-96.24102	64.9542			No	Exceeded	Road closed
Incidental	2022-04-04 9:35	Yes	Caribou	1	Running	S	700	52	West	No		-96.37745	64.70086			No	Not Exceeded	
Incidental	2022-04-04 10:33	Yes	Caribou	5	Walking	S	300	33	East	No		-96.21631	64.57146			No	Not Exceeded	
Incidental	2022-04-04 15:17	Yes	Caribou	33	Resting	N/A	500	87	East	No		-96.24102	64.9542			No	Not Exceeded	
Incidental	2022-04-04 17:01	Yes	Wolf	1	Walking	S	1	96	East	Yes		-96.18089	65.0181			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-04-04 18:00	Yes	Caribou	1	Dead	N/A	20	103	West	No	Located SE of the EMR Road at KM103. 14W 634922 7217913. On the morning of April, Environment received a call that 7 Wolves were near the AWAR at KM102. The pack of wolves had killed a Caribou and were feeding on the carcass. Environment monitored the area throughout the day on April 3. The Wolves remained close to the carcass during the day. On April 4th, no wildlife was present and Environment staff were able to get close to the carcass. Only a few pieces of scattered hair and bones remained. An email was sent to the Baker Lake Conservation Officer to inform them of the carcass on April 3rd @ 6:02pm. Environmental personnel have been inspecting the area to ensure there is no risk to other wildlife or personnel. □	-96.11079	65.0489		Project non-related	No	Not Exceeded	
Road	2022-04-05 7:32	No					NA					NA	NA					
Road	2022-04-06 8:16	Yes	Caribou	12	Walking	NW	5	52	West	No		-96.37745	64.70086			No	Not Exceeded	
Road	2022-04-06 8:16	Yes	Caribou	2	Walking	E	0	55	East	Yes		-96.34597	64.71855			No	Not Exceeded	
Road	2022-04-06 8:16	Yes	Caribou	17	Walking	NW	450	54	West	No		-96.35835	64.71319			No	Not Exceeded	
Road	2022-04-07 8:10	Yes	Caribou	16	Walking	N	700	48	West	No		-96.36878	64.66417			No	Not Exceeded	
Road	2022-04-07 8:10	Yes	Caribou	5	Feeding	N/A	60	32	West	No		-96.20446	64.56469			No	Not Exceeded	
Road	2022-04-07 8:10	Yes	Caribou	5	Walking	S	900	89	West	No		-96.21956	64.96744			No	Not Exceeded	
Road	2022-04-08 10:30	Yes	Caribou	8	Walking	S	200	52	East	No		-96.37745	64.70086			No	Not Exceeded	
Road	2022-04-08 10:30	Yes	Muskox	9	Resting	N/A	100	92	West	No		-96.22191	64.99435			No	Not Exceeded	
Road	2022-04-09 8:36	Yes	Caribou	27	Walking	N	600	88	West	No		-96.2206	64.95809			No	Not Exceeded	
Road	2022-04-09 8:36	Yes	Caribou	8	Resting	N/A	300	35	West	No		-96.24426	64.57386			No	Not Exceeded	
Incidental	2022-04-09 16:39	Yes	Caribou	70	Walking	W	500	23	West	No		-96.12442	64.50056			No	Exceeded	Road open/closed
Road	2022-04-11 9:58	Yes	Muskox	10	Resting	N/A	700	90	West	No		-96.22208	64.97501			No	Not Exceeded	
Road	2022-04-12 7:28	No					NA					NA	NA					
Road	2022-04-13 6:58	No					NA					NA	NA					
Road	2022-04-14 7:17	No					NA					NA	NA					
Road	2022-04-15 6:31	Yes	Caribou	31	Walking	N	240	97	West	No		-96.17115	65.02594			No	Not Exceeded	
Road	2022-04-15 6:31	Yes	Muskox	8	Feeding	N/A	40	92	East	No		-96.22191	64.99435			No	Not Exceeded	
Road	2022-04-15 6:31	Yes	Caribou	69	Walking	E	22	88	East	No		-96.2206	64.95809			No	Exceeded	Road open/closed
Road	2022-04-15 6:31	Yes	Caribou	21	Walking	S	1000	87	West	No		-96.24102	64.9542			No	Not Exceeded	
Road	2022-04-15 6:31	Yes	Caribou	6	Walking	S	350	70	West	No		-96.31652	64.83649			No	Not Exceeded	
Road	2022-04-16 8:35	No					NA					NA	NA					
Road	2022-04-17 9:31	No					NA					NA	NA					
Incidental	2022-04-17 12:48	Yes	Caribou	6	Walking	N	200	12	West	No		-96.02992	64.41394			No	Not Exceeded	
Incidental	2022-04-17 14:33	Yes	Muskox	11	Feeding	N/A	50	90	East	No		-96.22208	64.97501			No	Not Exceeded	
Road	2022-04-18 8:39	Yes	Muskox	1	Alert	N/A	50	91	East	No		-96.22486	64.98469			No	Not Exceeded	
Road	2022-04-18 8:39	Yes	Caribou	6	Feeding	Not Recorded	50	33	East	No		-96.21631	64.57146			No	Not Exceeded	
Incidental	2022-04-18 13:32	Yes	Muskox	12	Feeding	Not Recorded	50	90	West	No	12 musk ox	-96.22208	64.97501			No	Not Exceeded	
Incidental	2022-04-18 13:44	Yes	Caribou	134	Feeding	Not Recorded	200	95	West	No	134 caribou	-96.19522	65.01286			No	Exceeded	Road open/closed
Road	2022-04-19 5:57	Yes	Caribou	2	Feeding	N/A	200	106	East	No		-96.08289	65.02713			No	Not Exceeded	
Road	2022-04-19 5:57	Yes	Caribou	28	Walking	S	100	94	Both	Yes		-96.21269	65.00751			No	Not Exceeded	
Road	2022-04-19 5:57	Yes	Muskox	12	Feeding	N/A	200	90	East	No		-96.22208	64.97501			Yes - Theyre still there since the day before	Not Exceeded	
Incidental	2022-04-19 11:23	Yes	Caribou	6	Lying Down	N/A	250	33	East	No	6 caribou	-96.21631	64.57146			Yes - Same place as last observation.	Not Exceeded	
Incidental	2022-04-19 12:38	Yes	Caribou	123	Walking	SW	400	93	West			-96.22197	65.00077			No	Exceeded	Close the road
Incidental	2022-04-19 13:48	Yes	Caribou	43	Alert	N	1200	97	West	No	25 caribou	-96.17115	65.02594			No	Exceeded	Road closed.
Road	2022-04-20 6:00	Yes	Caribou	6	Walking	SW	700	69	West	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-04-20 6:00	Yes	Caribou	16	Feeding	N/A	50	49	East	No		-96.37072	64.6688			No	Not Exceeded	
Road	2022-04-20 6:00	Yes	Caribou	3	Walking	SE	0	32	East	Yes		-96.20446	64.56469			No	Not Exceeded	
Incidental	2022-04-20 6:28	Yes	Muskox	11	Feeding	N/A	0	90	West,East	Yes		-96.22208	64.97501			No	Not Exceeded	
Road	2022-04-21 6:28	Yes	Caribou	16	Walking	W	0	54	Both	Yes		-96.35835	64.71319			No	Not Exceeded	
Incidental	2022-04-21 12:58	Yes	Caribou	19	Running	S	1600	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-04-22 7:18	Yes	Muskox	6	Standing	N/A	450	90	West	No		-96.22208	64.97501			No	Not Exceeded	
Road	2022-04-22 7:18	Yes	Caribou	12	Feeding	N/A	3	50	East	No		-96.3731	64.67942			No	Not Exceeded	
Incidental	2022-04-22 16:25	Yes	Ptarmigan	1	Dead	N/A	0	40		N/A	While doing a wildlife survey on the AWAR the environment department noticed a ptarmigan that appears to have been struck by a vehicle	-96.28144	64.60429		Project related	No	Not Exceeded	
Road	2022-04-23 10:01	Yes	Ptarmigan	18	Running	N/A	10	8	Both	N/A		-96.01547	64.38131			No	Not Exceeded	
Road	2022-04-23 10:01	Yes	Caribou	1	Injured	S	100	50	East	No		-96.3731	64.67942			No	Not Exceeded	
Road	2022-04-23 10:01	Yes	Caribou	12	Feeding	Not Recorded	800	50	East	No		-96.3731	64.67942			No	Not Exceeded	
Road	2022-04-23 10:01	Yes	Arctic fox	1	Running	NE	10	58	Both	No		-96.35794	64.74165			No	Not Exceeded	
Road	2022-04-24 7:30	Yes	Muskox	11	Lying Down	N/A	275	90	West	No		-96.22208	64.97501			No	Not Exceeded	
Road	2022-04-24 7:30	Yes	Arctic hare	1	Running	S	10	82	East	No		-96.31204	64.9306			No	Not Exceeded	
Road	2022-04-24 7:30	Yes	Arctic hare	1	Running	SE	69	5	East	Yes		-95.99998	64.35657			No	Not Exceeded	
Road	2022-04-25 12:39	Yes	Muskox	11	Feeding	N/A	100	90	East	N/A		-96.22208	64.97501			No	Not Exceeded	
Incidental	2022-04-25 16:33	Yes	Muskox	38	Feeding	Not Recorded	1000	38	West	No	musk ox 38	-96.27582	64.59073			No	Exceeded	Speed restriction put in place.
Incidental	2022-04-25 17:45	Yes	Caribou	32	Walking	N	1000	95	West	No	32 caribou	-96.19522	65.01286			No	Not Exceeded	
Incidental	2022-04-26 13:19	Yes	Muskox	30	Foraging	N/A	400	38	West	No		-96.27582	64.59073			No	Exceeded	Speed Restriction
Road	2022-04-27 10:17	Yes	Muskox	20	Feeding	N/A	1600	37	East	No		-96.269	64.58416			No	Exceeded	Speed restriction has been put in place.
Incidental	2022-04-27 14:49	Yes	Caribou	4	Running	W	1500	61	West	No	West of the road being chased by snowmobile. Hunters	-96.35467	64.76327			No	Not Exceeded	
Road	2022-04-28 10:30	No					NA					NA	NA					

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-04-28 11:53	Yes	Caribou	3	Running	S	400	77	West	No	3 caribou running from 2 hunters	-96.33908	64.89511			No	Not Exceeded	
Road	2022-04-28 11:53	Yes	Caribou	12	Walking	SE	800	67	West	No		-96.3262	64.81233			No	Not Exceeded	
Road	2022-04-28 11:53	Yes	Caribou	6	Feeding	N/A	700	56	West	No		-96.35139	64.72588			No	Not Exceeded	
Incidental	2022-04-28 12:40	Yes	Caribou	98	Not recorded	SE	500	90	West	No	Moving SE and towards the road	-96.22208	64.97501			No	Exceeded	Road closed
Road	2022-04-29 7:55	Yes	Caribou	11	Walking	W	100	81	West	No		-96.30208	64.92518			No	Not Exceeded	
Road	2022-04-29 7:55	Yes	Caribou	7	Walking	S	200	23	West	No		-96.12442	64.50056			No	Not Exceeded	
Road	2022-04-29 7:55	Yes	Caribou	2	Alert	W	200	6	West	No		-96.00083	64.36427			No	Not Exceeded	
Incidental	2022-04-30 7:18	Yes	Muskox	8	Feeding	N/A	50	90	East	No		-96.22208	64.97501			No	Not Exceeded	
Incidental	2022-04-30 7:35	Yes	Caribou	12	Not recorded	N/A	NA	103		No		-96.11079	65.0489			No	Not Exceeded	Speed restriction put in place
Incidental	2022-04-30 7:35	Yes	Caribou	20	Not recorded	N/A	NA	102		No		-96.12783	65.0517			No	Not Exceeded	Speed restriction put in place
Incidental	2022-05-02 7:32	Yes	Caribou	50	Not recorded	N/A	500	83		No		-96.30111	64.935			No	Exceeded	Road remained closed
Road	2022-05-03 13:17	Yes	Muskox	9	Resting	S	200	91	East	No		-96.22486	64.98469			No -	Not Exceeded	
Road	2022-05-03 15:04	Yes	Muskox	4	Foraging	S	200	145	East	No		-96.3769	65.22422			No -	Not Exceeded	
Road	2022-05-03 15:04	Yes	Muskox	24	Foraging	S	200	37	West	No		-96.269	64.58416			No -	Exceeded	HTO observation
Road	2022-05-03 15:04	Yes	Caribou	20	Foraging	S	50	107	East	No		-96.07193	65.02338			No -	Not Exceeded	HTO observation
Incidental	2022-05-04 17:12	Yes	Caribou	21	Not recorded	N/A	40	106	East	No		-96.08289	65.02713			No	Not Exceeded	Speed restriction
Incidental	2022-05-04 18:35	Yes	Grizzly bear	1	Not recorded		500	33			A local hunter reported seeing a Grizzly Bear at Km 33 about 500 meters away from the road. I believe he said east side.	-96.21631	64.57146			No	Not Exceeded	
Incidental	2022-05-05 6:58	Yes	Caribou	18	Not recorded	N/A	NA	70		No		-96.31652	64.83649			No	Not Exceeded	
Incidental	2022-05-05 6:58	Yes	Caribou	15	Not recorded	N/A	NA	18		No		-96.0824	64.46103			No	Not Exceeded	
Road	2022-05-06 12:57	Yes	Caribou	13	Walking	N/A	60	109	West	No		-96.08633	65.02864			No	Not Exceeded	
Road	2022-05-06 12:57	Yes	Caribou	5	Walking	S	600	78	West	No		-96.32437	64.90319			No	Not Exceeded	
Incidental	2022-05-06 14:59	Yes	Caribou	27	Not recorded	N/A	350	72	West	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-05-07 7:31	Yes	Arctic hare	1	Running	W	0	101	Both	Yes		-96.14029	65.05669			No	Not Exceeded	
Road	2022-05-07 7:31	Yes	Caribou	24	Feeding	N/A	200	67	West	No		-96.3262	64.81233			No	Not Exceeded	
Incidental	2022-05-07 14:33	Yes	Caribou	31	Not recorded	N/A	700	69		No	Group from earlier merged	-96.31427	64.82772			No	Not Exceeded	
Road	2022-05-10 13:25	Yes	Caribou	3	Feeding	SW	50	33	East	No		-96.21631	64.57146			No	Not Exceeded	
Road	2022-05-11 10:10	Yes	Muskox	2	Resting	N/A	150	93	East	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-05-11 10:10	Yes	Caribou	20	Resting	S	450	104	East	No		-96.09721	65.04458			No	Not Exceeded	
Road	2022-05-12 8:59	No					NA					NA	NA					
Incidental	2022-05-12 13:35	Yes	Caribou	12	Feeding	N/A	50	105	East	No		-96.08773	65.03413			No	Not Exceeded	
Incidental	2022-05-12 13:52	Yes	Caribou	5	Walking	SE	100	106	East	No		-96.08289	65.02713			No	Not Exceeded	
Road	2022-05-13 8:26	Yes	Arctic hare	1	Trotting/running	S	10	62	East	No		-96.3444	64.77373			No	Not Exceeded	
Road	2022-05-14 7:06	Yes	Arctic fox	1	Running	N	100	95	West	No		-96.19522	65.01286			No	Not Exceeded	
Road	2022-05-14 7:06	Yes	Arctic hare	1	Running	N	40	65	West	No		-96.34062	64.7948			No	Not Exceeded	
Incidental	2022-05-14 10:39	Yes	Wolf	2	Running	S	0	44	West,East	Yes		-96.30352	64.64171			No	Not Exceeded	
Incidental	2022-05-14 12:04	Yes	Caribou	9	Walking	NE	500	95	West	No		-96.19522	65.01286			No	Not Exceeded	
Road	2022-05-15 7:40	Yes	Sandhill crane	1	Walking	N/A	100	80	West	No		-96.30624	64.91707			No	Not Exceeded	
Incidental	2022-05-15 17:52	Yes	Caribou	5	Feeding	N/A	80	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-05-16 10:27	Yes	Arctic hare	1	Standing	N/A	10	23	East	No		-96.12442	64.50056			No	Not Exceeded	
Road	2022-05-16 10:27	Yes	Ptarmigan	10	Walking	N/A	1	39	West	No		-96.27514	64.59586			No	Not Exceeded	
Road	2022-05-16 10:27	Yes	Sandhill crane	1	Feeding	N/A	45	49	East	No		-96.37072	64.6688			No	Not Exceeded	
Road	2022-05-16 10:27	Yes	Caribou	27	Feeding	N/A	175	101	East	No		-96.14029	65.05669			No	Not Exceeded	
Incidental	2022-05-16 17:13	Yes	Caribou	9	Walking	E	500	98	East	No		-96.15765	65.03248			No	Not Exceeded	
Road	2022-05-17 8:13	Yes	Caribou	2	Feeding	N/A	280	102	West	No		-96.12783	65.0517			No	Not Exceeded	
Road	2022-05-18 6:50	Yes	Ptarmigan	9	Feeding	N/A	25	79	West	No		-96.31492	64.90953			No	Not Exceeded	
Road	2022-05-18 6:50	Yes	Arctic hare	1	Feeding	N/A	20	73	West	No		-96.32423	64.86213			No	Not Exceeded	
Road	2022-05-18 6:50	Yes	Ptarmigan	15	Feeding	N/A	30	51	West	No		-96.37907	64.69323			No	Not Exceeded	
Road	2022-05-18 6:50	Yes	Arctic hare	2	Feeding	N/A	20	49	West	No		-96.37072	64.6688			No	Not Exceeded	
Road	2022-05-18 6:50	Yes	Sandhill crane	2	Feeding	N/A	25	49	West	No		-96.37072	64.6688			No	Not Exceeded	
Road	2022-05-18 6:50	Yes	Ptarmigan	7	Feeding	E	3	17	East	No		-96.07705	64.45326			No	Not Exceeded	
Road	2022-05-18 6:50	Yes	Caribou	22	Foraging	S	100	163	East	No		-96.4304	65.31741			No	Not Exceeded	
Incidental	2022-05-18 15:58	Yes	Caribou	9	Walking	E	850	102	East	No		-96.12783	65.0517			No	Not Exceeded	
Incidental	2022-05-18 16:56	Yes	Muskox	7	Feeding	N/A	40	93	East	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-05-19 8:15	Yes	Muskox	5	Feeding	N/A	60	94	East	No		-96.21269	65.00751			No	Not Exceeded	
Road	2022-05-19 8:15	Yes	Peregrine falcon	1	Flying	N/A	10	41	West	No	Hoovering, a raptor not sure what kind	-96.28113	64.62028			No	Not Exceeded	
Road	2022-05-19 8:15	Yes	Sandhill crane	2	Alert	N/A	100	23	West	No		-96.12442	64.50056			No	Not Exceeded	
Incidental	2022-05-19 14:29	Yes	Caribou	22	Feeding	N/A	250	101	East	No		-96.14029	65.05669			No	Not Exceeded	
Road	2022-05-20 11:45	Yes	Crow	3	Flying	N/A	6	2	West	No		-95.97432	64.33258			No	Not Exceeded	
Road	2022-05-20 11:45	Yes	Other	1	Flying	W	10	2	Both	Yes	Unidentified Osprey.	-95.97432	64.33258			No	Not Exceeded	
Road	2022-05-20 11:45	Yes	Sandhill crane	2	Walking	W	40	22	West	No		-96.11256	64.4935			No	Not Exceeded	
Road	2022-05-20 11:45	Yes	Sandhill crane	3	Standing	N/A	40	34	West	No		-96.24047	64.56875			No	Not Exceeded	
Road	2022-05-20 11:45	Yes	Muskox	2	Lying Down	N/A	275	96	West	No		-96.18089	65.0181			No	Not Exceeded	
Road	2022-05-21 9:42	Yes	Sandhill crane	1	Walking	E	20	84	West	No		-96.28276	64.9366			No	Not Exceeded	
Incidental	2022-05-21 15:13	Yes	Muskox	4	Feeding	N/A	150	98	West	No	4 musk ox	-96.15765	65.03248			No	Not Exceeded	
Road	2022-05-23 9:15	Yes	Muskox	6	Foraging	N/A	250	99	West	No		-96.15317	65.04196			No	Not Exceeded	
Road	2022-05-23 9:15	Yes	Arctic hare	1	Alert	N/A	20	65	East	No		-96.34062	64.7948			No	Not Exceeded	
Road	2022-05-23 9:15	Yes	Peregrine falcon	1	Flying	N	15	49	West	N/A		-96.37072	64.6688			No	Not Exceeded	
Road	2022-05-23 9:15	Yes	Ptarmigan	1	Flying	N	10	49	East	N/A		-96.37072	64.6688			No	Not Exceeded	
Road	2022-05-23 9:15	Yes	Sandhill crane	7	Alert	N/A	40	46	West	No		-96.32957	64.65622			No	Not Exceeded	
Road	2022-05-23 9:15	Yes	Sandhill crane	2	Feeding	N/A	300	7	East	N/A		-96.00916	64.37262			No	Not Exceeded	
Road	2022-05-24 9:03	Yes	Ptarmigan	1	Flying	W	0	77	Both	Yes		-96.33908	64.89511			No	Not Exceeded	
Road	2022-05-24 9:03	Yes	Caribou	2	Walking	N	1300	61	West	No		-96.35467	64.76327			No	Not Exceeded	
Road	2022-05-24 9:03	Yes	Sandhill crane	6	Walking	SE	50	49	East	No		-96.37072	64.6688			No	Not Exceeded	
Incidental	2022-05-24 14:59	Yes	Muskox	4	Feeding	N/A	200	86	West	No		-96.2528	64.94684			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Sandhill crane	3	Walking	S	50	12	West	No		-96.02992	64.41394			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Sandhill crane	3	Flying	S	30	14	West	No		-96.043	64.43121			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Sandhill crane	2	Standing	N/A	100	17	East	No		-96.07705	64.45326			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Sandhill crane	5	Alert	N/A	10	20	East	No		-96.09597	64.47868			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Sandhill crane	1	Walking	S	20	24	West	No		-96.13651	64.50789			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-05-25 13:13	Yes	Sandhill crane	2	Walking	S	10	25	West	No		-96.14948	64.5142			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Ptarmigan	6	Courting	N/A	10	29	West	No		-96.18125	64.54733			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Sandhill crane	2	Standing	N/A	20	31	West	No		-96.19574	64.55426			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Sandhill crane	3	Standing	N/A	25	36	West	No		-96.26192	64.58043			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Snow goose	7	Foraging	N/A	30	75	West	N/A		-96.33614	64.87946			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Rough-legged-Hawk	1	Flying	W	50	84	East	N/A		-96.28276	64.9366			No	Not Exceeded	
Road	2022-05-25 13:13	Yes	Muskox	2	Walking	S	75	90	East	N/A		-96.22208	64.97501			No	Not Exceeded	
Road	2022-05-26 10:31	Yes	Caribou	18	Walking	S	100	38	West	No		-96.27582	64.59073			No	Not Exceeded	
Road	2022-05-27 14:53	Yes	Caribou	4	Feeding	N/A	75	83	West	No		-96.30111	64.935			No	Not Exceeded	
Road	2022-05-29 8:39	Yes	Snow goose	500	Not recorded	Not Recorded	20	88	East	N/A		-96.2206	64.95809			No	Not Exceeded	
Road	2022-05-29 8:39	Yes	Muskox	10			NA					-96.24953	64.95112			No	Not Exceeded	
Road	2022-05-29 8:39	Yes	Caribou	10	Foraging	S	350	77	West	No		-96.33908	64.89511			No	Not Exceeded	
Road	2022-05-29 8:39	Yes	Caribou	5	Walking	SW	100	52	West	No		-96.37745	64.70086			No	Not Exceeded	
Road	2022-05-29 8:39	Yes	Sandhill crane	2	Feeding	N/A	25	33	West	No		-96.21631	64.57146			No	Not Exceeded	
Road	2022-05-29 8:39	Yes	Sandhill crane	2	Standing	N/A	100	25	West	No		-96.14948	64.5142			No	Not Exceeded	
Road	2022-05-29 8:39	Yes	Sandhill crane	4	Standing	N/A	50	8	West	No		-96.01547	64.38131			No	Not Exceeded	
Incidental	2022-05-29 13:46	Yes	Caribou	12	Running	S	200	40	West	No		-96.28144	64.60429			No	Not Exceeded	
Incidental	2022-05-31 5:45	Yes	Muskox	12	Not recorded	N/A	NA	15	West	No		-96.0525	64.43981			No	Not Exceeded	Slow down when close to blind corner
Road	2022-06-01 15:34	Yes	Caribou	17	Foraging	S	200	67	West	No		-96.3262	64.81233			No	Not Exceeded	
Road	2022-06-02 13:19	Yes	Caribou	7	Foraging	S	400	77	West	No		-96.33908	64.89511			No	Not Exceeded	
Road	2022-06-02 13:19	Yes	Caribou	4	Foraging	S	300	82	West	No		-96.31204	64.9306			No	Not Exceeded	
Road	2022-06-02 13:19	Yes	Muskox	57	Foraging	S	200	14	West	No		-96.043	64.43121			No	Exceeded	HTO observation
Road	2022-06-02 13:19	Yes	Caribou	1	Foraging	S	300	76	East	No		-96.34565	64.88789			No	Not Exceeded	
Road	2022-06-02 13:19	Yes	Caribou	15	Foraging	S	200	63	West	No		-96.34437	64.77932			No	Not Exceeded	
Road	2022-06-02 13:19	Yes	Caribou	2	Foraging	N	50	101	East	Yes		-96.14029	65.05669			No	Not Exceeded	
Road	2022-06-02 13:19	Yes	Muskox	3	Foraging	S	150	101	West	No		-96.14029	65.05669			No	Not Exceeded	
Road	2022-06-02 13:19	Yes	Caribou	1	Foraging	S	50	98	East	No		-96.15765	65.03248			No	Not Exceeded	
Road	2022-06-02 13:19	Yes	Caribou	10	Foraging	N	400	91	West	No		-96.22486	64.98469			No	Not Exceeded	
Road	2022-06-02 13:19	Yes	Caribou	2	Foraging	S	150	77	East	No		-96.33908	64.89511			No	Not Exceeded	
Road	2022-06-02 13:19	Yes	Caribou	2	Foraging	N	100	69	West	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-06-03 12:55	Yes	Muskox	60	Resting	N/A	350	14	West	No		-96.043	64.43121			No	Exceeded	Speed restriction put in place.
Road	2022-06-03 12:55	Yes	Caribou	13	Alert	S	350	53	West	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-06-06 10:18	No					NA					NA	NA					
Road	2022-06-06 11:12	Yes	Caribou	4	Foraging	NW	100	66	West	No		-96.33501	64.80451			No	Not Exceeded	
Road	2022-06-06 11:12	Yes	Caribou	5	Foraging	SW	200	81	West	No		-96.30208	64.92518			No	Not Exceeded	
Road	2022-06-06 11:12	Yes	Caribou	2	Walking	S	200	93	East	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-06-06 11:12	Yes	Caribou	1	Foraging	S	500	69	West	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-06-07 14:36	Yes	Muskox	1	Resting	N/A	300	103	East	No		-96.11079	65.0489			No	Not Exceeded	
Road	2022-06-10 7:13	Yes	Caribou	10	Feeding	N/A	60	101	West	No		-96.14029	65.05669			No	Not Exceeded	
Road	2022-06-10 7:13	Yes	Caribou	7	Feeding	N/A	170	81	West	No		-96.30208	64.92518			No	Not Exceeded	
Road	2022-06-10 7:13	Yes	Muskox	1	Feeding	N/A	900	23	West	No		-96.12442	64.50056			No	Not Exceeded	
Road	2022-06-14 7:19	Yes	Muskox	1	Feeding	N/A	50	99	West	No		-96.15317	65.04196			No	Not Exceeded	
Road	2022-06-14 7:19	Yes	Muskox	1	Feeding	N/A	100	91	East	No		-96.22486	64.98469			No	Not Exceeded	
Road	2022-06-14 7:19	Yes	Ptarmigan	2	Feeding	N/A	0	83	Both	Yes		-96.30111	64.935			No	Not Exceeded	
Road	2022-06-14 7:19	Yes	Muskox	1	Feeding	N	150	82	West	No		-96.31204	64.9306			No	Not Exceeded	
Road	2022-06-14 7:19	Yes	Muskox	1	Feeding	S	100	15	West	No		-96.0525	64.43981			No	Not Exceeded	
Incidental	2022-06-14 13:33	Yes	Muskox	16	Running	NW	10	15	East	No		-96.0525	64.43981			No	Exceeded	Speed restriction put in place.
Road	2022-06-15 10:05	Yes	Muskox	1	Feeding	S	10	101	East	No		-96.14029	65.05669			No	Not Exceeded	
Road	2022-06-15 10:05	Yes	Muskox	1	Feeding	N	50	102	West	No		-96.12783	65.0517			No	Not Exceeded	
Road	2022-06-15 10:05	Yes	Muskox	1	Feeding	N/A	10	103	East	No		-96.11079	65.0489			No	Not Exceeded	
Road	2022-06-15 10:05	Yes	Caribou	5	Running	S	0	79	Both	Yes		-96.31492	64.90953			No	Not Exceeded	
Road	2022-06-15 10:05	Yes	Canada goose	12	Feeding	N/A	200	72	West	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-06-15 10:05	Yes	Arctic fox	1	Running	S	10	45	West	No		-96.31336	64.65243			No	Not Exceeded	
Road	2022-06-15 10:05	Yes	Arctic fox	1	Alert	N/A	20	33	West	N/A		-96.21631	64.57146			No	Not Exceeded	
Road	2022-06-15 10:05	Yes	Canada goose	2	Alert	N/A	50	32	West	N/A		-96.20446	64.56469			No	Not Exceeded	
Road	2022-06-15 10:05	Yes	Other	1	Flying	W	50	11	West	No	Hawk.	-96.02386	64.40539			No	Not Exceeded	
Road	2022-06-15 10:05	Yes	Sandhill crane	2	Walking	E	0	6	Both	Yes		-96.00083	64.36427			No	Not Exceeded	
Incidental	2022-06-15 16:42	Yes	Caribou	2	Walking	W	200	70	West	No		-96.31652	64.83649			No	Not Exceeded	
Road	2022-06-17 8:00	Yes	Caribou	4	Feeding	N/A	1000	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-06-17 8:00	Yes	Canada goose	11	Feeding	N/A	200	81	West	No		-96.30208	64.92518			No	Not Exceeded	
Road	2022-06-17 8:00	Yes	Muskox	2	Feeding	N/A	1300	68	East	No		-96.32681	64.82032			No	Not Exceeded	
Road	2022-06-17 8:00	Yes	Muskox	18	Feeding		700	58	West	No		-96.35794	64.74165			No	Exceeded	Speed restriction put in place.
Road	2022-06-17 8:00	Yes	Muskox	20	Feeding	N/A	2000	34	West	No		-96.24047	64.56875			No	Exceeded	More than 1.5km from the road. None needed
Road	2022-06-17 8:00	Yes	Muskox	1	Feeding	N/A	50	24	East	No		-96.13651	64.50789			No	Not Exceeded	
Road	2022-06-17 8:00	Yes	Muskox	22	Resting	N/A	150	20	West	No		-96.09597	64.47868			No	Exceeded	Speed restriction put in place.
Road	2022-06-17 8:00	Yes	Muskox	2	Feeding	N/A	250	18	West	No		-96.0824	64.46103			No	Not Exceeded	
Incidental	2022-06-20 9:43	Yes	Caribou	1	Running	W	100	76	West	No		-96.34565	64.88789			No	Not Exceeded	
Road	2022-06-22 10:37	Yes	Muskox	1	Feeding	N/A	100	53	East	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-06-22 10:37	Yes	Sandhill crane	2	Walking	E	30	47	East	Yes		-96.34656	64.65799			No	Not Exceeded	
Road	2022-06-24 7:57	No					NA					NA	NA					
Incidental	2022-06-24 12:50	Yes	Muskox	3	Feeding	N/A	200	15	West	No	Baby present	-96.0525	64.43981			No	Not Exceeded	
Incidental	2022-06-24 13:52	Yes	Caribou	2	Running	N	150	145	West	No		-96.3769	65.22422			No	Not Exceeded	
Incidental	2022-06-24 14:09	Yes	Muskox	2	Feeding	N/A	100	53	West	No		-96.37309	64.70606			No	Not Exceeded	
Incidental	2022-06-24 14:36	Yes	Muskox	1	Feeding	N/A	30	69	West	N/A		-96.31427	64.82772			No	Not Exceeded	
Incidental	2022-06-26 9:00	Yes	Muskox	2	Feeding	N/A	150	54	East	No		-96.35835	64.71319			No	Not Exceeded	
Incidental	2022-06-26 9:05	Yes	Muskox	1	Feeding	N/A	30	52	East	No		-96.37745	64.70086			No	Not Exceeded	
Incidental	2022-06-26 10:57	Yes	Muskox	1	Feeding	N/A	10	25	West	No		-96.14948	64.5142			No	Not Exceeded	
Road	2022-06-28 10:30	Yes	Wolverine	1	Running	E	0	105	Both	Yes		-96.08773	65.03413			No	Not Exceeded	
Road	2022-06-28 10:30	Yes	Peregrine falcon	1	Standing	Not Recorded	50	70	West	No		-96.31652	64.83649			No	Not Exceeded	
Road	2022-06-28 10:30	Yes	Muskox	8	Walking	E	1000	54	East	No		-96.35835	64.71319			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-06-28 10:30	Yes	Muskox	2	Lying Down	W	100	48	West	No		-96.36878	64.66417			No	Not Exceeded	
Road	2022-06-28 10:30	Yes	Muskox	8	Lying Down	N/A	500	41	West	No		-96.28113	64.62028			No	Not Exceeded	
Road	2022-06-28 10:30	Yes	Muskox	1	Feeding	N	50	35	West	No		-96.24426	64.57386			No	Not Exceeded	
Road	2022-06-28 10:30	Yes	Muskox	3	Feeding	N/A	25	25	West	No		-96.14948	64.5142			No	Not Exceeded	
Road	2022-06-28 10:30	Yes	Sandhill crane	1	Walking	N/A	25	9	West	No		-96.0143	64.38902			No	Not Exceeded	
Road	2022-07-01 6:50	Yes	Muskox	2	Foraging	Not Recorded	75	104	West	No		-96.09721	65.04458			No	Not Exceeded	
Road	2022-07-01 6:50	Yes	Muskox	1	Walking	E	5	101	East	Deflection		-96.14029	65.05669			No	Not Exceeded	
Road	2022-07-01 6:50	Yes	Sandhill crane	2	Walking	Not Recorded	150	65	East	No		-96.34062	64.7948			No	Not Exceeded	
Road	2022-07-01 6:50	Yes	Muskox	1	Lying Down	N/A	200	54	West	No		-96.35835	64.71319			No	Not Exceeded	
Road	2022-07-01 6:50	Yes	Muskox	2	Lying Down	N/A	150	23	East	No		-96.12442	64.50056			No	Not Exceeded	
Road	2022-07-01 6:50	Yes	Sandhill crane	1	Foraging	W	20	10	West	No		-96.01786	64.3971			No	Not Exceeded	
Road	2022-07-01 6:50	Yes	Muskox	1	Feeding	N/A	300	1	West	No		-95.9717	64.32525			No	Not Exceeded	
Incidental	2022-07-01 15:06	Yes	Muskox	17	Feeding	N/A	25	12	East	Deflection		-96.02992	64.41394			No	Exceeded	Speed restriction between km11 and km12
Road	2022-07-05 7:50	Yes	Muskox	1	Lying Down	N/A	70	99	West	No		-96.15317	65.04196			No	Not Exceeded	
Road	2022-07-05 7:50	Yes	Muskox	1	Feeding	NE	140	45	East	No		-96.31336	64.65243			No	Not Exceeded	
Road	2022-07-05 7:50	Yes	Muskox	2	Feeding	NE	30	39	East	No		-96.27514	64.59586			No	Not Exceeded	
Road	2022-07-08 13:56	Yes	Muskox	1	Lying Down	W	35	18	West	No		-96.0824	64.46103			No	Not Exceeded	
Road	2022-07-08 13:56	Yes	Muskox	3	Lying Down	N/A	150	26	East	No		-96.16146	64.52353			No	Not Exceeded	
Road	2022-07-08 13:56	Yes	Muskox	1	Feeding	N/A	118	87	West	No		-96.24102	64.9542			No	Not Exceeded	
Road	2022-07-08 13:56	Yes	Muskox	1	Walking	SW	40	98	West	No		-96.15765	65.03248			No	Not Exceeded	
Road	2022-07-08 13:56	Yes	Caribou	1	Walking	N	10	101	West	No		-96.14029	65.05669			No	Not Exceeded	
Road	2022-07-08 13:56	Yes	Muskox	2	Feeding	N/A	80	105	East	No		-96.08773	65.03413			No	Not Exceeded	
Road	2022-07-08 13:56	Yes	Muskox	1	Lying Down	N/A	25	106	West	No		-96.08289	65.02713			No	Not Exceeded	
Road	2022-07-12 9:33	Yes	Bald Eagle	1	Standing	N/A	275	8	West	No		-96.01547	64.38131			No	Not Exceeded	
Road	2022-07-12 9:33	Yes	Canada goose	6	Flying	NE	300	12	West	Yes		-96.02992	64.41394			No	Not Exceeded	
Road	2022-07-12 9:33	Yes	Muskox	1	Feeding	N/A	125	13	East	No		-96.03681	64.42344			No	Not Exceeded	
Road	2022-07-12 9:33	Yes	Sandhill crane	3	Feeding	N/A	70	15	West	No		-96.0525	64.43981			No	Not Exceeded	
Road	2022-07-12 9:33	Yes	Caribou	1	Feeding	NE	50	89	East	No		-96.21956	64.96744			No	Not Exceeded	
Road	2022-07-12 9:33	Yes	Muskox	1	Feeding	N/A	8	106	West	No		-96.08289	65.02713			No	Not Exceeded	
Incidental	2022-07-13 10:05	Yes	Muskox	18	Not recorded	N/A	NA	9		No		-96.0143	64.38902			No	Exceeded	Speed restriction put in place.
Road	2022-07-14 11:18	Yes	Muskox	18	Feeding	N/A	100	10	West	No		-96.01786	64.3971			No	Exceeded	Speed Restriction
Road	2022-07-14 11:18	Yes	Muskox	1	Feeding	N/A	1	79	West	No		-96.31492	64.90953			No	Not Exceeded	
Road	2022-07-14 11:18	Yes	Muskox	3	Feeding	N/A	1	104	West	No		-96.09721	65.04458			No	Not Exceeded	
Incidental	2022-07-15 7:05	Yes	Muskox	40	Not recorded	N/A	NA	9		No		-96.0143	64.38902			No	Exceeded	Speed restriction put in place
Road	2022-07-16 12:05	Yes	Muskox	9	Feeding	N/A	400	18	East	No		-96.0824	64.46103			No	Not Exceeded	
Road	2022-07-16 12:05	Yes	Muskox	13	Feeding	W	20	13	East	No	Km 13	-96.03681	64.42344			No	Not Exceeded	
Road	2022-07-16 12:05	Yes	Muskox	1	Feeding	N/A	600	26	East	No		-96.16146	64.52353			No	Not Exceeded	
Road	2022-07-16 12:05	Yes	Muskox	3	Feeding	N/A	80	105	East	No		-96.08773	65.03413			No	Not Exceeded	
Road	2022-07-18 8:12	Yes	Caribou	1	Feeding	N/A	120	33	West	No		-96.21631	64.57146			No	Not Exceeded	
Road	2022-07-18 8:12	Yes	Muskox	1	Resting	N/A	50	25	West	No		-96.14948	64.5142			No	Not Exceeded	
Incidental	2022-07-18 16:39	Yes	Muskox	15	Feeding	N/A	15	15	West,East	Yes		-96.0525	64.43981			No	Exceeded	Speed restriction put in place.
Road	2022-07-19 5:27	Yes	Muskox	1	Feeding	N/A	3	104	East	No		-96.09721	65.04458			No	Not Exceeded	
Road	2022-07-19 5:27	Yes	Snow goose	12	Resting	N/A	100	96	West	No		-96.18089	65.0181			No	Not Exceeded	
Road	2022-07-19 5:27	Yes	Muskox	12	Feeding	N/A	150	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-07-19 5:27	Yes	Muskox	1	Feeding	N/A	1	46	West	Yes		-96.32957	64.65622			No	Not Exceeded	
Road	2022-07-19 5:27	Yes	Sandhill crane	2	Walking	E	2	42	East	Yes		-96.2949	64.62757			No	Not Exceeded	
Road	2022-07-19 5:27	Yes	Muskox	1	Walking	N/A	30	42	East	No		-96.2949	64.62757			No	Not Exceeded	
Road	2022-07-19 5:27	Yes	Muskox	1	Resting	N/A	50	25	East	No		-96.14948	64.5142			No	Not Exceeded	
Road	2022-07-19 5:27	Yes	Sandhill crane	2	Walking	S	50	21	West	No		-96.1045	64.48693			No	Not Exceeded	
Road	2022-07-19 5:27	Yes	Muskox	12	Resting	N/A	20	20	East	No		-96.09597	64.47868			No	Not Exceeded	
Road	2022-07-19 5:27	Yes	Sandhill crane	2	Resting	N/A	50	20	East	No		-96.09597	64.47868			No	Not Exceeded	
Road	2022-07-22 10:45	Yes	Caribou	1	Walking	N	0	93	East	Yes		-96.22197	65.00077			No	Not Exceeded	
Incidental	2022-07-23 8:35	Yes	Muskox	7	Feeding	N/A	300	54	East	N/A	Did not put a speed restriction as they were pretty far away, and were not facing the road.	-96.35835	64.71319			No	Not Exceeded	
Incidental	2022-07-23 13:16	Yes	Muskox	7	Feeding	Not Recorded	800	8	West	No	They are not moving towards the road. No speed restriction.	-96.01547	64.38131			No	Not Exceeded	
Incidental	2022-07-23 16:31	Yes	Muskox	1	Lying Down	N/A	25	49	West	No	Speed restriction placed at 30km/h	-96.37072	64.6688			No	Not Exceeded	
Incidental	2022-07-25 4:00	Yes	Wolf	1	Injured		0	32			AEM Grader 2 – Junior reported a wolf at Km 32 walking south, he believed it was injured also.	-96.20446	64.56469			No	Not Exceeded	
Road	2022-07-26 7:30	Yes	Caribou	1	Walking	W	0	90	Both	Yes	Caribou in quarry 20 went on the road after	-96.22208	64.97501			No	Not Exceeded	
Road	2022-07-26 7:30	Yes	Muskox	1	Feeding	N/A	350	55	West	No		-96.34597	64.71855			No	Not Exceeded	
Road	2022-07-26 7:30	Yes	Muskox	4	Foraging	N/A	400	33	East	No		-96.21631	64.57146			No	Not Exceeded	
Road	2022-07-26 7:30	Yes	Sandhill crane	3	Walking	W	200	24	West	No		-96.13651	64.50789			No	Not Exceeded	
Road	2022-07-26 7:30	Yes	Muskox	15	Walking	N/A	300	9	East	No		-96.0143	64.38902			No	Exceeded	Speed restriction put in place.
Road	2022-07-27 6:42	Yes	Muskox	5	Resting	N/A	500	13	East	No		-96.03681	64.42344			Yes - Could be. A lot of muskox on the road	Not Exceeded	
Road	2022-07-27 6:42	Yes	Caribou	1	Walking	E	0	93	West	Yes		-96.22197	65.00077			No	Not Exceeded	
Road	2022-07-29 8:28	Yes	Muskox	33	Foraging	N/A	700	49	Both	No		-96.37072	64.6688			No	Exceeded	HTO observation
Road	2022-07-30 6:44	Yes	Muskox	2	Resting	N/A	100	60	West	No		-96.36363	64.75548			No	Not Exceeded	
Road	2022-07-30 6:44	Yes	Muskox	1	Foraging	S	400	53	West	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-07-30 6:44	Yes	Caribou	60	Foraging	N	800	48	East	No		-96.36878	64.66417			No	Exceeded	Road closed
Road	2022-07-30 6:44	Yes	Muskox	18	Feeding	N/A	1000	44	West	No		-96.30352	64.64171			No	Exceeded	Partial closure due to caribou.
Road	2022-07-30 6:44	Yes	Caribou	45	Foraging	S	800	44	East	No		-96.30352	64.64171			No	Exceeded	Road closed
Road	2022-07-30 6:44	Yes	Sandhill crane	3	Walking	N/A	25	200	West	No		-96.29704	64.63748			No	Not Exceeded	
Incidental	2022-07-30 11:21	Yes	Caribou	19	Feeding	N/A	600	57	East	No		-96.36013	64.73137			No	Not Exceeded	
Incidental	2022-07-30 11:24	Yes	Caribou	10	Feeding	N/A	1200	58	East	No		-96.35794	64.74165			No	Not Exceeded	
Incidental	2022-07-30 11:26	Yes	Caribou	9	Feeding	N/A	500	59	East	No		-96.37059	64.74953			No	Not Exceeded	
Incidental	2022-07-30 11:33	Yes	Caribou	264	Feeding	N/A	400	60	East	No		-96.36363	64.75548			No	Exceeded	Road closed
Incidental	2022-07-30 11:43	Yes	Caribou	50	Feeding	N/A	300	66	East	No		-96.33501	64.80451			No	Exceeded	Road closed
Incidental	2022-07-30 13:23	Yes	Caribou	10	Foraging	N	800	72	East	No		-96.32384	64.85386			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-07-31 13:55	Yes	Muskox	7	Resting	N/A	300	40	West	No		-96.28144	64.60429			No	Not Exceeded	
Road	2022-07-31 13:55	Yes	Caribou	4	Feeding	N/A	300	42	East	No		-96.2949	64.62757			No	Not Exceeded	
Road	2022-07-31 13:55	Yes	Caribou	4	Walking	N	100	46	West	No		-96.32957	64.65622			No	Not Exceeded	
Road	2022-07-31 13:55	Yes	Caribou	2	Walking	W	10	49	West	Yes		-96.37072	64.6688			No	Not Exceeded	
Road	2022-07-31 13:55	Yes	Caribou	25	Walking	N	700	52	East	No		-96.37745	64.70086			No	Not Exceeded	
Road	2022-07-31 13:55	Yes	Caribou	20	Walking	N	500	53	East	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-07-31 13:55	Yes	Caribou	55	Walking	N	500	69	East	No		-96.31427	64.82772			No	Exceeded	Road closed
Road	2022-07-31 13:55	Yes	Caribou	25	Feeding	N/A	500	72	East	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-07-31 13:55	Yes	Caribou	70	Walking	N	500	74	East	No		-96.33028	64.87523			No	Exceeded	Road closed
Road	2022-07-31 13:55	Yes	Caribou	20	Feeding	N/A	500	78	Both	No		-96.32437	64.90319			No	Not Exceeded	
Road	2022-07-31 13:55	Yes	Caribou	120	Resting	E	5	80	East	No		-96.30624	64.91707			No	Exceeded	Road already close. I am doing a covoy for one pck and a grader. Some caribou crossed. Some are staying there feeding and laying down. A big group starts to walking and run in opposite direction even if we were stop or moving really slow
Road	2022-08-01 7:45	Yes	Caribou	4	Walking	N	200	89	East	No		-96.21956	64.96744			No	Not Exceeded	
Road	2022-08-01 7:45	Yes	Caribou	15	Walking	N/A	250	87	East	No		-96.24102	64.9542			No	Not Exceeded	
Road	2022-08-01 7:45	Yes	Caribou	5	Walking	NE	100	72	East	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-08-01 7:45	Yes	Caribou	23	Walking	N	450	49	East	No		-96.37072	64.6688			No	Not Exceeded	
Incidental	2022-08-01 14:52	Yes	Caribou	4	Foraging	N	150	33	East	No		-96.21631	64.57146			No	Not Exceeded	
Incidental	2022-08-01 16:43	Yes	Caribou	18	Foraging	E	10	93	East	Yes		-96.22197	65.00077			No	Not Exceeded	
Road	2022-08-02 7:05	Yes	Muskox	15	Lying Down	N/A	170	89	East	No		-96.21956	64.96744			No	Exceeded	Speed restriction put in place.
Road	2022-08-02 7:05	Yes	Muskox	2	Feeding	N/A	250	42	West	No		-96.2949	64.62757			No	Not Exceeded	
Road	2022-08-02 7:05	Yes	Caribou	13	Walking	SE	700	33	East	No		-96.21631	64.57146			No	Not Exceeded	
Road	2022-08-02 7:05	Yes	Caribou	5	Walking	NE	250	31	East	No		-96.19574	64.55426			No	Not Exceeded	
Road	2022-08-02 7:05	Yes	Caribou	3	Walking	SW	600	26	East	No	ATV in Tundra close by to the caribous. Caribous seemed to be heading NE.	-96.16146	64.52353			No	Not Exceeded	
Road	2022-08-02 7:05	Yes	Muskox	3	Resting	N/A	120	18	West	No		-96.0824	64.46103			No	Not Exceeded	
Incidental	2022-08-02 8:00	Yes	Wolverine	1	Dead	N/A	0	80			AFS Tanker 3 Paul Niego informed dispatch at around 20h00 that he ran over a wolverine on the bridge at km 80. Wildlife Mortality report will be sent to the GN on august 3rd via email. AFS driver informed dispatch around 20h00. At 20h10, dispatch communicated with the environment coordinator how send an employee to remove the carcass. Mean will, the wolverine had died instantly, and the carcass was moved to the side of the road by the grader to allow free access to the road.The driver was already driving slowly, and no food waste was found near the accident. □ □ Maintaining good vigilance is the best measure to avoid another accident.	-96.30624	64.91707			No	Not Exceeded	
Road	2022-08-03 9:41	Yes	Muskox	1	Feeding	N/A	25	100	East	No		-96.14649	65.04884		Project related	No	Not Exceeded	
Road	2022-08-03 9:41	Yes	Caribou	1	Trotting/running	N	1000	17	East	No		-96.07705	64.45326			No	Not Exceeded	
Road	2022-08-03 9:41	Yes	Caribou	5	Walking	W	300	15	East	No		-96.0525	64.43981			No	Not Exceeded	
Incidental	2022-08-03 15:44	Yes	Muskox	1	Walking	SE	300	22	East	No		-96.11256	64.4935			No	Not Exceeded	
Road	2022-08-04 6:42	Yes	Muskox	1	Feeding	N/A	600	9	East	No		-96.0143	64.38902			No	Not Exceeded	
Road	2022-08-04 6:42	Yes	Caribou	3	Running	SE	750	20	East	No		-96.09597	64.47868			No	Not Exceeded	
Road	2022-08-04 6:42	Yes	Caribou	3	Walking	NE	250	49	East	No		-96.37072	64.6688			No	Not Exceeded	
Road	2022-08-04 6:42	Yes	Caribou	2	Running	E	300	68	Both	Yes		-96.32681	64.82032			No	Not Exceeded	
Road	2022-08-04 6:42	Yes	Canada goose	22	Feeding	N/A	60	71	East	No		-96.3197	64.84471			No	Not Exceeded	
Road	2022-08-04 6:42	Yes	Muskox	1	Walking	NE	400	103	West	No		-96.11079	65.0489			No	Not Exceeded	
Road	2022-08-05 7:00	Yes	Caribou	3	Feeding	N/A	300	17	West	No		-96.07705	64.45326			No	Not Exceeded	
Road	2022-08-05 7:00	Yes	Muskox	1	Resting	N/A	110	42	West	No		-96.2949	64.62757			No	Not Exceeded	
Road	2022-08-05 7:00	Yes	Caribou	2	Feeding	N	400	75	East	No		-96.33614	64.87946			No	Not Exceeded	
Road	2022-08-05 7:00	Yes	Caribou	7	Walking	NE	550	78	East	No		-96.32437	64.90319			No	Not Exceeded	
Road	2022-08-05 7:00	Yes	Caribou	1	Walking	NE	250	94	East	No		-96.21269	65.00751			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Caribou	1	Feeding	N/A	10	106	West	No		-96.08289	65.02713			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Muskox	1	Feeding	N/A	200	97	West	No		-96.17115	65.02594			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Caribou	1	Walking	N	0	78	West	Yes		-96.32437	64.90319			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Arctic hare	1	Walking	SW	0	74	East	No		-96.33028	64.87523			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Siksik	1	Resting	N/A	0	70	West	No		-96.31652	64.83649			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Caribou	1	Walking	N	245	51	East	No		-96.37907	64.69323			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Sandhill crane	2	Standing	N/A	100	46	East	No		-96.32957	64.65622			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Peregrine falcon	2	Flying	N/A	100	43	West	N/A		-96.3007	64.63477			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Peregrine falcon	2	Flying	N/A	600	13	West	No		-96.03681	64.42344			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Arctic hare	1	Alert	N/A	600	13	West	No		-96.03681	64.42344			No	Not Exceeded	
Road	2022-08-06 9:55	Yes	Muskox	31	Feeding	N/A	1500	13	East	No		-96.03681	64.42344			No	Exceeded	Speed Restriction
Road	2022-08-07 7:59	Yes	Caribou	1	Feeding	E	150	92	East	No		-96.22191	64.99435			No	Not Exceeded	
Road	2022-08-07 7:59	Yes	Caribou	1	Walking	SE	100	74	West	No		-96.33028	64.87523			No	Not Exceeded	
Road	2022-08-07 7:59	Yes	Caribou	2	Feeding	NE	105	55	West	No		-96.34597	64.71855			No	Not Exceeded	
Road	2022-08-07 7:59	Yes	Muskox	22	Feeding	N/A	1500	15	East	No		-96.0525	64.43981			No	Exceeded	Speed restriction put in place.
Road	2022-08-07 7:59	Yes	Muskox	11	Feeding	Not Recorded	200	12	East	No		-96.02992	64.41394			No	Not Exceeded	
Incidental	2022-08-07 16:18	Yes	Caribou	1	Feeding	W	30	104	West,East	Yes		-96.09721	65.04458			No	Not Exceeded	
Road	2022-08-08 6:54	Yes	Caribou	1	Feeding	Not Recorded	80	103	East	No		-96.11079	65.0489			No	Not Exceeded	
Road	2022-08-09 10:16	Yes	Muskox	1	Resting	N/A	100	93	East	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-08-09 10:16	Yes	Muskox	1	Feeding	N/A	700	27	East	No		-96.16125	64.53222			No	Not Exceeded	
Road	2022-08-10 6:35	Yes	Caribou	1	Trotting/running	E	600	78	East	Yes		-96.32437	64.90319			No	Not Exceeded	
Road	2022-08-10 6:35	Yes	Caribou	2	Walking	SE	30	103	East	Yes		-96.11079	65.0489			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-08-10 12:28	Yes	Caribou	1	Feeding	N/A	250	48	West	No		-96.36878	64.66417			No	Not Exceeded	
Incidental	2022-08-10 14:11	Yes	Caribou	1	Feeding	N/A	525	6	West	No		-96.00083	64.36427			No	Not Exceeded	
Road	2022-08-11 6:29	Yes	Muskox	21	Resting	N/A	260	4	West	No		-95.99845	64.34605			No	Exceeded	Speed restriction was put in place from km 4 to 5
Road	2022-08-11 6:29	Yes	Muskox	1	Walking	N	500	10	East	No		-96.01786	64.3971			No	Not Exceeded	
Road	2022-08-11 6:29	Yes	Caribou	1	Feeding	N	200	48	West	No		-96.36878	64.66417			No	Not Exceeded	
Road	2022-08-11 6:29	Yes	Caribou	5	Feeding	N	650	75	East	No		-96.33614	64.87946			No	Not Exceeded	
Road	2022-08-11 6:29	Yes	Caribou	1	Walking	E	350	87	East	No		-96.24102	64.9542			No	Not Exceeded	
Incidental	2022-08-11 10:36	Yes	Caribou	5	Walking	NE	550	82	East	No		-96.31204	64.9306			No	Not Exceeded	
Incidental	2022-08-11 11:30	Yes	Caribou	13	Walking	NE	200	52	East	No		-96.37745	64.70086			No	Not Exceeded	
Incidental	2022-08-11 11:55	Yes	Caribou	17	Walking	NE	350	37	East	No		-96.269	64.58416			No	Not Exceeded	
Road	2022-08-12 7:02	Yes	Caribou	2	Walking	N	220	12	East	No		-96.02992	64.41394			No	Not Exceeded	
Road	2022-08-12 7:02	Yes	Caribou	8	Feeding	SE	120	17	East	No		-96.07705	64.45326			No	Not Exceeded	
Road	2022-08-12 7:02	Yes	Caribou	3	Walking	SE	320	26	East	No		-96.16146	64.52353			No	Not Exceeded	
Road	2022-08-12 7:02	Yes	Caribou	5	Walking	N	400	60	East	No		-96.36363	64.75548			No	Not Exceeded	
Road	2022-08-12 7:02	Yes	Caribou	7	Feeding	N/A	1200	76	East	No		-96.34565	64.88789			No	Not Exceeded	
Road	2022-08-12 7:02	Yes	Caribou	16	Walking	SE	1100	77	East	No		-96.33908	64.89511			No	Not Exceeded	
Road	2022-08-12 7:02	Yes	Caribou	4	Feeding	N/A	700	93	East	No		-96.22197	65.00077			No	Not Exceeded	
Incidental	2022-08-12 15:02	Yes	Caribou	1	Feeding	NW	200	82	West	No		-96.31204	64.9306			No	Not Exceeded	
Incidental	2022-08-12 15:15	Yes	Caribou	8	Feeding	W	350	77	East	No		-96.33908	64.89511			No	Not Exceeded	
Incidental	2022-08-12 15:35	Yes	Caribou	8	Walking	E	600	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-08-13 6:51	Yes	Muskox	8	Lying Down	N/A	645	42	West	No		-96.2949	64.62757			No	Not Exceeded	
Road	2022-08-13 6:51	Yes	Caribou	13	Walking	S	300	41	East	No		-96.28113	64.62028			No	Not Exceeded	
Road	2022-08-13 6:51	Yes	Caribou	12	Walking	N	100	38	East	No		-96.27582	64.59073			No	Not Exceeded	
Road	2022-08-13 6:51	Yes	Caribou	3	Walking	E	460	23	East	No		-96.12442	64.50056			No	Not Exceeded	
Road	2022-08-13 6:51	Yes	Caribou	1	Feeding	N/A	520	21	East	No		-96.1045	64.48693			No	Not Exceeded	
Incidental	2022-08-13 12:45	Yes	Caribou	1	Feeding	N/A	80	66	West	No		-96.33501	64.80451			No	Not Exceeded	
Incidental	2022-08-13 13:08	Yes	Caribou	1	Feeding	N/A	100	76	West	No		-96.34565	64.88789			No	Not Exceeded	
Incidental	2022-08-13 13:15	Yes	Caribou	4	Walking	S	310	78	West	No		-96.32437	64.90319			No	Not Exceeded	
Incidental	2022-08-13 13:42	Yes	Caribou	2	Walking	N/A	120	94	West	No		-96.21269	65.00751			No	Not Exceeded	
Road	2022-08-14 8:00	Yes	Caribou	1	Feeding	SE	1700	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-08-14 8:00	Yes	Caribou	1	Walking	E	100	52	West	Yes	Caribou crossed the road west to east	-96.37745	64.70086			No	Not Exceeded	
Road	2022-08-14 8:00	Yes	Bald Eagle	1	Flying	Not Recorded	1800	48	Both	No		-96.36878	64.66417			No	Not Exceeded	
Incidental	2022-08-14 14:30	Yes	Caribou	6	Walking	NE	70	101	West,East	Yes		-96.14029	65.05669			No	Not Exceeded	
Road	2022-08-16 8:19	No					NA					NA	NA					
Incidental	2022-08-16 14:09	Yes	Caribou	1	Walking	N	0	36	East	Yes		-96.26192	64.58043			No	Not Exceeded	
Road	2022-08-17 7:31	Yes	Caribou	1	Standing	N/A	450	86	East	No		-96.2528	64.94684			No	Not Exceeded	
Road	2022-08-17 7:31	Yes	Caribou	3	Walking	N	200	32	East	No		-96.20446	64.56469			No	Not Exceeded	
Road	2022-08-18 11:35	Yes	Caribou	5	Foraging	S	20	106	East	No		-96.08289	65.02713			No	Not Exceeded	
Road	2022-08-19 9:57	Yes	Canada goose	65	Feeding	N/A	400	83	West	No		-96.30111	64.935			No	Not Exceeded	
Road	2022-08-19 9:57	Yes	Sandhill crane	2	Alert	W	20	39	West	No		-96.27514	64.59586			No	Not Exceeded	
Road	2022-08-19 9:57	Yes	Muskox	2	Feeding	N/A	250	11	East	No		-96.02386	64.40539			No	Not Exceeded	
Incidental	2022-08-20 8:35	Yes	Grizzly bear	2	Running	E	300	54	East	No	Hunter stop by to advise the environment team that he just saw a mother bear and a tall cub	-96.35835	64.71319			No	Not Exceeded	
Road	2022-08-20 15:56	Yes	Sandhill crane	3	Flying	N	0	15	East	Yes		-96.0525	64.43981			No	Not Exceeded	
Road	2022-08-20 15:56	Yes	Muskox	32	Feeding	N/A	250	21	West	No		-96.1045	64.48693			No	Exceeded	Speed restriction from km 95 to km 97 and from km 26 to km 28.
Road	2022-08-20 15:56	Yes	Muskox	1	Feeding	N/A	300	32	East	No		-96.20446	64.56469			No	Not Exceeded	
Road	2022-08-20 15:56	Yes	Arctic fox	1	Running	SE	0	49	East	Yes		-96.37072	64.6688			No	Not Exceeded	
Road	2022-08-20 15:56	Yes	Caribou	1	Feeding	N/A	20	106	East	No		-96.08289	65.02713			No	Not Exceeded	
Road	2022-08-22 11:18	Yes	Caribou	10	Trotting/running	W	0	11	Both	Yes		-96.02386	64.40539			No	Not Exceeded	
Road	2022-08-22 11:18	Yes	Muskox	1	Resting	N/A	600	25	West	No		-96.14948	64.5142			No	Not Exceeded	
Road	2022-08-22 11:18	Yes	Caribou	8	Trotting/running	N	780	29	East	No		-96.18125	64.54733			No	Not Exceeded	
Road	2022-08-22 11:18	Yes	Muskox	8	Resting	N/A	700	53	West	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-08-22 11:18	Yes	Caribou	1	Walking	W	100	71	West	No		-96.3197	64.84471			No	Not Exceeded	
Road	2022-08-22 11:18	Yes	Caribou	2	Foraging	N/A	250	81	East	No		-96.30208	64.92518			No	Not Exceeded	
Road	2022-08-22 11:18	Yes	Caribou	3	Foraging	E	80	97	West	No		-96.17115	65.02594			No	Not Exceeded	
Road	2022-08-23 13:48	Yes	Caribou	1	Foraging	S	120	102	East	No		-96.12783	65.0517			No	Not Exceeded	
Road	2022-08-23 13:48	Yes	Caribou	1	Foraging	N/A	150	100	West	No		-96.14649	65.04884			No	Not Exceeded	
Road	2022-08-24 10:14	Yes	Muskox	11	Foraging	N	2000	17	West	No		-96.07705	64.45326			No	Not Exceeded	
Road	2022-08-24 10:14	Yes	Muskox	1	Foraging	N	10	29	West	Yes		-96.18125	64.54733			No	Not Exceeded	
Road	2022-08-24 10:14	Yes	Caribou	4	Foraging	W	50	41	Both	Yes		-96.28113	64.62028			No	Not Exceeded	
Road	2022-08-24 10:14	Yes	Caribou	2	Foraging	S	10	97	West	No		-96.17115	65.02594			No	Not Exceeded	
Road	2022-08-24 10:14	Yes	Caribou	4	Foraging	SE	500	77	East	No		-96.33908	64.89511			No	Not Exceeded	
Road	2022-08-25 6:55	Yes	Caribou	2	Foraging	E	600	105	West	No		-96.08773	65.03413			No	Not Exceeded	
Road	2022-08-25 6:55	Yes	Caribou	1	Resting	N/A	400	86	West	No		-96.2528	64.94684			No	Not Exceeded	
Road	2022-08-25 6:55	Yes	Caribou	1	Foraging	N/A	700	78	West	No		-96.32437	64.90319			No	Not Exceeded	
Road	2022-08-25 6:55	Yes	Muskox	1	Resting	N/A	600	49	West	No		-96.37072	64.6688			No	Not Exceeded	
Incidental	2022-08-25 11:00	Yes	Muskox	29	Foraging	E	100	10	West	No		-96.01786	64.3971			No	Exceeded	Speed restriction put in place.
Incidental	2022-08-25 11:43	Yes	Caribou	1	Trotting/running	N/A	50	39	East	No		-96.27514	64.59586			No	Not Exceeded	
Incidental	2022-08-25 12:05	Yes	Caribou	3	Walking	E	100	49	East	No		-96.37072	64.6688			No	Not Exceeded	
Incidental	2022-08-25 13:04	Yes	Muskox	1	Walking	E	25	91	West	No		-96.22486	64.98469			No	Not Exceeded	
Road	2022-08-26 7:00	Yes	Caribou	1	Feeding	N/A	100	100	East	No		-96.14649	65.04884			No	Not Exceeded	
Road	2022-08-26 7:00	Yes	Caribou	1	Foraging	N/A	100	99	West	No		-96.15317	65.04196			No	Not Exceeded	
Road	2022-08-26 7:00	Yes	Snow goose	100	Standing	N/A	30	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-08-26 7:00	Yes	Snow goose	100	Standing	N/A	300	90	East	No		-96.22208	64.97501			No	Not Exceeded	
Road	2022-08-26 7:00	Yes	Caribou	1	Foraging	N/A	25	85	East	No		-96.26143	64.93886			No	Not Exceeded	
Road	2022-08-26 7:00	Yes	Canada goose	50	Foraging	N/A	50	84	East	No		-96.28276	64.9366			No	Not Exceeded	
Road	2022-08-26 7:00	Yes	Canada goose	10	Standing	N/A	30	83	West	No		-96.30111	64.935			No	Not Exceeded	
Road	2022-08-26 7:00	Yes	Sandhill crane	4	Walking	N/A	20	81	West	No		-96.30208	64.92518			No	Not Exceeded	
Road	2022-08-26 7:00	Yes	Snow goose	12	Walking	N/A	30	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-08-26 7:00	Yes	Snow goose	50	Standing	N/A	200	22	East	No		-96.11256	64.4935			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-08-26 7:00	Yes	Muskox	23	Lying Down	N/A	500	8	West	No		-96.01547	64.38131			No	Exceeded	Speed restriction put in place.
Road	2022-08-27 12:30	Yes	Muskox	8	Walking	E	0	12	Both	Yes		-96.02992	64.41394			No	Not Exceeded	
Road	2022-08-27 12:30	Yes	Caribou	2	Walking	S	300	58	East	No		-96.35794	64.74165			No	Not Exceeded	
Road	2022-08-27 12:30	Yes	Muskox	1	Foraging	N/A	600	83	West	No		-96.30111	64.935			No	Not Exceeded	
Road	2022-08-27 12:30	Yes	Caribou	2	Foraging	N	250	102	East	No		-96.12783	65.0517			No	Not Exceeded	
Road	2022-08-28 11:59	Yes	Caribou	1	Foraging	S	60	79	East	No		-96.31492	64.90953			No	Not Exceeded	
Road	2022-08-28 11:59	Yes	Muskox	1	Resting	N/A	100	89	East	No		-96.21956	64.96744			No	Not Exceeded	
Road	2022-08-28 11:59	Yes	Caribou	5	Resting	N/A	300	97	West	No		-96.17115	65.02594			No	Not Exceeded	
Road	2022-08-28 11:59	Yes	Caribou	2	Foraging	W	500	101	West	No		-96.14029	65.05669			No	Not Exceeded	
Road	2022-08-28 11:59	Yes	Caribou	3	Walking	W	0	104	East	Yes		-96.09721	65.04458			No	Not Exceeded	
Road	2022-08-30 7:25	Yes	Caribou	2	Feeding	W	125	106	East	No		-96.08289	65.02713			No	Not Exceeded	
Incidental	2022-08-30 14:17	Yes	Caribou	2	Feeding	Not Recorded	65	98	West,East	No	The one on East side is feeding and not crossing.	-96.15765	65.03248			No	Not Exceeded	
Road	2022-08-30 15:02	No					NA					NA	NA					
Road	2022-08-31 6:41	Yes	Muskox	1	Resting	N/A	600	42	West	No		-96.2949	64.62757			No	Not Exceeded	
Road	2022-08-31 6:41	Yes	Caribou	6	Walking	SE	550	75	East	No		-96.33614	64.87946			No	Not Exceeded	
Road	2022-08-31 6:41	Yes	Caribou	3	Feeding	NW	100	82	East	No		-96.31204	64.9306			No	Not Exceeded	
Incidental	2022-08-31 16:30	Yes	Caribou	1	Feeding	N/A	80	98	West	No		-96.15765	65.03248			No	Not Exceeded	
Incidental	2022-08-31 16:43	Yes	Caribou	2	Feeding	N/A	200	88	East	No		-96.2206	64.95809			No	Not Exceeded	
Incidental	2022-08-31 16:55	Yes	Caribou	1	Walking	N/A	125	80	East	No		-96.30624	64.91707			No	Not Exceeded	
Incidental	2022-08-31 17:46	Yes	Muskox	14	Resting	N/A	350	42	West	No		-96.2949	64.62757			No	Exceeded	Speed restriction put in place.
Road	2022-09-01 7:02	Yes	Muskox	1	Feeding	N	450	5	West	No		-95.99998	64.35657			No	Not Exceeded	
Road	2022-09-01 7:02	Yes	Caribou	5	Feeding	N	150	59	West	No		-96.37059	64.74953			No	Not Exceeded	
Road	2022-09-01 7:02	Yes	Muskox	1	Feeding	W	30	89	East	No		-96.21956	64.96744			No	Not Exceeded	
Road	2022-09-01 7:02	Yes	Caribou	4	Resting	N/A	100	103	East	No		-96.11079	65.0489			No	Not Exceeded	
Incidental	2022-09-01 15:11	Yes	Caribou	1	Feeding	NE	80	106	South	No		-96.08289	65.02713			No	Not Exceeded	
Incidental	2022-09-01 17:08	Yes	Muskox	8	Feeding	N/A	500	16	East	No		-96.06242	64.44628			No	Not Exceeded	
Road	2022-09-02 8:01	Yes	Muskox	17	Resting	N/A	200	12	East	No		-96.02992	64.41394			No	Exceeded	Speed restriction was put in place from 97 to 99 km
Road	2022-09-02 8:01	Yes	Muskox	8	Resting	N/A	500	16	East	No		-96.06242	64.44628			No	Not Exceeded	
Road	2022-09-02 8:01	Yes	Muskox	2	Feeding	N/A	850	43	West	No		-96.3007	64.63477			No	Not Exceeded	
Road	2022-09-02 8:01	Yes	Caribou	1	Feeding	N	25	98	East	No		-96.15765	65.03248			No	Not Exceeded	
Road	2022-09-06 7:04	Yes	Arctic hare	3	Walking	S	1	105	East	Yes		-96.08773	65.03413			No	Not Exceeded	
Road	2022-09-07 6:37	Yes	Muskox	1	Walking	NW	85	6	West	No		-96.00083	64.36427			No	Not Exceeded	
Road	2022-09-07 6:37	Yes	Muskox	15	Feeding	N/A	120	11	East	No		-96.02386	64.40539			No	Exceeded	Speed restriction was implemented from Km 10 to 12
Road	2022-09-07 6:37	Yes	Muskox	5	Feeding	NW	350	72	West	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-09-07 6:37	Yes	Caribou	7	Walking	N	1250	75	East	No		-96.33614	64.87946			No	Not Exceeded	
Road	2022-09-08 7:31	Yes	Caribou	2	Feeding	N/A	275	21	East	No		-96.1045	64.48693			No	Not Exceeded	
Road	2022-09-08 7:31	Yes	Muskox	2	Resting	N/A	350	90	West	No		-96.22208	64.97501			No	Not Exceeded	
Incidental	2022-09-08 12:55	Yes	Muskox	1	Feeding	N	55	95	West	No		-96.19522	65.01286			No	Not Exceeded	
Incidental	2022-09-08 13:06	Yes	Muskox	3	Feeding	N/A	8	89	East	No		-96.21956	64.96744			No	Not Exceeded	
Incidental	2022-09-08 14:51	Yes	Muskox	1	Walking	N	500	12	East	No		-96.02992	64.41394			No	Not Exceeded	
Road	2022-09-09 7:20	Yes	Muskox	2	Resting	N/A	325	18	East	No		-96.0824	64.46103			No	Not Exceeded	
Road	2022-09-09 7:20	Yes	Muskox	6	Feeding	N/A	400	20	East	No		-96.09597	64.47868			No	Not Exceeded	
Road	2022-09-09 7:20	Yes	Caribou	1	Walking	E	80	111	East	No		-96.02402	65.04815			No	Not Exceeded	
Incidental	2022-09-09 14:52	Yes	Muskox	6	Resting	N/A	200	101	East	No		-96.14029	65.05669			No	Not Exceeded	
Incidental	2022-09-09 15:05	Yes	Peregrine falcon	3	Flying	N/A	80	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Incidental	2022-09-09 16:12	Yes	Muskox	1	Feeding	N/A	75	43	West	No		-96.3007	64.63477			No	Not Exceeded	
Incidental	2022-09-09 16:32	Yes	Muskox	9	Resting	N/A	550	25	West	No		-96.14948	64.5142			No	Not Exceeded	
Road	2022-09-10 6:55	Yes	Muskox	1	Feeding	N/A	3	43	East	No		-96.3007	64.63477			No	Not Exceeded	
Road	2022-09-10 6:55	Yes	Muskox	13	Resting	N/A	100	53	West	No		-96.37309	64.70606			No	Not Exceeded	
Other	2022-09-11 10:08	Yes	Caribou	5	Feeding	S	40	106	West	No		-96.08289	65.02713			No	Not Exceeded	
Other	2022-09-11 10:08	Yes	Muskox	1	Resting	N/A	100	89	East	No		-96.21956	64.96744			No	Not Exceeded	
Other	2022-09-11 10:08	Yes	Snow goose	200	Feeding	N/A	30	88	West	No		-96.2206	64.95809			No	Not Exceeded	
Other	2022-09-11 10:08	Yes	Muskox	5	Resting	N/A	200	84	West	No		-96.28276	64.9366			No	Not Exceeded	
Other	2022-09-11 10:08	Yes	Caribou	1	Feeding	N/A	250	84	West	No		-96.28276	64.9366			No	Not Exceeded	
Other	2022-09-11 10:08	Yes	Snow goose	400	Feeding	N/A	200	81	East	No		-96.30208	64.92518			No	Not Exceeded	
Other	2022-09-11 10:08	Yes	Muskox	18	Walking	S	800	52	West	No		-96.37745	64.70086			No	Exceeded	Speed restriction was implemented
Road	2022-09-12 12:57	Yes	Caribou	25	Foraging	S	400	58	East	No		-96.35794	64.74165			No	Not Exceeded	
Road	2022-09-12 13:37	Yes	Caribou	19	Foraging	NW	400	27	East	No		-96.16125	64.53222			No	Not Exceeded	
Road	2022-09-12 13:37	Yes	Caribou	2	Foraging	N	300	42	East	No		-96.2949	64.62757			No	Not Exceeded	
Road	2022-09-12 13:37	Yes	Caribou	6	Foraging	N	200	53	West	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-09-12 13:37	Yes	Caribou	12	Foraging	SW	100	58	West	Yes		-96.35794	64.74165			No	Not Exceeded	
Road	2022-09-12 13:37	Yes	Caribou	23	Foraging	N	500	32	East	No		-96.20446	64.56469			No	Not Exceeded	
Road	2022-09-12 13:37	Yes	Caribou	8	Foraging	N	600	30	East	No		-96.19577	64.55431			No	Not Exceeded	
Road	2022-09-12 13:37	Yes	Caribou	98	Foraging	N	400	15	East	No		-96.0525	64.43981			No	Exceeded	HTO implemented a speed restriction
Road	2022-09-13 13:23	Yes	Caribou	15	Foraging	N	100	76100	East	No		-96.07335	65.02124			No	Not Exceeded	
Road	2022-09-13 13:23	Yes	Caribou	11	Foraging	S	300	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-09-13 13:23	Yes	Caribou	13	Foraging	E	300	61	East	No		-96.35467	64.76327			No	Not Exceeded	
Road	2022-09-13 14:41	Yes	Caribou	66	Foraging	N	200	29	East	No		-96.18125	64.54733			No	Exceeded	HTO implemented a speed restriction
Road	2022-09-13 14:41	Yes	Caribou	101	Walking	SW	100	15	West	Yes		-96.0525	64.43981			No	Exceeded	HTO implemented a speed restriction
Road	2022-09-14 16:34	Yes	Caribou	17	Foraging	S	500	20	East	No		-96.09597	64.47868			No	Not Exceeded	
Road	2022-09-14 16:34	Yes	Caribou	13	Foraging	N	500	22	East	No		-96.11256	64.4935			No	Not Exceeded	
Road	2022-09-14 16:34	Yes	Caribou	3	Foraging	S	100	73	East	No		-96.32423	64.86213			No	Not Exceeded	
Road	2022-09-14 16:34	Yes	Caribou	45	Walking	SW	50	16	Both	Yes		-96.06242	64.44628			No	Exceeded	HTO implemented a speed restriction
Road	2022-09-16 8:09	Yes	Caribou	13	Foraging	W	890	33	East	No		-96.21631	64.57146			No	Not Exceeded	
Road	2022-09-16 8:09	Yes	Caribou	1	Foraging	N/A	800	28	East	No		-96.17013	64.54131			No	Not Exceeded	
Road	2022-09-16 8:09	Yes	Caribou	2	Foraging	N/A	500	75	East	No		-96.33614	64.87946			No	Not Exceeded	
Road	2022-09-16 8:09	Yes	Caribou	1	Running	E	0	93	East	Yes		-96.22197	65.00077			No	Not Exceeded	
Road	2022-09-16 8:09	Yes	Muskox	2	Walking	S	0	94	West	Yes		-96.21269	65.00751			No	Not Exceeded	
Road	2022-09-17 7:40	Yes	Caribou	2	Walking	S	480	89	West	No		-96.21956	64.96744			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-09-17 7:40	Yes	Caribou	2	Trotting/running	E	400	34	East	No		-96.24047	64.56875			No	Not Exceeded	
Road	2022-09-18 8:16	Yes	Caribou	2	Walking	W	0	102	Both	Yes		-96.12783	65.0517			No	Not Exceeded	
Road	2022-09-18 8:16	Yes	Caribou	30	Foraging	E	700	29	East	Deflection		-96.18125	64.54733			No	Exceeded	ATV's disturbed the group and they got spread out
Road	2022-09-18 8:16	Yes	Wolf	4	Foraging	N/A	990	45	East	No		-96.31336	64.65243			No	Not Exceeded	
Road	2022-09-18 8:16	Yes	Caribou	2	Walking	N	150	75	East	No		-96.33614	64.87946			No	Not Exceeded	
Road	2022-09-18 8:16	Yes	Caribou	1	Foraging	N/A	900	85	East	No		-96.26143	64.93886			No	Not Exceeded	
Road	2022-09-18 8:16	Yes	Muskox	1	Walking	W	0	88	East	Yes		-96.2206	64.95809			No	Not Exceeded	
Road	2022-09-18 8:16	Yes	Caribou	1	Foraging	N/A	300	88	East	No		-96.2206	64.95809			No	Not Exceeded	
Road	2022-09-19 10:32	Yes	Muskox	29	Resting	N/A	1000	39	West	No		-96.27514	64.59586			No	Exceeded	Speed restriction put in place.
Road	2022-09-19 10:32	Yes	Caribou	3	Foraging	N/A	300	108	East	No		-96.08468	65.02733			No	Not Exceeded	
Road	2022-09-20 10:40	Yes	Caribou	3	Walking	S	100	50	West	No		-96.3731	64.67942			No	Not Exceeded	
Road	2022-09-20 10:40	Yes	Caribou	6	Foraging	S	50	105	East	No		-96.08773	65.03413			No	Not Exceeded	
Road	2022-09-20 10:40	Yes	Caribou	2	Foraging	NW	300	76	East	No		-96.34565	64.88789			No	Not Exceeded	
Road	2022-09-20 15:16	No					NA					NA	NA					
Road	2022-09-21 13:38	Yes	Caribou	4	Foraging	E	1000	39	East	No		-96.27514	64.59586			No	Not Exceeded	
Road	2022-09-21 13:38	Yes	Caribou	6	Running	E	20	49	East	No		-96.37072	64.6688			No	Not Exceeded	
Road	2022-09-21 13:38	Yes	Caribou	10	Foraging	N	200	51	East	No		-96.37907	64.69323			No	Not Exceeded	
Road	2022-09-21 13:38	Yes	Caribou	5	Foraging	N	100	60	West	No		-96.36363	64.75548			No	Not Exceeded	
Road	2022-09-22 8:57	Yes	Wolf	3	Walking	S	1200	61	East	No		-96.35467	64.76327			No	Not Exceeded	
Road	2022-09-22 8:57	Yes	Muskox	20	Resting	N/A	300	49	West	No		-96.37072	64.6688			No	Exceeded	Speed restriction implemented
Road	2022-09-22 8:57	Yes	Caribou	11	Foraging	NE	120	36	East	No		-96.26192	64.58043			No	Not Exceeded	
Road	2022-09-25 13:07	Yes	Ptarmigan	25	Foraging	N/A	300	9	East	No		-96.0143	64.38902			No	Not Exceeded	
Road	2022-09-25 13:07	Yes	Muskox	25	Resting	N/A	2000	20	East	No		-96.09597	64.47868			No	Exceeded	More than 1.5km from the road. None needed
Road	2022-09-25 13:07	Yes	Caribou	40	Foraging	W	1100	44	East	No		-96.30352	64.64171			No	Not Exceeded	
Road	2022-09-25 13:07	Yes	Caribou	31	Foraging	N/A	1000	70	East	No		-96.31652	64.83649			No	Not Exceeded	
Road	2022-09-25 13:07	Yes	Arctic fox	2	Walking	N	30	75	East	No		-96.33614	64.87946			No	Not Exceeded	
Road	2022-09-25 13:07	Yes	Muskox	20	Foraging	N/A	800	94	West	No		-96.21269	65.00751			No	Exceeded	Partial closure due to caribou.
Road	2022-09-27 8:05	No					NA					NA	NA					
Incidental	2022-09-27 14:09	Yes	Muskox	2	Resting	N/A	50	94	West			-96.21269	65.00751			No	Not Exceeded	
Road	2022-09-28 9:17	Yes	Caribou	9	Foraging	E	300	41	East	No		-96.28113	64.62028			No	Not Exceeded	
Road	2022-09-28 9:17	Yes	Caribou	52	Foraging	S	2000	60	East	No		-96.36363	64.75548			No	Not Exceeded	
Road	2022-09-28 9:17	Yes	Caribou	67	Resting	W	300	46	East	No		-96.32957	64.65622			No	Not Exceeded	
Road	2022-09-29 7:33	Yes	Muskox	4	Feeding	W	45	95	West	No		-96.19522	65.01286			No	Not Exceeded	
Incidental	2022-09-29 11:22	Yes	Caribou	1	Dead	N/A	0	67		No	No bullet hole was seen. A bit of blood comming out of his mouth. Seem to have something weird with his behinde, black matter and flesh was seen	-96.3262	64.81233		Unknown - The night road crew saw a dead caribou on the road they moved it on the side of the road. The next morning the environment crew brought the caribou to Russel. For now the death of the caribou is unknown. Waiting for russel investigation	No	Not Exceeded	
Incidental	2022-09-29 11:32	Yes	Caribou	14	Walking	N	1000	30	East	No		-96.19577	64.55431			No	Not Exceeded	
Road	2022-09-30 7:30	Yes	Muskox	4	Feeding	N/A	30	95	East	No		-96.19522	65.01286			No	Not Exceeded	
Road	2022-09-30 7:30	Yes	Muskox	1	Feeding	N/A	15	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Incidental	2022-09-30 13:14	Yes	Snowy owl	1	Standing	Not Recorded	70	54	East	No		-96.35835	64.71319			No	Not Exceeded	
Incidental	2022-09-30 13:29	Yes	Caribou	7	Feeding	N/A	1500	61	East	No		-96.35467	64.76327			No	Not Exceeded	
Road	2022-10-01 7:24	Yes	Muskox	4	Foraging	N/A	100	95	East	No		-96.19522	65.01286			No	Not Exceeded	
Road	2022-10-01 7:24	Yes	Caribou	30	Foraging	N/A	3000	63	East	No		-96.34437	64.77932			No	Not Exceeded	
Road	2022-10-02 8:03	No					NA					NA	NA					
Incidental	2022-10-02 12:08	Yes	Caribou	5	Feeding	S	600	60		No		-96.36363	64.75548			No	Not Exceeded	
Road	2022-10-03 8:12	Yes	Muskox	3	Feeding	Not Recorded	20	98	West	No		-96.15765	65.03248			No	Not Exceeded	
Road	2022-10-03 8:12	Yes	Caribou	12	Walking	E	700	67	East	No		-96.3262	64.81233			No	Not Exceeded	
Road	2022-10-03 8:12	Yes	Caribou	32	Feeding	Not Recorded	300	66	East	No		-96.33501	64.80451			No	Not Exceeded	
Road	2022-10-03 8:12	Yes	Caribou	30	Feeding	Not Recorded	800	60	East	No		-96.36363	64.75548			No	Not Exceeded	
Road	2022-10-03 8:12	Yes	Caribou	59	Lying Down	Not Recorded	200	58	East	No		-96.35794	64.74165			No	Not Exceeded	
Road	2022-10-03 8:12	Yes	Caribou	128	Walking	N	150	57	East	No		-96.36013	64.73137			No	Exceeded	Road Closed
Road	2022-10-03 8:12	Yes	Caribou	26	Walking	NE	200	55	East	No		-96.34597	64.71855			No	Not Exceeded	
Road	2022-10-03 8:12	Yes	Caribou	30	Walking	N	150	54	East	No		-96.35835	64.71319			No	Not Exceeded	
Road	2022-10-03 8:12	Yes	Caribou	92	Walking	N	200	26	East	No		-96.16146	64.52353			No	Not Exceeded	
Road	2022-10-03 8:12	Yes	Caribou	54	Feeding	N	900	23	East	No		-96.12442	64.50056			No	Not Exceeded	
Road	2022-10-03 8:12	Yes	Caribou	96	Walking	W	1000	15	East	No		-96.0525	64.43981			No	Not Exceeded	
Road	2022-10-04 10:55	Yes	Caribou	28	Running	E	3000	21	East	No	Running away from hunters	-96.1045	64.48693			No	Not Exceeded	
Road	2022-10-04 10:55	Yes	Caribou	224	Feeding	N/A	1000	32	East	No		-96.20446	64.56469			No	Exceeded	Road was closed
Road	2022-10-04 10:55	Yes	Caribou	16	Feeding	N	400	58	East	No		-96.35794	64.74165			No	Not Exceeded	
Road	2022-10-04 10:55	Yes	Caribou	16	Walking	N	1500	67	East	No		-96.3262	64.81233			No	Not Exceeded	
Road	2022-10-04 10:55	Yes	Caribou	49	Walking	S	700	70	East	No		-96.31652	64.83649			No	Not Exceeded	
Road	2022-10-04 10:55	Yes	Caribou	48	Walking	N	700	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Incidental	2022-10-05 7:31	Yes	Caribou	250	Feeding	W	50	78	East	No		-96.32437	64.90319			No	Exceeded	Road was already closed
Incidental	2022-10-05 7:36	Yes	Caribou	21	Feeding	W	200	72	East	No		-96.32384	64.85386			No	Not Exceeded	
Incidental	2022-10-05 7:38	Yes	Caribou	12	Feeding	W	300	71	East	No		-96.3197	64.84471			No	Not Exceeded	
Incidental	2022-10-05 7:42	Yes	Caribou	35	Feeding	W	400	69	East	No		-96.31427	64.82772			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-10-05 8:23	Yes	Caribou	9	Feeding	W	500	29	East	No		-96.18125	64.54733			No	Not Exceeded	
Incidental	2022-10-05 8:58	Yes	Caribou	16	Feeding	W	400	16	East	No		-96.06242	64.44628			No	Not Exceeded	
Road	2022-10-05 15:04	Yes	Caribou	1	Alert	N/A	400	21	West	No		-96.1045	64.48693			No	Not Exceeded	
Road	2022-10-05 15:04	Yes	Caribou	42	Walking	NW	500	50	East	No		-96.3731	64.67942			No	Not Exceeded	
Road	2022-10-05 15:04	Yes	Caribou	57	Feeding	N/A	400	76	East	No		-96.34565	64.88789			No	Not Exceeded	
Road	2022-10-05 15:04	Yes	Muskox	5	Feeding	N/A	50	97	East	No		-96.17115	65.02594			No	Not Exceeded	
Road	2022-10-05 15:04	Yes	Muskox	7	Resting	N/A	125	98	West	No		-96.15765	65.03248			No	Not Exceeded	
Road	2022-10-06 6:33	Yes	Caribou	118	Running	W	1000	75	East	No		-96.33614	64.87946			No	Exceeded	Road was already closed
Road	2022-10-06 6:33	Yes	Caribou	80	Walking	W	600	61	West	No		-96.35467	64.76327			No	Not Exceeded	
Road	2022-10-06 6:33	Yes	Caribou	169	Walking	W	40	58	West	No		-96.35794	64.74165			No	Exceeded	Road was already closed
Road	2022-10-06 6:33	Yes	Caribou	43	Feeding	Not Recorded	400	50	East	No		-96.3731	64.67942			No	Not Exceeded	
Road	2022-10-07 7:23	Yes	Caribou	2	Walking	E	250	70	East	No		-96.31652	64.83649			No	Not Exceeded	
Road	2022-10-07 7:23	Yes	Caribou	66	Feeding	N/A	1000	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-10-07 7:23	Yes	Caribou	6	Feeding	N/A	800	67	East	No		-96.3262	64.81233			No	Not Exceeded	
Road	2022-10-07 7:23	Yes	Caribou	11	Walking	N	900	65	East	No		-96.34062	64.7948			No	Not Exceeded	
Road	2022-10-07 7:23	Yes	Caribou	84	Feeding	S	600	60	East	No		-96.36363	64.75548			No	Not Exceeded	
Road	2022-10-07 7:23	Yes	Caribou	72	Walking	S	200	51	East	No		-96.37907	64.69323			No	Not Exceeded	
Road	2022-10-07 7:23	Yes	Caribou	260	Walking	E	1200	20	East	No		-96.09597	64.47868			No	Exceeded	Road already closed
Road	2022-10-07 7:23	Yes	Caribou	104	Foraging	NW	1500	15	East	No		-96.0525	64.43981			No	Not Exceeded	
Road	2022-10-07 7:23	Yes	Caribou	5	Feeding	S	100	12	East	No		-96.02992	64.41394			No	Not Exceeded	
Road	2022-10-08 6:56	Yes	Caribou	12	Feeding	N/A	100	77	West	No		-96.33908	64.89511			No	Not Exceeded	
Road	2022-10-08 6:56	Yes	Caribou	10	Feeding	E	700	65	East	No		-96.34062	64.7948			No	Not Exceeded	
Road	2022-10-08 6:56	Yes	Caribou	14	Alert	E	50	60	West	Yes		-96.36363	64.75548			No	Not Exceeded	
Road	2022-10-08 6:56	Yes	Caribou	5	Running	S	500	54	East	No	Running from a fox chasing them	-96.35835	64.71319			No	Not Exceeded	
Road	2022-10-08 6:56	Yes	Caribou	294	Walking	W	160	48	East	Yes		-96.36878	64.66417			No	Exceeded	Road already closed
Road	2022-10-08 6:56	Yes	Caribou	203	Walking	S	900	15	East	No		-96.0525	64.43981			No	Exceeded	Road already closed
Road	2022-10-09 6:22	Yes	Wolf	14	Feeding	E	150	70	East	No		-96.31652	64.83649			No	Not Exceeded	
Road	2022-10-09 6:22	Yes	Caribou	96	Walking	N	100	61	East	No		-96.35467	64.76327			No	Not Exceeded	
Road	2022-10-09 6:22	Yes	Caribou	49	Walking	NE	500	47	East	No		-96.34656	64.65799			No	Not Exceeded	
Road	2022-10-09 6:22	Yes	Caribou	15	Standing	E	200	17	East	No		-96.07705	64.45326			No	Not Exceeded	
Road	2022-10-10 8:16	Yes	Caribou	33	Feeding	NE	400	77	East	No		-96.33908	64.89511			No	Not Exceeded	
Road	2022-10-11 8:50	Yes	Muskox	1	Resting	N/A	150	86	East	No		-96.2528	64.94684			No	Not Exceeded	
Road	2022-10-11 8:50	Yes	Caribou	4	Walking	NW	160	33	West	No		-96.21631	64.57146			No	Not Exceeded	
Road	2022-10-11 8:50	Yes	Caribou	5	Walking	W	300	21	West	No		-96.1045	64.48693			No	Not Exceeded	
Incidental	2022-10-11 13:39	Yes	Caribou	8	Foraging	N/A	160	42	West	No		-96.2949	64.62757			No	Not Exceeded	
Incidental	2022-10-11 15:01	Yes	Caribou	1	Walking	N	180	85	East	No		-96.26143	64.93886			No	Not Exceeded	
Road	2022-10-12 8:04	Yes	Caribou	10	Walking	W	350	77	West	No		-96.33908	64.89511			No	Not Exceeded	
Road	2022-10-12 8:04	Yes	Caribou	2	Walking	W	475	59	West	No		-96.37059	64.74953			No	Not Exceeded	
Road	2022-10-12 8:04	Yes	Caribou	18	Walking	W	250	6	West	No		-96.00083	64.36427			No	Not Exceeded	
Road	2022-10-13 1:49	Yes	Caribou	30	Foraging	W	250	72	West	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-10-13 1:49	Yes	Caribou	1	Walking	N	350	78	West	No		-96.32437	64.90319			No	Not Exceeded	
Road	2022-10-13 1:49	Yes	Muskox	12	Resting	N/A	550	96	West	No		-96.18089	65.0181			No	Not Exceeded	
Road	2022-10-14 15:09	No				NA						NA	NA					
Road	2022-10-16 16:11	Yes	Caribou	200	Foraging	E	2	18	Both	Yes		-96.0824	64.46103			No	Exceeded	Road closed
Road	2022-10-16 16:11	Yes	Muskox	14	Foraging	N/A	400	93	East	No		-96.22197	65.00077			No	Exceeded	Speed restriction put in place
Road	2022-10-17 9:40	Yes	Muskox	12	Walking	SE	300	93	West	No		-96.22197	65.00077			not applicable	Not Exceeded	
Road	2022-10-18 8:07	Yes	Muskox	15	Foraging	NE	150	91	West	No		-96.22486	64.98469			No	Exceeded	Speed restriction put in place
Road	2022-10-18 8:07	Yes	Caribou	100	Walking	N	150	38	East	No		-96.27582	64.59073			No	Not Exceeded	
Road	2022-10-19 10:08	Yes	Caribou	62	Foraging	NW	300	49	East	No		-96.37072	64.6688			No	Not Exceeded	
Road	2022-10-19 10:08	Yes	Caribou	3	Walking	E	30	88	East	No		-96.2206	64.95809			No	Not Exceeded	
Road	2022-10-21 12:05	Yes	Caribou	199	Foraging	NW	350	41	East	Deflection		-96.28113	64.62028			No	Exceeded	Road closed
Road	2022-10-22 8:00	Yes	Caribou	130	Walking	NW	2000	47	East	No		-96.34656	64.65799			No	Exceeded	Road Closed / Group is more than 1.5 KM away
Road	2022-10-22 8:00	Yes	Caribou	200	Foraging	NW	190	69	West	Deflection		-96.31427	64.82772			No	Exceeded	Close the road
Road	2022-10-23 8:25	Yes	Caribou	4	Foraging	SE	400	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-10-23 8:25	Yes	Caribou	150	Walking	W	250	46	East	No		-96.32957	64.65622			No	Exceeded	Road Closed
Road	2022-10-23 8:25	Yes	Caribou	310	Walking	W	0	60	Both	Yes		-96.36363	64.75548			No	Exceeded	Road Closed
Road	2022-10-24 7:36	Yes	Caribou	1	Alert	S	600	63	East	No		-96.34437	64.77932			No	Not Exceeded	
Incidental	2022-10-24 12:28	Yes	Caribou	12	Resting	N/A	400	42	East	No		-96.2949	64.62757			No	Not Exceeded	
Road	2022-10-25 13:48	Yes	Caribou	2	Foraging	S	500	59	East	No		-96.37059	64.74953			No	Not Exceeded	
Road	2022-10-25 14:35	Yes	Caribou	28	Walking	N	500	25	East	No		-96.14948	64.5142			No	Not Exceeded	
Road	2022-10-25 14:35	Yes	Caribou	9000	Walking	N	50	2	East	No		-95.97432	64.33258			No	Exceeded	Road closed
Road	2022-10-26 9:28	Yes	Caribou	402	Foraging	NW	100	1	East	No		-95.9717	64.32525			No	Exceeded	Road closed
Road	2022-10-26 9:28	Yes	Caribou	1	Walking	N	200	12	East	No		-96.02992	64.41394			No	Not Exceeded	
Road	2022-10-26 9:28	Yes	Caribou	2200	Foraging	W	40	1	East	No		-95.9717	64.32525			No	Exceeded	Road closed
Road	2022-10-26 9:28	Yes	Caribou	8	Foraging	S	300	8	East	No		-96.01547	64.38131			No	Not Exceeded	
Road	2022-10-26 9:28	Yes	Caribou	142	Walking	N	50	5	East	No		-95.99998	64.35657			not applicable	Exceeded	Road closed
Road	2022-10-26 9:28	Yes	Caribou	4000	Walking	W	5	5	Both	Yes		-95.99998	64.35657			No	Exceeded	Road closed
Road	2022-10-26 9:28	Yes	Caribou	55	Foraging	N	100	9	East	No		-96.0143	64.38902			No	Not Exceeded	
Road	2022-10-27 13:55	Yes	Muskox	5	Lying Down	N/A	10	89	East	No		-96.21956	64.96744			No	Not Exceeded	
Road	2022-10-27 13:55	Yes	Caribou	20	Running	S	300	85	East	No		-96.26143	64.93886			No	Not Exceeded	
Road	2022-10-27 13:55	Yes	Caribou	3	Walking	W	400	78	West	No		-96.32437	64.90319			No	Not Exceeded	
Road	2022-10-27 13:55	Yes	Caribou	1	Feeding	N/A	300	66	East	No		-96.33501	64.80451			No	Not Exceeded	
Road	2022-10-27 13:55	Yes	Caribou	420	Walking	W	0	19	Both	Yes		-96.0866	64.4702			No	Exceeded	Road closed
Road	2022-10-27 13:55	Yes	Caribou	210	Lying Down	N/A	0	14	Both	Yes	About 20 of them crossed from west to east	-96.043	64.43121			No	Exceeded	Road closed
Road	2022-10-27 13:55	Yes	Caribou	310	Walking	N	200	11	East	No		-96.02386	64.40539			No	Exceeded	Road closed
Road	2022-10-27 13:55	Yes	Caribou	200	Feeding	N/A	150	8	East	No		-96.01547	64.38131			No	Exceeded	Road closed
Road	2022-10-27 13:55	Yes	Caribou	3	Walking	N	800	2	East	No		-95.97432	64.33258			No	Not Exceeded	
Road	2022-10-27 13:55	Yes	Caribou	56	Feeding	N/A	1000	0	East	No		-95.971	64.32312			No	Not Exceeded	
Road	2022-10-28 13:20	Yes	Caribou	31	Feeding	N/A	1000	81	East	N/A		-96.30208	64.92518			No	Not Exceeded	
Road	2022-10-28 13:20	Yes	Caribou	220	Walking	N	284	24	East	No		-96.13651	64.50789			No	Exceeded	Road is already close
Road	2022-10-28 13:20	Yes	Muskox	7	Standing	N/A	112	24	West	N/A		-96.13651	64.50789			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-10-28 13:20	Yes	Caribou	54	Walking	N	273	22	East	N/A		-96.11256	64.4935			No	Not Exceeded	
Road	2022-10-28 13:20	Yes	Caribou	162	Walking	N	202	21	East	No		-96.11045	64.48693			No	Exceeded	Road is already close
Road	2022-10-28 13:20	Yes	Caribou	46	Resting	N/A	794	15	East	N/A		-96.0525	64.43981			No	Not Exceeded	
Road	2022-10-28 13:20	Yes	Caribou	7	Feeding	N/A	276	13	East	N/A		-96.03681	64.42344			No	Not Exceeded	
Road	2022-10-28 13:20	Yes	Caribou	134	Walking	N	437	12	East	N/A		-96.02992	64.41394			No	Exceeded	Road already closed
Road	2022-10-29 9:15	Yes	Caribou	50	Foraging	E	200	71	East	No		-96.3197	64.84471			No	Not Exceeded	
Road	2022-10-29 9:15	Yes	Caribou	160	Walking	N	800	44	East	No		-96.30352	64.64171			No	Exceeded	Road closed
Road	2022-10-29 9:15	Yes	Caribou	165	Walking	NW	300	10	East	No		-96.01786	64.3971			No	Exceeded	Road closed
Road	2022-10-29 9:15	Yes	Caribou	48	Resting	N/A	100	8	East	No		-96.01547	64.38131			No	Not Exceeded	
Road	2022-10-30 8:13	Yes	Muskox	5	Lying Down	N/A	150	89	East	No		-96.21956	64.96744			No	Not Exceeded	
Road	2022-10-30 8:13	Yes	Caribou	35	Walking	W	600	67	East	No		-96.3262	64.81233			No	Not Exceeded	
Road	2022-10-30 8:13	Yes	Caribou	155	Walking	W	400	61	East	No		-96.35467	64.76327			No	Exceeded	Road Closed
Road	2022-10-30 8:13	Yes	Caribou	2	Standing	Not Recorded	600	32	East	No		-96.20446	64.56469			No	Not Exceeded	
Road	2022-10-30 8:13	Yes	Caribou	43	Walking	NW	1800	23	East	No		-96.12442	64.50056			No	Not Exceeded	
Road	2022-10-30 8:13	Yes	Caribou	51	Standing	Not Recorded	1000	11	East	No		-96.02386	64.40539			No	Not Exceeded	
Road	2022-10-30 8:13	Yes	Caribou	34	Walking	NE	600	2	East	No		-95.97432	64.33258			No	Not Exceeded	
Incidental	2022-10-30 13:41	Yes	Caribou	5	Walking	S	900	78	East	No		-96.32437	64.90319			No	Not Exceeded	
Incidental	2022-10-30 14:42	Yes	Caribou	310	Walking	NE	2500	65	East	No		-96.34062	64.7948			No	Exceeded	Road Closed / Group is more than 1.5 KM away
Road	2022-10-31 8:26	No					NA					NA	NA					
Road	2022-11-01 10:10	Yes	Caribou	50	Walking	NE	300	79	East	No		-96.31492	64.90953			No	Not Exceeded	
Road	2022-11-01 10:10	Yes	Caribou	15	Trotting/running	N	400	77	East	No		-96.33908	64.89511			No	Not Exceeded	
Road	2022-11-01 10:10	Yes	Caribou	16	Foraging	N/A	100	47	East	No		-96.34656	64.65799			No	Not Exceeded	
Road	2022-11-02 8:45	Yes	Caribou	236	Walking	S	600	92	East	No		-96.22191	64.99435			No	Exceeded	Road closure
Road	2022-11-02 8:45	Yes	Caribou	21	Walking	N	400	79	East	No		-96.31492	64.90953			No	Not Exceeded	
Road	2022-11-02 8:45	Yes	Caribou	8	Feeding	N/A	700	76	East	No		-96.34565	64.88789			No	Not Exceeded	
Incidental	2022-11-02 15:24	Yes	Caribou	124	Walking	W	500	81	East	Yes		-96.30208	64.92518			No	Exceeded	Closed the roadStopped all traffic and closed the road.
Incidental	2022-11-02 15:27	Yes	Caribou	338	Walking	W	0	81	East	Yes		-96.30208	64.92518			not applicable	Exceeded	Road closureStopped all traffic and closed the road.
Incidental	2022-11-02 16:27	Yes	Caribou	87	Walking	W	500	83	East	Yes		-96.30111	64.935			No	Not Exceeded	
Incidental	2022-11-02 16:35	Yes	Caribou	76	Walking	SW	500	86	East	No		-96.2528	64.94684			No	Not Exceeded	
Road	2022-11-03 8:25	Yes	Caribou	26	Lying Down	N/A	1000	86	East	No		-96.2528	64.94684			No	Not Exceeded	
Road	2022-11-03 8:25	Yes	Caribou	36	Standing	N	250	72	East	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-11-03 8:25	Yes	Caribou	4	Walking	E	400	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-11-04 10:12	Yes	Caribou	7	Walking	E	600	87	East	No		-96.24102	64.9542			No	Not Exceeded	
Road	2022-11-04 10:12	Yes	Muskox	36	Lying Down	Not Recorded	100	47	West	No		-96.34656	64.65799			No	Exceeded	Speed restriction was put in place at 46 to 48 and removed at 14:10
Incidental	2022-11-04 13:57	Yes	Caribou	5	Standing	Not Recorded	10	10	East	No	Km 10 600m east side standing.	-96.01786	64.3971			No	Not Exceeded	
Incidental	2022-11-04 13:57	Yes	Caribou	18	Walking	N	1200	63	East	No	Km 63 1200m east walking north.	-96.34437	64.77932			No	Not Exceeded	
Incidental	2022-11-04 13:57	Yes	Caribou	22	Walking	S	1100	78	East	No	Km 78 east walking south 1100m.	-96.32437	64.90319			No	Not Exceeded	
Road	2022-11-05 8:23	Yes	Caribou	7	Walking	E	400	24	East	No		-96.13651	64.50789			No	Not Exceeded	
Road	2022-11-08 6:36	Yes	Caribou	270	Walking	W	0	9	Both	Yes		-96.0143	64.38902			No	Exceeded	Road closure
Road	2022-11-08 6:36	Yes	Caribou	3	Walking	W	700	6	East	No		-96.00083	64.36427			No	Not Exceeded	
Road	2022-11-08 6:36	Yes	Caribou	60	Walking	E	2000	5	East	No		-95.99998	64.35657			No	Not Exceeded	
Road	2022-11-08 8:51	Yes	Muskox	6	Foraging	N/A	500	96	East	No		-96.18089	65.0181			No	Not Exceeded	
Road	2022-11-08 8:51	Yes	Caribou	3	Trotting/running	S	300	91	East	No		-96.22486	64.98469			No	Not Exceeded	
Road	2022-11-08 8:51	Yes	Caribou	8	Walking	S	120	79	East	No		-96.32362	64.90356			No	Not Exceeded	
Road	2022-11-08 8:51	Yes	Caribou	150	Walking	E	120	77	East	No		-96.33908	64.89511			No	Exceeded	Road already closed
Road	2022-11-08 8:51	Yes	Caribou	70	Walking	N	800	27	East	No		-96.16125	64.53222			No	Not Exceeded	
Road	2022-11-09 8:01	Yes	Caribou	3	Walking	W	50	82	East	Yes		-96.31204	64.9306			No	Not Exceeded	
Road	2022-11-09 8:01	Yes	Caribou	36	Walking	N	500	80	East	No		-96.30624	64.91707			No	Not Exceeded	
Road	2022-11-09 8:01	Yes	Caribou	12	Walking	S	800	75	East	No		-96.33614	64.87946			No	Not Exceeded	
Road	2022-11-09 8:01	Yes	Caribou	103	Standing	Not Recorded	300	57	East	No		-96.36013	64.73137			No	Not Exceeded	
Road	2022-11-09 8:01	Yes	Caribou	70	Walking	N	300	6	East	No		-96.00083	64.36427			No	Not Exceeded	
Road	2022-11-10 9:02	Yes	Caribou	21	Walking	NE	2000	73	East	No		-96.32423	64.86213			No	Not Exceeded	
Road	2022-11-10 9:02	Yes	Muskox	12	Foraging	N/A	300	66	West	No		-96.33501	64.80451			No	Not Exceeded	
Road	2022-11-10 9:02	Yes	Caribou	2	Walking	NE	200	31	East	No		-96.19574	64.55426			No	Not Exceeded	
Road	2022-11-10 9:02	Yes	Caribou	6	Foraging	N/A	300	12	East	No		-96.02992	64.41394			No	Not Exceeded	
Incidental	2022-11-10 15:37	Yes	Caribou	60	Not recorded	Not Recorded	700	51	East	N/A		-96.37907	64.69323			No	Not Exceeded	
Incidental	2022-11-10 16:34	Yes	Muskox	66	Not recorded	Not Recorded	200	67	West	N/A		-96.3262	64.81233			No	Exceeded	Speed restriction put into place from KM 66-68
Incidental	2022-11-11 7:31	Yes	Arctic hare	1	Dead	N/A	0	15	East	N/A	On the road.	-96.0525	64.43981		Project-related	No	Not Exceeded	
Incidental	2022-11-11 7:31	Yes	Arctic hare	1	Dead	N/A	0	2	West	N/A	On the road.	-95.97432	64.33258		Project-related	No	Not Exceeded	
Road	2022-11-11 10:15	Yes	Caribou	1	Walking	N	500	82	West	No		-96.31204	64.9306			No	Not Exceeded	
Road	2022-11-11 10:15	Yes	Muskox	43	Resting	N/A	500	24	West	N/A		-96.13651	64.50789			No	Exceeded	Speed restriction km24-25
Road	2022-11-11 10:15	Yes	Muskox	1	Walking	W	60	61	West	No		-96.35467	64.76327			No	Not Exceeded	
Road	2022-11-12 9:43	Yes	Caribou	39	Walking	NE	400	94	East	No		-96.21269	65.00751			No	Not Exceeded	
Road	2022-11-12 9:43	Yes	Caribou	24	Foraging	N/A	500	79	East	No		-96.31492	64.90953			No	Not Exceeded	
Road	2022-11-12 9:43	Yes	Muskox	9	Foraging	N/A	700	74	West	No		-96.33028	64.87523			No	Not Exceeded	
Road	2022-11-12 9:43	Yes	Caribou	25	Foraging	N/A	500	44	East	N/A		-96.30352	64.64171			No	Not Exceeded	
Road	2022-11-12 9:43	Yes	Muskox	39	Foraging	N/A	800	24	West	No		-96.13651	64.50789			No	Exceeded	Speed restriction km24-25
Road	2022-11-12 9:43	Yes	Caribou	350	Walking	N	800	22	East	No		-96.11256	64.4935			No	Exceeded	Closing the road at 11:45 am for all vehicules
Road	2022-11-12 9:43	Yes	Caribou	200	Walking	N	1000	24	East	No		-96.13651	64.50789			No	Exceeded	Road is close since 11:45
Road	2022-11-12 9:43	Yes	Caribou	160	Walking	N	550	23	East	No		-96.12442	64.50056			No	Exceeded	Road is close since 11:45 am
Road	2022-11-12 9:43	Yes	Caribou	220	Walking	N	500	21	East	No		-96.1045	64.48693			No	Exceeded	Road is close since 11:45 am
Road	2022-11-12 9:43	Yes	Caribou	100	Trotting/running	N	1000	20	East	No	2 hunters are firing at the group making them run and trotting north direction	-96.09597	64.47868			No	Not Exceeded	
Road	2022-11-13 9:36	Yes	Muskox	1	Standing	N/A	300	95	East	N/A		-96.19522	65.01286			No	Not Exceeded	
Road	2022-11-13 9:36	Yes	Muskox	12	Foraging	N/A	1000	76	West	N/A		-96.34565	64.88789			No	Not Exceeded	
Road	2022-11-13 9:36	Yes	Caribou	21	Resting	N/A	300	72	East	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-11-13 9:36	Yes	Wolf	3	Walking	SW	800	46	West	N/A		-96.32957	64.65622			No	Not Exceeded	
Road	2022-11-13 9:36	Yes	Caribou	1	Dead	N/A	10	52	East	N/A		-96.37745	64.70086		Project non-related	No	Not Exceeded	
Road	2022-11-13 9:36	Yes	Caribou	4000	Walking	W	0	38	Both	Yes		-96.27582	64.59073			No	Exceeded	Road is close since the day before

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-11-13 9:36	Yes	Caribou	2000	Walking	NE	0	32	Both	No		-96.20446	64.56469			No	Exceeded	Road is close since the day before
Road	2022-11-13 9:36	Yes	Muskox	29	Resting	N/A	1000	26	West	No		-96.16146	64.52353			No	Exceeded	Road is close
Road	2022-11-13 9:36	Yes	Muskox	32	Resting	N/A	500	25	West	No		-96.14948	64.5142			No	Exceeded	Road is close
Road	2022-11-13 9:36	Yes	Caribou	150	Walking	N	300	21	West	No		-96.1045	64.48693			No	Exceeded	Road is close
Road	2022-11-13 9:36	Yes	Caribou	200	Foraging	N	250	19	East	No		-96.0866	64.4702			No	Exceeded	Road is close
Road	2022-11-13 9:36	Yes	Caribou	400	Walking	N	200	14	East	No		-96.043	64.43121			No	Exceeded	Road is close
Road	2022-11-13 9:36	Yes	Caribou	2000	Walking	W	2000	12	East	No	2 hunters facing north	-96.02992	64.41394			No	Exceeded	Road is close / Group is more than 1.5 KM away
Road	2022-11-14 7:35	Yes	Muskox	1	Foraging	N/A	400	54	West	No		-96.35835	64.71319			No	Not Exceeded	
Road	2022-11-14 7:35	Yes	Caribou	2	Foraging	N/A	250	53	East	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-11-14 7:35	Yes	Caribou	18	Foraging	NW	100	51	West	No		-96.37907	64.69323			No	Not Exceeded	
Road	2022-11-14 7:35	Yes	Caribou	17	Walking	S	500	48	East	No		-96.36878	64.66417			No	Not Exceeded	
Road	2022-11-14 7:35	Yes	Caribou	3	Walking	N	75	41	East	No		-96.28113	64.62028			No	Not Exceeded	
Road	2022-11-14 7:35	Yes	Caribou	100	Resting	N/A	1500	32	East	No		-96.20446	64.56469			No	Not Exceeded	
Road	2022-11-14 7:35	Yes	Caribou	100	Walking	N	750	30	East	No		-96.19577	64.55431			No	Not Exceeded	
Road	2022-11-14 7:35	Yes	Caribou	60	Walking	N	250	29	East	No		-96.18125	64.54733			No	Not Exceeded	
Road	2022-11-14 7:35	Yes	Caribou	41	Walking	N	1000	26	East	No		-96.16146	64.52353			No	Not Exceeded	
Road	2022-11-14 7:35	Yes	Muskox	70	Resting	N/A	700	25	West	No		-96.14948	64.5142			No	Exceeded	Road closed , speed restriction km23to26 if we reopen
Road	2022-11-14 7:35	Yes	Caribou	210	Walking	N	200	22	East	No		-96.11256	64.4935			No	Exceeded	Road closed, speed restriction km 24 to 20
Road	2022-11-14 7:35	Yes	Caribou	500	Walking	N	100	19	East	No		-96.0866	64.4702			No	Exceeded	Road already closed
Road	2022-11-14 7:35	Yes	Caribou	90	Walking	NE	1500	14	East	No		-96.043	64.43121			No	Not Exceeded	
Road	2022-11-14 7:35	Yes	Caribou	300	Walking	N	1500	13	East	No		-96.03681	64.42344			No	Exceeded	Road already closed
Road	2022-11-14 7:35	Yes	Caribou	18	Walking	NE	50	10	East	No		-96.01786	64.3971			No	Not Exceeded	
Road	2022-11-15 7:40	Yes	Muskox	10	Resting	N/A	200	81	West	No		-96.30208	64.92518			No	Not Exceeded	
Road	2022-11-15 7:40	Yes	Caribou	4	Walking	W	300	76	West	No		-96.34565	64.88789			No	Not Exceeded	
Road	2022-11-15 7:40	Yes	Caribou	3	Resting	N/A	100	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-11-15 7:40	Yes	Caribou	300	Foraging	N/A	100	53	East	No		-96.37309	64.70606			No	Exceeded	Road already closed, monitor on the way back
Road	2022-11-15 7:40	Yes	Caribou	1	Dead	N/A	10	50	West	No		-96.3731	64.67942		Project non-related	No	Not Exceeded	
Road	2022-11-15 7:40	Yes	Muskox	50	Foraging	N/A	50	25	West	No		-96.14948	64.5142			No	Exceeded	Road already closed
Road	2022-11-16 8:35	Yes	Muskox	6	Foraging	N/A	200	85	West	No		-96.26143	64.93886			No	Not Exceeded	
Road	2022-11-16 8:35	Yes	Caribou	6	Walking	N	300	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-11-16 8:35	Yes	Caribou	700	Walking	N	100	56	East	No		-96.35139	64.72588			No	Exceeded	Road closed already
Road	2022-11-16 8:35	Yes	Caribou	1000	Walking	N	75	51	East	No		-96.37907	64.69323			No	Exceeded	Road already closed
Road	2022-11-16 8:35	Yes	Caribou	40	Foraging	N/A	200	45	East	No		-96.31336	64.65243			No	Not Exceeded	
Road	2022-11-16 8:35	Yes	Caribou	3000	Walking	N	75	43	East	No		-96.3007	64.63477			No	Exceeded	Road is closed. Survey suspended at km43 and turned around after a conversation with HTO saying there is between 10000-15000 caribou between 38 an 15.Survey cancelled and heading back to MBK. To reasses tomorrow
Road	2022-11-17 9:03	Yes	Muskox	1	Foraging	N/A	100	96	East	No		-96.18089	65.0181			No	Not Exceeded	
Road	2022-11-17 9:03	Yes	Caribou	14	Walking	S	100	95	East	No		-96.19522	65.01286			No	Not Exceeded	
Road	2022-11-17 9:03	Yes	Caribou	16	Walking	S	400	93	East	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-11-17 9:03	Yes	Muskox	4	Foraging	N/A	1000	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-11-17 9:03	Yes	Caribou	42	Walking	S	75	92	East	No		-96.22191	64.99435			No	Not Exceeded	
Road	2022-11-17 9:03	Yes	Caribou	250	Standing	N/A	1000	90	East	No		-96.22208	64.97501			No	Exceeded	Rd closed
Road	2022-11-17 9:03	Yes	Caribou	36	Walking	NE	200	88	East	No		-96.2206	64.95809			No	Not Exceeded	
Road	2022-11-17 9:03	Yes	Caribou	31	Standing	N/A	2000	77	East	No		-96.33908	64.89511			No	Not Exceeded	
Road	2022-11-17 9:03	Yes	Caribou	11	Walking	S	200	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-11-17 9:03	Yes	Caribou	30	Walking	S	500	61	East	No		-96.35467	64.76327			No	Not Exceeded	
Road	2022-11-17 9:03	Yes	Caribou	290	Standing	N/A	1000	49	East	No		-96.37072	64.6688			No	Exceeded	Road closed
Road	2022-11-17 9:03	Yes	Caribou	100	Walking	NE	300	41	East	No		-96.28113	64.62028			No	Not Exceeded	
Road	2022-11-17 9:03	Yes	Muskox	41	Standing	N/A	500	29	West	No		-96.18125	64.54733			No	Exceeded	Road closed
Road	2022-11-17 9:03	Yes	Caribou	2	Walking	NE	100	21	East	No		-96.1045	64.48693			No	Not Exceeded	
Road	2022-11-18 8:40	Yes	Muskox	5	Feeding	N/A	50	93	West	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-11-18 8:40	Yes	Muskox	1	Standing	N/A	1000	91	East	No		-96.22486	64.98469			No	Not Exceeded	
Road	2022-11-18 8:40	Yes	Caribou	74	Walking	SW	100	81	East	No		-96.30208	64.92518			No	Not Exceeded	
Road	2022-11-18 8:40	Yes	Caribou	52	Standing	N/A	1000	80	East	No		-96.30624	64.91707			No	Not Exceeded	
Road	2022-11-18 8:40	Yes	Caribou	45	Standing	N/A	100	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-11-18 8:40	Yes	Caribou	31	Standing	N/A	300	67	East	No		-96.3262	64.81233			No	Not Exceeded	
Road	2022-11-18 8:40	Yes	Caribou	40	Standing	N/A	40	58	East	No		-96.35794	64.74165			No	Not Exceeded	
Road	2022-11-18 8:40	Yes	Caribou	12	Foraging	N/A	200	55	East	No		-96.34597	64.71855			No	Not Exceeded	
Road	2022-11-18 8:40	Yes	Caribou	103	Walking	S	100	53	East	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-11-18 8:40	Yes	Caribou	3000	Walking	S	100	50	East	No		-96.3731	64.67942			No	Exceeded	Road closed
Road	2022-11-18 8:40	Yes	Muskox	42	Standing	N/A	300	25	West	No		-96.14948	64.5142			No	Exceeded	Road closed
Incidental	2022-11-18 14:31	Yes	Muskox	12	Lying Down	N/A	200	88	West	No		-96.2206	64.95809			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	52	Standing	N/A	200	93	East	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	7	Standing	N/A	100	85	East	No		-96.26143	64.93886			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	9	Standing	N/A	100	82	East	No		-96.31204	64.9306			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	8	Standing	N/A	1000	73	East	No		-96.32423	64.86213			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	6	Standing	N/A	100	70	East	No		-96.31652	64.83649			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	43	Standing	N/A	100	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	153	Walking	W	0	68	East	Yes		-96.32681	64.82032			No	Exceeded	Road closed
Road	2022-11-19 8:45	Yes	Caribou	30	Standing	N/A	100	60	East	No		-96.36363	64.75548			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	80	Standing	N/A	50	57	East	No		-96.36013	64.73137			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	67	Standing	N/A	300	56	West	No		-96.35139	64.72588			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	41	Walking	S	300	51	East	No		-96.37907	64.69323			No	Not Exceeded	
Road	2022-11-19 8:45	Yes	Caribou	52	Walking	W	200	49	West	No		-96.37072	64.6688			No	Not Exceeded	
Incidental	2022-11-19 12:21	Yes	Muskox	43	Lying Down	N/A	300	25	North,West	No		-96.14948	64.5142			No	Exceeded	Road closed
Incidental	2022-11-19 12:21	Yes	Caribou	25	Standing	N/A	500	62	East	No		-96.3444	64.77373			No	Not Exceeded	
Incidental	2022-11-19 12:21	Yes	Muskox	3	Standing	N/A	600	96	West	No		-96.18089	65.0181			No	Not Exceeded	
Road	2022-11-20 8:46	Yes	Caribou	31	Walking	W	105	96	East	No		-96.18089	65.0181			No	Not Exceeded	

Table A-1: Wildlife Observations along the All Weather Access Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-11-20 8:46	Yes	Caribou	4	Foraging	N/A	150	89	West	No		-96.21956	64.96744			No	Not Exceeded	
Road	2022-11-20 8:46	Yes	Caribou	130	Foraging	NW	260	77	East	No		-96.33908	64.89511			No	Exceeded	Road already closed
Road	2022-11-20 8:46	Yes	Caribou	55	Walking	NW	580	75	East	No		-96.33614	64.87946			No	Not Exceeded	
Road	2022-11-20 8:46	Yes	Caribou	17	Walking	NW	560	69	East	No		-96.31427	64.82772			No	Not Exceeded	
Road	2022-11-20 8:46	Yes	Caribou	25	Foraging	NW	370	67	East	No		-96.3262	64.81233			No	Not Exceeded	
Road	2022-11-20 8:46	Yes	Caribou	150	Walking	NW	110	66	East	No		-96.33501	64.80451			No	Exceeded	Road already closed
Road	2022-11-20 8:46	Yes	Caribou	49	Walking	NW	200	64	East	No		-96.34001	64.78668			No	Not Exceeded	
Road	2022-11-20 8:46	Yes	Caribou	31	Foraging	SW	1200	60	East	No		-96.36363	64.75548			No	Not Exceeded	
Road	2022-11-20 8:46	Yes	Caribou	250	Walking	W	0	60	Both	Yes		-96.36363	64.75548			No	Exceeded	Road already closed
Road	2022-11-20 8:46	Yes	Muskox	48	Resting	N/A	140	25	West	No		-96.14948	64.5142			No	Exceeded	Road already closed
Road	2022-11-21 8:36	Yes	Caribou	200	Trotting/running	NE	300	105	East	No		-96.08773	65.03413			not applicable	Exceeded	Road closed
Road	2022-11-21 8:36	Yes	Caribou	30	Foraging	NE	100	97	East	No		-96.17115	65.02594			No	Not Exceeded	
Road	2022-11-21 8:36	Yes	Caribou	73	Walking	NW	530	74	East	No		-96.33028	64.87523			not applicable	Not Exceeded	
Road	2022-11-21 8:36	Yes	Caribou	23	Walking	SW	120	63	East	No		-96.34437	64.77932			No	Not Exceeded	
Road	2022-11-21 8:36	Yes	Caribou	150	Lying Down	N/A	1000	67	East	N/A		-96.3262	64.81233			No	Exceeded	Road closed
Incidental	2022-11-21 9:51	Yes	Caribou	200	Running		NA	48			200+ caribou, km48, 2 hunters make them run	-96.09597	64.47868				Exceeded	Road was already closed due to caribou presence.
Road	2022-11-22 5:22	Yes	Caribou	45	Standing	N/A	200	56	East	No		-96.35139	64.72588			No	Not Exceeded	
Road	2022-11-22 5:22	Yes	Caribou	50	Standing	N/A	300	68	East	No		-96.32681	64.82032			No	Not Exceeded	
Road	2022-11-22 5:22	Yes	Caribou	15	Standing	N/A	200	71	West	No		-96.3197	64.84471			No	Not Exceeded	
Road	2022-11-22 5:22	Yes	Caribou	4	Standing	N/A	1000	81	West	No		-96.30208	64.92518			No	Not Exceeded	
Road	2022-11-22 5:22	Yes	Caribou	4	Standing	N/A	1000	88	West	No		-96.2206	64.95809			No	Not Exceeded	
Road	2022-11-22 5:22	Yes	Caribou	6	Lying Down	N/A	300	91	West	No		-96.22486	64.98469			No	Not Exceeded	
Incidental	2022-11-22 11:30	Yes	Caribou	160	Walking	S	300	105	East	No	Third portage lake. Blind hill emr...	-96.08773	65.03413			No	Exceeded	Closed the road between explo and mbk
Road	2022-11-23 9:02	Yes	Caribou	60	Foraging	E	1000	87	West	No		-96.24102	64.9542			No	Not Exceeded	
Road	2022-11-23 9:02	Yes	Caribou	4	Foraging	N/A	450	48	West	No		-96.36878	64.66417			No	Not Exceeded	
Road	2022-11-23 9:02	Yes	Muskox	17	Foraging	N/A	740	92	West	No		-96.22191	64.99435			No	Exceeded	Speed restriction
Road	2022-11-24 8:45	Yes	Muskox	10	Lying Down	N/A	1000	91	West	No		-96.22486	64.98469			No	Not Exceeded	
Road	2022-11-24 8:45	Yes	Caribou	4	Standing	N/A	500	53	West	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-11-24 8:45	Yes	Muskox	40	Standing	N/A	50	25	West	No		-96.14948	64.5142			No	Exceeded	Speed restriction
Incidental	2022-11-24 13:30	Yes	Caribou	12	Standing	N/A	300	53	West	No		-96.37309	64.70606			No	Not Exceeded	
Road	2022-11-25 8:58	Yes	Caribou	1	Walking	SE	150	93	East	No		-96.22197	65.00077			No	Not Exceeded	
Road	2022-11-25 8:58	Yes	Caribou	1	Standing	Not Recorded	300	87	East	No		-96.24102	64.9542			No	Not Exceeded	
Road	2022-11-25 8:58	Yes	Caribou	2	Walking	N	300	38	East	No		-96.27582	64.59073			No	Not Exceeded	
Incidental	2022-11-25 15:30	Yes	Caribou	12	Walking	East	400	66	East	No		-96.28188	64.6052				Not Exceeded	
Incidental	2022-11-25 15:30	Yes	Caribou	12	Not recorded	E	400	66	East	N/A		-96.33501	64.80451			No	Not Exceeded	
Road	2022-11-26 9:16	Yes	Muskox	45	Feeding	N/A	900	29	West	No		-96.18125	64.54733			No	Exceeded	Speed restriction put in place from km 27 to 29
Incidental	2022-11-26 14:31	Yes	Caribou	10	Running	S	300	77	East	No	Km 77 east side 300m running south.	-96.33908	64.89511			No	Not Exceeded	
Road	2022-11-27 9:38	No					NA					NA	NA					
Road	2022-11-28 9:08	No					NA					NA	NA					
Road	2022-11-29 10:05	No					NA					NA	NA					
Road	2022-11-30 9:13	No					NA					NA	NA					
Road	2022-12-01 9:42	No					NA					NA	NA					
Road	2022-12-02 10:38	No					NA					NA	NA					
Road	2022-12-03 9:36	Yes	Muskox	6	Feeding	N/A	1500	26	East	No		-96.16146	64.52353			No	Not Exceeded	
Road	2022-12-04 9:22	Yes	Caribou	2	Foraging	N/A	500	72	East	No		-96.32384	64.85386			No	Not Exceeded	
Road	2022-12-07 9:46	No					NA					NA	NA					
Incidental	2022-12-07 13:23	Yes	Muskox	45	Feeding	N/A	2000	26	West	No	45 muskox km 26 west side 2km eating.	-96.16146	64.52353			No	Exceeded	Not within 1500m
Road	2022-12-09 9:08	No					NA					NA	NA					
Incidental	2022-12-10 7:29	Yes	Muskox	25	Not recorded	Not Recorded	1000	24	West	No	Tundra.	-96.13651	64.50789			No	Exceeded	Road was closed.
Road	2022-12-14 12:45	Yes	Muskox	59	Resting	N/A	1250	22	West	No		-96.11256	64.4935			No	Exceeded	Nothing they are over 1km from road
Road	2022-12-14 12:45	Yes	Muskox	7	Resting	N/A	25	90	East	No		-96.22208	64.97501			No	Not Exceeded	
Road	2022-12-18 9:27	Yes	Muskox	59	Foraging	W	970	19	West	No		-96.0866	64.4702			not applicable.	Exceeded	Nothing, they are far from road on west side walking south weast
Road	2022-12-21 11:00	Yes	Muskox	59	Resting	N/A	1100	15	West	No		-96.0525	64.43981			not applicable	Exceeded	Road open and no restrictions as they are over 1Km
Incidental	2022-12-22 16:56	Yes	Muskox	10	Feeding	Not Recorded	20	94	West,East	N/A	Km 94 20m both sides of the road.	-96.21269	65.00751			No	Not Exceeded	
Road	2022-12-23 9:45	Yes	Muskox	6	Feeding	N/A	700	95	East	No		-96.19522	65.01286			No	Not Exceeded	
Road	2022-12-23 9:45	Yes	Caribou	1	Feeding	N/A	200	56	East	No		-96.35139	64.72588			No	Not Exceeded	
Road	2022-12-29 9:52	No					NA					NA	NA					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-01-02 9:45	Yes	Muskox	12	Foraging	N/A	99	155	East	No		-96.43417	65.267612			No	Not Exceeded	
Road	2022-01-02 9:45	Yes	Muskox	4	Foraging	N/A	889	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Road	2022-01-02 9:45	Yes	Caribou	3	Walking	SE	449	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-01-05 10:48	Yes	Caribou	3	Walking	SW	350	176	East	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-01-05 10:48	Yes	Caribou	8	Feeding	N/A	300	170	East	No		-96.54979	65.346648			No	Not Exceeded	
Viewshed	2022-01-05 13:29		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-01-05 13:29		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-01-05 13:29		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-01-05 13:29		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-01-05 13:29		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-05 13:29		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-05 13:29		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-05 13:29		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-05 13:29		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-05 13:29		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-05 13:29		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-05 13:29		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-05 13:29		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-05 13:29		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-05 13:29		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-05 13:29		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-05 13:29		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-01-05 13:29		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-01-05 13:29		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-01-05 13:29		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-01-05 13:29		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-05 13:29		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-05 13:29		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-05 13:29		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-05 13:29		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-05 13:29		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-05 13:29		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-05 13:29		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-05 13:29		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-01-05 13:29		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-01-05 13:29		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-01-05 13:29		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-01-05 13:29		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-01-05 13:29		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-01-05 13:29		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-01-05 13:29		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-01-05 13:29		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-05 13:29		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-05 13:29		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-05 13:29		-	-			NA	160-161				-96.41356	65.294293					
Road	2022-01-07 10:55	Yes	Caribou	5	Walking	N	250	138	East	No		-96.26018	65.2238			No	Not Exceeded	
Road	2022-01-07 10:55	Yes	Caribou	3	Resting	N/A	600	140	East	N/A		-96.29851	65.221968			No	Not Exceeded	
Road	2022-01-07 10:55	Yes	Muskox	4	Feeding	N/A	1000	140	East	N/A		-96.29851	65.221968			No	Not Exceeded	
Viewshed	2022-01-07 12:14		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-07 12:14		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-07 12:14		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-07 12:14		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-07 12:14		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-07 12:14		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-07 12:14		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-07 12:14		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-07 12:14		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-01-07 12:14		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-01-07 12:14		-	-			NA	176				-96.60379	65.38622					
Road	2022-01-09 10:00	No					NA					NA	NA					
Viewshed	2022-01-12 9:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-01-12 9:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-01-12 9:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-01-12 9:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-01-12 9:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-12 9:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-12 9:44		Muskox	8	Feeding	N/A	540	118	West			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-01-12 9:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-12 9:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-12 9:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-12 9:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-12 9:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-12 9:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-12 9:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-12 9:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-12 9:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-12 9:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-12 9:44		-	-			NA	133				-96.17538	65.199246					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-01-12 9:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-01-12 9:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-01-12 9:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-01-12 9:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-12 9:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-12 9:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-12 9:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-12 9:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-12 9:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-12 9:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-12 9:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-12 9:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-12 9:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-01-12 9:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-01-12 9:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-01-12 9:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-01-12 9:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-01-12 9:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-01-12 9:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-12 9:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-12 9:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-12 9:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-12 9:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-12 9:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-12 9:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-12 9:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-12 9:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-12 9:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-12 9:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-12 9:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-01-12 9:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-01-12 9:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-01-12 9:44		-	-			NA	176				-96.60379	65.38622					
Road	2022-01-14 9:36	Yes	Muskox	4	Foraging	N/A	125	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Incidental	2022-01-14 13:19	Yes	Caribou	3	Foraging	N/A	494	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-01-18 9:12	No					NA					NA	NA					
Viewshed	2022-01-18 11:13		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-01-18 11:13		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-01-18 11:13		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-01-18 11:13		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-01-18 11:13		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-18 11:13		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-18 11:13		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-18 11:13		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-01-18 11:13		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-18 11:13		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-18 11:13		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-18 11:13		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-01-18 11:13		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-18 11:13		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-18 11:13		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-18 11:13		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-01-18 11:13		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-01-18 11:13		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-01-18 11:13		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-01-18 11:13		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-01-18 11:13		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-01-18 11:13		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-01-18 11:13		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-18 11:13		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-18 11:13		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-01-18 11:13		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-18 11:13		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-18 11:13		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-18 11:13		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-01-18 11:13		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-01-18 11:13		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-01-18 11:13		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-01-18 11:13		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-18 11:13		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-18 11:13		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-01-18 11:13		-	-			NA	128				-96.13583	65.161371					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-01-18 11:13		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-18 11:13		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-18 11:13		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-18 11:13		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-01-18 11:13		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-18 11:13		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-18 11:13		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-18 11:13		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-01-18 11:13		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-01-18 11:13		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-01-18 11:13		-	-			NA	116				-96.02061	65.080258					
Road	2022-01-28 10:10	Yes	Muskox	8	Foraging	N/A	800	118	West			-96.05506	65.086475				Not Exceeded	
Road	2022-01-28 10:10	Yes	Muskox	4	Foraging	N/A	500	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Road	2022-01-28 10:10	Yes	Caribou	2	Foraging	N/A	100	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Road	2022-01-28 10:10	Yes	Muskox	10	Foraging	N/A	750	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-01-28 10:10	Yes	Caribou	5	Foraging	N/A	150	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Incidental	2022-01-28 15:45	Yes	Caribou	10	Foraging	N/A	200	179	East	No		-96.00217	65.051123			No	Not Exceeded	
Incidental	2022-01-29 14:37	Yes	Muskox	11	Foraging	N/A	75	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Incidental	2022-01-29 16:44	Yes	Caribou	7	Foraging	N/A	300	144	East	No		-96.00217	65.051123			No	Not Exceeded	
Road	2022-02-02 13:03	Yes	Wolverine	1	Running	W	0	149	Both	Yes		-96.44264	65.223273			No	Not Exceeded	
Road	2022-02-02 13:03	Yes	Caribou	6	Feeding	N/A	150	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Viewshed	2022-02-02 13:04		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-02 13:04		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-02 13:04		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-02 13:04		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-02 13:04		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-02 13:04		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-02 13:04		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-02 13:04		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-02 13:04		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-02 13:04		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-02 13:04		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-02 13:04		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-02 13:04		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-02 13:04		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-02 13:04		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-02 13:04		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-02 13:04		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-02 13:04		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-02 13:04		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-02 13:04		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-02 13:04		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-02 13:04		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-02 13:04		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-02 13:04		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-02 13:04		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-02 13:04		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-02 13:04		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-02 13:04		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-02 13:04		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-02 13:04		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-02 13:04		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-02 13:04		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-02 13:04		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-02 13:04		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-02 13:04		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-02 13:04		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-02 13:04		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-02 13:04		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-02 13:04		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-02 13:04		Caribou	6	Feeding	N/A	150	166	West			-96.48819	65.325287				Not Exceeded	
Viewshed	2022-02-02 13:04		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-02 13:04		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-02 13:04		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-02 13:04		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-02 13:04		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-02 13:04		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-02 13:04		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-02 13:04		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-02 13:04		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-02-03 14:26	Yes	Caribou	17	Feeding	N/A	25	169	East	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-02-04 10:44	No					NA					NA	NA					
Road	2022-02-06 14:04	Yes	Arctic fox	1	Trotting/running	S	10	172	West	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-02-06 14:04	Yes	Muskox	4	Resting	N/A	500	144	West	No		-96.36752	65.222582			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-02-09 13:19	Yes	Caribou	5	Foraging	N/A	600	133	East	No		-96.17538	65.199246			No	Not Exceeded	
Road	2022-02-09 13:19	Yes	Muskox	4	Lying Down	N/A	150	142	East	No		-96.3371	65.222192			No	Not Exceeded	
Road	2022-02-09 13:19	Yes	Caribou	13	Foraging	N	200	170	East	No		-96.54979	65.346648			No	Not Exceeded	
Viewshed	2022-02-09 13:20		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-09 13:20		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-09 13:20		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-09 13:20		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-09 13:20		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-09 13:20		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-09 13:20		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-09 13:20		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-09 13:20		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-09 13:20		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-09 13:20		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-09 13:20		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-09 13:20		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-09 13:20		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-09 13:20		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-09 13:20		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-09 13:20		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-09 13:20		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-09 13:20		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-09 13:20		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-09 13:20		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-09 13:20		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-09 13:20		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-09 13:20		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-09 13:20		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-09 13:20		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-09 13:20		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-09 13:20		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-09 13:20		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-09 13:20		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-09 13:20		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-09 13:20		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-09 13:20		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-09 13:20		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-09 13:20		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-09 13:20		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-09 13:20		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-09 13:20		Caribou	5	Foraging	N	1000	169	East			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-02-09 13:20		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-09 13:20		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-09 13:20		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-09 13:20		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-09 13:20		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-09 13:20		-	-			NA	176				-96.60379	65.38622					
Road	2022-02-11 9:30	Yes	Caribou	10	Lying Down	N/A	100	170	East	No		-96.54979	65.346648			Yes - Same group size and location as previous survey	Not Exceeded	
Road	2022-02-19 9:50	No					NA					NA	NA					
Viewshed	2022-02-19 14:15		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-19 14:15		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-19 14:15		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-19 14:15		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-19 14:15		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-19 14:15		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-19 14:15		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-19 14:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-19 14:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-19 14:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-19 14:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-19 14:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-19 14:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-19 14:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-19 14:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-19 14:15		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-19 14:15		-	-			NA	156				-96.45207	65.262217					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-02-19 14:15		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-19 14:15		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-19 14:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-19 14:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-19 14:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-19 14:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-19 14:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-19 14:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-19 14:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-19 14:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-19 14:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-19 14:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-19 14:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-19 14:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-19 14:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-19 14:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-19 14:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-19 14:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-19 14:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-19 14:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-19 14:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-19 14:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-19 14:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-19 14:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-19 14:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-19 14:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-19 14:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-19 14:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-19 14:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-19 14:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-23 9:00		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-23 9:00		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-23 9:00		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-23 9:00		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-02-23 9:00		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-23 9:00		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-23 9:00		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-02-23 9:00		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-23 9:00		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-23 9:00		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-23 9:00		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-02-23 9:00		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-23 9:00		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-23 9:00		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-23 9:00		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-02-23 9:00		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-23 9:00		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-23 9:00		Caribou	4	Foraging	N/A	1200	156	West			-96.45207	65.262217				Not Exceeded	
Viewshed	2022-02-23 9:00		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-02-23 9:00		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-23 9:00		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-23 9:00		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-23 9:00		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-02-23 9:00		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-23 9:00		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-23 9:00		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-02-23 9:00		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-23 9:00		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-23 9:00		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-02-23 9:00		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-23 9:00		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-23 9:00		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-23 9:00		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-02-23 9:00		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-23 9:00		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-23 9:00		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-23 9:00		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-02-23 9:00		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-23 9:00		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-02-23 9:00		-	-			NA	121-122				-96.08638	65.10712					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-02-23 9:00		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-23 9:00		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-23 9:00		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-23 9:00		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-02-23 9:00		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-23 9:00		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-23 9:00		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-02-23 9:00		-	-			NA	116				-96.02061	65.080258					
Incidental	2022-02-23 10:15	Yes	Muskox	12	Foraging	N/A	100	157	East	No		-96.41584	65.271231			Yes - Same group since the begining of winter	Not Exceeded	
Incidental	2022-02-23 10:50	Yes	Muskox	3	Foraging	N/A	250	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Incidental	2022-02-23 14:45	Yes	Muskox	46	Foraging	N/A	1000	152	West	No	Speed restriction was put in place	-96.47617	65.241762			No	Exceeded	Speed restriction was put in place
Incidental	2022-02-23 15:25	Yes	Caribou	3	Foraging	W	0	169	West	Yes		-96.53703	65.340029			No	Not Exceeded	
Incidental	2022-02-23 15:35	Yes	Caribou	2	Standing	N/A	25	173	East	N/A		-96.60297	65.359721			No	Not Exceeded	
Road	2022-02-25 9:53	Yes	Caribou	4	Walking	E	75	178	East	N/A		-96.6219	65.400857			No	Not Exceeded	
Road	2022-02-25 9:53	Yes	Caribou	8	Feeding	W	100	174	East	N/A		-96.60128	65.368315			No	Not Exceeded	
Road	2022-02-25 9:53	Yes	Caribou	3	Walking	S	167	167	West	N/A		-96.5061	65.328371			No	Not Exceeded	
Road	2022-02-25 9:53	Yes	Caribou	1	Standing	N/A	50	132	East	N/A		-96.16457	65.194003			No	Not Exceeded	
Incidental	2022-02-25 18:00	Yes	Wolf	6	Walking	E	0	170	West,East	Yes		-96.54979	65.346648			No	Not Exceeded	
Incidental	2022-02-28 8:40	Yes	Muskox	50	Feeding	Not Recorded	1000	152	West	No		-96.47617	65.241762			No	Exceeded	Open with speed restriction
Road	2022-03-01 10:34	Yes	Caribou	2	Foraging	N/A	300	171	East	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-03-01 10:34	Yes	Muskox	7	Foraging	N/A	650	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Viewshed	2022-03-01 13:33		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-01 13:33		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-01 13:33		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-01 13:33		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-01 13:33		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-01 13:33		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-01 13:33		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-01 13:33		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-01 13:33		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-01 13:33		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-01 13:33		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-01 13:33		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-01 13:33		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-01 13:33		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-01 13:33		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-01 13:33		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-01 13:33		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-01 13:33		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-01 13:33		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-01 13:33		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-01 13:33		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-01 13:33		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-01 13:33		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-01 13:33		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-01 13:33		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-01 13:33		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-01 13:33		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-01 13:33		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-01 13:33		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-01 13:33		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-01 13:33		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-01 13:33		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-01 13:33		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-01 13:33		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-01 13:33		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-01 13:33		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-01 13:33		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-01 13:33		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-01 13:33		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-01 13:33		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-01 13:33		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-01 13:33		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-01 13:33		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-01 13:33		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-01 13:33		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-01 13:33		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-01 13:33		Caribou	2	Feeding	N/A	150	169	West			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-03-01 13:33		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-01 13:33		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-01 13:33		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-01 13:33		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-01 13:33		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-03-01 13:59	Yes	Caribou	5	Feeding	N/A	200	113	East	No		-95.99327	65.058803			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-03-01 14:20	Yes	Caribou	2	Foraging	N/A	200	119	East	No		-96.06476	65.093211			No	Not Exceeded	
Incidental	2022-03-01 16:03	Yes	Caribou	4	Walking	W	0	161	East	Yes		-96.41207	65.30324			No	Not Exceeded	
Incidental	2022-03-01 16:38	Yes	Caribou	4	Foraging	N/A	100	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-03-04 8:50	Yes	Caribou	5	Foraging	N/A	75	174	West	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-03-04 8:50	Yes	Arctic fox	1	Running	N	0	171	Both	Yes		-96.5686	65.351995			No	Not Exceeded	
Road	2022-03-04 8:50	Yes	Muskox	3	Foraging	N/A	800	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Incidental	2022-03-04 13:06	Yes	Caribou	1	Walking	N/A	500	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Incidental	2022-03-04 13:54	Yes	Caribou	5	Walking	N/A	150	178	West	No		-96.6219	65.400857			No	Not Exceeded	
Incidental	2022-03-06 13:00	Yes	Caribou	15	Foraging	N/A	30	172	North	No		-96.58667	65.355041			No	Not Exceeded	
Incidental	2022-03-08 11:00	Yes	Wolf	7	Walking	N/A	100	160	North	N/A	Dispatch called environment for 7 wolves at KM 160, the environment team went on the field but did not see them.	-96.41356	65.294293			No	Not Exceeded	
Road	2022-03-09 10:45	Yes	Caribou	2	Feeding	N/A	400	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Incidental	2022-03-09 15:41	Yes	Muskox	4	Foraging	N/A	500	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Incidental	2022-03-10 8:30	Yes	Wolf	10	Not recorded		NA	170				-96.54979	65.346648			No	Not Exceeded	
Incidental	2022-03-11 20:00	Yes	Wolf	10	Not recorded		NA	176				-96.60379	65.38622	No		No	Not Exceeded	
Viewshed	2022-03-12 15:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-12 15:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-12 15:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-12 15:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-12 15:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-12 15:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-12 15:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-12 15:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-12 15:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-12 15:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-12 15:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-12 15:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-12 15:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-12 15:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-12 15:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-12 15:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-12 15:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-12 15:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-12 15:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-12 15:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-12 15:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-12 15:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-12 15:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-12 15:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-12 15:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-12 15:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-12 15:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-12 15:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-12 15:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-12 15:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-12 15:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-12 15:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-12 15:15		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-12 15:15		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-12 15:15		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-12 15:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-12 15:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-12 15:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-12 15:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-12 15:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-12 15:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-12 15:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-12 15:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-12 15:15		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-12 15:15		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-12 15:15		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-12 15:15		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-12 15:15		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-12 15:15		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-19 7:11		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-19 7:11		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-19 7:11		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-19 7:11		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-19 7:11		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-19 7:11		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-19 7:11		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-19 7:11		-	-			NA	121-122				-96.08638	65.10712					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-03-19 7:11		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-19 7:11		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-19 7:11		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-19 7:11		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-19 7:11		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-19 7:11		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-19 7:11		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-19 7:11		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-19 7:11		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-19 7:11		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-19 7:11		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-19 7:11		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-19 7:11		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-19 7:11		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-19 7:11		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-19 7:11		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-19 7:11		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-19 7:11		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-19 7:11		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-19 7:11		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-19 7:11		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-19 7:11		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-19 7:11		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-19 7:11		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-19 7:11		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-19 7:11		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-19 7:11		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-19 7:11		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-19 7:11		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-19 7:11		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-19 7:11		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-19 7:11		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-19 7:11		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-19 7:11		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-19 7:11		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-19 7:11		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-19 7:11		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-19 7:11		-	-			NA	176				-96.60379	65.38622					
Road	2022-03-19 8:06	No					NA					NA	NA					
Incidental	2022-03-20 9:25	Yes	Wolf	6	Resting	N	217	148	East	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-03-21 12:15	No					NA					NA	NA					
Viewshed	2022-03-27 8:38		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-27 8:38		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-27 8:38		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-27 8:38		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-27 8:38		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-27 8:38		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-27 8:38		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-27 8:38		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-27 8:38		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-27 8:38		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-27 8:38		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-27 8:38		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-27 8:38		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-27 8:38		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-27 8:38		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-27 8:38		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-27 8:38		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-27 8:38		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-27 8:38		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-27 8:38		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-27 8:38		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-27 8:38		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-27 8:38		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-27 8:38		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-27 8:38		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-27 8:38		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-27 8:38		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-27 8:38		-	-			NA	154				-96.46296	65.254604					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-03-27 8:38		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-27 8:38		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-27 8:38		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-27 8:38		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-27 8:38		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-27 8:38		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-27 8:38		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-27 8:38		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-27 8:38		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-27 8:38		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-27 8:38		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-27 8:38		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-27 8:38		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-27 8:38		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-27 8:38		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-27 8:38		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-27 8:38		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-27 8:38		-	-			NA	176				-96.60379	65.38622					
Road	2022-03-27 13:04	Yes	Muskox	10	Feeding	NE	10	153	East	No		-96.47626	65.248229			No	Not Exceeded	
Incidental	2022-03-27 16:00	Yes	Muskox	13	Foraging	N/A	100	154	East	No		-96.46296	65.254604			Yes ; Same group of musk ox hanging around the same km. Same numbers and place and proximity to the road.	Not Exceeded	Speed restriction of 30km/h was put in place from km 153-155.
Road	2022-03-29 12:38	Yes	Arctic fox	1	Running	S	5	164	East	N/A		-96.44722	65.322562			No	Not Exceeded	
Road	2022-03-29 12:38	Yes	Arctic fox	1	Walking	N	5	117	West	Yes		-96.03942	65.0837			No	Not Exceeded	
Incidental	2022-03-30 9:30	Yes	Caribou	2	Feeding	N/A	100	179	West	No		-96.00217	65.051123			No	Not Exceeded	
Incidental	2022-03-30 10:30	Yes	Caribou	9	Feeding	E	500	134	East	No		-96.19286	65.204805			No	Not Exceeded	
Viewshed	2022-03-30 12:20		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-30 12:20		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-30 12:20		Crow	2	Flying	E	0	116	West			-96.02061	65.080258				Not Exceeded	
Viewshed	2022-03-30 12:20		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-03-30 12:20		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-30 12:20		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-30 12:20		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-30 12:20		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-03-30 12:20		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-30 12:20		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-30 12:20		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-30 12:20		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-03-30 12:20		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-30 12:20		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-30 12:20		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-30 12:20		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-03-30 12:20		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-30 12:20		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-30 12:20		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-30 12:20		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-03-30 12:20		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-30 12:20		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-30 12:20		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-30 12:20		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-03-30 12:20		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-30 12:20		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-30 12:20		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-30 12:20		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-03-30 12:20		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-30 12:20		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-30 12:20		Muskox	4	Foraging	N/A	1500	154	West			-96.46296	65.254604				Not Exceeded	
Viewshed	2022-03-30 12:20		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-03-30 12:20		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-30 12:20		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-30 12:20		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-30 12:20		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-03-30 12:20		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-30 12:20		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-30 12:20		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-30 12:20		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-03-30 12:20		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-30 12:20		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-30 12:20		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-03-30 12:20		-	-			NA	166				-96.48819	65.325287					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-03-30 12:20		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-30 12:20		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-30 12:20		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-30 12:20		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-03-30 12:20		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-30 12:20		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-30 12:20		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-03-30 12:20		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-03-30 14:56	Yes	Muskox	3	Feeding	N/A	300	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Incidental	2022-03-30 15:22	Yes	Muskox	10	Foraging	N/A	2000	149	East	N/A		-96.44264	65.223273			No	Not Exceeded	
Incidental	2022-03-30 16:28	Yes	Caribou	3	Foraging	N/A	400	174	West	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-04-01 14:24	Yes	Muskox	9	Resting	N/A	250	154	East	No		-96.46296	65.254604			No	Not Exceeded	
Road	2022-04-02 6:42	Yes	Muskox	12	Feeding	N/A	30	153	East	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-04-02 6:42	Yes	Muskox	3	Feeding	N/A	50	141	East	N/A		-96.31809	65.223683			No	Not Exceeded	
Road	2022-04-02 6:42	Yes	Caribou	10	Foraging	N/A	130	133	East	No		-96.17538	65.199246			No	Not Exceeded	
Road	2022-04-02 6:42	Yes	Caribou	13	Resting	N/A	500	114	East	N/A		-96.00424	65.066791			No	Not Exceeded	
Incidental	2022-04-02 8:57	Yes	Caribou	12	Walking	S	800	129	West	No		-96.14593	65.169019			No	Not Exceeded	
Incidental	2022-04-02 9:37	Yes	Caribou	4	Walking	SE	10	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-04-03 8:05	Yes	Muskox	8	Feeding	N/A	250	118	West	No		-96.05506	65.086475			No	Not Exceeded	
Road	2022-04-03 8:05	Yes	Caribou	15	Feeding	N/A	300	136	West	No		-96.2274	65.213075			No	Not Exceeded	
Road	2022-04-03 8:05	Yes	Caribou	10	Feeding	N/A	250	137	West	No		-96.2415	65.219441			No	Not Exceeded	
Road	2022-04-04 13:19	Yes	Muskox	6	Feeding	N/A	1000	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-04-04 13:19	Yes	Crow	1	Flying	S	50	150	Both	N/A		-96.45008	65.230216			No	Not Exceeded	
Road	2022-04-05 8:41	No					NA					NA	NA					
Incidental	2022-04-05 12:45	Yes	Caribou	10	Lying Down	N/A	200	179	South	No		-96.00217	65.051123			No	Not Exceeded	
Road	2022-04-06 9:34	Yes	Caribou	5	Resting	N/A	200	152	West	No		-96.47617	65.241762			No	Not Exceeded	
Viewshed	2022-04-06 12:40		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-06 12:40		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-06 12:40		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-06 12:40		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-06 12:40		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-06 12:40		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-06 12:40		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-06 12:40		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-06 12:40		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-06 12:40		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-06 12:40		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-06 12:40		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-06 12:40		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-06 12:40		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-06 12:40		Common raven	1	Flying	Not Recorded	400	128	West			-96.13583	65.161371				Not Exceeded	
Viewshed	2022-04-06 12:40		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-06 12:40		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-06 12:40		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-06 12:40		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-06 12:40		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-06 12:40		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-06 12:40		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-06 12:40		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-06 12:40		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-06 12:40		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-06 12:40		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-06 12:40		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-06 12:40		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-06 12:40		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-06 12:40		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-06 12:40		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-06 12:40		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-06 12:40		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-06 12:40		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-06 12:40		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-06 12:40		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-06 12:40		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-06 12:40		Caribou	14	Foraging	Not Recorded	900	160-161	West			-96.41356	65.294293				Not Exceeded	
Viewshed	2022-04-06 12:40		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-06 12:40		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-06 12:40		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-06 12:40		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-06 12:40		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-06 12:40		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-06 12:40		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-06 12:40		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-06 12:40		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-06 12:40		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-06 12:40		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-06 12:40		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-06 12:40		-	-			NA	176				-96.60379	65.38622					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-04-06 15:23	Yes	Caribou	42	Foraging	N/A	500	165	West	No	GST exceeded, speed restriction implemented at 30 km/h till the road closes.	-96.46782	65.323887			No	Exceeded	Speed restriction (30km/h) from 165 to 166. The road was closed later that day.
Road	2022-04-07 7:10	Yes	Caribou	20	Walking	E	0	165	Both	Yes		-96.46782	65.323887			No	Not Exceeded	
Road	2022-04-07 9:00	Yes	Arctic fox	1	Running	S	50	178	East	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-04-07 9:00	Yes	Caribou	21	Lying Down	N/A	500	175	West	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-04-07 9:00	Yes	Caribou	17	Walking	W	0	173	East	Yes		-96.60297	65.359721			No	Not Exceeded	
Road	2022-04-07 9:00	Yes	Caribou	25	Feeding	NE	700	169	West	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-04-07 9:00	Yes	Muskox	8	Feeding	N/A	120	156	East	No		-96.45207	65.262217			No	Not Exceeded	
Road	2022-04-07 9:00	Yes	Muskox	2	Lying Down	N/A	200	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-04-07 9:00	Yes	Caribou	25	Feeding	N/A	800	151	West	No		-96.46622	65.234469			No	Not Exceeded	
Road	2022-04-07 9:00	Yes	Caribou	7	Standing	S	50	149	West	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-04-07 9:00	Yes	Caribou	6	Walking	S	1200	127	West	No		-96.12549	65.153813			No	Not Exceeded	
Road	2022-04-07 9:00	Yes	Caribou	4	Standing	N/A	500	111	West	No		-96.02402	65.048147			No	Not Exceeded	
Road	2022-04-08 8:25	Yes	Caribou	16	Foraging	N/A	400	179	West	No	Speed restriction implemented from KM 177 to AMQ	-96.66219	65.403044			No	Not Exceeded	
Road	2022-04-08 8:25	Yes	Caribou	22	Foraging	N/A	400	163	West	No	Speed restriction implemented from km 162 to 164	-96.4304	65.317408			No	Not Exceeded	
Road	2022-04-08 8:25	Yes	Muskox	6	Resting	N/A	300	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-04-08 8:25	Yes	Caribou	5	Feeding	N/A	300	147	West	No	Speed restriction implemented from km 146 to 148.	-96.41835	65.227863			No	Not Exceeded	
Road	2022-04-08 8:25	Yes	Caribou	11	Walking	W	1500	117	West	No		-96.03942	65.0837			No	Not Exceeded	
Road	2022-04-08 8:25	Yes	Caribou	10	Standing	N/A	1000	115	West	No		-96.00905	65.071117			No	Not Exceeded	
Viewshed	2022-04-09 8:09		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-09 8:09		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-09 8:09		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-09 8:09		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-09 8:09		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-09 8:09		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-09 8:09		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-09 8:09		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-09 8:09		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-09 8:09		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-09 8:09		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-09 8:09		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-09 8:09		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-09 8:09		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-09 8:09		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-09 8:09		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-09 8:09		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-09 8:09		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-09 8:09		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-09 8:09		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-09 8:09		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-09 8:09		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-09 8:09		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-09 8:09		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-09 8:09		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-09 8:09		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-09 8:09		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-09 8:09		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-09 8:09		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-09 8:09		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-09 8:09		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-09 8:09		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-09 8:09		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-09 8:09		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-09 8:09		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-09 8:09		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-09 8:09		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-09 8:09		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-09 8:09		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-09 8:09		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-09 8:09		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-09 8:09		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-09 8:09		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-09 8:09		-	-			NA	116				-96.02061	65.080258					
Road	2022-04-09 8:14	Yes	Caribou	14	Resting	N/A	100	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-04-09 8:14	Yes	Caribou	6	Feeding	N/A	600	163	West	No		-96.4304	65.317408			No	Not Exceeded	
Road	2022-04-09 8:14	Yes	Caribou	12	Resting	N/A	150	149	West	No		-96.44264	65.223273			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-04-09 12:00	Yes	Caribou	110	Foraging	NE	1000	118	West	N/A		-96.05506	65.086475			No	Exceeded	Speed restriction implemented at 30 km/h till the road closes.
Incidental	2022-04-09 13:01	Yes	Caribou	22	Foraging	N/A	1000	148	West	No		-96.42744	65.220477			No	Not Exceeded	
Incidental	2022-04-09 13:09	Yes	Muskox	5	Feeding	N/A	200	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Incidental	2022-04-09 16:48	Yes	Caribou	16	Walking	NW	1000	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-04-10 5:00	Yes	Muskox	12	Foraging	N/A	200	155	East	No	Road closed	-96.43417	65.267612			No	Not Exceeded	
Road	2022-04-10 5:00	Yes	Muskox	6	Resting	N/A	300	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-04-10 5:00	Yes	Caribou	3	Resting	N/A	500	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-04-10 5:00	Yes	Caribou	2	Foraging	N	200	148	East	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-04-10 5:00	Yes	Caribou	60	Foraging	N/A	300	144	West	No		-96.3908	65.225836			No	Exceeded	Road closed
Road	2022-04-10 5:55	Yes	Caribou	50	Walking	NW	300	130	West	No		-96.1528	65.17815			No	Exceeded	Road closed
Road	2022-04-10 5:55	Yes	Caribou	30		W	30	130	West	Deflection	3 males trying to cross, i was driving slow but they were the other side of a little hill so when i pass by i scared them cause inwasnt able to saw them before. They were scouting for a group of 30 so they deflect and didnt cross the road.	-96.1528	65.17815			No	Not Exceeded	
Road	2022-04-10 5:55	Yes	Caribou	23	Resting	N/A	500	137	West	No		-96.2415	65.219441			No	Not Exceeded	
Road	2022-04-10 5:55	Yes	Caribou	15	Walking	SW	500	118	West	No		-96.05506	65.086475			No	Not Exceeded	
Road	2022-04-10 5:55	Yes	Caribou	15	Walking	W	300	112	East	No	Heading for the road, potential crossing	-96.00217	65.051123			No	Not Exceeded	
Incidental	2022-04-10 7:17	Yes	Caribou	3	Foraging	N/A	300	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Incidental	2022-04-10 7:27	Yes	Caribou	65	Foraging	N/A	400	165	West	No		-96.46782	65.323887			No	Exceeded	Road closed
Incidental	2022-04-10 7:41	Yes	Caribou	300	Foraging	N	400	167	West	No		-96.5061	65.328371			No	Exceeded	Road closed
Incidental	2022-04-10 8:00	Yes	Caribou	120	Foraging	N	500	170	West	No		-96.54979	65.346648			No	Exceeded	Road closed
Incidental	2022-04-10 8:53	Yes	Caribou	60	Foraging	N/A	800	178	West	No		-96.6219	65.400857			No	Exceeded	Road closed
Incidental	2022-04-10 9:58	Yes	Caribou	80	Running	N	800	175	West	No		-96.60237	65.377259			No	Exceeded	Road closed
Incidental	2022-04-10 13:55	Yes	Caribou	50	Walking	SE	800	143	West	No		-96.35797	65.223666			No	Exceeded	Road closed
Incidental	2022-04-10 14:20	Yes	Caribou	90	Foraging	N/A	1000	163	West	No		-96.4304	65.317408			No	Exceeded	Road closed
Incidental	2022-04-10 14:30	Yes	Caribou	300	Feeding	N/A	600	169	West	No		-96.53703	65.340029			No	Exceeded	Road closed
Incidental	2022-04-10 14:35	Yes	Caribou	200	Feeding	N/A	800	177	West	No		-96.60847	65.394344			No	Exceeded	Road closed
Blast	2022-04-10 16:50	Wildlife observed	Caribou	240	Feeding	Not recorded,N/A	600	177	West	N/A		-96.62162	65.400706				Exceeded	More than 4km from blast - none needed. Road Closed
Road	2022-04-11 9:06	Yes	Caribou	14	Feeding	N/A	50	179	West	No		-96.65445	65.404648			No	Not Exceeded	
Road	2022-04-11 9:06	Yes	Caribou	250	Feeding	N/A	2000	177	West	No		-96.60847	65.394344			No	Exceeded	The road is closed. We are performing a convoy
Road	2022-04-11 9:06	Yes	Caribou	6	Standing	N/A	600	167	West	No		-96.5061	65.328371			No	Not Exceeded	
Road	2022-04-11 9:06	Yes	Caribou	47	Walking	SE	1000	163	West	No		-96.4304	65.317408			No	Exceeded	Road closed
Road	2022-04-11 9:06	Yes	Caribou	8	Feeding	N/A	100	152	West	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-04-11 9:06	Yes	Caribou	80	Walking	SE	700	144	West	No		-96.36284	65.222656			No	Exceeded	Road closed
Road	2022-04-11 9:06	Yes	Caribou	16	Standing	N/A	200	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Blast	2022-04-11 17:01	Wildlife observed	Caribou	5	Feeding	W	250	179	West	No		-96.64806	65.405173				Not Exceeded	
Road	2022-04-12 7:15	Yes	Caribou	5	Standing	Not Recorded	1000	166	West	No	No coordinates, did not take location on field. Can use KM coordinates.	-96.48819	65.325287			No	Not Exceeded	
Road	2022-04-12 7:15	Yes	Caribou	27	Feeding	Not Recorded	500	161	West	No	A caribou group were also observed in this location yesterday	-96.41207	65.30324			No	Not Exceeded	
Road	2022-04-12 7:15	Yes	Caribou	46	Feeding	Not Recorded	2000	176	West	No		-96.60379	65.38622			No	Exceeded	Road closed
Road	2022-04-12 7:17	Yes	Muskox	7	Foraging	N	600	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-04-12 7:17	Yes	Caribou	6	Walking	N	350	154	West	No		-96.46296	65.254604			No	Not Exceeded	
Viewshed	2022-04-12 9:46		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-12 9:46		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-12 9:46		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-12 9:46		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-12 9:46		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-12 9:46		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-12 9:46		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-12 9:46		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-12 9:46		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-12 9:46		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-12 9:46		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-12 9:46		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-12 9:46		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-12 9:46		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-12 9:46		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-12 9:46		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-12 9:46		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-12 9:46		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-12 9:46		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-12 9:46		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-12 9:46		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-12 9:46		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-12 9:46		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-12 9:46		-	-			NA	154				-96.46296	65.254604					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-04-12 9:46		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-12 9:46		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-12 9:46		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-12 9:46		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-12 9:46		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-12 9:46		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-12 9:46		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-12 9:46		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-12 9:46		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-12 9:46		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-12 9:46		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-12 9:46		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-12 9:46		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-12 9:46		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-12 9:46		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-12 9:46		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-12 9:46		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-12 9:46		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-12 9:46		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-12 9:46		Muskox	8	Lying Down	N/A	50	118	West			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-04-12 9:46		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-12 9:46		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-12 9:46		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-12 9:46		-	-			NA	116				-96.02061	65.080258					
Incidental	2022-04-12 16:45	Yes	Caribou	60	Foraging	Not Recorded	2000	174	West	No		-96.60128	65.368315			No	Exceeded	The caribou group is further than the 1.5km distance requirement
Incidental	2022-04-12 17:07	Yes	Caribou	140	Foraging	Not Recorded	2000	161	West	No		-96.41207	65.30324			No	Exceeded	The caribou were further away than the 1.5km requirement
Incidental	2022-04-12 17:25	Yes	Caribou	6	Foraging	Not Recorded	75	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-04-13 7:12	Yes	Caribou	9	Walking	E	0	112	Both	Yes		-96.00217	65.051123			No	Not Exceeded	
Road	2022-04-13 7:12	Yes	Caribou	7	Foraging	N/A	350	179	East	No		-96.65084	65.405101			No	Not Exceeded	
Road	2022-04-13 7:12	Yes	Caribou	8	Foraging	N/A	120	179	West	No		-96.65084	65.405101			No	Not Exceeded	
Incidental	2022-04-13 12:20	Yes	Caribou	14	Walking	E	0	114	West,East	Yes		-96.00424	65.066791			No	Not Exceeded	
Road	2022-04-14 7:18	Yes	Caribou	63	Feeding	N/A	150	110	West	No		-96.04065	65.0414			No	Exceeded	Road Open/Closed/Open
Road	2022-04-14 7:18	Yes	Caribou	11	Feeding	N/A	250	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Incidental	2022-04-14 16:49	Yes	Caribou	4	Walking	E	0	154	West	Yes	The group size was a total of four, however I only observed the one (the last) caribou cross the road. I stopped my vehicle and turned off lights/beacons. I let the caribou cross over the first ridge out of my line of sight before proceeding slowly north with my vehicle.	-96.46296	65.254604			No	Not Exceeded	
Road	2022-04-15 6:55	Yes	Caribou	36	Walking	E	700	175	West	No		-96.60237	65.377259			No	Exceeded	Road open/closed
Incidental	2022-04-15 12:18	Yes	Muskox	7	Standing	N/A	500	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Incidental	2022-04-15 13:05	Yes	Caribou	93	Foraging	E	100	117	West			-96.03942	65.0837			No	Exceeded	Road closure
Incidental	2022-04-15 13:46	Yes	Caribou	140	Walking	SE	300	118	West	No		-96.05506	65.086475			No	Exceeded	Road closure
Incidental	2022-04-15 15:10	Yes	Caribou	20	Trotting/running	N	1000	163	West	No		-96.4304	65.317408			No	Not Exceeded	
Incidental	2022-04-15 15:28	Yes	Caribou	55	Walking	S	1000	125	West	No		-96.10792	65.139082			No	Exceeded	Road open/closed
Incidental	2022-04-15 15:32	Yes	Caribou	200	Lying Down	Not Recorded	2000	159	West	No		-96.40886	65.286013			No	Exceeded	The haul road is closed.Groups are being monitored by Env personnel frequently.
Road	2022-04-16 6:50	Yes	Caribou	8	Feeding	N/A	60	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-04-16 6:50	Yes	Caribou	6	Walking	SE	60	157	East	No		-96.41584	65.271231			No	Not Exceeded	
Incidental	2022-04-16 8:09	Yes	Caribou	150	Feeding	N/A	300	177	West	No	Split into larger group and smaller group	-96.60847	65.394344			No	Exceeded	The road was closed.
Incidental	2022-04-16 8:30	Yes	Caribou	50	Feeding	N/A	1000	165	West	No		-96.46782	65.323887			No	Exceeded	The road was closed
Incidental	2022-04-16 8:43	Yes	Caribou	4	Walking	N/A	100	156	East	No		-96.45207	65.262217			No	Not Exceeded	
Incidental	2022-04-16 8:48	Yes	Muskox	4	Standing	N/A	1000	154	West	No		-96.46296	65.254604			No	Not Exceeded	
Incidental	2022-04-16 8:56	Yes	Caribou	8	Feeding	N/A	300	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Incidental	2022-04-16 9:38	Yes	Caribou	16	Walking	E	300	115	West	No		-96.00905	65.071117			No	Not Exceeded	
Road	2022-04-16 13:15	Yes	Caribou	20	Standing	Not Recorded	448	160	West	No	No GPS point taken, mileage marker only	-96.41356	65.294293			No	Not Exceeded	
Road	2022-04-16 13:15	Yes	Caribou	9	Standing	Not Recorded	223	149	West	No	No GPS point taken, mileage marker only	-96.44264	65.223273			No	Not Exceeded	
Road	2022-04-16 13:15	Yes	Caribou	10	Walking	N	483	127	West	No	No GPS point taken, mileage marker only	-96.12549	65.153813			No	Not Exceeded	
Road	2022-04-16 13:15	Yes	Caribou	16	Feeding	Not Recorded	175	112	West	No	No GPS point taken, mileage marker only.	-96.00217	65.051123			No	Not Exceeded	
Road	2022-04-16 13:15	Yes	Caribou	200	Lying Down	Not Recorded	557	174	West	No		-96.60128	65.368315			No	Exceeded	The WTHR is closed.Environment staff monitoring caribou locations and escorting convoys

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-04-16 13:15	Yes	Caribou	40	Alert	Not Recorded	247	172	West	No	No gps coord recorded, mileage marker only	-96.58667	65.355041			No	Exceeded	The WTHR is closedEnvironment staff is monitoring caribou locations and escorting convoys.
Road	2022-04-16 13:15	Yes	Caribou	100	Standing	Not Recorded	440	165	West	No	No GPS location recorded, mileage marker only	-96.46782	65.323887			No	Exceeded	WTHR is closed.Environment staff are monitoring caribou locations and escorting convoys.
Road	2022-04-17 5:46	Yes	Muskox	4	Feeding	N/A	60	143	West	No		-96.35797	65.223666			No	Not Exceeded	
Road	2022-04-17 5:46	Yes	Caribou	2	Walking	E	100	113	East	No		-95.99327	65.058803			No	Not Exceeded	
Road	2022-04-17 5:46	Yes	Caribou	12	Walking	E	80	114	East	No		-96.00424	65.066791			No	Not Exceeded	
Road	2022-04-17 5:46	Yes	Caribou	12	Feeding	Not Recorded	215	152	West	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-04-17 5:46	Yes	Caribou	12	Running	N	400	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Incidental	2022-04-17 6:20	Yes	Caribou	59	Foraging	N/A	300	175	West	No		-96.60237	65.377259			No	Exceeded	The road was closed and technicians are monitoring it
Incidental	2022-04-17 6:48	Yes	Caribou	22	Resting	N/A	150	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Incidental	2022-04-17 6:54	Yes	Caribou	4	Foraging	N/A	50	157	East	No		-96.41584	65.271231			No	Not Exceeded	
Incidental	2022-04-17 7:01	Yes	Caribou	3	Walking	E	50	154	East	No		-96.46296	65.254604			No	Not Exceeded	
Incidental	2022-04-17 7:36	Yes	Caribou	38	Foraging	N/A	350	154	West	No		-96.46296	65.254604			No	Exceeded	The road was closed and technicians were monitoring the situation
Incidental	2022-04-17 7:48	Yes	Caribou	10	Walking	N	600	161	West	No		-96.41207	65.30324			No	Not Exceeded	
Incidental	2022-04-17 8:05	Yes	Caribou	28	Walking	N	400	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Incidental	2022-04-17 11:28	Yes	Caribou	22	Trotting/running	SW	500	161	West	No		-96.41207	65.30324			No	Not Exceeded	
Road	2022-04-18 7:00	No					NA					NA	NA					
Viewshed	2022-04-18 7:01		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-18 7:01		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-18 7:01		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-18 7:01		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-18 7:01		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-18 7:01		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-18 7:01		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-18 7:01		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-18 7:01		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-18 7:01		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-18 7:01		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-18 7:01		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-18 7:01		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-18 7:01		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-18 7:01		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-18 7:01		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-18 7:01		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-18 7:01		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-18 7:01		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-18 7:01		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-18 7:01		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-18 7:01		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-18 7:01		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-18 7:01		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-18 7:01		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-18 7:01		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-18 7:01		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-18 7:01		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-18 7:01		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-18 7:01		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-18 7:01		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-18 7:01		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-18 7:01		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-18 7:01		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-18 7:01		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-18 7:01		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-18 7:01		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-18 7:01		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-18 7:01		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-18 7:01		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-18 7:01		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-18 7:01		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-18 7:01		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-18 7:01		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-18 7:01		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-18 7:01		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-18 7:01		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-18 7:01		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-18 7:01		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-18 7:01		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-04-18 10:53	Yes	Caribou	25	Alert	N/A	1200	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Incidental	2022-04-18 10:55	Yes	Caribou	22	Feeding	N/A	1600	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Incidental	2022-04-18 11:42	Yes	Caribou	8	Feeding	N/A	350	149	West	No		-96.44264	65.223273			No	Not Exceeded	
Incidental	2022-04-18 18:10	Yes	Wolf	2	Walking	N	5	149	West	No		-96.44264	65.223273			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-04-19 6:59	Yes	Caribou	2	Standing	N/A	220	154	West	No		-96.46296	65.254604			No	Not Exceeded	
Incidental	2022-04-19 9:06	Yes	Caribou	22	Foraging	N/A	2000	172	West	No		-96.58667	65.355041			No	Not Exceeded	
Incidental	2022-04-19 10:14	Yes	Caribou	5	Lying Down	N/A	220	154	West	No		-96.46296	65.254604			No	Not Exceeded	
Road	2022-04-20 7:09	No					NA					NA	NA					
Viewshed	2022-04-20 9:38		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-20 9:38		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-20 9:38		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-20 9:38		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-20 9:38		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-20 9:38		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-20 9:38		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-20 9:38		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-20 9:38		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-20 9:38		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-20 9:38		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-20 9:38		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-20 9:38		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-20 9:38		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-20 9:38		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-20 9:38		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-20 9:38		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-20 9:38		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-20 9:38		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-20 9:38		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-20 9:38		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-20 9:38		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-20 9:38		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-20 9:38		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-20 9:38		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-20 9:38		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-20 9:38		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-20 9:38		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-20 9:38		Caribou	100	Foraging	N	3000	154	West			-96.46296	65.254604				Exceeded	No mitigation measures required as group was more than 1500 m from road
Viewshed	2022-04-20 9:38		Muskox	3	Feeding	Not Recorded	2000	154	West			-96.46296	65.254604				Not Exceeded	
Viewshed	2022-04-20 9:38		Muskox	9	Feeding	N/A	1000	156	East			-96.45207	65.262217				Not Exceeded	
Viewshed	2022-04-20 9:38		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-20 9:38		Caribou	100	Feeding	N	2000	156	West		A group of caribou on the valley floor, not the same group as seen at the km154	-96.45207	65.262217				Exceeded	No mitigation measures required as group was more than 1500 m from road
Viewshed	2022-04-20 9:38		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-20 9:38		Caribou	4	Resting	Not Recorded	2500	160-161	East			-96.41356	65.294293				Not Exceeded	
Viewshed	2022-04-20 9:38		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-20 9:38		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-20 9:38		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-20 9:38		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-20 9:38		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-20 9:38		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-20 9:38		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-20 9:38		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-20 9:38		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-20 9:38		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-20 9:38		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-20 9:38		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-20 9:38		Caribou	66	Foraging	Not Recorded	2000	176	West			-96.60379	65.38622				Exceeded	No mitigation measures required as group was more than 1500 m from road
Viewshed	2022-04-20 9:38		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-04-20 15:15	Yes	Caribou	32	Walking	SW	450	116	West	No		-96.02061	65.080258			No	Not Exceeded	
Incidental	2022-04-20 15:25	Yes	Caribou	13	Feeding	N/A	700	113	East	No		-95.99327	65.058803			No	Not Exceeded	
Incidental	2022-04-20 15:26	Yes	Caribou	10	Feeding	N/A	2000	113	East	No		-95.99327	65.058803			No	Not Exceeded	
Incidental	2022-04-20 15:31	Yes	Caribou	40	Feeding	N/A	400	112	West	No		-96.00217	65.051123			No	Exceeded	Speed restriction
Road	2022-04-21 6:25	Yes	Caribou	24	Walking	N	100	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-04-21 6:25	Yes	Caribou	113	Alert	W	300	169	West	No		-96.53703	65.340029			No	Exceeded	Road is closed and convoy are done for crew change
Road	2022-04-21 6:25	Yes	Caribou	67	Foraging	N/A	200	168	West	No		-96.52405	65.333518			No	Exceeded	Road is closed and convoy are done for crew change
Road	2022-04-21 6:25	Yes	Caribou	105	Foraging	S	150	166	West	No		-96.48819	65.325287			No	Exceeded	Road is closed and convoy are done for crew change
Road	2022-04-21 6:25	Yes	Caribou	135	Alert	N/A	100	163	West	No		-96.4304	65.317408			No	Exceeded	Road is closed and convoy are done for crew change
Road	2022-04-21 6:25	Yes	Caribou	16	Trotting/running	NE	25	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-04-21 6:25	Yes	Caribou	77	Foraging	N/A	400	146	West	No		-96.39801	65.226268			No	Exceeded	Road is closed and convoy are done for crew change

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-04-21 6:25	Yes	Caribou	25	Foraging	N/A	400	132	West	No		-96.16457	65.194003			No	Not Exceeded	
Road	2022-04-21 6:25	Yes	Caribou	100	Foraging	N/A	300	130	West	No		-96.1528	65.17815			No	Exceeded	Road is closed and convoy are done for crew change
Road	2022-04-21 6:25	Yes	Caribou	30	Foraging	N/A	600	118	West	No		-96.05506	65.086475			No	Not Exceeded	
Road	2022-04-21 6:44	Yes	Caribou	44	Alert	SW	400	112	West	No		-96.00217	65.051123			No	Exceeded	Road closure
Road	2022-04-21 6:44	Yes	Caribou	5	Walking	N/A	300	121	West	No		-96.08638	65.10712			No	Not Exceeded	
Road	2022-04-21 6:44	Yes	Caribou	5	Standing	N/A	500	123	West	No		-96.10441	65.122168			No	Not Exceeded	
Road	2022-04-21 6:44	Yes	Caribou	105	Walking	S	400	131	West	No		-96.16073	65.18551			No	Exceeded	Road closed
Road	2022-04-21 6:44	Yes	Caribou	120	Trotting/running	S	500	145	West	No		-96.3769	65.224218			No	Exceeded	Road is closed
Incidental	2022-04-22 6:12	Yes	Caribou	79	Foraging	Not Recorded	490	175	West	No		-96.60237	65.377259			No	Exceeded	Wthr is closedEnv staff are escorting the daily convoy
Incidental	2022-04-22 6:15	Yes	Caribou	26	Standing	Not Recorded	469	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Incidental	2022-04-22 6:20	Yes	Caribou	87	Standing	Not Recorded	206	170	West	No		-96.54979	65.346648			No	Exceeded	WTHR is closedEnv staff are providing escort service to the daily convoy
Incidental	2022-04-22 6:48	Yes	Caribou	29	Feeding	Not Recorded	371	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Incidental	2022-04-22 7:58	Yes	Caribou	76	Feeding	SE	200	113	West		76 caribou	-95.99327	65.058803			No	Exceeded	Road closed
Road	2022-04-22 9:11	Yes	Caribou	64	Alert	Not Recorded	640	176	West	No		-96.60379	65.38622			No	Exceeded	Wthr is closedEnvironment team is providing convoy escort
Road	2022-04-22 9:11	Yes	Caribou	14	Feeding	Not Recorded	450	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-04-22 9:11	Yes	Caribou	22	Alert	S	1000	169	West	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-04-22 9:11	Yes	Caribou	51	Running	S	350	168	West	No		-96.52405	65.333518			No	Exceeded	WTHR is closedEnv staff are providing escort to convoy group
Road	2022-04-22 9:11	Yes	Caribou	78	Standing	Not Recorded	500	159	West	No	The caribou are nervous and easily spooked.	-96.40886	65.286013			No	Exceeded	WTHR is closedEnv staff are providing escort to daily convoy
Road	2022-04-22 9:11	Yes	Caribou	10	Resting	Not Recorded	450	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-04-22 9:11	Yes	Caribou	254	Walking	E	150	111	East	Yes		-96.02402	65.048147			No	Exceeded	WTHR is closedEnv staff is providing escort to daily convoy
Incidental	2022-04-22 17:24	Yes	Caribou	10	Alert	Not Recorded	131	148	East	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-04-23 6:15	Yes	Caribou	50	Running	S	350	168	West	No	No gps point taken, mileage marker only.	-96.52405	65.333518			No	Exceeded	The WTHR is closedEnv staff are providing escort service to daily convoy
Road	2022-04-23 6:15	Yes	Caribou	90	Running	NW	300	159	West	No	No gps point taken, mileage marker only.	-96.40886	65.286013			No	Exceeded	WTHR is closedEnv staff are providing escort to the daily convoy
Road	2022-04-23 6:15	Yes	Muskox	13	Foraging	Not Recorded	25	159	East	No	No gps point taken, mileage marker only.	-96.40886	65.286013			No	Not Exceeded	
Road	2022-04-23 6:15	Yes	Caribou	25	Running	NW	100	153	West	No	No gps point taken, mileage marker only.	-96.47626	65.248229			No	Not Exceeded	
Road	2022-04-23 6:15	Yes	Caribou	30	Standing	Not Recorded	300	151	West	No	No gos point taken, mileage marker only.	-96.46622	65.234469			No	Not Exceeded	
Road	2022-04-23 6:15	Yes	Caribou	45	Standing	Not Recorded	600	143	West	No	No GPS point taken, mileage marker only	-96.35797	65.223666			No	Exceeded	WTHR is closed.Env staff are providing escorts to the daily convoy.
Road	2022-04-23 6:15	Yes	Caribou	120	Alert	Not Recorded	300	141	West	No	No gps point taken, mileage marker only.	-96.31809	65.223683			No	Exceeded	WTHR is closed.Env staff are escorting the daily convoy.
Road	2022-04-23 6:15	Yes	Caribou	70	Walking	W	250	136	West	No	No gps point taken, mileage marker only.	-96.2274	65.213075			No	Exceeded	Road closed
Road	2022-04-23 6:15	Yes	Caribou	21	Foraging	Not Recorded	250	171	West	No	No gps location stored, mileage marker only.	-96.5686	65.351995			No	Not Exceeded	
Road	2022-04-23 6:15	Yes	Caribou	20	Standing	Not Recorded	250	165	West	No	No Gps point stored, mileage marker only.	-96.46782	65.323887			No	Not Exceeded	
Road	2022-04-23 6:15	Yes	Caribou	12	Running	S	30	150	West	No	No Gps point take, mileage marker only.	-96.45008	65.230216			No	Not Exceeded	
Road	2022-04-23 6:15	Yes	Caribou	60	Alert	Not Recorded	250	163	West	No	No gps point stored, mileage marker only.	-96.4304	65.317408			No	Exceeded	WTHR is closedEnv staff are providing escort service for the daily convoy
Road	2022-04-23 6:40	Yes	Caribou	48	Alert	N/A	300	122	West	No		-96.09715	65.114773			No	Exceeded	Road is closed
Road	2022-04-23 6:40	Yes	Caribou	69	Walking	N	1100	145	West	No		-96.3769	65.224218			No	Exceeded	Road is closed
Road	2022-04-23 6:40	Yes	Muskox	4	Lying Down	N/A	60	154	West	No		-96.46296	65.254604			No	Not Exceeded	
Road	2022-04-23 6:40	Yes	Caribou	22	Walking	SW	400	160	West	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-04-23 6:40	Yes	Caribou	6	Feeding	N/A	500	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Incidental	2022-04-23 9:48	Yes	Caribou	10	Walking	SW	300	156	West	No		-96.45207	65.262217			No	Not Exceeded	
Road	2022-04-24 6:04	Yes	Caribou	3	Walking	W	75	165	West	No		-96.46782	65.323887			No	Not Exceeded	
Road	2022-04-24 6:04	Yes	Muskox	10	Foraging	N/A	50	156	East	No		-96.45207	65.262217			No	Not Exceeded	
Road	2022-04-24 6:04	Yes	Caribou	3	Walking	E	50	155	East	No		-96.43417	65.267612			No	Not Exceeded	
Road	2022-04-24 6:04	Yes	Muskox	6	Foraging	N/A	30	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-04-24 6:04	Yes	Caribou	12	Foraging	N/A	10	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-04-24 6:04	Yes	Caribou	5	Feeding	N/A	30	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Incidental	2022-04-24 7:05	Yes	Caribou	5	Standing	N/A	600	113	East	No	On top of the hill, maybe more on the otherside	-95.99327	65.058803			No	Not Exceeded	
Incidental	2022-04-24 9:01	Yes	Wolf	6	Walking	E	0	176	East	Yes		-96.60379	65.38622			No	Not Exceeded	
Incidental	2022-04-24 16:07	Yes	Caribou	12	Feeding	N/A	20	150	West	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-04-25 10:37	Yes	Muskox	8	Resting	N/A	1092	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Viewshed	2022-04-25 13:10		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-25 13:10		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-25 13:10		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-25 13:10		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-25 13:10		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-25 13:10		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-25 13:10		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-25 13:10		-	-			NA	118				-96.05506	65.086475					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-04-25 13:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-25 13:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-25 13:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-25 13:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-25 13:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-25 13:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-25 13:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-25 13:10		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-25 13:10		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-25 13:10		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-25 13:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-25 13:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-25 13:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-25 13:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-25 13:10		Common raven	2	Flying	S	500	144	East			-96.35797	65.223666				Not Exceeded	
Viewshed	2022-04-25 13:10		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-25 13:10		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-25 13:10		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-25 13:10		Caribou	3	Foraging	N/A	733	154	East			-96.46296	65.254604				Not Exceeded	
Viewshed	2022-04-25 13:10		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-25 13:10		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-25 13:10		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-25 13:10		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-25 13:10		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-25 13:10		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-25 13:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-25 13:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-25 13:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-25 13:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-25 13:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-25 13:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-25 13:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-25 13:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-25 13:10		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-25 13:10		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-25 13:10		Caribou	33	Foraging	N/A	1200	169	West			-96.53703	65.340029				Not Exceeded	Speed restriction put in place
Viewshed	2022-04-25 13:10		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-25 13:10		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-25 13:10		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-25 13:10		-	-			NA	176				-96.60379	65.38622					
Road	2022-04-26 8:27	Yes	Caribou	98	Feeding	N/A	400	164	West	No	Majority of thr group was 600m from the road.	-96.44722	65.322562			No	Exceeded	Speed restriction and beacon lights off. Environment department waited 15/mins to observe the group from km164-163. The section of the group that was observed at 400m was observed at 500m. The rest that were originally 500m moved across the lake ~2km
Road	2022-04-26 8:27	Yes	Caribou	4	Foraging	N/A	1000	155	East	No		-96.43417	65.267612			No	Not Exceeded	
Road	2022-04-26 8:27	Yes	Caribou	8	Feeding	N/A	165	146	West	No		-96.39801	65.226268			No	Not Exceeded	
Road	2022-04-26 8:27	Yes	Caribou	120	Walking	E	0	113	Both	Yes		-95.99327	65.058803			No	Exceeded	Road is closed and traffic is returning to home base
Incidental	2022-04-26 9:41	Yes	Caribou	25	Feeding	SW	450	163	West	No	The group that was previously observed at 164 was observed walking SW. Of the 98 caribou only 29 remain at 500m from the road. The remaining portion of the group was observed at ~2km from the road on the other side	-96.4304	65.317408			No	Not Exceeded	
Incidental	2022-04-26 9:47	Yes	Caribou	350	Feeding	SE	1500	118	West	No	1500m west side 105 caribou walking south east km 118	-96.05506	65.086475			No	Exceeded	Road closed
Incidental	2022-04-26 13:51	Yes	Caribou	8	Walking	SE	0	112	West,East	Yes		-96.00217	65.051123			No	Not Exceeded	
Incidental	2022-04-26 15:41	Yes	Caribou	51	Walking	E	400	136	East	No		-96.2274	65.213075			No	Exceeded	Road closed
Incidental	2022-04-26 16:04	Yes	Muskox	4	Feeding	N/A	70	146	East	No		-96.39801	65.226268			No	Not Exceeded	
Incidental	2022-04-26 16:23	Yes	Caribou	10	Walking	SW	350	152	West	No		-96.47617	65.241762			No	Not Exceeded	
Incidental	2022-04-26 16:51	Yes	Caribou	6	Feeding	N/A	150	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-04-27 5:25	Yes	Caribou	5	Feeding	N/A	500	171	West	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-04-27 5:25	Yes	Caribou	10	Walking	E	0	151	Both	Yes		-96.46622	65.234469			No	Not Exceeded	
Road	2022-04-27 5:25	Yes	Muskox	4	Lying Down	N/A	50	145	West	No		-96.3769	65.224218			No	Not Exceeded	
Road	2022-04-27 5:25	Yes	Caribou	21	Standing	N/A	350	131	East	No		-96.16073	65.18551			No	Not Exceeded	
Road	2022-04-27 5:25	Yes	Caribou	7	Walking	SW	200	123	West	No		-96.10441	65.122168			No	Not Exceeded	
Road	2022-04-27 5:25	Yes	Caribou	18	Standing	SW	237	123	West	No		-96.10441	65.122168			No	Not Exceeded	
Road	2022-04-27 5:25	Yes	Caribou	5	Lying Down	N/A	200	119	West	No		-96.06476	65.093211			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-04-27 7:41	Yes	Caribou	5	Feeding	N/A	100	113	East	No		-95.99327	65.058803			No	Not Exceeded	
Incidental	2022-04-27 8:07	Yes	Caribou	28	Walking	NW	200	146	West	No		-96.39801	65.226268			No	Not Exceeded	
Incidental	2022-04-27 19:39	Yes	Caribou	16	Feeding	N/A	800	112	East	No		-96.00217	65.051123			No	Not Exceeded	
Incidental	2022-04-27 19:39	Yes	Caribou	6	Walking	E	0	157	West,East	Yes		-96.41584	65.271231			No	Not Exceeded	
Incidental	2022-04-27 19:50	Yes	Caribou	10	Feeding	N/A	100	116	East	No		-96.02061	65.080258			No	Not Exceeded	
Incidental	2022-04-27 20:09	Yes	Caribou	17	Feeding	N/A	600	127	West	No		-96.12549	65.153813			No	Not Exceeded	
Incidental	2022-04-27 20:20	Yes	Caribou	15	Walking	NW	300	145	West	No		-96.3769	65.224218			No	Not Exceeded	
Incidental	2022-04-27 20:45	Yes	Caribou	29	Resting	N/A	700	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Incidental	2022-04-27 20:47	Yes	Caribou	14	Walking	SE	1000	118	West	No		-96.05506	65.086475			No	Not Exceeded	
Road	2022-04-28 7:59	Yes	Muskox	30	Lying Down	N/A	1750	157	West	No		-96.41584	65.271231			No	Exceeded	Road open/closed Not exceedance, as muskox are more than 1.5km from road.
Road	2022-04-28 7:59	Yes	Caribou	3	Walking	S	700	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-04-28 7:59	Yes	Wolf	5	Walking	W	0	147	West	Yes		-96.41835	65.227863			No	Not Exceeded	
Road	2022-04-28 7:59	Yes	Muskox	4	Feeding	N/A	30	145	West	No		-96.3769	65.224218			No	Not Exceeded	
Road	2022-04-28 7:59	Yes	Caribou	4	Walking	W	1000	117	West	No		-96.03942	65.0837			No	Not Exceeded	
Road	2022-04-28 7:59	Yes	Caribou	39	Walking	E	0	112	Both	Yes	Took a video of them crossing.	-96.00217	65.051123			No	Exceeded	Road open/closed
Incidental	2022-04-28 15:22	Yes	Caribou	9	Foraging	N/A	150	151	East	No		-96.46622	65.234469			No	Not Exceeded	
Incidental	2022-04-28 15:27	Yes	Caribou	7	Foraging	N/A	500	153	East	No		-96.47626	65.248229			No	Not Exceeded	
Incidental	2022-04-28 19:38	Yes	Caribou	26	Resting	N/A	250	111	East	No		-96.02402	65.048147			No	Not Exceeded	
Road	2022-04-29 7:29	Yes	Caribou	10	Resting	N/A	100	152	East	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-04-29 7:29	Yes	Caribou	18	Feeding	N/A	50	113	East	No		-95.99327	65.058803			No	Not Exceeded	
Viewshed	2022-04-29 10:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-29 10:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-29 10:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-29 10:15		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-04-29 10:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-29 10:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-29 10:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-29 10:15		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-04-29 10:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-29 10:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-29 10:15		Caribou	6	Walking	SE	1000	121-122	West			-96.08638	65.10712				Not Exceeded	
Viewshed	2022-04-29 10:15		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-04-29 10:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-29 10:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-29 10:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-29 10:15		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-04-29 10:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-29 10:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-29 10:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-29 10:15		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-04-29 10:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-29 10:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-29 10:15		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-04-29 10:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-29 10:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-29 10:15		Muskox	4	Feeding	N/A	50	144	West			-96.35797	65.223666				Not Exceeded	
Viewshed	2022-04-29 10:15		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-04-29 10:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-29 10:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-29 10:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-29 10:15		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-04-29 10:15		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-29 10:15		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-29 10:15		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-29 10:15		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-04-29 10:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-29 10:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-29 10:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-29 10:15		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-04-29 10:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-29 10:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-29 10:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-29 10:15		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-04-29 10:15		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-29 10:15		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-29 10:15		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-29 10:15		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-04-29 10:15		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-29 10:15		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-29 10:15		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-04-29 10:15		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-04-29 11:18	Yes	Caribou	7	Walking	E	500	124	West	No		-96.10808	65.131545			No	Not Exceeded	
Road	2022-04-30 10:50	Yes	Muskox	2	Standing	N/A	500	165	West	No		-96.46782	65.323887			No	Not Exceeded	
Road	2022-04-30 10:50	Yes	Caribou	12	Walking	NW	1000	147	West	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-04-30 10:50	Yes	Caribou	4	Foraging	N/A	600	145	East	No		-96.3769	65.224218			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-04-30 10:50	Yes	Caribou	10	Walking	NE	1500	127	West	No		-96.12549	65.153813			No	Not Exceeded	
Road	2022-04-30 10:50	Yes	Caribou	22	Walking	SE	1500	125	West	No		-96.10792	65.139082			No	Not Exceeded	
Road	2022-04-30 10:50	Yes	Caribou	11	Foraging	N/A	1000	118	West	No		-96.05506	65.086475			No	Not Exceeded	
Incidental	2022-04-30 14:12	Yes	Caribou	9	Foraging	N/A	1500	112	East	No		-96.00217	65.051123			No	Not Exceeded	
Incidental	2022-04-30 14:14	Yes	Caribou	14	Foraging	N/A	200	113	West	No		-95.99327	65.058803			No	Not Exceeded	
Road	2022-05-01 8:55	Yes	Muskox	16	Resting	N/A	300	165	West	No		-96.46782	65.323887			No	Exceeded	Speed restriction put in place
Road	2022-05-01 8:55	Yes	Caribou	3	Foraging	N/A	200	113	East	No		-95.99327	65.058803			No	Not Exceeded	
Road	2022-05-01 8:55	Yes	Caribou	4	Foraging	N/A	500	110	East	No		-96.04065	65.0414			No	Not Exceeded	
Incidental	2022-05-01 11:11	Yes	Caribou	7	Foraging	N/A	200	109	West	No		-96.00217	65.051123			No	Not Exceeded	
Incidental	2022-05-01 12:17	Yes	Caribou	7	Foraging	N/A	200	160	East	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-05-02 8:03	Yes	Caribou	11	Walking	N	150	153	East	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-05-02 8:03	Yes	Arctic hare	1	Walking	N/A	0	132	West	No		-96.16457	65.194003			No	Not Exceeded	
Incidental	2022-05-02 10:36	Yes	Caribou	6	Walking	NE	500	131	West	No		-96.16073	65.18551			No	Not Exceeded	
Incidental	2022-05-02 11:18	Yes	Caribou	18	Foraging	N/A	300	164	West	No		-96.44722	65.322562			No	Not Exceeded	Speed restriction put in place
Road	2022-05-03 11:37	Yes	Caribou	39	Walking	W	460	175	West	No		-96.60237	65.377259			No	Exceeded	Road closed
Road	2022-05-03 11:37	Yes	Muskox	12	Resting	N/A	450	162	West	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-05-03 11:37	Yes	Muskox	4	Feeding	N/A	400	145	East	No		-96.3769	65.224218			No	Not Exceeded	
Road	2022-05-03 11:37	Yes	Caribou	21	Feeding	N/A	70	106	East	No		-96.08289	65.027127			No	Not Exceeded	Road closed
Blast	2022-05-03 17:45	Wildlife observed	Caribou	33	Resting	N/A	100	179	West	No		-96.66657	65.401441				Not Exceeded	
Incidental	2022-05-04 4:52	Yes	Caribou	13	Resting	N/A	75	178	East	No		-96.6219	65.400857			No	Not Exceeded	
Incidental	2022-05-04 4:55	Yes	Caribou	19	Walking	NW	500	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Incidental	2022-05-04 5:26	Yes	Caribou	8	Foraging	N/A	50	155	East	No		-96.43417	65.267612			No	Not Exceeded	
Incidental	2022-05-04 5:30	Yes	Caribou	4	Foraging	N/A	800	154	East	No		-96.46296	65.254604			No	Not Exceeded	
Road	2022-05-04 8:13	Yes	Caribou	15	Resting	N/A	150	179	East	No		-96.66668	65.401485			No	Not Exceeded	
Road	2022-05-04 8:13	Yes	Caribou	12	Feeding	N/A	100	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Viewshed	2022-05-04 12:08		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-04 12:08		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-04 12:08		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-04 12:08		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-04 12:08		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-04 12:08		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-04 12:08		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-04 12:08		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-04 12:08		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-04 12:08		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-04 12:08		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-04 12:08		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-04 12:08		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-04 12:08		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-04 12:08		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-04 12:08		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-04 12:08		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-04 12:08		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-04 12:08		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-04 12:08		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-04 12:08		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-04 12:08		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-04 12:08		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-04 12:08		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-04 12:08		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-04 12:08		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-04 12:08		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-04 12:08		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-04 12:08		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-04 12:08		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-04 12:08		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-04 12:08		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-04 12:08		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-04 12:08		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-04 12:08		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-04 12:08		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-04 12:08		Muskox	21	Resting	N/A	1500	160-161	West			-96.41356	65.294293				Exceeded	No mitigation measures required as group was more than 1500 m from road
Viewshed	2022-05-04 12:08		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-04 12:08		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-04 12:08		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-04 12:08		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-04 12:08		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-04 12:08		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-04 12:08		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-04 12:08		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-04 12:08		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-04 12:08		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-04 12:08		-	-			NA	176				-96.60379	65.38622					

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Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-05-04 12:08		-	-			NA	176				-96.60379	65.38622					
Road	2022-05-05 8:13	Yes	Muskox	3	Feeding	N/A	100	144	East	No		-96.07129	65.022632			No	Not Exceeded	
Road	2022-05-05 8:13	Yes	Caribou	9	Lying Down	N/A	80	147	West	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-05-05 8:13	Yes	Muskox	20	Feeding	N/A	50	156	West	No		-96.45207	65.262217			No	Exceeded	Speed restriction put in place
Road	2022-05-05 8:13	Yes	Arctic fox	1	Trotting/running	S	150	178	East	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-05-05 8:13	Yes	Caribou	9	Walking	NE	600	116	West	No		-96.02061	65.080258			No	Not Exceeded	
Viewshed	2022-05-05 8:43		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-05 8:43		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-05 8:43		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-05 8:43		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-05 8:43		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-05 8:43		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-05 8:43		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-05 8:43		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-05 8:43		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-05 8:43		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-05 8:43		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-05 8:43		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-05 8:43		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-05 8:43		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-05 8:43		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-05 8:43		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-05 8:43		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-05 8:43		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-05 8:43		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-05 8:43		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-05 8:43		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-05 8:43		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-05 8:43		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-05 8:43		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-05 8:43		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-05 8:43		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-05 8:43		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-05 8:43		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-05 8:43		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-05 8:43		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-05 8:43		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-05 8:43		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-05 8:43		Muskox	20	Feeding	Not Recorded	50	156	West			-96.45207	65.262217				Exceeded	Speed restriction put in place
Viewshed	2022-05-05 8:43		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-05 8:43		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-05 8:43		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-05 8:43		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-05 8:43		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-05 8:43		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-05 8:43		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-05 8:43		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-05 8:43		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-05 8:43		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-05 8:43		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-05 8:43		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-05 8:43		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-05 8:43		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-05 8:43		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-05 8:43		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-05 8:43		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-05-05 14:00	Yes	Caribou	1	Dead	N/A	230	153	West	No	Environment received a call that 2 wolves were near the WTHR at KM153 feeding on a caribou carcass. The environment team went to monitor the incident in the morning. Upon arrival, no wildlife was observed, only traces of blood and guts. □ No wildlife deterrents were used.	-96.47626	65.248229		Project non-related	No	Not Exceeded	
Road	2022-05-06 9:05	Yes	Caribou	33	Alert	W	600	177	East	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-05-07 7:08	Yes	Arctic fox	1	Walking	N/A	0	112	West	No		-96.00217	65.051123			No	Not Exceeded	
Road	2022-05-07 7:08	Yes	Caribou	6	Feeding	N	150	154	East	No		-96.46296	65.254604			No	Not Exceeded	
Incidental	2022-05-07 11:22	Yes	Caribou	20	Not recorded	N/A	50	111	West	No		-96.02402	65.048147			No	Not Exceeded	
Other	2022-05-07 14:13	Yes	Caribou	18	Feeding	N/A	NA					-95.99325	65.060528			No	Not Exceeded	
Other	2022-05-07 14:13	Yes	Caribou	16	Walking	S	NA					-95.99926	65.051247			No	Not Exceeded	
Road	2022-05-08 13:35	Yes	Caribou	40	Walking	N	30	159	East	No		-96.40886	65.286013			No	Exceeded	Road open/closed
Road	2022-05-08 13:35	Yes	Caribou	4	Feeding	N/A	200	118	West	No		-96.05506	65.086475			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-05-09 6:38	Yes	Muskox	10	Resting	N/A	890	153	East	No		-96.47626	65.248229			Yes - Seen them the other day	Not Exceeded	
Road	2022-05-09 6:38	Yes	Caribou	5	Resting	N/A	200	111	East	No		-96.02402	65.048147			No	Not Exceeded	
Viewshed	2022-05-09 6:49		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-09 6:49		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-09 6:49		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-09 6:49		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-09 6:49		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-09 6:49		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-09 6:49		Muskox	8	Feeding	N/A	900	118	West			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-05-09 6:49		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-09 6:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-09 6:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-09 6:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-09 6:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-09 6:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-09 6:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-09 6:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-09 6:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-09 6:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-09 6:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-09 6:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-09 6:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-09 6:49		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-09 6:49		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-09 6:49		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-09 6:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-09 6:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-09 6:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-09 6:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-09 6:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-09 6:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-09 6:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-09 6:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-09 6:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-09 6:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-09 6:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-09 6:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-09 6:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-09 6:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-09 6:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-09 6:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-09 6:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-09 6:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-09 6:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-09 6:49		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-09 6:49		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-09 6:49		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-09 6:49		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-09 6:49		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-09 6:49		-	-			NA	176				-96.60379	65.38622					
Road	2022-05-10 6:39	Yes	Muskox	13	Feeding	W	30	152	West	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-05-10 6:39	Yes	Caribou	5	Feeding	N/A	350	119	West	No		-96.06476	65.093211			Yes - Seen them the other day	Not Exceeded	
Incidental	2022-05-10 11:00	Yes	Caribou	30	Not recorded	N/A	NA	154		No		-96.46296	65.254604			No	Not Exceeded	Speed restriction put in place from KM 153 - 155
Road	2022-05-11 7:17	Yes	Caribou	9	Lying Down	N/A	800	147	West	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-05-11 7:17	Yes	Caribou	6	Feeding	Not Recorded	100	156	West	No		-96.45207	65.262217			No	Not Exceeded	
Road	2022-05-11 7:17	Yes	Caribou	24	Feeding	N/A	25	178	East	No		-96.6219	65.400857			No	Not Exceeded	
Viewshed	2022-05-11 7:27		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-11 7:27		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-11 7:27		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-11 7:27		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-11 7:27		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-11 7:27		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-11 7:27		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-11 7:27		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-11 7:27		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-11 7:27		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-11 7:27		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-11 7:27		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-11 7:27		-	-			NA	128				-96.13583	65.161371					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-05-11 7:27		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-11 7:27		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-11 7:27		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-11 7:27		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-11 7:27		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-11 7:27		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-11 7:27		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-11 7:27		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-11 7:27		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-11 7:27		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-11 7:27		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-11 7:27		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-11 7:27		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-11 7:27		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-11 7:27		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-11 7:27		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-11 7:27		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-11 7:27		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-11 7:27		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-11 7:27		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-11 7:27		Caribou	6	Feeding	Not Recorded	100	156	West			-96.45207	65.262217				Not Exceeded	
Viewshed	2022-05-11 7:27		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-11 7:27		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-11 7:27		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-11 7:27		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-11 7:27		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-11 7:27		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-11 7:27		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-11 7:27		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-11 7:27		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-11 7:27		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-11 7:27		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-11 7:27		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-11 7:27		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-11 7:27		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-11 7:27		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-11 7:27		-	-			NA	176				-96.60379	65.38622					
Road	2022-05-12 9:31	Yes	Muskox	5	Feeding	N/A	500	146	East	No		-96.39801	65.226268			No	Not Exceeded	
Road	2022-05-12 9:31	Yes	Caribou	5	Standing	NW	150	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Incidental	2022-05-12 16:05	Yes	Caribou	23	Not recorded	N/A	25	111	East	No		-96.02402	65.048147			No	Not Exceeded	
Road	2022-05-13 7:13	Yes	Caribou	14	Feeding	N/A	100	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Incidental	2022-05-13 10:27	Yes	Muskox	4	Feeding	N/A	140	144	East	No		-96.00217	65.051123			No	Not Exceeded	
Road	2022-05-14 7:06	Yes	Caribou	8	Lying Down	Not Recorded	100	179	Both	No		-96.65852	65.40384			No	Not Exceeded	
Road	2022-05-15 8:13	Yes	Caribou	18	Feeding	Not Recorded	250	110	West	No		-96.04065	65.0414			No	Not Exceeded	
Road	2022-05-15 8:13	Yes	Arctic hare	1	Trotting/running	N	75	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-05-15 8:13	Yes	Arctic fox	1	Trotting/running	S	0	170	West	Yes		-96.54979	65.346648			No	Not Exceeded	
Incidental	2022-05-15 11:52	Yes	Caribou	5	Feeding	N/A	100	153	East	No	No speed restriction	-96.47626	65.248229			No	Not Exceeded	
Road	2022-05-16 12:09	Yes	Caribou	8	Resting	N/A	200	153	West	No	Location not accurate due to template being filled out in wrong server	-96.47626	65.248229			No	Not Exceeded	
Road	2022-05-16 12:09	Yes	Caribou	12	Foraging	N/A	251	111	East	No	Location not accurate due to template being filled out in wrong server	-96.02402	65.048147			No	Not Exceeded	
Incidental	2022-05-16 13:52	Yes	Caribou	22	Foraging	N/A	85	164	East	No		-96.44722	65.322562			No	Not Exceeded	
Viewshed	2022-05-17 12:45		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-17 12:45		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-17 12:45		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-17 12:45		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-17 12:45		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-17 12:45		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-17 12:45		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-17 12:45		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-17 12:45		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-17 12:45		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-17 12:45		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-17 12:45		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-17 12:45		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-17 12:45		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-17 12:45		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-17 12:45		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-17 12:45		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-17 12:45		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-17 12:45		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-17 12:45		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-17 12:45		-	-			NA	138				-96.26018	65.2238					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-05-17 12:45		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-17 12:45		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-17 12:45		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-17 12:45		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-17 12:45		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-17 12:45		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-17 12:45		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-17 12:45		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-17 12:45		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-17 12:45		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-17 12:45		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-17 12:45		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-17 12:45		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-17 12:45		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-17 12:45		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-17 12:45		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-17 12:45		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-17 12:45		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-17 12:45		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-17 12:45		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-17 12:45		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-17 12:45		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-17 12:45		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-17 12:45		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-17 12:45		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-17 12:45		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-05-18 11:31	Yes	Caribou	18	Walking	SE	170	162	East	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-05-19 7:22	Yes	Caribou	13	Feeding	N/A	275	115	West	No		-96.00905	65.071117			No	Not Exceeded	
Road	2022-05-19 7:22	Yes	Arctic hare	1	Feeding	N/A	25	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-05-19 7:22	Yes	Muskox	5	Feeding	N/A	100	146	East	No	1 calf	-96.39801	65.226268			No	Not Exceeded	
Incidental	2022-05-19 11:22	Yes	Caribou	13	Feeding	N/A	200	161	East	No		-96.41207	65.303324			No	Not Exceeded	
Road	2022-05-20 10:02	Yes	Caribou	9	Feeding	N/A	75	165	West	No		-96.46782	65.323887			No	Not Exceeded	
Road	2022-05-20 10:02	Yes	Muskox	5	Lying Down	N/A	100	146	East	No		-96.39801	65.226268			No	Not Exceeded	
Road	2022-05-21 7:48	Yes	Rough-legged-Hawk	1	Flying	N/A	NA	149100	West	No		-96.07402	65.02206			No	Not Exceeded	
Road	2022-05-21 7:48	Yes	Caribou	10	Foraging	N/A	100	165	East	No		-96.46782	65.323887			No	Not Exceeded	
Road	2022-05-22 8:15	Yes	Rough-legged-Hawk	1	Flying	N	40	155	West	No		-96.43417	65.267612			No	Not Exceeded	
Viewshed	2022-05-22 11:55		Caribou	6	Feeding	N/A	100	116	East			-96.02061	65.080258				Not Exceeded	
Viewshed	2022-05-22 11:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-22 11:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-22 11:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-22 11:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-22 11:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-22 11:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-22 11:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-22 11:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-22 11:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-22 11:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-22 11:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-22 11:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-22 11:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-22 11:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-22 11:55		Ptarmigan	1	Walking	E	0	133	West		Standing/walking in the middle of the road. Was guide out of the road for its protection	-96.17538	65.199246				Not Exceeded	
Viewshed	2022-05-22 11:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-22 11:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-22 11:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-22 11:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-22 11:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-22 11:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-22 11:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-22 11:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-22 11:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-22 11:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-22 11:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-22 11:55		Rough-legged-Hawk	1	Flying	NE	50	154	West			-96.46296	65.254604				Not Exceeded	
Viewshed	2022-05-22 11:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-22 11:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-22 11:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-22 11:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-22 11:55		-	-			NA	156				-96.45207	65.262217					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-05-22 11:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-22 11:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-22 11:55		Greater white-fronted goose	36	Flying	SO	0	160-161	West			-96.41356	65.294293				Not Exceeded	
Viewshed	2022-05-22 11:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-22 11:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-22 11:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-22 11:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-22 11:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-22 11:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-22 11:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-22 11:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-22 11:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-22 11:55		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-22 11:55		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-22 11:55		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-22 11:55		-	-			NA	176				-96.60379	65.38622					
Road	2022-05-23 8:03	Yes	Arctic hare	1	Feeding	NW	150	132	West	No		-96.16457	65.194003			No	Not Exceeded	
Road	2022-05-23 8:03	Yes	Muskox	4	Standing	N/A	800	148	East	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-05-23 8:03	Yes	Other	1	Flying	E	20	160	Both	Yes	Seagull .	-96.41356	65.294293			No	Not Exceeded	
Incidental	2022-05-23 16:03	Yes	Caribou	26	Walking	SE	75	112	West	Yes		-96.00217	65.051123			No	Not Exceeded	
Road	2022-05-24 9:04	No					NA					NA	NA					
Road	2022-05-25 8:05	Yes	Caribou	5	Feeding	Not Recorded	50	120	East	No		-96.0728	65.100208			No	Not Exceeded	
Viewshed	2022-05-25 10:41		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-25 10:41		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-25 10:41		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-25 10:41		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-05-25 10:41		Canada goose	16	Flying	NE	200	169	East			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-05-25 10:41		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-25 10:41		Canada goose	16	Flying	NE	200	169	West			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-05-25 10:41		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-05-25 10:41		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-25 10:41		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-25 10:41		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-25 10:41		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-05-25 10:41		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-25 10:41		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-25 10:41		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-25 10:41		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-05-25 10:41		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-25 10:41		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-25 10:41		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-25 10:41		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-05-25 10:41		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-25 10:41		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-25 10:41		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-25 10:41		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-05-25 10:41		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-25 10:41		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-25 10:41		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-25 10:41		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-05-25 10:41		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-25 10:41		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-25 10:41		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-05-25 10:41		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-25 10:41		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-25 10:41		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-05-25 10:41		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-25 10:41		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-25 10:41		Caribou	5	Walking	N	400	128	West			-96.13583	65.161371				Not Exceeded	
Viewshed	2022-05-25 10:41		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-05-25 10:41		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-25 10:41		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-25 10:41		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-25 10:41		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-05-25 10:41		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-25 10:41		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-25 10:41		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-05-25 10:41		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-25 10:41		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-05-25 10:41		Caribou	2	Feeding	N/A	400	116	West			-96.02061	65.080258				Not Exceeded	
Viewshed	2022-05-25 10:41		-	-			NA	116				-96.02061	65.080258					
Incidental	2022-05-25 12:31	Yes	Caribou	5	Walking	N	400	127	West	No		-96.12549	65.153813			No	Not Exceeded	
Incidental	2022-05-25 13:07	Yes	Caribou	10	Feeding	N/A	40	110	East	No		-96.04065	65.0414			No	Not Exceeded	
Road	2022-05-29 10:00	Yes	Caribou	7	Walking	E	100	178	West	No		-96.6219	65.400857			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-05-29 10:00	Yes	Snow goose	50	Resting	N/A	300	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-05-29 10:00	Yes	Sandhill crane	2	Foraging	N/A	200	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-05-29 10:00	Yes	Snow goose	200	Resting	N/A	400	174	Both	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-05-29 10:00	Yes	Snow goose	100	Resting	N/A	600	168	East	N/A		-96.52405	65.333518			No	Not Exceeded	
Road	2022-05-31 9:20	Yes	Caribou	2	Feeding	N/A	50	123	East	No		-96.10441	65.122168			No	Not Exceeded	
Road	2022-06-01 11:36	Yes	Caribou	9	Foraging	E	100	125	East	No		-96.10792	65.139082			No	Not Exceeded	
Road	2022-06-01 11:36	Yes	Caribou	5	Resting	E	100	126	East	No		-96.11084	65.148182			No	Not Exceeded	
Road	2022-06-01 11:36	Yes	Caribou	16	Foraging	SE	200	175	West	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-06-03 7:28	Yes	Muskox	1	Walking	NW	200	140	West	No		-96.29851	65.221968			No	Not Exceeded	
Incidental	2022-06-03 12:09	Yes	Caribou	16	Walking	N	500	110	West	No		-96.04065	65.0414			No	Not Exceeded	
Road	2022-06-07 10:18	Yes	Caribou	6	Foraging	N/A	311	124	West	No		-96.10808	65.131545			No	Not Exceeded	
Road	2022-06-07 10:18	Yes	Siksik	1	Standing	W	0	123	West	No		-96.10441	65.122168			No	Not Exceeded	
Road	2022-06-07 10:18	Yes	Muskox	6	Feeding	N/A	500	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-06-09 7:22	Yes	Arctic hare	1	Feeding	N/A	75	120	East	No		-96.0728	65.100208			No	Not Exceeded	
Road	2022-06-09 7:22	Yes	Sandhill crane	2	Feeding	N/A	75	128	West	No		-96.13583	65.161371			No	Not Exceeded	
Road	2022-06-09 7:22	Yes	Muskox	11	Feeding	N/A	100	142	West	No		-96.3371	65.222192			No	Not Exceeded	
Road	2022-06-09 7:22	Yes	Arctic hare	1	Feeding	E	50	177	East	No		-96.60847	65.394344			No	Not Exceeded	
Viewshed	2022-06-09 7:24		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-06-09 7:24		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-06-09 7:24		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-06-09 7:24		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-06-09 7:24		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-06-09 7:24		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-06-09 7:24		Ptarmigan	1	Standing	Not Recorded	0	118	West			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-06-09 7:24		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-06-09 7:24		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-09 7:24		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-09 7:24		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-09 7:24		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-09 7:24		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-09 7:24		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-09 7:24		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-09 7:24		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-09 7:24		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-06-09 7:24		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-06-09 7:24		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-06-09 7:24		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-09 7:24		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-09 7:24		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-09 7:24		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-09 7:24		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-09 7:24		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-09 7:24		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-09 7:24		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-09 7:24		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-06-09 7:24		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-06-09 7:24		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-06-09 7:24		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-06-09 7:24		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-06-09 7:24		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-06-09 7:24		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-09 7:24		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-09 7:24		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-09 7:24		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-09 7:24		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-09 7:24		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-09 7:24		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-09 7:24		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-09 7:24		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-06-09 7:24		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-06-09 7:24		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-06-09 7:24		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-06-09 7:24		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-06-09 7:24		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-06-09 14:26	Yes	Muskox	3	Feeding	N/A	300	114	East	No		-96.00424	65.066791			No	Not Exceeded	
Road	2022-06-12 16:12	Yes	Bald Eagle	1	Standing	N/A	250	138	West	No	Km 138	-96.26018	65.2238			No	Not Exceeded	
Road	2022-06-12 16:12	Yes	Caribou	7	Feeding	N	800	129	West	No		-96.14593	65.169019			No	Not Exceeded	
Incidental	2022-06-14 17:12	Yes	Caribou	8	Foraging	NW	564	178	West	No	Located at base of hill, along eastern shore of lake A56	-96.6219	65.400857			No	Not Exceeded	
Road	2022-06-16 16:22	Yes	Muskox	16	Feeding	N/A	500	169	East	No		-96.53703	65.340029			No	Exceeded	Speed restriction put in place
Road	2022-06-16 16:22	Yes	Canada goose	12	Flying	N	300	148	East	N/A		-96.42744	65.220477			No	Not Exceeded	
Road	2022-06-16 16:22	Yes	Caribou	13	Walking	S	500	140	West	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-06-16 16:22	Yes	Caribou	22	Lying Down	N/A	500	133	Both	No		-96.17538	65.199246			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-06-16 16:22	Yes	Muskox	1	Resting	N/A	250	132	East	No		-96.16457	65.194003			No	Not Exceeded	
Road	2022-06-20 7:00	Yes	Muskox	2	Feeding	N/A	300	160	West	N/A		-96.41356	65.294293			No	Not Exceeded	
Road	2022-06-20 7:00	Yes	Muskox	1	Feeding	W	1	132	West	No		-96.16457	65.194003			No	Not Exceeded	
Road	2022-06-20 7:00	Yes	Muskox	1	Feeding	N/A	1	115	West	No		-96.00905	65.071117			No	Not Exceeded	
Road	2022-06-22 9:05	Yes	Muskox	1	Feeding	N/A	1	122	East	No		-96.09715	65.114773			No	Not Exceeded	
Road	2022-06-22 9:05	Yes	Canada goose	2	Flying	E	20	175	East	No		-96.60237	65.377259			No	Not Exceeded	
Viewshed	2022-06-22 13:37		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-06-22 13:37		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-06-22 13:37		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-06-22 13:37		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-06-22 13:37		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-06-22 13:37		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-06-22 13:37		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-06-22 13:37		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-22 13:37		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-22 13:37		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-22 13:37		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-22 13:37		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-22 13:37		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-22 13:37		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-06-22 13:37		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-06-22 13:37		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-06-22 13:37		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-06-22 13:37		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-06-22 13:37		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-06-22 13:37		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-22 13:37		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-22 13:37		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-22 13:37		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-22 13:37		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-22 13:37		Caribou	4	Walking	E	80	138	West			-96.26018	65.2238				Not Exceeded	
Viewshed	2022-06-22 13:37		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-22 13:37		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-06-22 13:37		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-06-22 13:37		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-06-22 13:37		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-06-22 13:37		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-22 13:37		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-22 13:37		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-22 13:37		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-22 13:37		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-22 13:37		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-22 13:37		Arctic fox	1	Walking	O	0	121-122	West			-96.08638	65.10712				Not Exceeded	
Viewshed	2022-06-22 13:37		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-22 13:37		Muskox	1	Feeding	Not Recorded	100	118	East			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-06-22 13:37		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-06-22 13:37		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-06-22 13:37		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-06-22 13:37		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-06-22 13:37		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-06-22 13:37		-	-			NA	116				-96.02061	65.080258					
Road	2022-06-24 9:31	Yes	Muskox	1	Lying Down	N/A	500	178	West	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-06-24 9:31	Yes	Muskox	1	Foraging	N/A	50	136	West	No		-96.2274	65.213075			No	Not Exceeded	
Road	2022-06-24 9:31	Yes	Muskox	2	Feeding	N/A	250	117	West	No		-96.03942	65.0837			No	Not Exceeded	
Road	2022-06-26 7:45	Yes	Muskox	1	Foraging	N/A	200	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-06-26 7:45	Yes	Caribou	2	Foraging	N/A	300	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-06-26 7:45	Yes	Wolf	1	Trotting/running	SE	200	136	East	No		-96.2274	65.213075			No	Not Exceeded	
Road	2022-06-26 7:45	Yes	Siksik	1	Dead	N/A	0	133	Both	N/A		-96.17538	65.199246		Project related	No	Not Exceeded	
Incidental	2022-06-26 10:16	Yes	Muskox	5	Foraging	N/A	400	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-06-28 13:15	Yes	Muskox	1	Foraging	N/A	400	111	West	No		-96.02402	65.048147			No	Not Exceeded	
Road	2022-06-28 13:15	Yes	Arctic fox	1	Walking	W	0	117	Both	Yes		-96.03942	65.0837			No	Not Exceeded	
Incidental	2022-06-29 7:40	Yes	Muskox	1	Feeding	N/A	5	116	East	No		-96.02061	65.080258			No	Not Exceeded	
Road	2022-06-30 6:50	Yes	Muskox	1	Foraging	Not Recorded	300	111	East	No		-96.02402	65.048147			No	Not Exceeded	
Viewshed	2022-06-30 6:51		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-06-30 6:51		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-06-30 6:51		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-06-30 6:51		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-06-30 6:51		Arctic hare	1	Running	E	0	118	East			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-06-30 6:51		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-06-30 6:51		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-06-30 6:51		-	-			NA	118				-96.05506	65.086475					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-06-30 6:51		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-30 6:51		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-30 6:51		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-30 6:51		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-06-30 6:51		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-30 6:51		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-30 6:51		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-06-30 6:51		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-06-30 6:51		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-06-30 6:51		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-06-30 6:51		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-30 6:51		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-30 6:51		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-30 6:51		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-06-30 6:51		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-30 6:51		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-30 6:51		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-30 6:51		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-06-30 6:51		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-06-30 6:51		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-06-30 6:51		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-06-30 6:51		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-06-30 6:51		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-06-30 6:51		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-06-30 6:51		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-30 6:51		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-30 6:51		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-30 6:51		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-06-30 6:51		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-30 6:51		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-30 6:51		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-30 6:51		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-06-30 6:51		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-06-30 6:51		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-06-30 6:51		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-06-30 6:51		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-06-30 6:51		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-06-30 6:51		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-06-30 6:51		-	-			NA	176				-96.60379	65.38622					
Road	2022-07-04 7:50	Yes	Muskox	1	Foraging	N/A	600	121	East	No		-96.08638	65.10712			No	Not Exceeded	
Road	2022-07-04 7:50	Yes	Muskox	1	Resting	N/A	350	130	East	No		-96.1528	65.17815			No	Not Exceeded	
Road	2022-07-06 7:16	Yes	Muskox	1	Feeding	N/A	30	111	East	No		-96.02402	65.048147			No	Not Exceeded	
Road	2022-07-06 7:16	Yes	Muskox	7	Feeding	NE	100	116	West	No		-96.02061	65.080258			No	Not Exceeded	
Road	2022-07-06 7:16	Yes	Canada goose	5	Flying	S	50	135	West	No		-96.20801	65.208904			No	Not Exceeded	
Viewshed	2022-07-06 17:09		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-06 17:09		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-06 17:09		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-06 17:09		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-06 17:09		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-06 17:09		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-06 17:09		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-06 17:09		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-06 17:09		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-06 17:09		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-06 17:09		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-06 17:09		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-06 17:09		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-06 17:09		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-06 17:09		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-06 17:09		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-06 17:09		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-06 17:09		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-06 17:09		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-06 17:09		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-06 17:09		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-06 17:09		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-06 17:09		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-06 17:09		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-06 17:09		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-06 17:09		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-06 17:09		-	-			NA	169				-96.53703	65.340029					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-07-06 17:09		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-06 17:09		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-06 17:09		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-06 17:09		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-06 17:09		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-06 17:09		Muskox	7	Feeding	SO	100	116	West			-96.02061	65.080258				Not Exceeded	
Viewshed	2022-07-06 17:09		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-06 17:09		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-06 17:09		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-06 17:09		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-06 17:09		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-06 17:09		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-06 17:09		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-06 17:09		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-06 17:09		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-06 17:09		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-06 17:09		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-06 17:09		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-06 17:09		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-06 17:09		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-06 17:09		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-06 17:09		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-06 17:09		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-07-07 17:25	Yes	Muskox	1	Foraging	W	5	122	West,East	Yes		-96.09715	65.114773			No	Not Exceeded	
Incidental	2022-07-07 17:31	Yes	Caribou	1	Running	S	0	119	West	Yes		-96.06476	65.093211			No	Not Exceeded	
Road	2022-07-11 13:42	Yes	Muskox	2	Resting	N/A	200	112	West	No		-96.00217	65.051123			No	Not Exceeded	
Road	2022-07-11 13:42	Yes	Muskox	1	Feeding	N/A	600	127	West	No		-96.12549	65.153813			No	Not Exceeded	
Road	2022-07-11 13:42	Yes	Muskox	1	Feeding	N/A	100	140	West	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-07-11 13:42	Yes	Canada goose	17	Resting	N/A	100	175	West	No		-96.60237	65.377259			No	Not Exceeded	
Incidental	2022-07-11 16:49	Yes	Caribou	1	Running	SE	0	155	East	Yes		-96.43417	65.267612			No	Not Exceeded	
Road	2022-07-15 13:01	Yes	Muskox	5	Feeding	N/A	80	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-07-15 13:01	Yes	Wolf	1	Walking	S	10	123	West	No		-96.10441	65.122168			No	Not Exceeded	
Road	2022-07-15 13:01	Yes	Wolf	1	Feeding	N	200	122	East	No	Ripping up a ground squirrel	-96.09715	65.114773			No	Not Exceeded	
Viewshed	2022-07-15 13:03		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-15 13:03		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-15 13:03		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-15 13:03		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-15 13:03		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-15 13:03		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-15 13:03		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-15 13:03		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-15 13:03		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-15 13:03		Muskox	5	Feeding	N/A	80	166	West			-96.48819	65.325287				Not Exceeded	
Viewshed	2022-07-15 13:03		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-15 13:03		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-15 13:03		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-15 13:03		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-15 13:03		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-15 13:03		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-15 13:03		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-15 13:03		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-15 13:03		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-15 13:03		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-15 13:03		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-15 13:03		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-15 13:03		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-15 13:03		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-15 13:03		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-15 13:03		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-15 13:03		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-15 13:03		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-15 13:03		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-15 13:03		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-15 13:03		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-15 13:03		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-15 13:03		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-15 13:03		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-15 13:03		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-15 13:03		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-15 13:03		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-15 13:03		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-15 13:03		Wolf	1	Feeding	N	200	121-122	West		Ripping up ground squirrel	-96.08638	65.10712				Not Exceeded	
Viewshed	2022-07-15 13:03		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-15 13:03		-	-			NA	118				-96.05506	65.086475					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-07-15 13:03		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-15 13:03		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-15 13:03		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-15 13:03		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-15 13:03		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-15 13:03		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-15 13:03		-	-			NA	116				-96.02061	65.080258					
Road	2022-07-19 8:55	Yes	Caribou	1	Walking	W	1000	178	West	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-07-19 8:55	Yes	Muskox	8	Walking	W	0	153	West	Yes		-96.47626	65.248229			No	Not Exceeded	
Road	2022-07-19 8:55	Yes	Wolf	1	Walking	E	200	150	West	No		-96.45008	65.230216			No	Not Exceeded	
Viewshed	2022-07-19 14:05		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-19 14:05		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-19 14:05		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-19 14:05		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-19 14:05		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-19 14:05		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-19 14:05		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-19 14:05		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-19 14:05		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-19 14:05		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-19 14:05		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-19 14:05		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-19 14:05		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-19 14:05		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-19 14:05		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-19 14:05		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-19 14:05		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-19 14:05		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-19 14:05		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-19 14:05		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-19 14:05		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-19 14:05		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-19 14:05		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-19 14:05		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-19 14:05		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-19 14:05		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-19 14:05		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-19 14:05		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-19 14:05		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-19 14:05		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-19 14:05		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-19 14:05		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-19 14:05		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-19 14:05		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-19 14:05		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-19 14:05		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-19 14:05		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-19 14:05		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-19 14:05		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-19 14:05		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-19 14:05		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-07-23 1:52	Yes	Arctic hare	1	Dead	N/A	0	135	North	Yes		-96.20801	65.208904		Project related	No	Not Exceeded	
Incidental	2022-07-23 7:50	Yes	Peregrine falcon	1	Standing	N/A	100	174	West	No		-96.60128	65.368315			No	Not Exceeded	
Incidental	2022-07-23 8:00	Yes	Arctic hare	1	Dead	N/A	0	143	East	No		-96.35797	65.223666		Project related	No	Not Exceeded	
Incidental	2022-07-23 13:54	Yes	Peregrine falcon	2	Nesting	N/A	50	132	West	No	There might be a nest in or close to the tower. To monitor	-96.16457	65.194003			No	Not Exceeded	
Road	2022-07-24 6:40	Yes	Caribou	1	Foraging	N/A	200	159	East	No	Coordinates not good. Put the data after the survey.	-96.40886	65.286013			No	Not Exceeded	
Road	2022-07-24 6:40	Yes	Muskox	23	Foraging	N/A	150	163	West	No	Not the good coordinates, entered the survey after.	-96.4304	65.317408			No	Exceeded	Speed Restriction
Incidental	2022-07-27 13:45	Yes	Muskox	14	Feeding	N	100	155	West	No		-96.43417	65.267612			No	Exceeded	Reduced speed limit on the road to 30 km/h between KM 154-156 around 13:45, remove the measure around 17:00 when we passed by again (no more muskoxs)
Road	2022-07-28 6:43	Yes	Muskox	19	Foraging	N/A	800	165	West	No		-96.46782	65.323887			No	Exceeded	Speed restriction put in place
Road	2022-07-28 6:43	Yes	Arctic fox	2	Running	N	0	176	Both	Yes		-96.60379	65.38622			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-07-28 6:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-28 6:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-28 6:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-28 6:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-28 6:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-28 6:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-28 6:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-28 6:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-28 6:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-28 6:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-28 6:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-28 6:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-28 6:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-28 6:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-28 6:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-28 6:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-28 6:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-28 6:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-28 6:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-28 6:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-28 6:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-28 6:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-28 6:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-28 6:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-28 6:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-28 6:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-28 6:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-28 6:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-28 6:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-28 6:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-28 6:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-28 6:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-28 6:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-28 6:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-28 6:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-28 6:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-28 6:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-28 6:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-28 6:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-28 6:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-28 6:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-28 6:44		Muskox	19	Foraging	Not Recorded	900	166	West			-96.48819	65.325287				Exceeded	Speed restriction put in place
Viewshed	2022-07-28 6:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-07-28 6:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-28 6:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-28 6:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-28 6:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-28 6:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-28 6:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-28 6:44		Arctic fox	1	Running	N	0	176	West			-96.60379	65.38622				Not Exceeded	
Viewshed	2022-07-28 6:44		-	-			NA	176				-96.60379	65.38622					
Road	2022-07-30 12:38	Yes	Muskox	13	Lying Down	N/A	100	156	West	No		-96.45207	65.262217			No	Not Exceeded	
Road	2022-07-30 12:38	Yes	Arctic fox	1	Running	E	0	147	East	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-07-30 12:38	Yes	Muskox	10	Lying Down	N/A	200	117	West	No		-96.03942	65.0837			No	Not Exceeded	
Incidental	2022-07-30 15:15	Yes	Muskox	7	Walking	S	0	116	South	Yes		-96.02061	65.080258			No	Not Exceeded	
Road	2022-07-31 8:00	Yes	Wolf	1	Walking	E	0	109	Both	N/A	MBK Y near portage WRSF. The wolf was on the road walking towards the tailings. We chase him with the pick-up truck towards old sana crusher pad until the wolf ran in the tundra headind to np1 lake.	-96.06565	65.020529			No	Not Exceeded	
Viewshed	2022-07-31 10:50		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-31 10:50		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-31 10:50		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-31 10:50		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-07-31 10:50		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-31 10:50		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-31 10:50		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-31 10:50		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-31 10:50		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-07-31 10:50		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-31 10:50		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-31 10:50		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-31 10:50		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-07-31 10:50		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-31 10:50		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-31 10:50		-	-			NA	156				-96.45207	65.262217					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-07-31 10:50		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-07-31 10:50		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-31 10:50		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-31 10:50		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-31 10:50		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-07-31 10:50		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-31 10:50		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-31 10:50		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-31 10:50		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-07-31 10:50		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-31 10:50		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-31 10:50		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-31 10:50		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-07-31 10:50		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-31 10:50		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-31 10:50		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-31 10:50		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-07-31 10:50		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-31 10:50		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-31 10:50		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-31 10:50		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-07-31 10:50		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-31 10:50		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-31 10:50		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-31 10:50		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-07-31 10:50		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-31 10:50		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-31 10:50		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-31 10:50		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-07-31 10:50		Caribou	1	Walking	N	100	116	East			-96.02061	65.080258				Not Exceeded	
Viewshed	2022-07-31 10:50		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-31 10:50		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-07-31 10:50		-	-			NA	116				-96.02061	65.080258					
Road	2022-08-01 13:59	Yes	Muskox	1	Feeding	N/A	100	118	West	No		-96.05506	65.086475			No	Not Exceeded	
Road	2022-08-01 13:59	Yes	Wolf	1	Walking	S	0	114	East	No		-96.00424	65.066791			No	Not Exceeded	
Incidental	2022-08-01 17:09	Yes	Muskox	13	Foraging	N/A	1500	154	West	No		-96.46296	65.254604			No	Not Exceeded	
Road	2022-08-02 6:56	Yes	Muskox	2	Foraging	N/A	400	136	West	No		-96.2274	65.213075			No	Not Exceeded	
Road	2022-08-02 6:56	Yes	Caribou	7	Foraging	E	600	145	East	No		-96.3769	65.224218			No	Not Exceeded	
Incidental	2022-08-02 9:58	Yes	Caribou	15	Lying Down	N/A	600	169	East	No		-96.53703	65.340029			No	Not Exceeded	
Incidental	2022-08-02 11:47	Yes	Muskox	2	Feeding	N/A	10	137	East	No		-96.2415	65.219441			No	Not Exceeded	
Road	2022-08-03 10:38	Yes	Caribou	11	Foraging	N/A	300	169	East	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-08-03 10:38	Yes	Caribou	1	Walking	N/A	600	168	East	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-03 10:38	Yes	Muskox	2	Foraging	N/A	15	135	Both	No		-96.20801	65.208904			No	Not Exceeded	
Road	2022-08-04 7:50	Yes	Muskox	1	Feeding	N/A	300	116	East	No		-96.02061	65.080258			No	Not Exceeded	
Road	2022-08-04 7:50	Yes	Muskox	3	Feeding	N/A	600	137	West	No		-96.2415	65.219441			No	Not Exceeded	
Road	2022-08-04 7:50	Yes	Muskox	1	Walking	E	150	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-08-04 7:50	Yes	Muskox	10	Trotting/running	W	800	151	East	No		-96.46622	65.234469			No	Not Exceeded	
Incidental	2022-08-04 10:23	Yes	Caribou	6	Walking	N	200	160	East	No	Caribous walking away from the road	-96.41356	65.294293			No	Not Exceeded	
Incidental	2022-08-04 10:53	Yes	Muskox	1	Feeding	N/A	400	156	West	No		-96.45207	65.262217			No	Not Exceeded	
Road	2022-08-05 6:36	Yes	Muskox	2	Lying Down	N/A	50	116	East	No		-96.02061	65.080258			No	Not Exceeded	
Road	2022-08-05 6:36	Yes	Muskox	1	Lying Down	N/A	300	127	West	No		-96.12549	65.153813			No	Not Exceeded	
Road	2022-08-06 7:11	Yes	Caribou	4	Feeding	N/A	1500	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-06 7:11	Yes	Caribou	1	Feeding	N/A	100	176	East	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-06 7:11	Yes	Caribou	1	Feeding	Not Recorded	152	172	West	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-06 7:11	Yes	Caribou	2	Feeding	N/A	40	170	East	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-06 7:11	Yes	Caribou	2	Standing	N/A	50	147	East	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-08-06 7:11	Yes	Caribou	1	Feeding	NE	630	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-08-07 8:27	Yes	Muskox	9	Feeding	N/A	50	156	West	No		-96.45207	65.262217			No	Not Exceeded	
Road	2022-08-07 8:27	Yes	Caribou	1	Walking	W	50	110	West	No		-96.04065	65.0414			No	Not Exceeded	
Road	2022-08-08 6:28	Yes	Muskox	1	Resting	N/A	350	123	West	No		-96.10441	65.122168			No	Not Exceeded	
Road	2022-08-08 6:28	Yes	Muskox	10	Foraging	N/A	300	165	West	N/A		-96.46782	65.323887			No	Not Exceeded	
Road	2022-08-08 6:28	Yes	Caribou	4	Walking	S	250	168	East	No		-96.52405	65.333518			No	Not Exceeded	
Incidental	2022-08-08 8:44	Yes	Caribou	1	Feeding	N/A	60	179	East	No		-96.00217	65.051123			No	Not Exceeded	
Viewshed	2022-08-08 8:49		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-08 8:49		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-08 8:49		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-08 8:49		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-08 8:49		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-08 8:49		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-08 8:49		Caribou	1	Feeding	N	350	169	West			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-08-08 8:49		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-08 8:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-08 8:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-08 8:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-08 8:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-08 8:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-08 8:49		-	-			NA	160-161				-96.41356	65.294293					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-08-08 8:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-08 8:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-08 8:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-08 8:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-08 8:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-08 8:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-08 8:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-08 8:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-08 8:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-08 8:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-08 8:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-08 8:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-08 8:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-08 8:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-08 8:49		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-08 8:49		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-08 8:49		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-08 8:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-08 8:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-08 8:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-08 8:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-08 8:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-08 8:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-08 8:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-08 8:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-08 8:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-08 8:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-08 8:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-08 8:49		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-08 8:49		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-08 8:49		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-08 8:49		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-08 8:49		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-08 8:49		-	-			NA	116				-96.02061	65.080258					
Road	2022-08-09 8:07	Yes	Muskox	6	Feeding	N/A	1100	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-08-09 8:07	Yes	Caribou	1	Lying Down	N/A	60	161	West	No	Speed restriction in place from 160-162	-96.41207	65.30324			No	Not Exceeded	
Road	2022-08-09 8:07	Yes	Caribou	8	Feeding	N/A	1	166	East	Yes		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-09 8:07	Yes	Caribou	25	Feeding	Not Recorded	100	169	Both	No	Speed restriction in place 166-170. Caribou are spread out really far.	-96.53703	65.340029			No	Not Exceeded	
Road	2022-08-09 8:07	Yes	Caribou	4	Feeding	Not Recorded	120	170	East	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-09 8:07	Yes	Caribou	8	Walking	S	25	173	East	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-09 8:07	Yes	Caribou	1	Standing	N/A	25	177	East	No		-96.60847	65.394344			No	Not Exceeded	
Incidental	2022-08-09 13:14	Yes	Caribou	1	Standing	N	700	146	East	No		-96.39801	65.226268			No	Not Exceeded	
Incidental	2022-08-09 13:26	Yes	Muskox	1	Lying Down	Not Recorded	10	137	East	No		-96.2415	65.219441			No	Not Exceeded	
Road	2022-08-10 7:00	Yes	Caribou	2	Walking	E	0	117	East	Yes		-96.03942	65.0837			No	Not Exceeded	
Road	2022-08-10 7:00	Yes	Caribou	2	Feeding	N/A	450	143	East	No		-96.35797	65.223666			No	Not Exceeded	
Road	2022-08-10 7:00	Yes	Caribou	133	Walking	S	0	167	Both	Yes	Road closed	-96.5061	65.328371			No	Exceeded	Road closed
Road	2022-08-10 7:00	Yes	Caribou	44	Feeding	E	37	169	Both	No	Scattered groupe	-96.53703	65.340029			No	Exceeded	Road closed
Road	2022-08-10 7:00	Yes	Caribou	7	Feeding	N/A	75	171	East	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-08-10 7:00	Yes	Caribou	1	Running	W	100	172	West	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-10 7:00	Yes	Caribou	7	Feeding	N/A	75	174	Both	No	Scattered individual	-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-10 7:00	Yes	Caribou	11	Feeding	N/A	50	176	Both	No	Scattered group	-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-10 7:00	Yes	Caribou	1	Walking	W	120	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-10 7:00	Yes	Caribou	1	Injured	SE	50	178	East	No	Limping caribou	-96.6219	65.400857			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	2	Feeding	N/A	75	178	East	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	3	Feeding	N/A	50	177	Both	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	1	Feeding	N/A	900	175	West	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	7	Resting	N/A	500	175	East	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	5	Walking	S	25	174	Both	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	15	Walking	N	100	172	Both	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	13	Feeding	N/A	0	171	Both	Yes		-96.5686	65.351995			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	10	Walking	E	0	170	East	Yes		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	22	Feeding	N/A	30	169	East	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	12	Walking	E	300	168	East	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	2	Feeding	N/A	400	167	East	No		-96.5061	65.328371			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	12	Feeding	Not Recorded	70	165	East	No		-96.46782	65.323887			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	3	Feeding	N/A	450	161	Both	No		-96.41207	65.30324			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	3	Feeding	Not Recorded	100	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	1	Feeding	Not Recorded	20	147	West	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Caribou	1	Feeding	Not Recorded	200	139	East	No		-96.27997	65.226857			No	Not Exceeded	
Road	2022-08-10 13:58	Yes	Muskox	1	Feeding	Not Recorded	700	133	East	No		-96.17538	65.199246			No	Not Exceeded	
Road	2022-08-11 7:30	Yes	Caribou	4	Walking	S	700	139	East	No		-96.27997	65.226857			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-08-11 7:30	Yes	Caribou	3	Feeding	N/A	400	152	East	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-08-11 7:30	Yes	Caribou	1	Walking	S	400	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Viewshed	2022-08-11 7:37		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-11 7:37		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-11 7:37		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-11 7:37		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-11 7:37		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-11 7:37		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-11 7:37		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-11 7:37		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-11 7:37		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-11 7:37		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-11 7:37		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-11 7:37		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-11 7:37		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-11 7:37		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-11 7:37		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-11 7:37		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-11 7:37		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-11 7:37		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-11 7:37		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-11 7:37		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-11 7:37		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-11 7:37		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-11 7:37		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-11 7:37		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-11 7:37		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-11 7:37		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-11 7:37		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-11 7:37		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-11 7:37		Muskox	13	Lying Down	N/A	2000	154	West			-96.46296	65.254604				Exceeded	No mitigation measures required as group was more than 1500 m from road
Viewshed	2022-08-11 7:37		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-11 7:37		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-11 7:37		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-11 7:37		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-11 7:37		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-11 7:37		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-11 7:37		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-11 7:37		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-11 7:37		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-11 7:37		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-11 7:37		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-11 7:37		Caribou	1	Walking	S	400	166	West			-96.48819	65.325287				Not Exceeded	
Viewshed	2022-08-11 7:37		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-11 7:37		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-11 7:37		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-11 7:37		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-11 7:37		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-11 7:37		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-11 7:37		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-08-11 14:14	Yes	Caribou	8	Walking	N	200	175	East	No		-96.60237	65.377259			No	Not Exceeded	
Incidental	2022-08-11 16:08	Yes	Caribou	3	Feeding	N/A	300	148	East	No		-96.42744	65.220477			No	Not Exceeded	
Incidental	2022-08-11 16:39	Yes	Caribou	19	Feeding	S	250	143	East	No	Speed restriction	-96.35797	65.223666			No	Not Exceeded	
Incidental	2022-08-11 17:16	Yes	Caribou	34	Walking	S	0	140	East	Yes		-96.29851	65.221968			No	Exceeded	Speed Restriction
Road	2022-08-12 7:00	Yes	Muskox	1	Standing	N/A	500	143	East	No		-96.35797	65.223666			No	Not Exceeded	
Road	2022-08-12 7:00	Yes	Caribou	5	Walking	N	500	145	East	No		-96.3769	65.224218			No	Not Exceeded	
Road	2022-08-12 7:00	Yes	Caribou	25	Walking	W	1000	146	East	No		-96.39801	65.226268			No	Not Exceeded	
Road	2022-08-12 7:00	Yes	Caribou	11	Walking	N	60	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-08-12 7:00	Yes	Caribou	3	Feeding	N/A	60	152	East	N/A		-96.47617	65.241762			No	Not Exceeded	
Road	2022-08-12 7:00	Yes	Caribou	2	Walking	N	40	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-08-12 7:00	Yes	Muskox	12	Lying Down	N/A	610	163	West	No		-96.4304	65.317408			No	Not Exceeded	
Road	2022-08-12 7:00	Yes	Caribou	13	Walking	N	263	167	East	No		-96.5061	65.328371			No	Not Exceeded	
Road	2022-08-12 7:00	Yes	Caribou	3	Walking	E	150	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-12 7:00	Yes	Caribou	9	Feeding	N/A	243	172	East	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Caribou	5	Feeding	N/A	80	148	East	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Caribou	11	Feeding	N/A	150	152	East	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Caribou	2	Feeding	N/A	550	158	East	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Caribou	5	Feeding	E	200	160	East	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Muskox	11	Feeding	W	60	160	West	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Caribou	5	Feeding	SW	200	166	East	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Caribou	1	Feeding	N/A	90	167	East	No		-96.5061	65.328371			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Caribou	1	Walking	W	80	168	West	No		-96.52405	65.333518			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-08-13 8:51	Yes	Caribou	2	Feeding	SW	140	169	West	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Caribou	3	Feeding	N/A	65	170	East	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Caribou	1	Feeding	SW	250	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-13 8:51	Yes	Caribou	8	Feeding	N/A	100	176	East	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Caribou	1	Walking	E	110	137	East	No	Speed restriction from 136-138 9:15am	-96.2415	65.219441			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Caribou	1	Feeding	S	160	140	West	No	Speed restriction extended to 142 at 9:40	-96.29851	65.221968			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Muskox	1	Lying Down	N/A	50	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Caribou	5	Walking	N	50	150	West	Deflection	Deflected by long haul. Speed restriction maintained 149-153 for now.	-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Caribou	3	Feeding	N/A	200	153	West	No	Speed restriction from yesterday still applies here 149-153	-96.47626	65.248229			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Muskox	8	Feeding	N/A	1000	156	West	No	No speed restriction	-96.45207	65.262217			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Caribou	4	Lying Down	N/A	130	159	East	No	Within speed restriction 159-161	-96.40886	65.286013			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Caribou	4	Walking	W	50	162	West	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Caribou	8	Feeding	N/A	0	167	East	No	Caribou crossing at 167.5 stayed in the road for 40 minutes □ Speed restriction extended □ 158-168 as of 11:45am	-96.5061	65.328371			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Caribou	6	Feeding	E	45	170	East	No	Extended speed restriction to	-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Caribou	2	Feeding	NW	30	171	West	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-08-14 8:22	Yes	Caribou	3	Feeding	N/A	60	176	Both	No	Extended speed restriction 158-Amaruq	-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-15 10:44	Yes	Caribou	2	Feeding	N/A	100	178	West	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-08-15 10:44	Yes	Caribou	1	Standing	Not Recorded	100	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-15 10:44	Yes	Caribou	1	Feeding	N/A	150	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-15 10:44	Yes	Caribou	2	Feeding	N/A	10	172	East	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-15 10:44	Yes	Caribou	5	Standing	N/A	150	161	East	No		-96.41207	65.30324			No	Not Exceeded	
Road	2022-08-15 10:44	Yes	Caribou	3	Feeding	N	300	160	East	No	Included in speed restriction 160-162	-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-15 10:44	Yes	Caribou	1	Feeding	N/A	1	152	East	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-08-15 10:44	Yes	Caribou	2	Walking	N	10	151	East	No		-96.46622	65.234469			No	Not Exceeded	
Road	2022-08-15 10:44	Yes	Caribou	1	Feeding	N/A	10	142	East	No		-96.3371	65.222192			No	Not Exceeded	
Road	2022-08-16 7:42	Yes	Sandhill crane	1	Flying	E	0	130	Both	Yes		-96.1528	65.17815			No	Not Exceeded	
Road	2022-08-16 7:42	Yes	Snow goose	13	Resting	N/A	75	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-16 7:42	Yes	Caribou	6	Feeding	N/A	50	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-08-16 7:42	Yes	Caribou	8	Lying Down	N/A	5	159	East	No	speed restriction extended 152-159	-96.40886	65.286013			No	Not Exceeded	
Road	2022-08-16 7:42	Yes	Caribou	1	Walking	SW	50	168	West	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-16 7:42	Yes	Caribou	2	Feeding	N/A	75	169	West	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-08-16 7:42	Yes	Caribou	1	Feeding	N/A	10	171	West	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-08-16 7:42	Yes	Caribou	4	Feeding	Not Recorded	25	173	Both	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-16 7:42	Yes	Caribou	4	Feeding	N/A	25	175	Both	No		-96.60237	65.377259			No	Not Exceeded	
Incidental	2022-08-16 11:32	Yes	Caribou	5	Walking	W	250	163	West	No		-96.4304	65.317408			No	Not Exceeded	
Incidental	2022-08-16 12:23	Yes	Caribou	2	Feeding	N/A	50	149	West	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Canada goose	31	Flying	E	0	122	Both	Yes		-96.09715	65.114773			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Sandhill crane	1	Flying	N	75	128	West	No		-96.13583	65.161371			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Canada goose	15	Standing	N/A	50	130	East	No		-96.1528	65.17815			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Siksik	1	Running	N	50	132	West	Yes	Crossing the road at the air station, not haul road.	-96.16457	65.194003			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Canada goose	9	Flying	W	0	140	Both	Yes		-96.29851	65.221968			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Caribou	4	Feeding	N/A	50	149	Both	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Caribou	8	Feeding	N/A	25	151	East	No		-96.46622	65.234469			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Muskox	1	Feeding	NW	600	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Caribou	1	Feeding	N/A	50	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Canada goose	16	Resting	N/A	100	162	East	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Caribou	2	Feeding	N/A	25	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Caribou	5	Feeding	N/A	50	169	West	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Caribou	12	Walking	N	600	172	West	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Caribou	6	Walking	SE	400	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Caribou	1	Feeding	N/A	75	175	West	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-17 7:23	Yes	Caribou	5	Feeding	N/A	100	177	Both	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-18 14:39	Yes	Muskox	5	Resting	N/A	10	109	East	No		-96.04183	65.03949			No	Not Exceeded	
Road	2022-08-18 14:39	Yes	Caribou	2	Feeding	N/A	10	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-18 14:39	Yes	Caribou	7	Standing	N/A	15	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-08-18 14:39	Yes	Muskox	1	Foraging	N/A	90	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-08-18 14:39	Yes	Caribou	1	Foraging	N/A	40	147	West	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-08-18 14:39	Yes	Caribou	1	Foraging	N	280	137	East	No		-96.2415	65.219441			No	Not Exceeded	
Road	2022-08-18 14:39	Yes	Caribou	2	Walking	SW	0	136	Both	Yes		-96.2274	65.213075			No	Not Exceeded	
Road	2022-08-18 14:39	Yes	Muskox	1	Foraging	N/A	350	123	West	No		-96.10441	65.122168			No	Not Exceeded	
Viewshed	2022-08-19 7:16		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-19 7:16		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-19 7:16		-	-			NA	116				-96.02061	65.080258					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-08-19 7:16		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-19 7:16		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-19 7:16		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-19 7:16		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-19 7:16		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-19 7:16		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-19 7:16		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-19 7:16		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-19 7:16		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-19 7:16		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-19 7:16		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-19 7:16		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-19 7:16		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-19 7:16		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-19 7:16		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-19 7:16		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-19 7:16		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-19 7:16		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-19 7:16		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-19 7:16		Caribou	2	Feeding	E	50	138	West			-96.26018	65.2238				Not Exceeded	
Viewshed	2022-08-19 7:16		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-19 7:16		Caribou	5	Walking	E	500	144	East		Walking further from the road. But expected to be coming back west.	-96.35797	65.223666				Not Exceeded	
Viewshed	2022-08-19 7:16		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-19 7:16		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-19 7:16		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-19 7:16		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-19 7:16		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-19 7:16		Crow	1	Flying	E	0	154	West			-96.46296	65.254604				Not Exceeded	
Viewshed	2022-08-19 7:16		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-19 7:16		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-19 7:16		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-19 7:16		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-19 7:16		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-19 7:16		Caribou	1	Trotting/running	E	200	160-161	East			-96.41356	65.294293				Not Exceeded	
Viewshed	2022-08-19 7:16		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-19 7:16		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-19 7:16		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-19 7:16		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-19 7:16		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-19 7:16		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-19 7:16		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-19 7:16		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-19 7:16		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-19 7:16		Caribou	5	Walking	O	200	169	West			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-08-19 7:16		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-19 7:16		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-19 7:16		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-19 7:16		Caribou	14	Feeding	O	400	176	West			-96.60379	65.38622				Not Exceeded	
Viewshed	2022-08-19 7:16		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-08-19 8:13	Yes	Caribou	1	Walking	W	900	136	West	No		-96.2274	65.213075			No	Not Exceeded	
Incidental	2022-08-19 8:16	Yes	Caribou	2	Feeding	E	50	137	West	No	Speed restriction 136-137	-96.2415	65.219441			No	Not Exceeded	
Incidental	2022-08-19 8:47	Yes	Caribou	1	Feeding	N/A	100	147	East	No	Speed restriction extended to 143-148	-96.41835	65.227863			No	Not Exceeded	
Incidental	2022-08-19 9:23	Yes	Caribou	10	Feeding	W	10	162	West,East	No	Speed restriction 160-164	-96.4168	65.311548			No	Not Exceeded	
Incidental	2022-08-19 9:45	Yes	Caribou	14	Walking	W	20	169	West	No	Speed restriction will be in place once evaluated down the road more.	-96.53703	65.340029			No	Not Exceeded	
Incidental	2022-08-19 9:57	Yes	Caribou	7	Feeding	N/A	300	172	West	No	Will put speed restriction once road firther evaluated	-96.58667	65.355041			No	Not Exceeded	
Incidental	2022-08-19 10:04	Yes	Caribou	1	Feeding	N/A	20	177	West	No	Speed restriction in place 166-AMQ	-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-19 10:38	Yes	Caribou	15	Foraging	S	50	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-19 10:38	Yes	Caribou	7	Foraging	N/A	80	173	Both	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-19 10:38	Yes	Caribou	10	Foraging	N/A	200	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-19 10:38	Yes	Caribou	5	Foraging	S	700	164	West	No		-96.44722	65.322562			No	Not Exceeded	
Road	2022-08-19 10:38	Yes	Caribou	2	Foraging	S	500	161	West	No		-96.41207	65.30324			No	Not Exceeded	
Road	2022-08-19 10:38	Yes	Caribou	3	Foraging	S	20	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-08-19 10:38	Yes	Caribou	4	Foraging	S	500	148	West	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-08-19 10:38	Yes	Muskox	4	Foraging	S	25	142	West	No		-96.3371	65.222192			No	Not Exceeded	
Road	2022-08-19 10:38	Yes	Caribou	5	Foraging	N/A	600	137	West	No		-96.2415	65.219441			No	Not Exceeded	
Incidental	2022-08-19 16:18	Yes	Caribou	5	Feeding	Not Recorded	25	148	West,East	No	Covered in current speed restriction from 143-148. □ □ Visibility is low due to smog.	-96.42744	65.220477			No	Not Exceeded	
Incidental	2022-08-19 16:31	Yes	Caribou	7	Feeding	N/A	500	178	West	No		-96.6219	65.400857			No	Not Exceeded	
Incidental	2022-08-19 16:35	Yes	Caribou	5	Feeding	N/A	50	176	West,East	No		-96.60379	65.38622			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-08-19 16:43	Yes	Caribou	1	Feeding	N/A	1000	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Incidental	2022-08-19 16:45	Yes	Caribou	1	Feeding	N/A	200	168	West	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-20 7:49	Yes	Caribou	1	Foraging	N/A	350	127	East	No		-96.12549	65.153813			No	Not Exceeded	
Road	2022-08-20 7:49	Yes	Caribou	5	Foraging	E	350	147	East	No		-96.41835	65.227863			Yes - Seen them the other day around this area so could the same group.	Not Exceeded	
Road	2022-08-20 7:49	Yes	Caribou	3	Foraging	N/A	50	150	Both	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-20 7:49	Yes	Caribou	4	Walking	W	0	158	Both	Yes		-96.40471	65.277758			No	Not Exceeded	
Road	2022-08-20 7:49	Yes	Caribou	2	Foraging	W	300	159	East	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-08-20 7:49	Yes	Caribou	3	Foraging	W	0	161	Both	Yes		-96.41207	65.30324			No	Not Exceeded	
Road	2022-08-20 7:49	Yes	Caribou	4	Foraging	W	300	163	West	No		-96.4304	65.317408			No	Not Exceeded	
Road	2022-08-20 7:49	Yes	Caribou	9	Foraging	N/A	30	169	Both	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-08-20 7:49	Yes	Caribou	13	Foraging	W	10	175	Both	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-20 7:49	Yes	Caribou	1	Foraging	W	150	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Incidental	2022-08-20 12:31	Yes	Muskox	5	Feeding	N/A	75	140	West	No		-96.29851	65.221968			No	Not Exceeded	
Incidental	2022-08-20 13:05	Yes	Caribou	1	Feeding	N/A	550	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	1	Feeding	N/A	1000	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	3	Feeding	N/A	100	175	East	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	2	Feeding	N/A	200	175	West	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	1	Feeding	N/A	300	174	West	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	1	Feeding	W	50	172	West	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	3	Feeding	N/A	100	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	2	Running	S	50	168	West	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	1	Feeding	N/A	50	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	2	Lying Down	N/A	1000	165	West	No		-96.46782	65.323887			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	2	Feeding	N/A	500	164	West	No		-96.44722	65.322562			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	2	Feeding	N/A	500	163	West	No		-96.4304	65.317408			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	1	Feeding	S	100	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	1	Feeding	N/A	500	152	West	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-08-20 15:35	Yes	Caribou	5	Feeding	N/A	109	153	East	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	4	Feeding	Not Recorded	450	146	East	No		-96.39801	65.226268			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	3	Walking	W	10	149	East	Deflection		-96.44264	65.223273			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	1	Feeding	N/A	100	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	1	Feeding	W	400	150	West	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	15	Feeding	NW	300	159	West	No	Closest ones are at 300m but theyre walking away from the road.	-96.40886	65.286013			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Bald Eagle	1	Resting	N/A	550	160	East	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	3	Feeding	W	100	162	East	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	5	Feeding	N/A	700	163	West	No		-96.4304	65.317408			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	1	Feeding	N/A	550	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	5	Feeding	N/A	100	169	West	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	10	Feeding	N/A	50	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	5	Feeding	E	0	174	Both	Yes	3 crossed going east.	-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	18	Feeding	N/A	200	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-21 8:22	Yes	Caribou	1	Feeding	N/A	200	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Incidental	2022-08-21 12:52	Yes	Caribou	4	Alert	NE	50	135	East	No	Didnt put restriction becaause they walked fast behind hill	-96.20801	65.208904			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	2	Feeding	N/A	300	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Muskox	1	Feeding	N/A	400	123	West	No		-96.10441	65.122168			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Muskox	1	Feeding	N/A	300	135	West	No		-96.20801	65.208904			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	2	Foraging	N/A	800	148	West	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	3	Foraging	N/A	10	150	Both	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	14	Foraging	N/A	50	151	East	No		-96.46622	65.234469			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	2	Resting	N/A	200	160	West	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	3	Foraging	N/A	350	160	West	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	4	Foraging	N/A	75	161	Both	No		-96.41207	65.30324			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	2	Foraging	N/A	600	162	West	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	1	Foraging	N/A	100	162	East	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	3	Foraging	N	400	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	3	Foraging	N/A	300	167	East	No		-96.5061	65.328371			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	6	Foraging	N/A	200	167	West	No		-96.5061	65.328371			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	1	Foraging	N/A	200	169	West	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	5	Foraging	N/A	100	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	1	Alert	W	20	170	East	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	1	Foraging	N/A	400	171	West	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	2	Resting	N/A	75	172	West	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	2	Foraging	N/A	500	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	3	Foraging	N/A	15	173	Both	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	4	Foraging	N/A	50	176	Both	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-21 15:20	Yes	Caribou	3	Walking	N/A	400	179	East	No		-96.64916	65.40509			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	7	Foraging	N/A	100	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	5	Foraging	N/A	30	172	West	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	2	Foraging	N/A	30	171	East	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	3	Foraging	N/A	30	168	West	No		-96.52405	65.333518			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-08-22 8:48	Yes	Caribou	4	Foraging	W	150	168	East	No	1 caribou swimming across a little lake	-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	2	Foraging	N/A	150	167	West	No		-96.5061	65.328371			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	1	Walking	W	175	161	West	No		-96.41207	65.30324			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	1	Foraging	N/A	100	161	East	No		-96.41207	65.30324			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	4	Foraging	N/A	300	161	West	N/A		-96.41207	65.30324			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	2	Foraging	N/A	150	152	East	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	1	Walking	E	0	128	West	Yes		-96.13583	65.161371			No	Not Exceeded	
Road	2022-08-22 8:48	Yes	Caribou	1	Foraging	N/A	200	118	West	N/A		-96.05506	65.086475			No	Not Exceeded	
Incidental	2022-08-22 15:36	Yes	Caribou	1	Walking	E	0	112	East	Yes		-96.00217	65.051123			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	5	Foraging	N/A	200	148	East	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	5	Foraging	N/A	5	149	West	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	2	Foraging	N/A	75	151	West	No		-96.46622	65.234469			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	1	Foraging	N/A	200	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	7	Foraging	N/A	75	162	East	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	1	Foraging	N/A	300	165	West	No		-96.46782	65.323887			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	3	Foraging	N/A	50	166	Both	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	1	Foraging	N/A	350	168	East	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	5	Foraging	N/A	200	169	Both	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	1	Foraging	SE	300	170	East	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	1	Resting	N/A	30	171	West	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	1	Walking	N	300	173	East	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	1	Foraging	N/A	400	174	West	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	6	Foraging	N/A	50	175	Both	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	2	Foraging	N/A	300	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-22 16:44	Yes	Caribou	2	Foraging	N/A	100	178	West	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-08-23 7:55	Yes	Caribou	13	Foraging	N	100	138	East	No		-96.26018	65.2238			No	Not Exceeded	
Road	2022-08-23 7:55	Yes	Caribou	1	Feeding	E	400	140	West	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-08-23 7:55	Yes	Muskox	1	Lying Down	N/A	100	145	East	No		-96.3769	65.224218			No	Not Exceeded	
Road	2022-08-23 7:55	Yes	Caribou	6	Foraging	N/A	10	149	Both	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-08-23 7:55	Yes	Caribou	9	Foraging	N/A	50	167	Both	No		-96.5061	65.328371			No	Not Exceeded	
Road	2022-08-23 7:55	Yes	Caribou	4	Walking	W	500	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-23 7:55	Yes	Caribou	3	Feeding	N/A	50	172	Both	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-23 7:55	Yes	Caribou	15	Feeding	N/A	100	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Incidental	2022-08-23 13:05	Yes	Caribou	4	Walking	E	300	124	West	No		-96.10808	65.131545			No	Not Exceeded	
Road	2022-08-23 16:52	Yes	Caribou	2	Foraging	N/A	100	166	Both	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-23 16:52	Yes	Caribou	1	Foraging	N/A	5	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-23 16:52	Yes	Caribou	1	Foraging	N/A	30	171	East	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-08-23 16:52	Yes	Caribou	5	Foraging	N/A	150	172	West	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-23 16:52	Yes	Caribou	1	Trotting/running	NE	400	172	East	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-23 16:52	Yes	Caribou	3	Resting	N/A	300	174	East	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-23 16:52	Yes	Caribou	3	Foraging	N/A	2	175	West	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-23 16:52	Yes	Caribou	1	Foraging	N/A	75	176	East	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-23 16:52	Yes	Caribou	21	Foraging	N/A	250	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-23 16:52	Yes	Caribou	1	Foraging	N/A	400	178	East	No		-96.6219	65.400857			No	Not Exceeded	
Viewshed	2022-08-24 6:21		Snow goose	50	Resting	Not Recorded	100	116	East			-96.02061	65.080258				Not Exceeded	
Viewshed	2022-08-24 6:21		Canada goose	2	Flying	SE	0	116	East			-96.02061	65.080258				Not Exceeded	
Viewshed	2022-08-24 6:21		Snow goose	20	Flying	O	300	116	West			-96.02061	65.080258				Not Exceeded	
Viewshed	2022-08-24 6:21		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-24 6:21		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-24 6:21		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-24 6:21		Snow goose	3	Flying	O	0	118	West			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-08-24 6:21		Snow goose	15	Flying	O	500	118	West			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-08-24 6:21		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-24 6:21		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-24 6:21		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-24 6:21		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-24 6:21		Snow goose	5	Feeding	Not Recorded	400	128	East			-96.13583	65.161371				Not Exceeded	
Viewshed	2022-08-24 6:21		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-24 6:21		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-24 6:21		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-24 6:21		Snow goose	20	Resting	Not Recorded	600	133	East			-96.17538	65.199246				Not Exceeded	
Viewshed	2022-08-24 6:21		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-24 6:21		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-24 6:21		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-24 6:21		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-24 6:21		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-24 6:21		Snow goose	15	Resting	Not Recorded	400	138	West			-96.26018	65.2238				Not Exceeded	
Viewshed	2022-08-24 6:21		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-24 6:21		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-24 6:21		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-24 6:21		Snow goose	30	Flying	O	100	144	West			-96.35797	65.223666				Not Exceeded	
Viewshed	2022-08-24 6:21		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-24 6:21		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-24 6:21		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-24 6:21		Snow goose	30	Flying	SO	1000	154	West			-96.46296	65.254604				Not Exceeded	
Viewshed	2022-08-24 6:21		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-24 6:21		-	-			NA	156				-96.45207	65.262217					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-08-24 6:21		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-24 6:21		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-24 6:21		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-24 6:21		Caribou	1	Feeding	N/A	300	160-161	East			-96.41356	65.294293				Not Exceeded	
Viewshed	2022-08-24 6:21		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-24 6:21		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-24 6:21		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-24 6:21		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-24 6:21		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-24 6:21		Snow goose	15	Flying	O	0	166	West			-96.48819	65.325287				Not Exceeded	
Viewshed	2022-08-24 6:21		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-24 6:21		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-24 6:21		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-24 6:21		Caribou	1	Feeding	Not Recorded	200	169	West			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-08-24 6:21		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-24 6:21		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-24 6:21		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-24 6:21		Caribou	2	Feeding	N/A	5	176	West			-96.60379	65.38622				Not Exceeded	
Viewshed	2022-08-24 6:21		Snow goose	30	Flying	SO	300	176	West			-96.60379	65.38622				Not Exceeded	
Road	2022-08-24 7:08	Yes	Caribou	8	Feeding	N/A	50	175	Both	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-24 7:08	Yes	Caribou	1	Running	W	0	171	Both	Yes		-96.5686	65.351995			No	Not Exceeded	
Road	2022-08-24 7:08	Yes	Caribou	1	Feeding	N/A	300	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-24 7:08	Yes	Caribou	1	Feeding	N/A	25	168	West	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-24 7:08	Yes	Caribou	3	Feeding	N/A	200	165	West	No		-96.46782	65.323887			No	Not Exceeded	
Road	2022-08-24 7:08	Yes	Caribou	1	Feeding	N/A	100	158	East	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-08-24 7:08	Yes	Caribou	2	Feeding	N/A	10	151	West	No		-96.46622	65.234469			No	Not Exceeded	
Road	2022-08-24 7:08	Yes	Caribou	2	Standing	N/A	300	148	West	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-08-25 8:49	Yes	Caribou	1	Feeding	S	500	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-25 8:49	Yes	Caribou	3	Feeding	N/A	300	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-25 8:49	Yes	Caribou	4	Feeding	N/A	100	160	East	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-25 8:49	Yes	Caribou	1	Feeding	E	500	156	West	No		-96.45207	65.262217			No	Not Exceeded	
Road	2022-08-25 8:49	Yes	Caribou	4	Feeding	N	200	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-08-25 8:49	Yes	Caribou	5	Feeding	N/A	25	148	Both	Yes		-96.42744	65.220477			No	Not Exceeded	
Road	2022-08-25 8:49	Yes	Muskox	2	Lying Down	N/A	300	144	East	No		-96.38695	65.225525			No	Not Exceeded	
Road	2022-08-25 8:49	Yes	Caribou	3	Feeding	N/A	75	142	East	No		-96.3371	65.222192			No	Not Exceeded	
Road	2022-08-25 8:49	Yes	Caribou	1	Feeding	N/A	100	128	West	No		-96.13583	65.161371			No	Not Exceeded	
Road	2022-08-25 8:49	Yes	Caribou	5	Feeding	W	50	125	West	No		-96.10792	65.139082			No	Not Exceeded	
Road	2022-08-26 13:52	Yes	Caribou	1	Feeding	N/A	200	116	West	No		-96.02061	65.080258			No	Not Exceeded	
Road	2022-08-26 13:52	Yes	Caribou	2	Walking	S	100	147	West	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-08-26 13:52	Yes	Caribou	2	Walking	N	100	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-26 13:52	Yes	Caribou	2	Feeding	N/A	100	160	West	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-26 13:52	Yes	Caribou	1	Feeding	N/A	400	165	West	No		-96.46782	65.323887			No	Not Exceeded	
Road	2022-08-26 13:52	Yes	Caribou	3	Feeding	N/A	100	168	West	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-26 13:52	Yes	Caribou	3	Feeding	N/A	50	174	Both	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-26 13:52	Yes	Caribou	1	Feeding	N/A	100	175	East	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	2	Feeding	N/A	10	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	3	Lying Down	N/A	100	175	East	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	1	Feeding	N/A	300	174	West	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	1	Feeding	N/A	100	174	East	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	2	Lying Down	N/A	200	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	2	Feeding	N/A	100	170	East	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	1	Feeding	N/A	100	161	East	No		-96.41207	65.30324			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	10	Feeding	N/A	25	160	Both	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	5	Feeding	N/A	100	152	Both	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	3	Feeding	N/A	300	151	West	No		-96.46622	65.234469			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	2	Feeding	N/A	10	147	East	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Muskox	7	Feeding	N/A	100	121	East	No		-96.08638	65.107112			No	Not Exceeded	
Road	2022-08-27 9:18	Yes	Caribou	1	Feeding	N/A	300	113	West	No		-95.99327	65.058803			No	Not Exceeded	
Road	2022-08-28 13:29	Yes	Caribou	3	Foraging	N	0	111	Both	Yes		-96.02402	65.048147			No	Not Exceeded	
Road	2022-08-28 13:29	Yes	Caribou	3	Foraging	N/A	300	148	East	N/A		-96.42744	65.220477			No	Not Exceeded	
Road	2022-08-28 13:29	Yes	Caribou	1	Foraging	N/A	300	166	West	N/A		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-28 13:29	Yes	Caribou	3	Foraging	N/A	150	172	East	N/A		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-28 13:29	Yes	Caribou	1	Foraging	N/A	150	173	West	N/A		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	3	Feeding	N/A	300	177	Both	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	1	Feeding	N/A	50	176	West	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	2	Walking	W	10	175	West	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	6	Feeding	N/A	100	173	East	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	1	Feeding	N/A	100	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	1	Running	E	1	164	East	No		-96.44722	65.322562			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	10	Lying Down	N/A	300	162	West	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	2	Feeding	N/A	300	160	West	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	3	Feeding	N/A	200	150	West	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	1	Feeding	N/A	100	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	2	Feeding	N/A	300	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-08-29 13:42	Yes	Caribou	3	Feeding	N/A	200	112	East	No		-96.00217	65.051123			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	1	Walking	SE	30	134	Both	N/A		-96.19286	65.204805			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	2	Foraging	N/A	200	137	East	No		-96.2415	65.219441			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	1	Foraging	N/A	300	140	East	No		-96.29851	65.221968			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-08-30 15:40	Yes	Caribou	1	Foraging	N/A	400	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	3	Walking	W	0	145	Both	Yes		-96.3769	65.224218			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	3	Foraging	N/A	100	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	6	Foraging	N/A	25	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Muskox	10	Walking	SW	15	159	West	No	Put a speed restriction from 158 to 160.	-96.40886	65.286013			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	5	Walking	W	50	160	West	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	4	Foraging	N/A	75	166	Both	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	3	Walking	NE	400	167	East	No		-96.5061	65.328371			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	1	Foraging	N/A	300	168	East	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	1	Foraging	N/A	300	172	West	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	2	Foraging	N/A	200	173	East	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	1	Walking	N	200	174	East	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	1	Foraging	N/A	25	174	West	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	4	Walking	N/A	100	175	Both	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	1	Foraging	N/A	500	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-08-30 15:40	Yes	Caribou	1	Walking	S	100	178	East	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-08-31 9:37	Yes	Caribou	1	Foraging	E	30	149	East	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-08-31 9:37	Yes	Caribou	7	Foraging	N/A	60	150	West	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-08-31 9:37	Yes	Muskox	7	Foraging	N/A	560	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-08-31 9:37	Yes	Caribou	1	Foraging	N/A	1100	160	East	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-08-31 9:37	Yes	Caribou	1	Foraging	N/A	20	166	East	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-08-31 9:37	Yes	Caribou	10	Foraging	N/A	250	168	Both	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-08-31 9:37	Yes	Caribou	2	Foraging	N/A	100	171	West	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-08-31 9:37	Yes	Caribou	5	Walking	SE	0	172	Both	Yes		-96.58667	65.355041			No	Not Exceeded	
Road	2022-08-31 9:37	Yes	Caribou	5	Foraging	N/A	250	174	Both	No		-96.60128	65.368315			No	Not Exceeded	
Viewshed	2022-08-31 13:44		Caribou	1	Foraging	N/A	200	176	East			-96.60379	65.38622				Not Exceeded	
Viewshed	2022-08-31 13:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-31 13:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-31 13:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-08-31 13:44		Caribou	2	Feeding	N/A	300	169	East			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-08-31 13:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-31 13:44		Caribou	2	Feeding	N/A	300	169	West			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-08-31 13:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-08-31 13:44		Caribou	1	Feeding	N/A	200	166	East			-96.48819	65.325287				Not Exceeded	
Viewshed	2022-08-31 13:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-31 13:44		Caribou	2	Feeding	N/A	250	166	West			-96.48819	65.325287				Not Exceeded	
Viewshed	2022-08-31 13:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-08-31 13:44		Muskox	3	Foraging	N/A	300	160-161	East			-96.41356	65.294293				Not Exceeded	
Viewshed	2022-08-31 13:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-31 13:44		Caribou	1	Feeding	N/A	800	160-161	West			-96.41356	65.294293				Not Exceeded	
Viewshed	2022-08-31 13:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-08-31 13:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-31 13:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-31 13:44		Caribou	1	Feeding	N/A	1000	156	West			-96.45207	65.262217				Not Exceeded	
Viewshed	2022-08-31 13:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-08-31 13:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-31 13:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-31 13:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-31 13:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-08-31 13:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-31 13:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-31 13:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-31 13:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-08-31 13:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-31 13:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-31 13:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-31 13:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-08-31 13:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-31 13:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-31 13:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-08-31 13:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-31 13:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-31 13:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-31 13:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-08-31 13:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-31 13:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-31 13:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-31 13:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-08-31 13:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-31 13:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-31 13:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-31 13:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-08-31 13:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-31 13:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-08-31 13:44		-	-			NA	116				-96.02061	65.080258					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-09-01 9:03	Yes	Caribou	3	Lying Down	N/A	100	178	West	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	2	Feeding	N/A	103	176	East	No		-96.60379	65.38622			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	3	Foraging	N/A	177	173	West	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	4	Running	W	0	171	Both	Yes		-96.5686	65.351995			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	3	Foraging	N/A	400	170	West	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	2	Foraging	N/A	25	170	East	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	3	Feeding	N/A	25	169	Both	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	2	Foraging	N/A	100	169	East	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Muskox	10	Feeding	N/A	124	159	East	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	2	Feeding	N/A	150	152	West	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	1	Lying Down	N/A	100	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	1	Foraging	N/A	200	147	West	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Caribou	1	Foraging	N/A	200	136	West	No		-96.2274	65.213075			No	Not Exceeded	
Road	2022-09-01 9:03	Yes	Rough-legged-Hawk	1	Flying	N/A	0	125	Both	Yes		-96.10792	65.139082			No	Not Exceeded	
Incidental	2022-09-05 8:00	Yes	Arctic hare	1	Dead	N/A	0	121			During the day shift operations along the WTHR, a AEM employee reported to the environment department an animal carcass at KM121. An environment department employee traveled to the seen and confirmed the carcass was present and identify the arctic hare. Communications with the GN-DOE will be done during the monthly report.A reminder to all WTHR users to be aware of wildlife presence along the road and to slow down when an animal has been sighted in the area.	-96.08638	65.10712		Project related	No	Not Exceeded	
Road	2022-09-05 8:17	Yes	Caribou	1	Feeding	N/A	20	136	East	No		-96.2274	65.213075			No	Not Exceeded	
Road	2022-09-05 8:17	Yes	Muskox	14	Feeding	N/A	120	160	East	No		-96.41356	65.294293			No	Exceeded	Speed restriction was implemented at km 160km (159-161)
Road	2022-09-05 8:17	Yes	Caribou	3	Feeding	N/A	700	163	West	No		-96.4304	65.317408			No	Not Exceeded	
Road	2022-09-05 8:17	Yes	Caribou	3	Feeding	N/A	600	166	West	No		-96.48404	65.325134			No	Not Exceeded	
Road	2022-09-05 8:17	Yes	Caribou	5	Feeding	N/A	175	168	East	No		-96.52405	65.333518			No	Not Exceeded	
Road	2022-09-05 8:17	Yes	Caribou	1	Feeding	N	100	171	West	No		-96.5686	65.351995			No	Not Exceeded	
Road	2022-09-05 8:17	Yes	Caribou	1	Feeding	N	350	175	West	No		-96.60237	65.377259			No	Not Exceeded	
Viewshed	2022-09-05 10:41		-	-		NA	176					-96.60379	65.38622					
Viewshed	2022-09-05 10:41		-	-		NA	176					-96.60379	65.38622					
Viewshed	2022-09-05 10:41		-	-		NA	176					-96.60379	65.38622					
Viewshed	2022-09-05 10:41		-	-		NA	176					-96.60379	65.38622					
Viewshed	2022-09-05 10:41		Caribou	5	Feeding	N/A	150	169	East			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-09-05 10:41		-	-		NA	169					-96.53703	65.340029					
Viewshed	2022-09-05 10:41		Caribou	3	Feeding	N/A	2500	169	West			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-09-05 10:41		-	-		NA	169					-96.53703	65.340029					
Viewshed	2022-09-05 10:41		-	-		NA	166					-96.48819	65.325287					
Viewshed	2022-09-05 10:41		-	-		NA	166					-96.48819	65.325287					
Viewshed	2022-09-05 10:41		-	-		NA	166					-96.48819	65.325287					
Viewshed	2022-09-05 10:41		-	-		NA	166					-96.48819	65.325287					
Viewshed	2022-09-05 10:41		Caribou	2	Feeding	N/A	1500	160-161	East			-96.41356	65.294293				Not Exceeded	
Viewshed	2022-09-05 10:41		Muskox	14	Feeding	O	100	160-161	East			-96.41356	65.294293				Exceeded	Speed restriction put in place
Viewshed	2022-09-05 10:41		Caribou	9	Feeding	N/A	450	160-161	West			-96.41356	65.294293				Not Exceeded	
Viewshed	2022-09-05 10:41		-	-		NA	160-161					-96.41356	65.294293					
Viewshed	2022-09-05 10:41		-	-		NA	156					-96.45207	65.262217					
Viewshed	2022-09-05 10:41		-	-		NA	156					-96.45207	65.262217					
Viewshed	2022-09-05 10:41		-	-		NA	156					-96.45207	65.262217					
Viewshed	2022-09-05 10:41		-	-		NA	154					-96.46296	65.254604					
Viewshed	2022-09-05 10:41		-	-		NA	154					-96.46296	65.254604					
Viewshed	2022-09-05 10:41		-	-		NA	154					-96.46296	65.254604					
Viewshed	2022-09-05 10:41		-	-		NA	154					-96.46296	65.254604					
Viewshed	2022-09-05 10:41		-	-		NA	144					-96.35797	65.223666					
Viewshed	2022-09-05 10:41		-	-		NA	144					-96.35797	65.223666					
Viewshed	2022-09-05 10:41		-	-		NA	144					-96.35797	65.223666					
Viewshed	2022-09-05 10:41		-	-		NA	144					-96.35797	65.223666					
Viewshed	2022-09-05 10:41		-	-		NA	138					-96.26018	65.2238					
Viewshed	2022-09-05 10:41		-	-		NA	138					-96.26018	65.2238					
Viewshed	2022-09-05 10:41		-	-		NA	133					-96.17538	65.199246					
Viewshed	2022-09-05 10:41		-	-		NA	133					-96.17538	65.199246					
Viewshed	2022-09-05 10:41		-	-		NA	133					-96.17538	65.199246					
Viewshed	2022-09-05 10:41		-	-		NA	133					-96.17538	65.199246					
Viewshed	2022-09-05 10:41		-	-		NA	128					-96.13583	65.161371					
Viewshed	2022-09-05 10:41		-	-		NA	128					-96.13583	65.161371					
Viewshed	2022-09-05 10:41		-	-		NA	128					-96.13583	65.161371					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-09-05 10:41		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-05 10:41		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-05 10:41		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-05 10:41		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-05 10:41		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-05 10:41		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-05 10:41		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-05 10:41		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-05 10:41		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-05 10:41		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-05 10:41		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-05 10:41		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-05 10:41		-	-			NA	116				-96.02061	65.080258					
Road	2022-09-07 7:01	Yes	Canada goose	36	Walking	N/A	20	118	East	No		-96.05506	65.086475			No	Not Exceeded	
Road	2022-09-07 7:01	Yes	Canada goose	16	Walking	N/A	5	123	East	No		-96.10441	65.122168			No	Not Exceeded	
Road	2022-09-07 7:01	Yes	Canada goose	72	Resting	N/A	100	134	West	No		-96.19286	65.204805			No	Not Exceeded	
Road	2022-09-07 7:01	Yes	Canada goose	42	Walking	Not Recorded	20	139	West	No		-96.27997	65.226857			No	Not Exceeded	
Road	2022-09-07 7:01	Yes	Canada goose	15	Resting	Not Recorded	30	144	West	No		-96.3726	65.22318			No	Not Exceeded	
Road	2022-09-07 7:01	Yes	Muskox	1	Standing	N/A	80	147	West	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-09-07 7:01	Yes	Caribou	11	Walking	N/A	100	152	Both	No	Speed restriction put in place 151 to 153	-96.47617	65.241762			No	Not Exceeded	
Road	2022-09-07 7:01	Yes	Caribou	6	Walking	E	0	167	East	Yes	Speed restriction put in place 165 to 167	-96.5061	65.328371			No	Not Exceeded	
Road	2022-09-07 7:01	Yes	Caribou	1	Walking	W	150	169	West	No		-96.53703	65.340029			No	Not Exceeded	
Road	2022-09-07 7:01	Yes	Canada goose	113	Walking	Not Recorded	60	172	East	No		-96.58667	65.355041			No	Not Exceeded	
Viewshed	2022-09-07 9:49		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-07 9:49		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-07 9:49		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-07 9:49		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-07 9:49		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-07 9:49		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-07 9:49		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-07 9:49		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-07 9:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-07 9:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-07 9:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-07 9:49		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-07 9:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-07 9:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-07 9:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-07 9:49		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-07 9:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-07 9:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-07 9:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-07 9:49		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-07 9:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-07 9:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-07 9:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-07 9:49		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-07 9:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-07 9:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-07 9:49		Canada goose	5	Flying	S	1500	144	West			-96.35797	65.223666				Not Exceeded	
Viewshed	2022-09-07 9:49		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-07 9:49		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-07 9:49		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-07 9:49		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-07 9:49		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-07 9:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-07 9:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-07 9:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-07 9:49		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-07 9:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-07 9:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-07 9:49		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-07 9:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-07 9:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-07 9:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-07 9:49		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-07 9:49		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-07 9:49		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-07 9:49		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-07 9:49		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-07 9:49		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-07 9:49		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-07 9:49		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-07 9:49		-	-			NA	116				-96.02061	65.080258					
Road	2022-09-10 8:34	Yes	Muskox	1	Walking	E	150	112	East	N/A		-96.00217	65.051123			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2022-09-10 8:34	Yes	Caribou	8	Feeding	E	100	166	Both	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-09-10 8:34	Yes	Caribou	3	Feeding	N/A	100	174	West	No		-96.60128	65.368315			No	Not Exceeded	
Incidental	2022-09-10 13:31	Yes	Caribou	7	Feeding	W	20	177	West	No	restricted road to light vehicles only.	-96.60847	65.394344			No	Not Exceeded	
Incidental	2022-09-10 14:10	Yes	Muskox	20	Standing	N/A	10	150	West,East	No	Monitored the traffic, musk ox crossed from west to east no more musk ox on west side.	-96.45008	65.230216			No	Exceeded	Speed restriction was implemented
Road	2022-09-13 7:40	Yes	Muskox	3	Foraging	N/A	3	119	Both	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-09-13 7:40	Yes	Muskox	2	Resting	N/A	50	140	West	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-09-13 7:40	Yes	Muskox	40	Foraging	N/A	50	150	East	No		-96.45008	65.230216			No	Exceeded	Speed restrictiom
Viewshed	2022-09-14 13:10		Caribou	2	Foraging	N/A	30	176	East			-96.60379	65.38622				Not Exceeded	
Viewshed	2022-09-14 13:10		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-14 13:10		Caribou	1	Foraging	N/A	100	176	West			-96.60379	65.38622				Not Exceeded	
Viewshed	2022-09-14 13:10		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-14 13:10		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-14 13:10		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-14 13:10		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-14 13:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-14 13:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-14 13:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-14 13:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-14 13:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-14 13:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-14 13:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-14 13:10		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-14 13:10		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-14 13:10		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-14 13:10		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-14 13:10		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-14 13:10		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-14 13:10		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-14 13:10		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-14 13:10		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-14 13:10		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-14 13:10		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-14 13:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-14 13:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-14 13:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-14 13:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-14 13:10		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-14 13:10		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-14 13:10		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-14 13:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-14 13:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-14 13:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-14 13:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-14 13:10		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-14 13:10		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-14 13:10		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-14 13:10		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-14 13:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-14 13:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-14 13:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-14 13:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-14 13:10		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-14 13:10		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-14 13:10		-	-			NA	116				-96.02061	65.080258					
Incidental	2022-09-14 13:34	Yes	Caribou	3	Foraging	N/A	30	176	West,East	No		-96.60379	65.38622			No	Not Exceeded	
Incidental	2022-09-14 18:17	Yes	Muskox	30	Not recorded	N/A	100	111		N/A		-96.42744	65.220477			No	Exceeded	Speed Restrictions
Road	2022-09-17 9:05	Yes	Caribou	1	Resting	N/A	500	179	West	No		-96.64666	65.40509			No	Not Exceeded	
Road	2022-09-17 9:05	Yes	Caribou	5	Feeding	E	150	174	East	No		-96.60128	65.368315			No	Not Exceeded	
Road	2022-09-17 9:05	Yes	Muskox	3	Feeding	N	75	150	East	No		-96.45008	65.230216			No	Not Exceeded	
Road	2022-09-17 9:05	Yes	Muskox	6	Feeding	S	15	113	West	No		-95.99327	65.058803			No	Not Exceeded	
Incidental	2022-09-17 13:36	Yes	Caribou	5	Not recorded	N/A	NA	111		N/A		-96.02402	65.048147			No	Not Exceeded	
Road	2022-09-18 14:19	Yes	Muskox	1	Walking	S	5	118	East	No		-96.05506	65.086475			No	Not Exceeded	
Road	2022-09-18 14:19	Yes	Muskox	1	Resting	N/A	30	119	East	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-09-18 14:19	Yes	Muskox	3	Feeding	N/A	100	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-09-18 14:19	Yes	Caribou	4	Feeding	E	300	149	West	No		-96.44264	65.223273			No	Not Exceeded	
Road	2022-09-18 14:19	Yes	Muskox	8	Feeding	S	375	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-09-18 14:19	Yes	Caribou	3	Resting	N/A	125	170	East	No		-96.54979	65.346648			No	Not Exceeded	
Road	2022-09-18 14:19	Yes	Caribou	5	Feeding	NE	70	172	East	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-09-18 14:19	Yes	Caribou	2	Walking	N	55	179	East	No		-96.66052	65.403442			No	Not Exceeded	
Incidental	2022-09-22 8:10	Yes	Caribou	4	Foraging	N/A	25	174	West	No		-96.60128	65.368315			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-09-22 8:13	Yes	Muskox	27	Foraging	N/A	100	174	East	No	There is already a speed restriction from 174-176 in place	-96.60128	65.368315			No	Exceeded	There is already a speed restriction from 174-176 in place
Incidental	2022-09-22 8:18	Yes	Muskox	13	Foraging	N/A	1000	174	West	No		-96.60128	65.368315			No	Not Exceeded	
Incidental	2022-09-22 8:35	Yes	Caribou	2	Foraging	N/A	100	171	East	No		-96.5686	65.351995			No	Not Exceeded	
Incidental	2022-09-22 11:09	Yes	Caribou	2	Foraging	N/A	50	115	East	No		-96.00905	65.071117			No	Not Exceeded	
Viewshed	2022-09-22 12:55	Yes	-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-22 12:55	Yes	Caribou	7	Foraging	N/A	500	116	West			-96.02061	65.080258				Not Exceeded	
Viewshed	2022-09-22 12:55	Yes	-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-22 12:55	Yes	Caribou	2	Foraging	N/A	20	116	West	No		-96.02061	65.080258			No	Not Exceeded	
Viewshed	2022-09-22 12:55	Yes	Caribou	1	Foraging	N/A	2000	118	West			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-09-22 12:55	Yes	Muskox	10	Foraging	N/A	2500	118	West			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-09-22 12:55	Yes	-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-22 12:55	Yes	Muskox	1	Foraging	N/A	500	118	West			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-09-22 12:55	Yes	-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-22 12:55	Yes	-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-22 12:55	Yes	Caribou	1	Foraging	N/A	1000	169	West			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-09-22 12:55	Yes	Muskox	23	Foraging	N/A	400	169	West			-96.53703	65.340029				Exceeded	Speed restriction put in effect.
Incidental	2022-09-22 12:56	Yes	Muskox	3	Foraging	N/A	50	120	East	No		-96.0728	65.100208			No	Not Exceeded	
Incidental	2022-09-22 12:56	Yes	Caribou	2	Walking	NE	25	132	West	No		-96.16457	65.194003			No	Not Exceeded	
Incidental	2022-09-22 12:56	Yes	Muskox	2	Foraging	N/A	100	140	West	No		-96.29851	65.221968			No	Not Exceeded	
Incidental	2022-09-22 12:56	Yes	Caribou	2	Foraging	N/A	400	168	East	No		-96.52405	65.333518			No	Not Exceeded	
Incidental	2022-09-22 12:56	Yes	Muskox	23	Foraging	N/A	600	172	East	No	Speed restriction removed from 174-176 and 167-169. Changed it from 171-173	-96.58667	65.355041			No	Exceeded	The group has been there for a week now. They do not seem impacted by the road. Plus they were more than 500 meters from the road.
Road	2022-09-24 7:27	Yes	Ptarmigan	4	Resting	N/A	25	116	East	No		-96.02061	65.080258			No	Not Exceeded	
Road	2022-09-24 7:27	Yes	Muskox	1	Walking	E	25	120	East	No		-96.0728	65.100208			No	Not Exceeded	
Road	2022-09-24 7:27	Yes	Muskox	3	Foraging	N/A	25	120	East	No		-96.0728	65.100208			No	Not Exceeded	
Road	2022-09-24 7:27	Yes	Muskox	11	Feeding	N/A	91	140	West	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-09-24 7:27	Yes	Muskox	1	Resting	N/A	20	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-09-24 7:27	Yes	Muskox	7	Feeding	N/A	200	148	West	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-09-24 7:27	Yes	Muskox	2	Feeding	N/A	100	152	East	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-09-24 7:27	Yes	Muskox	21	Resting	N/A	220	171	East	No		-96.5686	65.351995			No	Exceeded	Speed restriction km171-173
Viewshed	2022-09-24 7:31		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-24 7:31		-	-			NA	116				-96.02061	65.080258					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-09-24 7:31		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-24 7:31		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-24 7:31		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-24 7:31		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-24 7:31		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-24 7:31		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-24 7:31		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-24 7:31		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-24 7:31		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-24 7:31		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-24 7:31		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-24 7:31		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-24 7:31		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-24 7:31		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-24 7:31		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-24 7:31		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-24 7:31		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-24 7:31		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-24 7:31		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-24 7:31		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-24 7:31		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-24 7:31		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-24 7:31		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-24 7:31		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-24 7:31		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-24 7:31		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-24 7:31		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-24 7:31		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-24 7:31		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-24 7:31		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-24 7:31		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-24 7:31		Muskox	10	Resting	Not Recorded	1000	169	East		Distance was taken from the viewshed	-96.53703	65.340029				Not Exceeded	
Viewshed	2022-09-24 7:31		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-24 7:31		Muskox	8	Resting	Not Recorded	1500	169	West			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-09-24 7:31		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-24 7:31		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-24 7:31		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-24 7:31		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-24 7:31		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-24 7:31		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-24 7:31		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-24 7:31		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-24 7:31		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-24 7:31		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-24 7:31		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-24 7:31		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-09-24 13:24	Yes	Caribou	5	Foraging	N/A	258	174	West	No		-96.60128	65.368315			No	Not Exceeded	
Incidental	2022-09-24 14:48	Yes	Muskox	9	Foraging	N/A	200	148	North,West	No		-96.42744	65.220477			No	Not Exceeded	
Incidental	2022-09-24 14:58	Yes	Arctic hare	1	Running	S	0	141	West,East	Yes	Running from a fox	-96.31809	65.223683			No	Not Exceeded	
Incidental	2022-09-24 15:05	Yes	Arctic fox	1	Running	N	0	141	West,East	Yes	Running after a arctic hare	-96.31809	65.223683			No	Not Exceeded	
Incidental	2022-09-24 16:03	Yes	Muskox	3	Foraging	N/A	5	123	East	No		-96.10441	65.122168			No	Not Exceeded	
Incidental	2022-09-24 16:12	Yes	Caribou	2	Foraging	N/A	700	118	West	No		-96.05506	65.086475			No	Not Exceeded	
Incidental	2022-09-24 16:13	Yes	Caribou	3	Foraging	N/A	100	117	West	No		-96.03942	65.0837			No	Not Exceeded	
Road	2022-09-26 8:17	Yes	Muskox	19	Foraging	N/A	300	170	East	No		-96.54979	65.346648			No	Exceeded	Speed restriction 170-171 was put in place
Road	2022-09-26 8:17	Yes	Muskox	12	Foraging	N/A	400	154	West	No	Did not see group on the way back to amaruq	-96.46296	65.254604			No	Not Exceeded	
Road	2022-09-26 8:17	Yes	Muskox	9	Foraging	N/A	200	151	East	No		-96.46622	65.234469			No	Not Exceeded	
Road	2022-09-26 8:17	Yes	Muskox	6	Foraging	N/A	600	139	West	No		-96.27997	65.226857			No	Not Exceeded	
Road	2022-09-26 8:17	Yes	Muskox	1	Foraging	N/A	5	110	West	N/A		-96.04065	65.0414			No	Not Exceeded	
Incidental	2022-09-26 11:46	Yes	Siksik	1	Trotting/running	N/A	2	125	East	No		-96.10792	65.139082			No	Not Exceeded	
Incidental	2022-09-26 11:52	Yes	Caribou	4	Lying Down	N/A	200	131	East	No		-96.16073	65.18551			No	Not Exceeded	
Incidental	2022-09-26 12:05	Yes	Muskox	4	Foraging	N/A	800	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Incidental	2022-09-26 12:54	Yes	Caribou	6	Foraging	N/A	1000	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-09-28 9:38	Yes	Caribou	1	Trotting/running	N/A	0	179	Both	No		-96.66364	65.40271			No	Not Exceeded	
Road	2022-09-28 9:38	Yes	Caribou	3	Trotting/running	S	50	172	East	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-09-28 9:38	Yes	Muskox	20	Lying Down	N/A	650	171	East	No		-96.5686	65.351995			No	Exceeded	Speed restriction at KM 172
Road	2022-09-28 9:38	Yes	Muskox	6	Feeding	N/A	400	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-09-28 9:38	Yes	Caribou	5	Foraging	N/A	100	110	East	No		-96.04065	65.0414			No	Not Exceeded	
Road	2022-09-28 9:38	Yes	Muskox	5	Feeding	N/A	1000	109	East	No		-96.01879	65.048523			No	Not Exceeded	
Viewshed	2022-09-28 12:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-28 12:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-28 12:55		-	-			NA	116				-96.02061	65.080258					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-09-28 12:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-09-28 12:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-28 12:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-28 12:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-28 12:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-09-28 12:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-28 12:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-28 12:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-28 12:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-09-28 12:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-28 12:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-28 12:55		Caribou	2	Foraging	N/A	1000	128	West			-96.13583	65.161371				Not Exceeded	
Viewshed	2022-09-28 12:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-09-28 12:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-28 12:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-28 12:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-09-28 12:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-28 12:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-28 12:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-09-28 12:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-28 12:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-28 12:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-09-28 12:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-28 12:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-28 12:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-28 12:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-09-28 12:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-28 12:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-28 12:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-09-28 12:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-28 12:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-28 12:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-28 12:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-09-28 12:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-28 12:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-28 12:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-28 12:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-09-28 12:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-28 12:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-28 12:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-28 12:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-09-28 12:55		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-28 12:55		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-09-28 12:55		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-09-28 13:13	Yes	Muskox	2	Feeding	N/A	20	119	East	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-09-30 11:34	Yes	Muskox	3	Feeding	N/A	650	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-09-30 11:34	Yes	Muskox	16	Feeding	N/A	700	171	East	No		-96.5686	65.351995			No	Exceeded	Speed restriction put in place
Road	2022-10-02 15:37	No					NA					NA	NA					
Road	2022-10-04 8:55	Yes	Muskox	18	Foraging	N/A	275	169	West	No		-96.53703	65.340029			No	Exceeded	Speed restriction (30km/h) was put between km 168 and 170
Road	2022-10-04 8:55	Yes	Muskox	8	Foraging	N/A	100	144	East	No		-96.36682	65.222473			No	Not Exceeded	
Road	2022-10-04 8:55	Yes	Caribou	2	Foraging	N/A	2	130	West	No		-96.1528	65.17815			No	Not Exceeded	
Road	2022-10-04 8:55	Yes	Caribou	1	Foraging	N/A	316	127	West	No		-96.12549	65.153813			No	Not Exceeded	
Viewshed	2022-10-04 13:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-04 13:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-04 13:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-04 13:44		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-04 13:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-04 13:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-04 13:44		Muskox	1	Lying Down	N/A	1000	118	West			-96.05506	65.086475				Not Exceeded	
Viewshed	2022-10-04 13:44		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-04 13:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-04 13:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-04 13:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-04 13:44		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-04 13:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-04 13:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-04 13:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-04 13:44		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-04 13:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-04 13:44		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-04 13:44		-	-			NA	133				-96.17538	65.199246					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-10-04 13:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-04 13:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-04 13:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-04 13:44		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-04 13:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-04 13:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-04 13:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-04 13:44		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-04 13:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-04 13:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-04 13:44		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-04 13:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-04 13:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-04 13:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-04 13:44		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-04 13:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-04 13:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-04 13:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-04 13:44		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-04 13:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-04 13:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-04 13:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-04 13:44		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-04 13:44		Muskox	1	Walking	S	0	169	East			-96.53703	65.340029				Not Exceeded	
Viewshed	2022-10-04 13:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-04 13:44		Muskox	18	Resting	N/A	275	169	West			-96.53703	65.340029				Exceeded	Speed restriction (30km/h) was put between km 168 and 170
Viewshed	2022-10-04 13:44		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-04 13:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-04 13:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-04 13:44		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-04 13:44		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-10-07 10:10	Yes	Muskox	6	Foraging	W	5	140	West	Yes	Speed restriction	-95.99998	64.356567			No	Not Exceeded	
Road	2022-10-07 13:19	Yes	Muskox	2	Foraging	N/A	320	119	West	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-10-07 13:19	Yes	Muskox	1	Foraging	E	90	147	East	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-10-07 13:19	Yes	Muskox	14	Trotting/running	N/A	320	157	East	No		-96.41584	65.271231			No	Exceeded	Speed restriction
Road	2022-10-07 13:19	Yes	Caribou	70	Foraging	N/A	0	169	East	Yes	Speed restriction has been put	-96.53703	65.340029			No	Not Exceeded	
Road	2022-10-08 8:40	Yes	Muskox	10	Foraging	N/A	100	157	East	No		-96.41584	65.271231			No	Not Exceeded	
Road	2022-10-08 8:40	Yes	Caribou	5	Walking	S	150	147	East	No		-96.41835	65.227863			No	Not Exceeded	
Road	2022-10-08 8:40	Yes	Muskox	9	Foraging	N/A	30	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-10-08 8:40	Yes	Arctic fox	2	Running	N	0	118	Both	Yes	Another fox (3rd one) is being eaten by a raven about 150m from the road east side.	-96.05506	65.086475			No	Not Exceeded	
Viewshed	2022-10-08 14:16		Caribou	16	Walking	E	300	116	East			-96.02061	65.080258				Not Exceeded	
Viewshed	2022-10-08 14:16		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-08 14:16		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-08 14:16		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-08 14:16		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-08 14:16		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-08 14:16		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-08 14:16		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-08 14:16		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-08 14:16		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-08 14:16		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-08 14:16		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-08 14:16		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-08 14:16		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-08 14:16		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-08 14:16		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-08 14:16		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-08 14:16		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-08 14:16		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-08 14:16		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-08 14:16		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-08 14:16		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-08 14:16		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-08 14:16		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-08 14:16		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-08 14:16		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-08 14:16		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-08 14:16		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-08 14:16		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-08 14:16		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-08 14:16		-	-			NA	156				-96.45207	65.262217					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-10-08 14:16		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-08 14:16		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-08 14:16		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-08 14:16		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-08 14:16		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-08 14:16		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-08 14:16		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-08 14:16		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-08 14:16		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-08 14:16		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-08 14:16		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-08 14:16		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-08 14:16		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-08 14:16		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-08 14:16		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-08 14:16		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-08 14:16		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-08 14:16		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-10-08 15:33	Yes	Muskox	6	Foraging	N/A	50	140	West,East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-10-09 8:40	Yes	Muskox	1	Foraging	N/A	90	152	West	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-10-09 8:40	Yes	Arctic fox	1	Walking	E	0	152	East	Yes		-96.47617	65.241762			No	Not Exceeded	
Road	2022-10-09 8:40	Yes	Muskox	12	Resting	N/A	120	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-10-10 9:26	Yes	Muskox	12	Foraging	N/A	100	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Incidental	2022-10-13 16:58	Yes	Caribou	300	Feeding	Not Recorded	500	148	East	No	On top of the rise to the north side of the bridge km148. Notified dispatch of a herd close to the road, closed the road to all traffic. Escorted last road users past this area with beacons and strobes turned off at 10kmh	-96.42744	65.220477			No	Exceeded	Road closure, will escort following road users past slowly, turn off beacons and lightsClose road to all traffic until further notice
Road	2022-10-14 9:21	Yes	Muskox	1	Foraging	N/A	80	110	East	No		-96.04065	65.0414			No	Not Exceeded	
Road	2022-10-14 9:21	Yes	Caribou	17	Walking	S	200	119	East	No		-96.06476	65.093211			No	Not Exceeded	
Road	2022-10-14 9:21	Yes	Caribou	12	Walking	S	100	172	East	No		-96.58667	65.355041			No	Not Exceeded	
Road	2022-10-14 9:21	Yes	Caribou	1	Foraging	N/A	30	179	East	No		-96.60247	65.359375			No	Not Exceeded	
Road	2022-10-16 12:53	No					NA					NA	NA					
Incidental	2022-10-16 15:56	Yes	Muskox	1	Walking	N	100	156	West	No		-96.45207	65.262217			No	Not Exceeded	
Incidental	2022-10-16 16:00	Yes	Muskox	12	Feeding	N/A	250	154	East	No		-96.46296	65.254604			No	Not Exceeded	
Road	2022-10-18 8:31	No					NA					NA	NA					
Incidental	2022-10-19 9:55	Yes	Muskox	17	Foraging	N/A	50	156	East	No		-96.45207	65.262217			No	Exceeded	Speed restriction was put in place from the 156-157km
Incidental	2022-10-19 10:00	Yes	Muskox	3	Foraging	SE	100	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Road	2022-10-21 14:29	Yes	Muskox	2	Feeding	W	150	140	West	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-10-21 14:29	Yes	Arctic fox	1	Running	E	0	155	West	Yes		-96.43417	65.267612			No	Not Exceeded	
Road	2022-10-21 14:29	Yes	Muskox	17	Standing	N	250	162	West	No		-96.4168	65.311548			No	Exceeded	Speed Restriction of 30km/hr
Road	2022-10-22 8:45	Yes	Muskox	18	Feeding	N/A	750	163	East	No		-96.4304	65.317408			No	Exceeded	The env team returned northbound and the muskox were moved away from this area and no longer visibleNo speed restriction initiated
Road	2022-10-22 8:45	Yes	Muskox	11	Feeding	N/A	250	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Viewshed	2022-10-22 13:25		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-22 13:25		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-22 13:25		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-22 13:25		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-22 13:25		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-22 13:25		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-22 13:25		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-22 13:25		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-22 13:25		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-22 13:25		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-22 13:25		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-22 13:25		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-22 13:25		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-22 13:25		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-22 13:25		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-22 13:25		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-22 13:25		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-22 13:25		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-22 13:25		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-22 13:25		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-22 13:25		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-22 13:25		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-22 13:25		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-22 13:25		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-22 13:25		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-22 13:25		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-22 13:25		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-22 13:25		-	-			NA	144				-96.35797	65.223666					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-10-22 13:25		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-22 13:25		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-22 13:25		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-22 13:25		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-22 13:25		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-22 13:25		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-22 13:25		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-22 13:25		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-22 13:25		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-22 13:25		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-22 13:25		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-22 13:25		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-22 13:25		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-22 13:25		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-22 13:25		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-22 13:25		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-22 13:25		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-22 13:25		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-22 13:25		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-22 13:25		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-22 13:25		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-22 13:25		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-10-22 14:20	Yes	Caribou	1	Dead	N/A	30	137	West	No	In the tundra near KM 137 . Was reported to CO in baker lake by ENV Coordo	-96.2415	65.219441		Project non-related	No	Not Exceeded	
Incidental	2022-10-22 14:21	Yes	Wolf	4	Alert	N	200	137	West	No	Wolves were lingering near a fresh caribou carcass	-96.2415	65.219441			No	Not Exceeded	
Incidental	2022-10-22 14:42	Yes	Muskox	1	Foraging	Not Recorded	500	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Incidental	2022-10-22 15:03	Yes	Arctic fox	1	Feeding	Not Recorded	0	150	North	No	The fox was on the road gnawing on a frozen substance on the road surface. Once I left the area i observed the fox return to the road to sniff and scratch at that same spot	-96.45008	65.230216	Successful deterrence		No	Not Exceeded	
Incidental	2022-10-22 15:29	Yes	Caribou	3	Alert	Not Recorded	400	162	East	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-10-23 9:23	Yes	Muskox	25	Feeding	N/A	1000	164	West	No		-96.44722	65.322562			No	Exceeded	Speed restriction put in place
Road	2022-10-23 9:23	Yes	Caribou	3	Foraging	N/A	300	163	East	No		-96.4304	65.317408			No	Not Exceeded	
Road	2022-10-23 9:23	Yes	Arctic hare	1	Dead	N/A	0	158	Both	N/A		-96.40471	65.277758		Project related	No	Not Exceeded	
Road	2022-10-23 9:23	Yes	Muskox	15	Feeding	N/A	50	140	East	No		-96.29851	65.221968			No	Exceeded	Yes, speed restriction from 140-141, 30km/h
Road	2022-10-23 9:23	Yes	Wolf	5	Trotting/running	N	700	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-10-23 9:23	Yes	Caribou	3	Trotting/running	N	300	129	East	No		-96.14593	65.169019			No	Not Exceeded	
Road	2022-10-23 9:23	Yes	Muskox	13	Feeding	N/A	1500	113	East	No		-95.99327	65.058803			No	Not Exceeded	
Road	2022-10-23 9:23	Yes	Muskox	1	Feeding	N/A	50	112	East	No		-96.00217	65.051123			No	Not Exceeded	
Road	2022-10-24 12:27	Yes	Arctic fox	1	Foraging	N/A	0	112	Both	N/A		-96.00217	65.051123			No	Not Exceeded	
Road	2022-10-24 12:27	Yes	Muskox	12	Lying Down	W	1000	113	East	No		-95.99327	65.058803			No	Not Exceeded	
Road	2022-10-24 12:27	Yes	Muskox	13	Lying Down	N/A	550	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-10-25 9:15	Yes	Muskox	23	Lying Down	N/A	1200	166	West	No		-96.48819	65.325287			No	Exceeded	More than 500 m from the road. Did not put any speed restriction
Road	2022-10-25 9:15	Yes	Muskox	3	Feeding	N/A	100	156	West	No		-96.45207	65.262217			No	Not Exceeded	
Road	2022-10-25 9:15	Yes	Muskox	5	Feeding	N/A	50	141	East	No		-96.31809	65.223683			No	Not Exceeded	
Road	2022-10-25 9:15	Yes	Muskox	11	Feeding	N/A	600	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Incidental	2022-10-25 11:25	Yes	Muskox	13	Foraging	N/A	800	112	East	No		-96.00217	65.051123			No	Not Exceeded	
Incidental	2022-10-25 12:06	Yes	Caribou	3	Trotting/running	N/A	200	151	West	No	One caribou was limping. Front leg seemed injured.	-96.46622	65.234469			No	Not Exceeded	
Incidental	2022-10-25 12:36	Yes	Caribou	2	Walking	N/A	300	175	East	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-10-26 8:15	Yes	Muskox	1	Lying Down	N/A	50	167	West	No		-96.5061	65.328371			No	Not Exceeded	
Road	2022-10-26 8:15	Yes	Muskox	12	Lying Down	N/A	1000	159	East	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-10-26 8:15	Yes	Muskox	3	Foraging	N/A	100	155	West	No		-96.43417	65.267612			No	Not Exceeded	
Road	2022-10-26 8:15	Yes	Muskox	9	Foraging	N/A	250	140	East	No		-96.29851	65.221968			No	Not Exceeded	
Road	2022-10-26 8:15	Yes	Muskox	1	Foraging	N/A	100	139	West	No		-96.27997	65.226857			No	Not Exceeded	
Road	2022-10-26 8:15	Yes	Muskox	5	Foraging	N/A	200	114	East	No		-96.00424	65.066791			No	Not Exceeded	
Road	2022-10-28 6:46	Yes	Muskox	3	Feeding	N/A	600	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-10-28 6:46	Yes	Muskox	17	Foraging	N/A	50	156	Both	No		-96.45207	65.262217			No	Exceeded	Speed restriction of 30km/h between km 155-157 because of muskox close to the road
Road	2022-10-28 6:46	Yes	Arctic fox	1	Trotting/running	SW	0	119	Both	Yes		-96.06476	65.093211			No	Not Exceeded	
Viewshed	2022-10-28 10:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-28 10:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-28 10:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-28 10:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-28 10:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-28 10:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-28 10:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-28 10:55		-	-			NA	118				-96.05506	65.086475					

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Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-10-28 10:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-28 10:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-28 10:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-28 10:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-28 10:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-28 10:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-28 10:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-28 10:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-28 10:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-28 10:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-28 10:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-28 10:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-28 10:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-28 10:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-28 10:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-28 10:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-28 10:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-28 10:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-28 10:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-28 10:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-28 10:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-28 10:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-28 10:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-28 10:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-28 10:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-28 10:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-28 10:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-28 10:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-28 10:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-28 10:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-28 10:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-28 10:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-28 10:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-28 10:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-28 10:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-28 10:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-28 10:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-28 10:55		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-28 10:55		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-28 10:55		-	-			NA	176				-96.60379	65.38622					
Road	2022-10-30 10:10	Yes	Muskox	3	Foraging	N/A	300	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-10-30 10:10	Yes	Muskox	17	Foraging	N/A	400	156	West	No		-96.45207	65.262217			No	Exceeded	30km/h speed restriction between km 155 and 157
Road	2022-10-30 10:10	Yes	Arctic fox	1	Trotting/running	S	100	125	West	No		-96.10792	65.139082			No	Not Exceeded	
Road	2022-10-30 10:10	Yes	Muskox	7	Foraging	N/A	700	115	East	No		-96.00905	65.071117			No	Not Exceeded	
Road	2022-10-30 10:10	Yes	Muskox	14	Lying Down	N/A	1500	114	East	No		-96.00424	65.066791			No	Exceeded	Notified dispatch. Speed restriction put in place.
Viewshed	2022-10-30 12:50		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-30 12:50		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-30 12:50		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-30 12:50		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-10-30 12:50		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-30 12:50		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-30 12:50		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-30 12:50		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-10-30 12:50		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-30 12:50		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-30 12:50		Crow	2	Flying	N	100	121-122	West			-96.08638	65.10712				Not Exceeded	
Viewshed	2022-10-30 12:50		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-10-30 12:50		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-30 12:50		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-30 12:50		Crow	1	Flying	N	5	128	West			-96.13583	65.161371				Not Exceeded	
Viewshed	2022-10-30 12:50		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-10-30 12:50		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-30 12:50		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-30 12:50		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-10-30 12:50		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-30 12:50		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-30 12:50		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-10-30 12:50		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-30 12:50		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-30 12:50		-	-			NA	144				-96.35797	65.223666					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-10-30 12:50		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-10-30 12:50		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-30 12:50		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-30 12:50		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-30 12:50		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-10-30 12:50		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-30 12:50		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-30 12:50		Muskox	17	Lying Down	Not Recorded	650	156	West			-96.45207	65.262217				Exceeded	30km/h speed restriction between km 155 and 157
Viewshed	2022-10-30 12:50		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-10-30 12:50		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-30 12:50		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-30 12:50		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-30 12:50		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-10-30 12:50		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-30 12:50		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-30 12:50		Muskox	3	Lying Down	N/A	400	166	West			-96.48819	65.325287				Not Exceeded	
Viewshed	2022-10-30 12:50		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-10-30 12:50		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-30 12:50		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-30 12:50		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-10-30 12:50		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-30 12:50		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-30 12:50		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-10-30 12:50		-	-			NA	176				-96.60379	65.38622					
Road	2022-11-01 12:23	Yes	Muskox	17	Foraging	N/A	2000	112	East	No		-96.00217	65.051123			No	Exceeded	Group is more than 1.5 KM away
Road	2022-11-01 12:23	Yes	Muskox	10	Lying Down	N/A	400	152	West	No		-96.47617	65.241762			No	Not Exceeded	
Road	2022-11-01 12:23	Yes	Muskox	25	Feeding	N/A	5	153	Both	No		-96.47626	65.248229			No	Exceeded	Speed restriction put in place
Road	2022-11-01 12:23	Yes	Arctic fox	1	Walking	S	5	171	West	No		-96.5686	65.351995			No	Not Exceeded	
Incidental	2022-11-01 15:57	Yes	Muskox	16	Feeding	N/A	10	147	West	No	Speed restriction was put in place	-96.41835	65.227863			No	Exceeded	Speed restriction was put in place
Road	2022-11-03 8:54	Yes	Muskox	17	Foraging	N/A	600	152	West	No		-96.47617	65.241762			No	Exceeded	Far enough from the road no speed restriction needed
Road	2022-11-03 8:54	Yes	Muskox	3	Foraging	N/A	200	164	West	No		-96.44722	65.322562			No	Not Exceeded	
Incidental	2022-11-03 14:59	Yes	Muskox	13	Foraging	N/A	300	139	West	No		-96.27997	65.226857			No	Not Exceeded	
Incidental	2022-11-03 15:32	Yes	Muskox	3	Feeding	N/A	50	122	West	No		-96.09715	65.114773			No	Not Exceeded	
Incidental	2022-11-03 16:08	Yes	Muskox	11	Feeding	N/A	10	110	East	No		-96.04065	65.0414			No	Not Exceeded	
Road	2022-11-04 10:17	Yes	Muskox	3	Foraging	N/A	50	120	West	No		-96.0728	65.100208			No	Not Exceeded	
Road	2022-11-04 10:17	Yes	Muskox	15	Resting	N/A	5	139	Both	N/A		-96.27997	65.226857			No	Exceeded	Speed restriction 138-141
Road	2022-11-04 10:17	Yes	Muskox	21	Foraging	N/A	50	149	West	No		-96.44264	65.223273			No	Exceeded	Speed restriction 149-150
Road	2022-11-05 10:01	Yes	Muskox	12	Foraging	N/A	50	112	East	N/A		-96.00217	65.051123			No	Not Exceeded	
Road	2022-11-05 10:01	Yes	Muskox	22	Foraging	N/A	10	149	West	N/A		-96.44264	65.223273			No	Exceeded	Speed restriction 149 to 151
Road	2022-11-05 10:01	Yes	Muskox	3	Foraging	N/A	130	157	West	N/A		-96.41584	65.271231			No	Not Exceeded	
Road	2022-11-07 12:58	Yes	Muskox	3	Resting	N/A	100	156	East	No		-96.45207	65.262217			No	Not Exceeded	
Incidental	2022-11-07 16:27	Yes	Muskox	9	Walking	W	100	142	West	No		-96.3371	65.222192			No	Not Exceeded	
Road	2022-11-08 8:48	Yes	Muskox	3	Foraging	N/A	200	158	East	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-11-08 8:48	Yes	Muskox	22	Foraging	N/A	100	148	West	No		-96.42744	65.220477			No	Exceeded	Speed restriction of 30km/h was put in place
Viewshed	2022-11-08 12:51		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-08 12:51		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-08 12:51		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-08 12:51		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-08 12:51		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-11-08 12:51		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-11-08 12:51		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-11-08 12:51		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-11-08 12:51		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-08 12:51		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-08 12:51		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-08 12:51		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-08 12:51		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-08 12:51		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-08 12:51		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-08 12:51		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-08 12:51		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-08 12:51		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-08 12:51		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-08 12:51		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-08 12:51		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-08 12:51		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-08 12:51		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-08 12:51		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-08 12:51		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-08 12:51		Muskox	11	Lying Down	N/A	1000	144	West			-96.35797	65.223666				Not Exceeded	
Viewshed	2022-11-08 12:51		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-08 12:51		-	-			NA	154				-96.46296	65.254604					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-11-08 12:51		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-11-08 12:51		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-11-08 12:51		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-11-08 12:51		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-08 12:51		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-08 12:51		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-08 12:51		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-08 12:51		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-08 12:51		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-08 12:51		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-08 12:51		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-08 12:51		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-11-08 12:51		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-11-08 12:51		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-11-08 12:51		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-11-08 12:51		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-11-08 12:51		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-11-08 12:51		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-11-08 12:51		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-11-08 12:51		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-11-08 12:51		-	-			NA	176				-96.60379	65.38622					
Road	2022-11-10 8:30	Yes	Muskox	3	Foraging	N/A	75	159	West	No	Coordinates are not good	-96.40886	65.286013			No	Not Exceeded	
Road	2022-11-10 8:30	Yes	Caribou	10	Foraging	N/A	200	154	East	No		-96.46296	65.254604			No	Not Exceeded	
Road	2022-11-10 8:30	Yes	Muskox	31	Foraging	N/A	100	143	West	No		-96.35797	65.223666			No	Exceeded	Speed restriction from km 142 to 144
Road	2022-11-10 8:30	Yes	Muskox	12	Foraging	N/A	800	110	East	No		-96.04065	65.0414			No	Not Exceeded	
Incidental	2022-11-11 10:04	Yes	Muskox	36	Foraging	N/A	150	145	West	No		-96.3769	65.224218			No	Exceeded	Speed restriction was implemented on November 10 - from km 142 to 144. Was changed on night shift because the group moved north. Speed restriction is now from 144 to 145.
Incidental	2022-11-11 10:04	Yes	Muskox	1	Foraging	N/A	100	148	West	No		-96.42744	65.220477			No	Not Exceeded	
Incidental	2022-11-11 10:04	Yes	Muskox	4	Lying Down	N/A	2000	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-11-12 9:00	Yes	Caribou	35	Walking	S	900	175	East	No		-96.60237	65.377259			No	Not Exceeded	
Road	2022-11-12 9:00	Yes	Muskox	21	Feeding	N/A	50	148	West	No		-96.42744	65.220477			No	Exceeded	Speed restriction put in place
Road	2022-11-12 9:00	Yes	Muskox	4	Feeding	N/A	1500	113	East	N/A		-95.99327	65.058803			No	Not Exceeded	
Road	2022-11-13 10:05	Yes	Muskox	6	Resting	N/A	1500	160	West	No		-96.41356	65.294293			No	Not Exceeded	
Road	2022-11-13 10:05	Yes	Caribou	2	Foraging	N/A	800	159	East	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-11-13 10:05	Yes	Muskox	1	Resting	N/A	100	153	West	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-11-13 10:05	Yes	Muskox	21	Foraging	N/A	75	148	West	No		-96.42744	65.220477			No	Exceeded	Speed restriction still in place from yesterday. KM148-149
Road	2022-11-13 10:05	Yes	Muskox	23	Foraging	N/A	1800	144	West	No		-96.39539	65.226135			No	Exceeded	They are more than 1.5 km away
Road	2022-11-13 10:05	Yes	Muskox	4	Resting	N/A	1000	122	West	No		-96.09715	65.114773			No	Not Exceeded	
Road	2022-11-13 10:05	Yes	Muskox	5	Foraging	N/A	1200	110	West	No		-96.04065	65.0414			No	Not Exceeded	
Road	2022-11-15 13:26	Yes	Caribou	2	Resting	N/A	100	157	West	No		-96.41584	65.271231			No	Not Exceeded	
Road	2022-11-15 13:26	Yes	Muskox	21	Resting	N/A	1600	148	East	No		-96.42744	65.220477			No	Exceeded	They are further than 1,5. Km from the road.
Road	2022-11-15 13:26	Yes	Muskox	38	Resting	N/A	500	145	East	No		-96.3769	65.224218			No	Exceeded	Speed restrictio from km 144 to 146.
Road	2022-11-16 6:42	Yes	Caribou	2	Feeding	N/A	200	157	West	No		-96.41584	65.271231			No	Not Exceeded	
Road	2022-11-16 6:42	Yes	Muskox	1	Feeding	N/A	300	156	West	No		-96.45207	65.262217			No	Not Exceeded	
Road	2022-11-16 6:42	Yes	Caribou	11	Alert	N/A	500	154	East	No		-96.46296	65.254604			No	Not Exceeded	
Road	2022-11-16 6:42	Yes	Caribou	2	Feeding	N/A	500	148	East	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-11-16 6:42	Yes	Muskox	37	Resting	N/A	200	145	West	No		-96.3769	65.224218			No	Exceeded	Speed restriction in place
Viewshed	2022-11-16 10:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-16 10:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-16 10:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-16 10:55		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-16 10:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-16 10:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-16 10:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-16 10:55		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-16 10:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-16 10:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-16 10:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-16 10:55		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-16 10:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-16 10:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-16 10:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-16 10:55		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-16 10:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-16 10:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-16 10:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-16 10:55		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-16 10:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-16 10:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-16 10:55		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-16 10:55		-	-			NA	144				-96.35797	65.223666					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-11-16 10:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-11-16 10:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-11-16 10:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-11-16 10:55		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-11-16 10:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-16 10:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-16 10:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-16 10:55		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-16 10:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-16 10:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-16 10:55		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-16 10:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-11-16 10:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-11-16 10:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-11-16 10:55		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-11-16 10:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-11-16 10:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-11-16 10:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-11-16 10:55		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-11-16 10:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-11-16 10:55		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-11-16 10:55		-	-			NA	118				-96.05506	65.086475					
Road	2022-11-17 13:45	Yes	Arctic fox	1	Walking	S	50	127	East	No		-96.12549	65.153813			No	Not Exceeded	
Road	2022-11-17 13:45	Yes	Muskox	38	Lying Down	N/A	300	145	West	No	Not the good coordinates	-96.3769	65.224218			No	Exceeded	Speed restriction is the same as yesterday - km144-146
Road	2022-11-17 13:45	Yes	Caribou	2	Foraging	N/A	200	148	East	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-11-17 13:45	Yes	Caribou	2	Foraging	N/A	800	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-11-17 13:45	Yes	Muskox	7	Resting	N/A	1500	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-11-17 13:45	Yes	Caribou	9	Resting	N/A	500	174	East	No		-96.60128	65.368315			No	Not Exceeded	
Incidental	2022-11-18 15:25	Yes	Arctic fox	2	Feeding	N/A	0	123	North	No	Blind hill km 123. Foxes were scratching/eating an unknown substance from the road surface	-96.10441	65.122168			No	Not Exceeded	
Incidental	2022-11-19 8:28	Yes	Arctic fox	1	Running	N	10	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Incidental	2022-11-19 8:28	Yes	Muskox	15	Feeding	Not Recorded	200	145	West	No		-96.3769	65.224218			not applicable	Exceeded	Speed restriction is in effect from km 144-146
Road	2022-11-19 13:06	Yes	Muskox	44	Lying Down	N/A	300	145	West	No		-96.3769	65.224218			No	Exceeded	Speed restriction from 144-146 at 30 km/h.
Road	2022-11-19 13:06	Yes	Caribou	1	Walking	N/A	400	148	East	No		-96.42744	65.220477			No	Not Exceeded	
Road	2022-11-19 13:06	Yes	Caribou	8	Foraging	N/A	300	153	East	No		-96.47626	65.248229			No	Not Exceeded	
Road	2022-11-19 13:06	Yes	Muskox	5	Lying Down	N/A	900	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-11-20 9:08	Yes	Common raven	1	Flying	N	5	148	East	N/A		-96.42744	65.220477			No	Not Exceeded	
Road	2022-11-20 9:08	Yes	Muskox	7	Feeding	N/A	50	158	West	N/A	Muskox adjacent to Km 158 bridge. Coordinates need to be adjusted, from km 163	-96.40471	65.277758			No	Not Exceeded	
Road	2022-11-21 10:03	Yes	Muskox	1	Feeding	Not Recorded	150	162	East	No		-96.4168	65.311548			No	Not Exceeded	
Road	2022-11-21 10:03	Yes	Muskox	7	Feeding	N/A	800	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-11-21 10:03	Yes	Caribou	10	Alert	N	200	146	East	No		-96.39801	65.226268			No	Not Exceeded	
Incidental	2022-11-21 13:09	Yes	Muskox	6	Resting	N/A	1200	114	East	No		-96.00424	65.066791			No	Not Exceeded	
Incidental	2022-11-21 13:09	Yes	Arctic fox	1	Running	N/A	15	126	East	No		-96.11084	65.148182			No	Not Exceeded	
Incidental	2022-11-21 13:09	Yes	Caribou	2	Foraging	N/A	1000	176	East	No		-96.60379	65.38622			No	Not Exceeded	
Incidental	2022-11-21 13:09	Yes	Caribou	1	Alert	N/A	800	178	West	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-11-23 8:28	Yes	Muskox	8	Resting	N/A	1500	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-11-23 8:28	Yes	Caribou	2	Foraging	N/A	200	158	West	No		-96.40471	65.277758			No	Not Exceeded	
Road	2022-11-23 8:28	Yes	Muskox	8	Foraging	N/A	300	144	East	No		-96.37093	65.222778			No	Not Exceeded	
Road	2022-11-23 8:28	Yes	Caribou	28	Foraging	N/A	1000	139	East	No		-96.27997	65.226857			No	Not Exceeded	
Road	2022-11-23 8:28	Yes	Caribou	7	Foraging	N/A	500	121	East	No		-96.08638	65.10712			No	Not Exceeded	
Road	2022-11-23 8:28	Yes	Muskox	5	Foraging	N/A	2000	121	West	No		-96.08638	65.10712			No	Not Exceeded	
Road	2022-11-24 9:14	Yes	Muskox	3	Lying Down	N/A	500	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Viewshed	2022-11-24 13:05		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-24 13:05		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-24 13:05		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-24 13:05		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-11-24 13:05		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-11-24 13:05		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-11-24 13:05		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-11-24 13:05		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-24 13:05		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-24 13:05		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-24 13:05		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-11-24 13:05		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-24 13:05		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-24 13:05		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-24 13:05		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-11-24 13:05		-	-			NA	133				-96.17538	65.199246					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-11-24 13:05		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-24 13:05		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-24 13:05		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-11-24 13:05		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-24 13:05		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-24 13:05		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-24 13:05		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-11-24 13:05		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-24 13:05		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-24 13:05		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-24 13:05		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-24 13:05		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-11-24 13:05		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-11-24 13:05		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-11-24 13:05		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-11-24 13:05		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-24 13:05		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-24 13:05		Muskox	7	Foraging	Not Recorded	850	156	West			-96.45207	65.262217				Not Exceeded	
Viewshed	2022-11-24 13:05		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-11-24 13:05		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-24 13:05		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-24 13:05		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-24 13:05		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-11-24 13:05		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-11-24 13:05		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-11-24 13:05		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-11-24 13:05		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-11-24 13:05		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-11-24 13:05		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-11-24 13:05		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-11-24 13:05		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-11-24 13:05		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-11-24 13:05		-	-			NA	176				-96.60379	65.38622					
Road	2022-11-26 9:15	Yes	Caribou	1	Foraging	N/A	236	177	West	No		-96.60847	65.394344			No	Not Exceeded	
Road	2022-11-26 9:15	Yes	Arctic fox	1	Trotting/running	N	0	177	West	Yes		-96.60847	65.394344			No	Not Exceeded	
Road	2022-11-29 10:03	Yes	Muskox	5	Foraging	N/A	200	144	East	No		-96.07325	65.021362			No	Not Exceeded	
Road	2022-11-29 10:03	Yes	Muskox	7	Foraging	N/A	750	159	West	No		-96.40886	65.286013			No	Not Exceeded	
Road	2022-11-29 10:03	Yes	Wolverine	1	Trotting/running	E	100	173	East	No		-96.60297	65.359721			No	Not Exceeded	
Road	2022-12-03 9:27	Yes	Muskox	3	Foraging	N/A	30	142	East	No		-96.3371	65.222192			No	Not Exceeded	
Road	2022-12-03 9:27	Yes	Caribou	1	Foraging	N/A	0	178	East	No		-96.6219	65.400857			No	Not Exceeded	
Viewshed	2022-12-03 9:29		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-03 9:29		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-03 9:29		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-03 9:29		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-03 9:29		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-03 9:29		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-03 9:29		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-03 9:29		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-03 9:29		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-03 9:29		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-03 9:29		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-03 9:29		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-03 9:29		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-03 9:29		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-03 9:29		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-03 9:29		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-03 9:29		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-03 9:29		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-03 9:29		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-03 9:29		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-03 9:29		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-03 9:29		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-03 9:29		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-03 9:29		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-03 9:29		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-03 9:29		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-03 9:29		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-03 9:29		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-03 9:29		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-03 9:29		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-03 9:29		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-03 9:29		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-03 9:29		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-03 9:29		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-03 9:29		-	-			NA	156				-96.45207	65.262217					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-12-03 9:29		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-03 9:29		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-03 9:29		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-03 9:29		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-03 9:29		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-03 9:29		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-03 9:29		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-03 9:29		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-03 9:29		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-03 9:29		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-03 9:29		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-03 9:29		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-03 9:29		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-12-03 9:29		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-12-03 9:29		-	-			NA	176				-96.60379	65.38622					
Road	2022-12-06 14:14	No					NA					NA	NA					
Incidental	2022-12-11 10:21	Yes	Muskox	3	Resting	N/A	400	163	West	No		-96.4304	65.317408			No	Not Exceeded	
Road	2022-12-13 12:23	Yes	Caribou	1	Feeding	N/A	1000	166	West	No		-96.48819	65.325287			No	Not Exceeded	
Road	2022-12-13 12:23	Yes	Muskox	5	Feeding	N/A	1000	164	West	No		-96.44722	65.322562			No	Not Exceeded	
Road	2022-12-15 10:07	Yes	Muskox	8	Foraging	N/A	1500	161	West	No		-96.41207	65.30324			No	Not Exceeded	
Road	2022-12-17 9:16	No					NA					NA	NA					
Viewshed	2022-12-17 11:01		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-17 11:01		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-17 11:01		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-17 11:01		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-17 11:01		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-17 11:01		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-17 11:01		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-17 11:01		-	-			NA	121-122				-96.05506	65.086475					
Viewshed	2022-12-17 11:01		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-17 11:01		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-17 11:01		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-17 11:01		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-17 11:01		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-17 11:01		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-17 11:01		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-17 11:01		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-17 11:01		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-17 11:01		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-17 11:01		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-17 11:01		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-17 11:01		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-17 11:01		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-17 11:01		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-17 11:01		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-17 11:01		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-17 11:01		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-17 11:01		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-17 11:01		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-17 11:01		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-17 11:01		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-17 11:01		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-17 11:01		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-17 11:01		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-17 11:01		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-17 11:01		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-17 11:01		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-17 11:01		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-17 11:01		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-17 11:01		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-17 11:01		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-17 11:01		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-17 11:01		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-17 11:01		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-17 11:01		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-17 11:01		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-17 11:01		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-17 11:01		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-12-17 11:01		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-12-17 11:01		-	-			NA	176				-96.60379	65.38622					
Incidental	2022-12-18 10:30	Yes	Caribou	6	Foraging	N/A	500	178	North	No		-96.6219	65.400857			No	Not Exceeded	
Road	2022-12-21 8:30	No					NA					NA	NA					
Viewshed	2022-12-21 12:43		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-21 12:43		-	-			NA	116				-96.02061	65.080258					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-12-21 12:43		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-21 12:43		-	-			NA	116				-96.02061	65.080258					
Viewshed	2022-12-21 12:43		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-21 12:43		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-21 12:43		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-21 12:43		-	-			NA	118				-96.05506	65.086475					
Viewshed	2022-12-21 12:43		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-21 12:43		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-21 12:43		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-21 12:43		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-21 12:43		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-21 12:43		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-21 12:43		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-21 12:43		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-21 12:43		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-21 12:43		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-21 12:43		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-21 12:43		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-21 12:43		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-21 12:43		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-21 12:43		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-21 12:43		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-21 12:43		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-21 12:43		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-21 12:43		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-21 12:43		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-21 12:43		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-21 12:43		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-21 12:43		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-21 12:43		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-21 12:43		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-21 12:43		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-21 12:43		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-21 12:43		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-21 12:43		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-21 12:43		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-21 12:43		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-21 12:43		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-21 12:43		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-21 12:43		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-21 12:43		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-21 12:43		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-21 12:43		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-12-21 12:43		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-12-21 12:43		-	-			NA	176				-96.60379	65.38622					
Road	2022-12-28 8:52	Yes	Muskox	23	Resting	N/A	100	149	West	No		-96.44264	65.223273			No	Exceeded	Speed restriction 148 to 149. They are at km148.5
Viewshed	2022-12-28 11:10		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-12-28 11:10		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-12-28 11:10		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-12-28 11:10		-	-			NA	176				-96.60379	65.38622					
Viewshed	2022-12-28 11:10		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-28 11:10		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-28 11:10		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-28 11:10		-	-			NA	169				-96.53703	65.340029					
Viewshed	2022-12-28 11:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-28 11:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-28 11:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-28 11:10		-	-			NA	166				-96.48819	65.325287					
Viewshed	2022-12-28 11:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-28 11:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-28 11:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-28 11:10		-	-			NA	160-161				-96.41356	65.294293					
Viewshed	2022-12-28 11:10		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-28 11:10		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-28 11:10		-	-			NA	156				-96.45207	65.262217					
Viewshed	2022-12-28 11:10		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-28 11:10		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-28 11:10		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-28 11:10		-	-			NA	154				-96.46296	65.254604					
Viewshed	2022-12-28 11:10		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-28 11:10		-	-			NA	144				-96.35797	65.223666					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2022-12-28 11:10		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-28 11:10		-	-			NA	144				-96.35797	65.223666					
Viewshed	2022-12-28 11:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-28 11:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-28 11:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-28 11:10		-	-			NA	138				-96.26018	65.2238					
Viewshed	2022-12-28 11:10		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-28 11:10		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-28 11:10		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-28 11:10		-	-			NA	133				-96.17538	65.199246					
Viewshed	2022-12-28 11:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-28 11:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-28 11:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-28 11:10		-	-			NA	128				-96.13583	65.161371					
Viewshed	2022-12-28 11:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-28 11:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	2022-12-28 11:10		-	-			NA	121-122				-96.08638	65.10712					
Viewshed	44923.46528		-	-			NA	118				-96.05506	65.086475					
Viewshed	44923.46528		-	-			NA	118				-96.05506	65.086475					
Viewshed	44923.46528		-	-			NA	118				-96.05506	65.086475					
Viewshed	44923.46528		-	-			NA	116				-96.02061	65.080258					
Viewshed	44923.46528		-	-			NA	116				-96.02061	65.080258					
Viewshed	44923.46528		-	-			NA	116				-96.02061	65.080258					
Viewshed	44923.46528		-	-			NA	116				-96.02061	65.080258					

Table A-3: Wildlife Observations at Meadowbank Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Mine & Pit	2022-01-01 13:15	Yes	Arctic fox	1	Alert	N/A	0		East	N/A	In the incinerator building	-96.0675	65.016111			Yes - Fox are living on site	Not Exceeded	
Incidental	2022-01-01 16:40	Yes	Wolverine	1	Walking	N	0					-96.0725	65.025	Successful deterrence		No	Not Exceeded	
Incidental	2022-01-09 11:57	Yes	Arctic fox	1	Running	W	NA		South		Red fox	-96.044503	65.041782			No	Not Exceeded	
Mine & Pit	2022-01-10 14:00	No					NA					NA	NA					
Incidental	2022-01-12 9:35	Yes	Red fox	1	Running	S	NA		South			-96.076667	65.039167			No	Not Exceeded	
Mine & Pit	2022-01-15 14:15	No					NA					NA	NA					
Incidental	2022-01-19 15:00	Yes	Wolverine	1	Feeding	N/A	NA				While coming back from AMQ, the environment team decided to stop at the tailing to see if the wolverine was there. Indeed he was observed at the bottom of the ramp where the sewage is dumped. Environment when to the office to get deterrents, but on arrival, the wolverine was gone.	-96.061111	65.031111	No		No	Not Exceeded	
Incidental	2022-01-19 15:12	Yes	Wolverine	1	Running	E	NA		South,North,West, East			-96.065	65.015556	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-01-20 14:20	Yes	Arctic hare	1	Alert	N/A	10		West	No	On the road near east dike where theres containers	-96.048333	65.010833			No	Not Exceeded	
Incidental	2022-01-21 8:30	Yes	Wolf	1	Lying Down		NA				While performing a wildlife patrol for the wolverine, an environment employee saw a wolf lying down at the tailing. When he approached the deterred him, the wolf went away and the employee lost sight of him.	-96.061111	65.031111	No		No	Not Exceeded	
Incidental	2022-01-27 8:50	Yes	Wolverine	1	Alert	S	NA		South		Reported by a worker - already gone when Env team arrived	-96.0675	65.016111			No	Not Exceeded	
Incidental	2022-01-28 14:15	Yes	Wolverine	1	Running	N/A	NA		North		Received a call from a worker and when the technician arrived on site the wolverine was nowhere to be seen	-96.066944	65.021944			No	Not Exceeded	
Incidental	2022-01-29 17:47	Yes	Wolverine	1	Running	N/A	NA		North		A worker called environment for a wolverine near stp. When the tech arrived the wolverine was nowhere to be seen	-96.066944	65.021944			No	Not Exceeded	
Mine & Pit	2022-01-30 9:57	No					NA					NA	NA					
Incidental	2022-01-31 13:05	Yes	Wolverine	1	Running	NE	NA		North		A worker called for a wolverine. The environment tech followed the traces from the environment building up to the coreshack. The traces was heading for the tundra. The wolverine was not seen.	-96.073611	65.021667			No	Not Exceeded	
Incidental	2022-02-03 7:00	Yes	Wolverine	1	Standing	N/A	0		South	N/A		-96.0675	65.016111	Successful deterrence		No	Not Exceeded	
Incidental	2022-02-04 7:05	Yes	Wolverine	1	Walking	N/A	0		North	N/A		-96.0675	65.016111	No		No	Not Exceeded	
Mine & Pit	2022-02-04 14:00	No					NA					NA	NA					
Incidental	2022-02-04 17:50	Yes	Wolverine	1	Trotting/running	E	0		East	N/A		-96.677016	65.399543	Successful deterrence		No	Not Exceeded	
Incidental	2022-02-05 0:00	Yes	Wolverine	1	Walking	N/A	0		South	N/A		-96.07	65.021389	No		No	Not Exceeded	
Incidental	2022-02-05 9:00	Yes	Wolverine	1	Walking	N/A	0		South	N/A		-96.0675	65.016111	No		No	Not Exceeded	
Incidental	2022-02-05 11:00	Yes	Wolverine	1	Walking	N	0		South	Yes		-96.081389	65.018333	No		No	Not Exceeded	
Incidental	2022-02-06 1:00	Yes	Wolverine	1	Walking	N/A	0		South	N/A		-96.002169	65.051123	No		No	Not Exceeded	
Incidental	2022-02-08 7:00	Yes	Wolverine	1	Walking	N	0		South	N/A		-96.07	65.021389	No		No	Not Exceeded	
Incidental	2022-02-12 7:30	Yes	Wolverine	1	Running	N	25		North	N/A	Core shack employee reported a wolverine running behind the core shack heading northwest. □ When environment team arrived on site, tracks of the wolverine were observed, but no sight of the animal.	-96.062778	65.014722	No		No	Not Exceeded	
Mine & Pit	2022-02-12 10:35	Yes	Red fox	1	Alert	N/A	0		South	No	Standing in landfarm	-96.057778	65.032778			No	Not Exceeded	
Incidental	2022-02-15 10:00	Yes	Caribou	1	Running		NA				Environment when at the area but did not see the wolverine.	-96.048889	65.029167	No		No	Not Exceeded	
Incidental	2022-02-16 9:00	Yes	Wolverine	1	Trotting/running	N	NA				Environment when at the area but did not see the wolverine.	-96.076667	65.039167	No		No	Not Exceeded	
Incidental	2022-02-17 8:00	Yes	Wolverine	1	Trotting/running	N	NA					-96.048889	65.029167	No		No	Not Exceeded	
Incidental	2022-02-18 7:30	Yes	Wolverine	1	Feeding	N/A	NA				The wolverine started running towards the landfill and desaperd in a field of bolder located south of the landfill.	-96.061111	65.031111	Successful deterrence		No	Not Exceeded	

Table A-3: Wildlife Observations at Meadowbank Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Mine & Pit	2022-02-19 15:08	No					NA					NA	NA					
Incidental	2022-02-20 6:30	Yes	Wolverine	1	Running	E	NA				Environment received a radio call that a wolverine was in front of their office. The environment went outside and the wolverine was on the road between the environment office main entrance doors and the stairs going to the main camp. The wolverine immediately started running behind the building towards the tundra and we lost sight in the darkness.	-96.073611	65.021667	No		No	Not Exceeded	
Incidental	2022-02-21 6:30	Yes	Wolverine	1	Running	N/A	0		North	N/A	The environment team arrived a few minutes later, but the wolverine was already gone.	-96.07	65.021389	Successful deterrence		No	Not Exceeded	
Incidental	2022-02-21 7:20	Yes	Wolverine	1	Lying Down	N/A	75		West	No	The environment team was doing a wildlife patrol when we came across this wolverine. He was a the same place as before e.i. on the tailings near landfarm/landfill.	-96.057778	65.032778	No		No	Not Exceeded	
Incidental	2022-02-21 9:50	Yes	Wolf	1	Trotting/running	S	0		North	No	I was on my way to the ST-8 for my daily sample and the wolf was on the road. It fled towards the landfill. I did not have the time to deter it since it fled immediately after seeing me.	-96.048333	65.010833	No		No	Not Exceeded	
Incidental	2022-02-21 10:30	Yes	Wolverine	1	Foraging	N/A	100		West	No		-96.054444	65.033333	Successful deterrence		No	Not Exceeded	
Incidental	2022-02-21 22:00	Yes	Wolverine	1	Trotting/running		NA				Environment received a phone call mentioning that a wolverine was observed running by the incinerator. Upon arrival, no wolverine was observed. Environment monitored around site and incinerator for a while, but no presence of the animal.	-96.0675	65.016111	No		No	Not Exceeded	
Incidental	2022-02-25 8:00	Yes	Wolf	1	Walking	Not Recorded	NA				Reported by radio, was already gone when Env. arrived.	-96.062778	65.014722	No		No	Not Exceeded	
Mine & Pit	2022-02-26 15:06	Yes	Arctic fox	1	Walking	W	0		West	No	Between tailings and airstrip	-96.061111	65.031111			No	Not Exceeded	
Incidental	2022-02-28 20:00	Yes	Wolverine	1	Walking	Not Recorded	NA				Reported by email	-96.073611	65.021667	No		No	Not Exceeded	
Other	2022-03-05 15:31	Yes	Arctic fox	3	Trotting/running	Not Recorded	NA			N/A		-96.066512	65.014006			No	Not Exceeded	
Incidental	2022-03-11 13:05	Yes	Wolverine	1	Running	E	NA		East			-96.069722	65.011667			Yes - Multiple sightings of wolverine at the same places	Not Exceeded	
Incidental	2022-03-11 14:28	Yes	Wolverine	1	Running	N	NA		North			-96.062778	65.014722			Yes - Seen multiple times in the same areas	Not Exceeded	
Incidental	2022-03-12 10:34	Yes	Wolverine	1	Running	N/A	NA		North		Tried to use deterrent but hid around Nova Camp.	-96.044503	65.041782			Yes - Multiple sightings in the same areas	Not Exceeded	
Mine & Pit	2022-03-12 13:41	No					NA					NA	NA					
Mine & Pit	2022-03-12 14:41	No					NA					NA	NA					
Incidental	2022-03-13 8:00	Yes	Wolverine	1	Running		NA				The environment team went to the assay lab a few minutes later, but the wolverine wasn't there. A site patrol was conducted, no sight of the animal.	-96.002169	65.051123	No		No	Not Exceeded	
Incidental	2022-03-14 9:00	Yes	Wolverine	1	Running		NA				The wolverine was reported running under the kitchen, accessing through a burrow where their red roll off bin is located. See photos in the server.	-96.07	65.021389	No		No	Not Exceeded	
Incidental	2022-03-15 8:00	Yes	Wolverine	1	Running		NA				Environment heard the call on the radio. Upon arrival, the wolverine was already gone. We took advantage of the fact that he was out to block the hole below the kitchen. See photos in the drive.	-96.048333	65.010833	No		No	Not Exceeded	
Incidental	2022-03-16 8:20	Yes	Wolverine	1	Feeding	N/A	0		East	No		-96.0675	65.016111	Deterrents did not succeed		No	Not Exceeded	
Mine & Pit	2022-03-18 14:48	Yes	Red fox	1	Feeding	N/A	0			No	Where we drop the sewage in the tailings south cell	-96.061111	65.031111			No	Not Exceeded	
Mine & Pit	2022-03-19 13:05	Yes	Caribou	12	Walking	W	700		West	No	On second portage lake near the fresh water barge	-96.081389	65.018333			No	Not Exceeded	
Mine & Pit	2022-03-20 13:30	No					NA					NA	NA					
Mine & Pit	2022-03-27 13:11	Yes	Wolverine	1	Running	N	100		North	Yes	Left landfill to wrsf	-96.054444	65.033333			No	Not Exceeded	
Mine & Pit	2022-03-27 13:11	Yes	Arctic fox	2	Foraging	N/A	0		North	No	Inside a seacan	-96.0675	65.016111			No	Not Exceeded	
Incidental	2022-03-29 2:30	Yes	Red fox	1	Feeding	N/A	5		South			-96.061111	65.031111	Successful deterrence		Yes - has been seen several times in the taillings area.	Not Exceeded	

Table A-3: Wildlife Observations at Meadowbank Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-04-02 12:00	Yes	Wolverine	1	Feeding	NE	NA		East	Yes	Beside landfarm and south cell, where they dump the sewage	-96.057778	65.032778	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-04-02 16:28	Yes	Caribou	5	Walking	N	100		East	No	- East about 100M 5 caribou -	-96.003611	65.075			No	Not Exceeded	
Incidental	2022-04-04 13:18	Yes	Wolverine	1	Dead	N/A	NA				South cell where sewage truck is dumping	-96.061111	65.031111	Deterrents did not succeed	Project related	No	Not Exceeded	
Mine & Pit	2022-04-17 10:34	No					NA					NA	NA					
Mine & Pit	2022-04-19 13:39	Yes	Arctic hare	3	Standing	N/A	2		West	No		-96.048333	65.010833			No	Not Exceeded	
Incidental	2022-04-25 14:30	Yes	Wolf	1	Standing	NE	10		East	No		-96.003611	65.075	Successful deterrence		No	Not Exceeded	
Incidental	2022-04-30 5:45	Yes	Wolf	2	Walking	SE	100	Not Exceeded	East	No	walking from FWB to south-East	-96.081389	65.018333			No	Not Exceeded	
Mine & Pit	2022-04-30 14:03	No					NA					NA	NA					
Mine & Pit	2022-05-06 13:16	Yes	Caribou	5	Feeding	N/A	25		East	No		-96.0725	65.025			No	Not Exceeded	
Mine & Pit	2022-05-06 13:16	Yes	Caribou	5	Feeding	N/A	150		West	No		-96.003611	65.075			No	Not Exceeded	
Mine & Pit	2022-05-07 14:55	No					NA					NA	NA					
Mine & Pit	2022-05-12 14:25	Yes	Caribou	23	Feeding	N/A	25		East	No		-96.003611	65.075			No	Not Exceeded	
Mine & Pit	2022-05-14 15:23	Yes	Caribou	5	Feeding	N/A	50		West	No		-96.044503	65.041782			No	Not Exceeded	
Incidental	2022-05-18 5:30	Yes	Wolverine	1	Running	N/A	NA				Worker at nova camp encountered a wolverine when he was smoking just outside the entrance of nova camp.	-96.044503	65.041782			No	Not Exceeded	
Incidental	2022-05-21 7:23	Yes	Wolverine	1	Running	W	NA		South		Wolverine was at the south cell landfarm.	-96.061111	65.031111	Successful deterrence		No	Not Exceeded	
Incidental	2022-05-24 15:51	Yes	Caribou	25	Resting	N/A	NA		East			-96.076667	65.039167			No	Not Exceeded	
Mine & Pit	2022-05-25 7:17	Yes	Arctic hare	6	Foraging	N/A	75		East	No		-96.056944	65.005278			No	Not Exceeded	
Mine & Pit	2022-05-25 7:17	Yes	Arctic fox	1	Walking	N	0		South	No		-96.044503	65.041782			No	Not Exceeded	
Incidental	2022-05-25 9:49	Yes	Caribou	7	Feeding	N/A	NA		North			-96.0725	65.025			No	Not Exceeded	
Mine & Pit	2022-05-28 15:20	Yes	Other	1	Flying	N/A	10		West	No	Seagull.	-96.056944	65.005278			No	Not Exceeded	
Mine & Pit	2022-05-28 15:20	Yes	Other	12	Flying	N/A	0		West	N/A	Seagull.	-96.057778	65.032778			No	Not Exceeded	
Mine & Pit	2022-05-31 9:31	Yes	Arctic hare	2	Lying Down	N/A	10		West	No		-96.0725	65.025			No	Not Exceeded	
Mine & Pit	2022-05-31 9:31	Yes	Canada goose	2	Walking	N/A	50		East	No		-96.044503	65.041782			No	Not Exceeded	
Mine & Pit	2022-05-31 9:31	Yes	Arctic hare	1	Lying Down	N/A	1		West	No		-96.056944	65.005278			No	Not Exceeded	
Mine & Pit	2022-05-31 9:31	Yes	Arctic hare	1	Lying Down	N/A	0		East	No		-96.056944	65.005278			No	Not Exceeded	
Mine & Pit	2022-06-04 10:39	No					NA					NA	NA					
Mine & Pit	2022-06-11 12:40	Yes	Caribou	4	Feeding	Not Recorded	10		South,East	No	4 caribou near KM 106. 2 on the east side of the road and 2 on the west side	-96.081389	65.018333			No	Not Exceeded	
Incidental	2022-06-12 16:30	Yes	Caribou	4	Foraging	S	0				Four caribous were reported on the airstrip just before a plane departure. An environment employee went to deter them by clapping hands but caribous were not cooperating. Afterwards, the employee used the pick-up horn to make them move. This time, they went off the runway but stayed on the edge between the airstrip and Q23. They were still too close to the runway, so a second environment employee came to with deterrent gear. Two whistlers were fired and caribous started walking crossing the runway and move towards the freshwater barge.	-96.0725	65.025	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-06-14 13:01	Yes	Caribou	4	Alert	SW	0		West	Yes		-96.0725	65.025	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-06-14 13:01	Yes	Canada goose	11	Walking	N/A	50		East	No		-96.07	65.02			No	Not Exceeded	
Mine & Pit	2022-06-14 13:01	Yes	Ptarmigan	1	Walking	N/A	25		West	No		-96.081389	65.018333			No	Not Exceeded	
Mine & Pit	2022-06-18 13:10	Yes	Caribou	1	Lying Down	N/A	100		East	No		-96.0725	65.025			No	Not Exceeded	
Mine & Pit	2022-06-18 13:10	Yes	Muskox	2	Feeding	N/A	10		North	No		-96.076667	65.039167			No	Not Exceeded	
Mine & Pit	2022-06-18 13:10	Yes	Canada goose	19	Feeding	Not Recorded	10		South	No		-96.044503	65.041782			No	Not Exceeded	
Mine & Pit	2022-06-18 13:10	Yes	Canada goose	4	Feeding	N/A	50		East	N/A		-96.056944	65.005278			No	Not Exceeded	
Incidental	2022-06-22 17:31	Yes	Muskox	2	Feeding	S	NA		South		10 meters from airstrip, between AWAR and airstrip	-96.0725	65.025	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-06-25 16:39	No					NA					NA	NA					
Incidental	2022-06-30 14:00	Yes	Caribou	4	Feeding	N/A	NA		East		Along the fresh water barge road, not too far from the airstrip	-96.081389	65.018333			No	Not Exceeded	
Incidental	2022-06-30 14:30	Yes	Muskox	2	Feeding	N/A	NA		South			-96.044503	65.041782			No	Not Exceeded	
Incidental	2022-06-30 14:35	Yes	Muskox	2	Standing	N/A	NA		North			-96.044503	65.041782			No	Not Exceeded	
Incidental	2022-07-01 12:55	Yes	Caribou	4	Alert	E	NA				Communication will be end of the month	-96.0725	65.025	Successful deterrence		No	Not Exceeded	
Incidental	2022-07-01 17:23	Yes	Muskox	1	Feeding	N/A	NA					-96.0725	65.025			No	Not Exceeded	
Mine & Pit	2022-07-02 7:59	Yes	Caribou	2	Foraging	S	500		West	No		-96.003611	65.075			No	Not Exceeded	
Mine & Pit	2022-07-02 7:59	Yes	Caribou	1	Feeding	Not Recorded	25		West	No	Top of the hill behind sea can, near st-s-1	-96.048333	65.010833			No	Not Exceeded	
Mine & Pit	2022-07-02 7:59	Yes	Arctic hare	1	Alert	Not Recorded	0		West	Yes		-96.048333	65.010833			No	Not Exceeded	
Mine & Pit	2022-07-02 7:59	Yes	Muskox	2	Feeding	Not Recorded	200		East	No		-96.076667	65.039167			No	Not Exceeded	
Mine & Pit	2022-07-02 7:59	Yes	Arctic hare	1	Alert	E	10		East	No		-96.101111	65.046389			No	Not Exceeded	
Mine & Pit	2022-07-02 7:59	Yes	Muskox	1	Foraging	Not Recorded	5		East	No		-96.044503	65.041782			No	Not Exceeded	
Mine & Pit	2022-07-02 7:59	Yes	Muskox	2	Feeding	N/A	5		West	No		-96.0725	65.025			No	Not Exceeded	
Mine & Pit	2022-07-03 8:00	Yes	Caribou	1	Foraging	N/A	0		West	No		-96.073611	65.021667			No	Not Exceeded	
Mine & Pit	2022-07-03 8:00	Yes	Muskox	5	Resting	N/A	300		West	No		-96.101111	65.046389			No	Not Exceeded	
Mine & Pit	2022-07-03 8:00	Yes	Caribou	2	Resting	N/A	700		West	No		-96.061111	65.031111			No	Not Exceeded	

Table A-3: Wildlife Observations at Meadowbank Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-07-03 21:00	Yes	Wolf	1	Walking	N	NA		East		Got a call from fountain tire. But seen it at the airstrip and chased it to the way and went in the tundra towards np2	-96.063889	65.015	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-07-05 10:11	Yes	Muskox	4	Lying Down	N/A	50		East	No	Lake side end of the air strip, in tundra	-96.0725	65.025			No	Not Exceeded	
Mine & Pit	2022-07-05 10:11	Yes	Muskox	2	Foraging	N/A	200		West	No		-96.044503	65.041782			No	Not Exceeded	
Mine & Pit	2022-07-05 10:11	Yes	Muskox	1	Foraging	Not Recorded	40		West	No		-96.003611	65.075			No	Not Exceeded	
Incidental	2022-07-06 15:06	Yes	Wolf	1	Walking	NE	NA		East			-96.044503	65.041782	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-07-09 14:26	Yes	Caribou	2	Feeding	N/A	0			N/A	Down the ramp of pit A	-96.048889	65.029167	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-07-11 9:31	Yes	Muskox	1	Alert	W	0		East	Yes		-96.0725	65.025	Successful deterrence		Yes - Been around since last week	Not Exceeded	
Mine & Pit	2022-07-11 9:31	Yes	Caribou	1	Feeding	N/A	1		East	N/A	In between airport and nova camp in the ditch.	-96.044503	65.041782			Yes - Same caribou thats been on site for a while	Not Exceeded	
Mine & Pit	2022-07-18 14:17	Yes	Muskox	1	Lying Down	N/A	10		North	No	1 muskox. Lying down	-96.0725	65.025			No	Not Exceeded	
Mine & Pit	2022-07-18 14:17	Yes	Muskox	1	Lying Down	N/A	12		East	No	1 muskox lying down	-96.081389	65.018333			No	Not Exceeded	
Mine & Pit	2022-07-18 14:17	Yes	Muskox	1	Lying Down	N/A	8		North	No	1 muskox lying down down the side of the road.	-96.003611	65.075			No	Not Exceeded	
Mine & Pit	2022-07-18 14:17	Yes	Caribou	1	Walking	NE	0		North	N/A	1 caribous at ST-S-1 going up ramp to East Dyke	-96.048333	65.010833			No	Not Exceeded	
Incidental	2022-07-21 13:00	Yes	Caribou	1	Lying Down	S	0		South	Yes	Somebody reported a caribou on the tailings south cell. Environment team went to push it away from the TSF.	-96.002169	65.051123	Successful deterrence		No	Not Exceeded	
Incidental	2022-07-21 13:40	Yes	Caribou	1	Walking	SW	0		West	No	Walked towards the caribou for it to go in the toundra.	-96.002169	65.051123			No	Not Exceeded	
Incidental	2022-07-23 0:00	Yes	Wolf	1	Walking	N/A	NA				Maintenance reported a wolf at the Iron pad	-96.002169	65.051123		Project non-related	No	Not Exceeded	
Incidental	2022-07-23 9:15	Yes	Wolf	1	Trotting/running	N	0		North	Yes	Wolf was first spotted by the road going to Central dike sampling point.	-96.061111	65.031111	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-07-23 16:00	Yes	Muskox	1	Resting	N/A	24		North	No	Musxox 25 meters north of the airstrip. On the east dike side.	-96.0725	65.025			No	Not Exceeded	
Mine & Pit	2022-07-23 16:00	Yes	Muskox	1	Foraging	N/A	300		West	No		-96.003611	65.075			No	Not Exceeded	
Incidental	2022-07-24 6:40	Yes	Muskox	2	Foraging	N/A	NA		North			-96.061111	65.031111			No	Not Exceeded	
Incidental	2022-07-28 9:45	Yes	Muskox	2	Feeding	N/A	NA				Two Muskox between the airstrip and the AWAR	-96.0725	65.025	Successful deterrence		No	Not Exceeded	
Incidental	2022-07-30 10:00	Yes	Wolf	1	Walking	SE	300		West	No		-96.081389	65.018333	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-07-30 16:06	No					NA					NA	NA					
Incidental	2022-08-01 5:00	Yes	Wolf	1	Walking	SE	0				Wolf reported walking on the push back parking by a LHT driver to the dispatch.	-96.002169	65.051123			No	Not Exceeded	
Incidental	2022-08-01 9:00	Yes	Wolf	10	Feeding	N/A	250				South cell, bottom of the ramp near the landfarm.	-96.061111	65.031111	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-08-05 9:16	Yes	Muskox	1	Foraging	W	200		West	No		-96.101111	65.046389			No	Not Exceeded	
Mine & Pit	2022-08-05 9:16	Yes	Sandhill crane	2	Walking	N/A	75			No		-96.081389	65.018333			No	Not Exceeded	
Mine & Pit	2022-08-05 9:16	Yes	Caribou	1	Feeding	N/A	50		West	No		-96.081389	65.018333			No	Not Exceeded	
Mine & Pit	2022-08-05 9:16	Yes	Canada goose	8	Resting	N/A	50		East	No		-96.081389	65.018333			No	Not Exceeded	
Mine & Pit	2022-08-12 16:21	No					NA					NA	NA					
Mine & Pit	2022-08-17 15:36	Yes	Canada goose	13	Resting	N/A	20		West	No		-96.076667	65.039167			No	Not Exceeded	
Mine & Pit	2022-08-17 15:36	Yes	Canada goose	23	Resting	N/A	25		West	No	Little bit further down the road north cell	-96.076667	65.039167			No	Not Exceeded	
Mine & Pit	2022-08-19 13:58	No					NA					NA	NA					
Mine & Pit	2022-08-26 15:25	Yes	Caribou	5	Foraging	N/A	350		West	No		-96.07	65.02			No	Not Exceeded	
Mine & Pit	2022-09-03 8:54	No					NA					NA	NA					
Mine & Pit	2022-09-12 8:27	Yes	Muskox	2	Feeding	Not Recorded	80		East	No		-96.003611	65.075			No	Not Exceeded	
Mine & Pit	2022-09-12 8:27	Yes	Muskox	1	Feeding	Not Recorded	50		West	No	50m away	-96.003611	65.075			No	Not Exceeded	
Mine & Pit	2022-10-01 15:28	No					NA					NA	NA					
Incidental	2022-10-02 16:45	Yes	Wolverine	1	Alert	N/A	NA		East			-96.044503	65.041782	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-10-08 7:35	No					NA					NA	NA					
Incidental	2022-10-12 15:30	Yes	Wolverine	1	Walking	N/A	NA		South			-96.054444	65.033333	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-10-16 10:00	No					NA					NA	NA					
Mine & Pit	2022-10-29 14:36	No					NA					NA	NA					
Mine & Pit	2022-11-05 15:21	No					NA					NA	NA					
Incidental	2022-11-10 5:20	Yes	Wolverine	1	Walking	N/A	NA		South		Mill sea-can segregation. Between mill and main camp.. Wolverine call from the mill (Robert) at 5:20am. Environment did a tour inspection and did not observed the wolverine.	-96.07	65.02			No	Not Exceeded	
Incidental	2022-11-12 2:45	Yes	Wolverine	1	Walking	Not Recorded	NA		West		Site service coverall□ In and around Bus18. Environment team went to the location of Bus 18 at 6:30 am but the bus was gone. On the way to AMQ.	-96.044503	65.041782			No	Not Exceeded	
Mine & Pit	2022-11-12 14:30	Yes	Arctic fox	1	Walking	N/A	25		South	No	Walking around the garbage bin.□	-96.0675	65.016111			No	Not Exceeded	
Mine & Pit	2022-11-12 14:30	Yes	Arctic hare	1	Feeding	N/A	100		North	No	Close to the AIR PM station (DF-1).	-96.069722	65.011667			No	Not Exceeded	

Table A-3: Wildlife Observations at Meadowbank Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Mine & Pit	2022-11-12 14:30	Yes	Arctic fox	1	Alert	Not Recorded	100		North	No	Lanfarm□ .	-96.054444	65.033333			No	Not Exceeded	
Incidental	2022-11-13 8:15	Yes	Wolverine	1	Walking	S	NA		South		Walking close to the HAZMAT seacan.. Environment staff was notified. Upon arrival, the wolverine was gone. The technician patrolled the area, the wolverine was not observed, only fresh tracks.	-96.0675	65.016111			No	Not Exceeded	
Incidental	2022-11-14 6:30	Yes	Wolverine	1	Walking	S	NA		South		On top of the incinerator yellow bin. . Environment staff received a call. Upon arrival, the wolverine was gone. Tracks were observed on the ground. Environment did patrolled around the area. No daily light at that time.	-96.0675	65.016111			No	Not Exceeded	
Mine & Pit	2022-11-20 9:13	Yes	Arctic fox	1	Alert	N/A	0		North	N/A	Incinerator□ .	-96.0675	65.016111			No	Not Exceeded	
Mine & Pit	2022-11-23 14:20	Yes	Arctic fox	1	Trotting/running	N/A	20		East	No	Behind the incinerator.	-96.0675	65.016111			No	Not Exceeded	
Mine & Pit	2022-11-25 10:30	Yes	Muskox	5	Standing	N/A	1500		East	No	East side of the road at vault□ .	-96.003611	65.075			No	Not Exceeded	
Mine & Pit	2022-11-25 10:30	Yes	Wolverine	1	Trotting/running	E	0		East	Yes	Crossingthe roadroght before vault□ .	-96.003611	65.075			No	Not Exceeded	
Incidental	2022-12-09 17:17	Yes	Wolverine	1	Walking	N/A	NA		East		SS coverall.	-96.044503	65.041782	Successful deterrence		No	Not Exceeded	
Incidental	2022-12-12 10:04	Yes	Wolverine	1	Walking	Not Recorded	NA		West		Walking on the road between incinerator and tank farm□ .	-96.0675	65.016111			No	Not Exceeded	
Incidental	2022-12-13 7:40	Yes	Wolverine	1	Foraging	NW	NA		West		Near the C-Cans and went behind the building after shooting bangers.	-96.0675	65.016111	Successful deterrence		No	Not Exceeded	
Incidental	2022-12-14 16:38	Yes	Wolverine	1	Walking	N/A	NA		West		C-Cans row.	-96.0675	65.016111	Successful deterrence		Yes - Seeing it everyday since the 8th	Not Exceeded	
Mine & Pit	2022-12-17 13:06	Yes	Arctic fox	1	Walking	S	0		South	Yes	In front of Assay Lab. Crossed the road to go in the tundra in front of the Assay Lab.	-96.07	65.021389			No	Not Exceeded	
Incidental	2022-12-20 8:12	Yes	Wolverine	2	Hiding	N/A	NA		North		WRF.	-96.054444	65.033333	Successful deterrence		Yes - Been getting calls for them and seen them alot	Not Exceeded	
Mine & Pit	2022-12-23 14:19	Yes	Arctic fox	1	Alert	N/A	20		West	No		-96.0675	65.016111			No	Not Exceeded	
Mine & Pit	2022-12-24 13:45	No					NA					NA	NA					

Table A-4: Wildlife Observations at Whale Tail Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Mine & Pit	2022-01-01 13:10	No					NA					NA	NA					
Mine & Pit	2022-01-08 15:07	No					NA					NA	NA					
Mine & Pit	2022-01-13 14:00	No					NA					NA	NA					
Mine & Pit	2022-01-15 22:50	Yes	Arctic fox	1	Trotting/running	N	0		North,South,East, West	Yes	Close to lake A49	-96.702296	65.403912			Yes - Hard to say, a lot of tolerant foxes on site.	Not Exceeded	
Mine & Pit	2022-01-23 11:20	Yes	Arctic fox	1	Foraging	N/A	0		East	No	Landfill	-96.727918	65.409337			No	Not Exceeded	
Blast	2022-01-23 11:20	None					NA					NA	NA				Not Exceeded	
Blast	2022-01-27 10:50	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-01-29 11:15	Yes	Caribou	10	Resting	N/A	350		East,West	N/A	Pad K (near the entrance to the WTHR) ~km179	-96.705273	65.40389			No	Not Exceeded	
Blast	2022-01-29 11:30	Wildlife observed	Caribou	10	Feeding	Not recorded,N/A	NA		East			-96.666564	65.401795				Not Exceeded	
Blast	2022-01-31 11:30	None					NA					NA	NA				Not Exceeded	
Blast	2022-02-02 9:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-02-03 11:52	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-02-05 10:27	Yes	Arctic fox	2	Running	W	0		North	Yes	Running away from site into tundra	-96.697302	65.403718			No	Not Exceeded	
Blast	2022-02-05 11:41	None					NA					NA	NA				Not Exceeded	
Blast	2022-02-06 10:28	None					NA					NA	NA				Not Exceeded	
Blast	2022-02-07 14:59	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-02-12 11:00	No					NA					NA	NA					
Blast	2022-02-12 11:04	None					NA					NA	NA				Not Exceeded	
Blast	2022-02-13 11:20	None					NA					NA	NA				Not Exceeded	
Blast	2022-02-14 11:20	None					NA					NA	NA				Not Exceeded	
Blast	2022-02-15 11:25	None					NA					NA	NA				Not Exceeded	
Incidental	2022-02-16 6:20	Yes	Caribou	5	Foraging	N/A	NA		South			-96.705273	65.40389			No	Not Exceeded	
Mine & Pit	2022-02-19 9:07	Yes	Arctic fox	2	Foraging	N/A	0		North	No	Landfill	-96.705273	65.40389			Yes - Foxes around camp stay around pretty much all winter	Not Exceeded	
Blast	2022-02-20 11:25	None					NA					NA	NA				Not Exceeded	
Blast	2022-02-21 11:30	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-02-26 13:30	No					NA					NA	NA					
Blast	2022-02-27 10:58	None					NA					NA	NA				Not Exceeded	
Blast	2022-02-28 10:43	None					NA					NA	NA				Not Exceeded	
Incidental	2022-02-28 11:00	Yes	Arctic fox	1	Walking		NA					-96.697302	65.403718			No	Not Exceeded	
Incidental	2022-03-01 10:00	Yes	Arctic fox	1	Dead		NA					-96.705273	65.40389		Project related	No	Not Exceeded	
Incidental	2022-03-05 8:50	Yes	Caribou	15	Walking		NA					-96.733436	65.395284			No	Not Exceeded	
Blast	2022-03-06 9:55	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-03-06 12:45	No					NA					NA	NA					
Blast	2022-03-07 9:30	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-03-11 13:25	No					NA					NA	NA					
Blast	2022-03-12 9:30	None					NA					NA	NA				Not Exceeded	
Incidental	2022-03-15 19:30	Yes	Arctic fox	1	Dead	N/A	0		South	N/A	An AEM employee found a dead Arctic Fox that appears to have been struck by a vehicle at the northwest side of the AMQ Warehosue in the middle of the road. The employee called his supervisor who then contacted the Environmental personnel to come and assess the carcass. Upon investigating the location and the carcass, it appears that the fox was struck by a vehicle. The carcass was removed and kept frozen at AMQ until further notice of the conservation officer at Baker Lake. A general reminder to all operators of vehicles/equipment to be aware of wildlife presence around site.	-96.002169	65.051123	No	Project related	No	Not Exceeded	
Incidental	2022-03-18 8:30	Yes	Arctic hare	1	Dead	N/A	NA		East		The carcass was pick up has much as possible, but fox and raven ate a good part of it	-96.691475	65.414668		Project related	No	Not Exceeded	
Blast	2022-03-20 7:54	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-03-20 9:39	Yes	Arctic fox	2	Foraging	N	0		East	No	Landfill	-96.705273	65.40389			Yes - Same two foxes that stay near the landfill. Always two, always the same place and same interaction between them (playful, stay near one another, etc)	Not Exceeded	
Incidental	2022-03-21 9:24	Yes	Arctic fox	1	Resting	N	NA		East		The fox was sleeping but aware of our presence in observing him, when we moved around it would open an eye and watch our movements. Just as we were preparing to place orange delineators around his chosen resting location another fox showed up, and within about 30 seconds of the second foxes presence the first fox got up and scurried off. No visible injuries on the first fox, no limp or gait observed either.	-96.686323	65.405069	Deterrents did not succeed		Yes - We often see the same foxes in and around this location	Not Exceeded	
Mine & Pit	2022-03-26 10:45	Yes	Arctic fox	1	Foraging	N/A	0		East	No	Landfill	-96.727918	65.409337			Yes - Same fox that slays around the landfill area	Not Exceeded	
Mine & Pit	2022-03-26 10:45	Yes	Arctic fox	2	Foraging	N/A	0		West	No	Main maintenance shop	-96.67311	65.400877			No	Not Exceeded	
Blast	2022-03-26 10:45	None					NA				Blasted at 12:35	NA	NA				Not Exceeded	
Mine & Pit	2022-03-27 9:39	Yes	Arctic fox	3	Foraging	N/A	0		East	No	Yellow bin UG offices - Foraging in UG bins that were not properly segregated	-96.679148	65.406237			No	Not Exceeded	
Blast	2022-03-27 11:40	None					NA					NA	NA				Not Exceeded	
Incidental	2022-03-27 13:00	Yes	Caribou	2	Alert	E	NA		West		During the deployment of DF-6, two caribou started to follow me at 100m of distance. They follow me up to the station then started grazing around.	-96.697302	65.403718			No	Not Exceeded	
Blast	2022-03-30 16:30	None					NA					NA	NA				Not Exceeded	
Blast	2022-03-31 16:50	None					NA					NA	NA				Not Exceeded	
Incidental	2022-03-31 19:30	Yes	Wolf	2	Walking	SW	NA		West			-96.705273	65.40389	Successful deterrence		No	Not Exceeded	

Table A-4: Wildlife Observations at Whale Tail Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Mine & Pit	2022-04-01 16:50	No					NA					NA	NA					
Incidental	2022-04-02 11:59	Yes	Caribou	11	Resting	N/A	NA		East		Whale Tale dike, west side of lake, about 200 meters from the mine road.	-96.686172	65.395689			No	Not Exceeded	
Blast	2022-04-02 17:05	None					NA					NA	NA				Not Exceeded	
Incidental	2022-04-03 14:30	Wildlife observed	Caribou	5	Foraging	S	NA		South			-96.422798	65.226915				Not Exceeded	
Incidental	2022-04-04 16:15	Yes	Arctic fox	2	Feeding	N/A	NA		North		IVR new ring road, they were eating the carcass of the dead caribou reported on 2022-04-03	-96.691475	65.414668	Successful deterrence		No	Not Exceeded	
Incidental	2022-04-04 18:00	Yes	Caribou	1	Dead		100		West	N/A		-96.691475	65.414668		Project non-related	No	Not Exceeded	
Incidental	2022-04-08 8:22	Yes	Arctic fox	2	Feeding	N/A	NA		North		IVR new ring road on the west side	-96.691475	65.414668	Successful deterrence		No	Not Exceeded	
Mine & Pit	2022-04-09 16:18	No					NA					NA	NA					
Blast	2022-04-09 16:18	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-04-12 8:00	No					NA					NA	NA					
Blast	2022-04-15 17:48	Wildlife observed	Caribou	5	Lying Down	N/A	NA		South			-96.722254	65.398732				Not Exceeded	
Mine & Pit	2022-04-16 14:23	Yes	Caribou	14	Foraging	N/A	300		West	No	Near the Npag waste dump	-96.733436	65.395284			No	Not Exceeded	
Blast	2022-04-16 17:44	Wildlife observed	Caribou	14	Lying Down	N/A	NA		West			-96.664993	65.402751				Not Exceeded	
Mine & Pit	2022-04-18 17:35	No					NA					NA	NA					
Incidental	2022-04-19 14:05	Yes	Caribou	13	Resting	N/A	NA		East			-96.733436	65.395284			Yes - Same individuals are hanging around the area since a couple of days now. Same numbers and place, no stress about mine activities	Not Exceeded	
Mine & Pit	2022-04-19 15:00	Yes	Arctic fox	1	Foraging	E	0		West	Yes		-96.697302	65.403718			No	Not Exceeded	
Incidental	2022-04-19 17:38	Yes	Caribou	14	Feeding	Not Recorded	NA		North		Just north of Mammoth dyke. Behavior monitoring done for this group as well	-96.736909	65.399224			No	Not Exceeded	
Incidental	2022-04-20 16:05	Yes	Caribou	13	Foraging	N/A	NA		West		On the otherside of the lake	-96.736909	65.399224			Yes - Same group that we saw for almost 4 days now. Same numbers and general location. They are migrating east	Not Exceeded	
Mine & Pit	2022-04-21 11:10	Yes	Caribou	6	Feeding	Not Recorded	100		South	No	On the edge on WTSE, between batch plant and ABF Construction pad.100	-96.677967	65.396986			No	Not Exceeded	
Blast	2022-04-22 17:25	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-04-23 15:00	No					NA					NA	NA					
Mine & Pit	2022-04-24 13:44	Yes	Arctic fox	1	Alert	N/A	0		North	No		-96.705273	65.40389			No	Not Exceeded	
Blast	2022-04-24 17:57	Wildlife observed	Caribou	7	Foraging	Not recorded	NA		North			-96.73042	65.400664				Not Exceeded	
Blast	2022-04-25 16:59	None					NA					NA	NA				Not Exceeded	
Blast	2022-04-26 17:09	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-04-27 16:09	Yes	Caribou	11	Resting	N/A	150		West	No		-96.691475	65.414668			No	Not Exceeded	
Blast	2022-04-28 16:30	None					NA					NA	NA				Not Exceeded	
Blast	2022-04-29 19:11	Wildlife observed	Caribou	18	Foraging	W	NA		North			-96.666538	65.401747				Not Exceeded	
Blast	2022-04-30 17:25	Wildlife observed	Caribou	22	Foraging	N/A	NA	143				-96.66652	65.40176				Not Exceeded	
Blast	2022-05-02 7:45	Wildlife observed	Caribou	17	Resting	N/A	NA		East			-96.666731	65.401409				Not Exceeded	
Mine & Pit	2022-05-05 11:45	No					NA					NA	NA					
Blast	2022-05-05 17:35	Wildlife observed	Caribou	20	Resting	N/A	NA		South			-96.696415	65.39651				Not Exceeded	
Other	2022-05-07 10:34	Yes	Caribou	12	Foraging	N/A	NA					-96.719063	65.399334			No	Not Exceeded	
Mine & Pit	2022-05-07 13:15	Yes	Caribou	10	Foraging	N/A	200		South	No	Dyno road, by the the TEMP NPAG pad.	-96.733436	65.395284			No	Not Exceeded	
Mine & Pit	2022-05-07 13:15	Yes	Caribou	10	Foraging	N/A	15		East	No	Near road 35, by the pad K and the IVR WRSF.	-96.705273	65.40389			No	Not Exceeded	
Blast	2022-05-07 17:35	Wildlife observed	Caribou	10	Foraging	N/A	NA		East			-96.678881	65.406438				Not Exceeded	
Blast	2022-05-08 15:56	Wildlife observed	Caribou	25	Feeding	N/A	NA		North			-96.666633	65.401439				Not Exceeded	
Mine & Pit	2022-05-12 9:59	Yes	Arctic fox	1	Trotting/running	NE	0		South	Yes		-96.705273	65.40389			No	Not Exceeded	
Mine & Pit	2022-05-12 9:59	Yes	Arctic fox	1	Trotting/running	W	0		East	Yes	Near the ivr ring road, where dewatering stores their pipes	-96.66098	65.416987			No	Not Exceeded	
Mine & Pit	2022-05-12 9:59	Yes	Caribou	18	Resting	N/A	20		East	No	Near weather tower	-96.673157	65.406198			No	Not Exceeded	
Mine & Pit	2022-05-14 9:15	Yes	Arctic fox	1	Trotting/running	E	0		East	Deflection		-96.705273	65.40389			No	Not Exceeded	
Mine & Pit	2022-05-14 9:15	Yes	Arctic fox	1	Trotting/running	W	25		North	No		-96.705273	65.40389			No	Not Exceeded	
Incidental	2022-05-18 13:50	Yes	Caribou	3	Resting	N/A	NA		East		In the tundra between the road and landfill	-96.691475	65.414668			No	Not Exceeded	
Blast	2022-05-19 16:59	None					NA					NA	NA				Not Exceeded	
Blast	2022-05-20 17:00	None					NA				IVR West & WT Phase 3	NA	NA				Not Exceeded	
Mine & Pit	2022-05-21 13:54	Yes	Greater white-fronted goose	1	Flying	SW	0		East	Yes		-96.691475	65.414668			No	Not Exceeded	
Mine & Pit	2022-05-21 13:54	Yes	Arctic fox	1	Alert	N/A	0		East	No		-96.705273	65.40389			No	Not Exceeded	
Mine & Pit	2022-05-21 13:54	Yes	Common raven	1	Flying	S	0		East	Yes		-96.705273	65.40389			No	Not Exceeded	
Mine & Pit	2022-05-21 13:54	Yes	Arctic fox	1	Walking	NE	15		East	No		-96.727918	65.409337			No	Not Exceeded	
Blast	2022-05-21 17:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-05-22 16:36	None					NA					NA	NA				Not Exceeded	
Blast	2022-05-23 16:59	None					NA					NA	NA				Not Exceeded	
Blast	2022-05-24 16:58	None					NA					NA	NA				Not Exceeded	
Blast	2022-05-25 17:30	None					NA					NA	NA				Not Exceeded	
Blast	2022-05-26 6:22	None					NA				Second blast is in IVR West	NA	NA				Not Exceeded	
Blast	2022-05-27 12:48	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-05-28 14:00	No					NA					NA	NA					
Blast	2022-05-29 17:20	None					NA					NA	NA				Not Exceeded	
Blast	2022-05-31 18:51	None					NA					NA	NA				Not Exceeded	
Blast	2022-06-01 16:50	None					NA					NA	NA				Not Exceeded	
Blast	2022-06-02 17:24	None					NA					NA	NA				Not Exceeded	
Incidental	2022-06-03 7:29	Yes	Caribou	27	Foraging	N/A	NA		East		East of Dyno Road. between the channel and Dyno plant.	-96.733436	65.395284			No	Exceeded	Call over radio to inform of Speed Restriction
Mine & Pit	2022-06-04 9:30	Yes	Canada goose	2	Feeding	Not Recorded	10		West	No	They were swimming and feeding at the same time.	-96.688746	65.416918			No	Not Exceeded	
Blast	2022-06-04 16:48	None					NA					NA	NA				Not Exceeded	
Blast	2022-06-04 16:58	None					NA					NA	NA				Not Exceeded	
Blast	2022-06-05 17:05	None					NA					NA	NA				Not Exceeded	

Table A-4: Wildlife Observations at Whale Tail Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Blast	2022-06-06 16:56	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-06-08 10:17	Yes	Other	60	Flying	S	0			No	Goose. Flying in the sky	-96.697302	65.403718			No	Not Exceeded	
Mine & Pit	2022-06-08 10:17	Yes	Arctic hare	1	Running	N	0		North	Yes		-96.705273	65.40389			No	Not Exceeded	
Blast	2022-06-09 16:52	None					NA					NA	NA				Not Exceeded	
Blast	2022-06-10 17:00	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-06-11 15:28	Yes	Common raven	1	Flying	N	0		North	Yes		-96.705273	65.40389			No	Not Exceeded	
Blast	2022-06-12 16:30	None					NA					NA	NA				Not Exceeded	
Incidental	2022-06-14 11:40	Yes	Caribou	8	Lying Down	Not Recorded	NA		South		The caribou were located on the south side of Dyno road in an open field, about 500m east of the Dyno plant.	-96.733436	65.395284			No	Not Exceeded	
Incidental	2022-06-14 15:59	Yes	Caribou	10	Resting	Not Recorded	NA		South		The caribou were ~1km south of the main camp, on the eastern side of WTSE lake	-96.686172	65.395689			No	Not Exceeded	
Incidental	2022-06-14 16:05	Yes	Caribou	11	Resting	Not Recorded	NA		South		The caribou are resting at the base of the hill on the south side of main camp along the eastern shore of WTSE lake.	-96.686172	65.395689			No	Not Exceeded	
Incidental	2022-06-14 16:51	Yes	Caribou	5	Lying Down	Not Recorded	NA		South		The caribou were resting on east side of the camp	-96.697302	65.403718			No	Not Exceeded	
Blast	2022-06-14 17:37	Wildlife observed	Caribou	18	Foraging		NA		South			-96.665359	65.400635				Not Exceeded	
Mine & Pit	2022-06-15 13:37	No					NA					NA	NA					
Mine & Pit	2022-06-18 10:45	No					NA					NA	NA					
Blast	2022-06-18 16:45	None					NA				IVR 2 & WT Pit blast	NA	NA				Not Exceeded	
Blast	2022-06-21 7:50	None					NA					NA	NA				Not Exceeded	
Blast	2022-06-22 17:10	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-06-25 9:30	No					NA					NA	NA					
Blast	2022-06-25 16:30	None					NA				IVR 2 & WT PIT PHASE 3	NA	NA				Not Exceeded	
Blast	2022-06-25 17:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-06-26 17:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-06-26 18:20	None					NA					NA	NA				Not Exceeded	
Blast	2022-06-28 17:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-06-29 17:05	None					NA					NA	NA				Not Exceeded	
Blast	2022-07-01 17:15	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-07-02 12:30	No					NA					NA	NA					
Blast	2022-07-02 16:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-07-03 16:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-07-06 16:43	None					NA					NA	NA				Not Exceeded	
Blast	2022-07-08 17:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-07-08 17:04	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-07-09 10:06	No					NA					NA	NA					
Blast	2022-07-09 17:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-07-10 16:00	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-07-13 9:12	No					NA					NA	NA					
Mine & Pit	2022-07-16 13:30	No					NA					NA	NA					
Blast	2022-07-20 17:13	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-07-23 7:30	Yes	Caribou	1	Lying Down	N/A	0		South	Yes	First spotted near Sana Shop, then went to fuel farm. First seen by SS on Pad K. Had to chase it all the way to KM 177, then went back in the tundra.	-96.705273	65.40389			No	Not Exceeded	
Mine & Pit	2022-07-23 7:30	Yes	Crow	1	Alert	N/A	0		West	No		-96.669214	65.411909			No	Not Exceeded	
Mine & Pit	2022-07-23 7:30	Yes	Arctic hare	1	Running	S	0		South	No		-96.746986	65.384794			No	Not Exceeded	
Incidental	2022-07-23 8:45	Yes	Caribou	1	Walking	E	NA					-96.705273	65.40389			No	Not Exceeded	
Blast	2022-07-23 13:59	None					NA				None	NA	NA				Not Exceeded	
Incidental	2022-07-23 17:30	Yes	Caribou	1	Resting		NA				Report that the caribou fell from the top of the 0-3/4 pile down to a lower level. Env was called by aux supervisor. Env assessed the caribou from a distance. The caribou eventually stood up and walked into the tundra behind the WRSF	-96.66098	65.416987			No	Not Exceeded	
Blast	2022-07-24 16:55	None					NA				None	NA	NA				Not Exceeded	
Blast	2022-07-25 16:54	None					NA				None	NA	NA				Not Exceeded	
Mine & Pit	2022-07-28 15:40	Yes	Caribou	1	Running	W	0		West	Yes		-96.669214	65.411909			No	Not Exceeded	
Mine & Pit	2022-07-28 15:40	Yes	Caribou	1	Standing	N/A	50		East	No		-96.688746	65.416918			No	Not Exceeded	
Mine & Pit	2022-07-28 15:40	Yes	Caribou	1	Feeding	N	25		West	No		-96.691475	65.414668			No	Not Exceeded	
Mine & Pit	2022-07-28 15:40	Yes	Muskox	16	Resting	N/A	100		East	No	In tundra near Dyno explosives sea can	-96.746986	65.384794			No	Exceeded	They are more than 2km from operation traffic
Blast	2022-07-28 17:20	Wildlife observed	Caribou	1	Running		NA		North			-96.665879	65.402161				Not Exceeded	
Blast	2022-07-28 17:20	Wildlife observed	Muskox	16	Lying Down		NA		East			-96.665879	65.402161				Not Exceeded	
Blast	2022-07-29 16:51	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-07-30 10:19	No					NA					NA	NA					
Incidental	2022-08-03 11:00	Yes	Caribou	2	Feeding	N/A	NA		West			-96.727918	65.409337			No	Not Exceeded	
Incidental	2022-08-03 13:12	Yes	Caribou	13	Feeding	N/A	NA		West			-96.669214	65.411909			No	Not Exceeded	
Incidental	2022-08-03 13:30	Yes	Caribou	1	Walking	N	NA		South			-96.688746	65.416918			No	Not Exceeded	
Blast	2022-08-03 16:44	Wildlife observed	Caribou	1	Feeding		NA		West			-96.666608	65.401489				Not Exceeded	
Blast	2022-08-03 16:44	Wildlife observed	Caribou	5	Alert		NA		West			-96.666608	65.401489				Not Exceeded	
Blast	2022-08-04 16:42	None					NA					NA	NA				Not Exceeded	
Incidental	2022-08-05 9:23	Yes	Caribou	1	Trotting/running	N	NA		North			-96.688746	65.416918			No	Not Exceeded	
Blast	2022-08-05 17:17	Wildlife observed	Caribou	1	Feeding		NA		South			-96.681423	65.403015				Not Exceeded	
Blast	2022-08-05 17:17	Wildlife observed	Caribou	1	Foraging		NA		North			-96.681423	65.403015				Not Exceeded	
Incidental	2022-08-05 17:48	Yes	Caribou	1	Alert	S	NA		North		across from the new fountain tire shop	-96.68064	65.404347			No	Not Exceeded	
Mine & Pit	2022-08-06 14:30	Yes	Caribou	3	Foraging	N/A	10		West	No	In the tundra between dyno plant and the mammoth dike	-96.733436	65.395284			No	Not Exceeded	
Blast	2022-08-06 16:30	Wildlife observed	Caribou	1	Foraging		NA		North			-96.666641	65.401733	Successful deterrence			Not Exceeded	
Blast	2022-08-07 16:38	Wildlife observed	Caribou	1	Foraging		NA		North			-96.666618	65.401428				Not Exceeded	
Blast	2022-08-08 17:09	Wildlife observed	Caribou	1	Feeding		NA		West			-96.666665	65.401367	Successful deterrence			Not Exceeded	
Blast	2022-08-08 17:09	Wildlife observed	Caribou	1	Feeding		NA		East			-96.666665	65.401367				Not Exceeded	
Blast	2022-08-09 15:41	Wildlife observed	Caribou	5	Standing		NA		West			-96.693378	65.414856	Successful deterrence			Not Exceeded	

Table A-4: Wildlife Observations at Whale Tail Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Blast	2022-08-09 15:41	Wildlife observed	Canada goose	8	Lying Down		NA		West			-96.693378	65.414856				Not Exceeded	
Mine & Pit	2022-08-13 13:46	Yes	Caribou	3	Foraging	N/A	300		East	No		-96.688746	65.416918			No	Not Exceeded	
Mine & Pit	2022-08-13 13:46	Yes	Caribou	1	Foraging	N/A	75		East	No		-96.727918	65.409337			No	Not Exceeded	
Mine & Pit	2022-08-13 13:46	Yes	Caribou	1	Standing	N/A	0		North	N/A		-96.705273	65.40389			No	Not Exceeded	
Mine & Pit	2022-08-13 13:46	Yes	Caribou	2	Walking	N	50		East	No		-96.746986	65.384794			No	Not Exceeded	
Blast	2022-08-13 17:00	Wildlife observed	Caribou	3	Foraging		NA		East			-96.666515	65.401428				Not Exceeded	
Blast	2022-08-13 17:00	Wildlife observed	Caribou	3	Foraging		NA		East			-96.666515	65.401428				Not Exceeded	
Blast	2022-08-16 16:21	Wildlife observed	Caribou	4	Foraging		NA		West			-96.675163	65.398987				Not Exceeded	
Blast	2022-08-16 16:21	Wildlife observed	Caribou	1	Foraging		NA		West			-96.675163	65.398987				Not Exceeded	
Blast	2022-08-17 17:07	Wildlife observed	Caribou	1	Foraging		NA		North			-96.66654	65.401794				Not Exceeded	
Blast	2022-08-17 17:07	Wildlife observed	Caribou	3	Foraging		NA		North,South			-96.66654	65.401794				Not Exceeded	
Blast	2022-08-18 17:15	Wildlife observed	Caribou	2	Foraging		NA		South		IVR2 and IVR	-96.695437	65.397522				Not Exceeded	
Blast	2022-08-18 17:15	Wildlife observed	Caribou	1	Foraging		NA		East		IVR2 and IVR	-96.695437	65.397522				Not Exceeded	
Incidental	2022-08-19 15:09	Yes	Caribou	2	Lying Down	N/A	NA		West			-96.68938	65.402256			No	Not Exceeded	
Blast	2022-08-19 17:11	Wildlife observed	Caribou	1	Feeding		NA		East			-96.662098	65.403076				Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Caribou	2	Walking	N/A	100		East	No		-96.68938	65.402256			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Canada goose	6	Not recorded	N/A	300		South	No		-96.68938	65.402256			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Duck	6	Not recorded	N/A	300		South	No		-96.68938	65.402256			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Caribou	5	Lying Down	N/A	200		West	No		-96.727918	65.409337			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Caribou	3	Feeding	N/A	200		West	No		-96.736909	65.399224			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Caribou	2	Feeding	N/A	100		East	No		-96.733436	65.395284			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Caribou	12	Trotting/running	SE	0		North	Yes		-96.705273	65.40389			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Caribou	3	Trotting/running	SE	300		West	No		-96.733436	65.395284			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Bald Eagle	1	Flying	SE	100		West	No		-96.733436	65.395284			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Caribou	4	Feeding	N/A	100		West	No		-96.733436	65.395284			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Caribou	4	Feeding	N/A	100		East	No		-96.705273	65.40389			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Caribou	2	Lying Down	N/A	100		West	No		-96.672434	65.399507			No	Not Exceeded	
Mine & Pit	2022-08-20 10:36	Yes	Caribou	1	Feeding	N/A	100		West	No		-96.697302	65.403718			No	Not Exceeded	
Blast	2022-08-21 17:00	Wildlife observed	Caribou	4	Foraging		NA		North		In IVR 2 and WT PHASE 2	12.492049	41.890202				Not Exceeded	
Blast	2022-08-22 17:30	Wildlife observed	Caribou	2	Feeding		NA		East			-96.666549	65.401733				Not Exceeded	
Blast	2022-08-23 17:25	Wildlife observed	Caribou	5	Foraging		NA		North		IVR2	-96.694589	65.417297				Not Exceeded	
Blast	2022-08-23 17:25	Wildlife observed	Caribou	2	Foraging		NA		North		IVR2	-96.694589	65.417297				Not Exceeded	
Blast	2022-08-24 16:55	Wildlife observed	Caribou	1	Feeding		NA		East			-96.666495	65.401428				Not Exceeded	
Blast	2022-08-24 16:55	Wildlife observed	Caribou	1	Lying Down		NA		West			-96.666495	65.401428				Not Exceeded	
Blast	2022-08-25 16:52	Wildlife observed	Caribou	4	Feeding		NA		West			-96.666367	65.401733				Not Exceeded	
Blast	2022-08-25 16:52	Wildlife observed	Caribou	3	Feeding		NA		West			-96.666367	65.401733				Not Exceeded	
Blast	2022-08-26 16:53	Wildlife observed	Caribou	1	Feeding		NA		North			-96.666614	65.401428				Not Exceeded	
Blast	2022-08-26 16:53	Wildlife observed	Caribou	9	Feeding		NA		East,West			-96.666614	65.401428				Not Exceeded	
Blast	2022-08-26 16:57	Wildlife observed	Caribou	1	Feeding		NA		South			-96.666386	65.401733				Not Exceeded	
Blast	2022-08-26 16:57	Wildlife observed	Caribou	3	Lying Down		NA		East			-96.666386	65.401733				Not Exceeded	
Mine & Pit	2022-08-27 14:39	Yes	Caribou	3	Feeding	N/A	500		East	No		-96.705273	65.40389			No	Not Exceeded	
Mine & Pit	2022-08-27 14:39	Yes	Caribou	3	Feeding	N/A	25		East	No		-96.673157	65.406198			No	Not Exceeded	
Mine & Pit	2022-08-27 14:39	Yes	Caribou	4	Walking	S	0		South	Yes		-96.68938	65.402256			No	Not Exceeded	
Mine & Pit	2022-08-27 14:39	Yes	Caribou	1	Feeding	N/A	100		West	No		-96.733436	65.395284			No	Not Exceeded	
Mine & Pit	2022-08-27 14:39	Yes	Caribou	6	Feeding	N/A	25		East	No		-96.727918	65.409337			No	Not Exceeded	
Mine & Pit	2022-08-27 14:39	Yes	Caribou	3	Feeding	N/A	100		East	No		-96.727918	65.409337			No	Not Exceeded	
Mine & Pit	2022-08-27 14:39	Yes	Caribou	3	Feeding	N/A	100		East	No		-96.727918	65.409337			No	Not Exceeded	
Mine & Pit	2022-08-27 14:39	Yes	Caribou	2	Feeding	N/A	50		East	No		-96.727918	65.409337			No	Not Exceeded	
Mine & Pit	2022-08-27 14:39	Yes	Arctic fox	1	Running	N/A	0		North	Yes		-96.688746	65.416918			No	Not Exceeded	
Blast	2022-08-27 16:50	Wildlife observed	Caribou	3	Walking		NA		West			-96.682821	65.405151				Not Exceeded	
Blast	2022-08-28 17:06	Wildlife observed	Caribou	1	Feeding		NA		West			-96.676823	65.399658				Not Exceeded	
Blast	2022-08-28 17:06	Wildlife observed	Caribou	1	Feeding		NA		West			-96.676823	65.399658				Not Exceeded	
Incidental	2022-08-30 15:43	Yes	Caribou	8	Foraging	E	NA		South		In the field south of main camp, near Orbit garage	-96.697302	65.403718			No	Not Exceeded	
Incidental	2022-08-30 15:50	Yes	Canada goose	4	Resting	Not Recorded	NA		South			-96.68938	65.402256			No	Not Exceeded	
Incidental	2022-08-30 15:56	Yes	Caribou	2	Feeding	Not Recorded	NA		South			-96.733436	65.395284			No	Not Exceeded	
Incidental	2022-08-30 16:22	Yes	Caribou	5	Feeding	Not Recorded	NA		South		South side of WT WRSF, near WRSF dyke	-96.727918	65.409337			No	Not Exceeded	
Incidental	2022-08-31 7:15	Yes	Caribou	8	Feeding	E	NA				In the tundra spot down fountain tire and FWTP	-96.677967	65.396986			No	Not Exceeded	
Incidental	2022-08-31 7:40	Yes	Caribou	2	Feeding	E	NA				Between WRSF IVR and IVR attenuation pond	-96.673157	65.406198			No	Not Exceeded	
Incidental	2022-08-31 7:45	Yes	Caribou	3	Walking	W	NA					-96.686172	65.395689			No	Not Exceeded	
Incidental	2022-08-31 11:24	Yes	Caribou	1	Lying Down	N/A	NA		East		Superhighway waste dump small spot of tundra	-96.691475	65.414668			No	Not Exceeded	
Incidental	2022-08-31 11:36	Yes	Caribou	5	Feeding	N/A	NA		East			-96.733436	65.395284			No	Not Exceeded	
Blast	2022-08-31 17:13	Wildlife observed	Caribou	6	Foraging		NA		East			-96.680141	65.407104				Not Exceeded	
Blast	2022-08-31 17:13	Wildlife observed	Caribou	1	Feeding		NA		East			-96.680141	65.407104				Not Exceeded	
Blast	2022-09-02 17:24	Wildlife observed	Caribou	5	Resting		NA		North		Mass pattern	-96.666574	65.401428				Not Exceeded	
Blast	2022-09-02 17:24	Wildlife observed	Caribou	3	Feeding		NA		North		Mass pattern	-96.666574	65.401428				Not Exceeded	
Mine & Pit	2022-09-03 11:12	Yes	Caribou	1	Walking	S	0		North	Yes	In between IVR WRSF and UG shop, crossing the IVR att. Pond access road.	-96.673157	65.406198			No	Not Exceeded	
Mine & Pit	2022-09-03 11:12	Yes	Caribou	3	Foraging	N/A	5		North	No		-96.669214	65.411909			No	Not Exceeded	
Mine & Pit	2022-09-03 11:12	Yes	Caribou	3	Foraging	N/A	75		North	No		-96.691475	65.414668			No	Not Exceeded	
Mine & Pit	2022-09-03 11:12	Yes	Caribou	3	Foraging	Not Recorded	2503		South	No		-96.733436	65.395284			No	Not Exceeded	
Mine & Pit	2022-09-10 13:00	Yes	Caribou	4	Foraging	N/A	10		East,West	No	Between att. pond and maintenance	-96.673157	65.406198			No	Not Exceeded	
Mine & Pit	2022-09-10 13:00	Yes	Arctic fox	1	Foraging	N/A	25		West	No	Between att. pond and maintenance	-96.673157	65.406198			No	Not Exceeded	
Mine & Pit	2022-09-10 13:00	Yes	Caribou	5	Foraging	N/A	20		East	No	Seen on the 2022-09-10	-96.688746	65.416918			No	Not Exceeded	
Mine & Pit	2022-09-10 13:00	Yes	Peregrine falcon	1	Flying	E	0		South	Yes	Seen on the 2022-09-10	-96.688746	65.416918			No	Not Exceeded	
Mine & Pit	2022-09-10 13:00	Yes	Caribou	4	Foraging	N/A	10		West	No	Seen on the 2022-09-10	-96.727918	65.409337			No	Not Exceeded	
Blast	2022-09-10 17:00	Wildlife observed	Caribou	2	Foraging		NA		West			-96.666599	65.401489				Not Exceeded	
Blast	2022-09-12 17:10	None					NA					NA	NA				Not Exceeded	
Blast	2022-09-14 17:30	None					NA				IVR & WT PIT PHASE 3	NA	NA				Not Exceeded	
Mine & Pit	2022-09-17 9:45	Yes	Caribou	7	Feeding	N/A	100		East	No		-96.697302	65.403718			No	Not Exceeded	
Mine & Pit	2022-09-17 9:45	Yes	Caribou	3	Foraging	N/A	50		East	No		-96.68938	65.402256			No	Not Exceeded	
Blast	2022-09-17 16:51	None					NA					NA	NA				Not Exceeded	
Blast	2022-09-18 17:30	None					NA				IVR 2 & WT PIT PHASE 3	NA	NA				Not Exceeded	
Blast	2022-09-19 17:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-09-21 17:02	Wildlife observed	Caribou	1	Foraging		NA		North			-96.666494	65.401855				Not Exceeded	
Blast	2022-09-21 17:02	Wildlife observed	Caribou	1	Foraging		NA		South			-96.666494	65.401855				Not Exceeded	
Blast																		

Table A-4: Wildlife Observations at Whale Tail Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2022-09-23 13:28	Yes	Arctic fox	1	Milling	Not Recorded	NA		South		In between the main truck shop and Amq warehouse. The fox appears to have an injured front left paw, mostly moves around on 3 legs	-96.67311	65.400877			No	Not Exceeded	
Incidental	2022-09-23 15:15	Yes	Arctic fox	1	Trotting/running	Not Recorded	NA		South		Healthy winter fur, looks well fed.	-96.697302	65.403718			No	Not Exceeded	
Blast	2022-09-23 17:03	Wildlife observed	Caribou	4	Foraging		NA		East			-96.666565	65.401428				Not Exceeded	
Blast	2022-09-23 17:03	Wildlife observed	Muskox	1	Foraging		NA		South, West			-96.666565	65.401428				Not Exceeded	
Blast	2022-09-24 17:08	Wildlife observed	Caribou	4	Alert		NA		North			-96.666547	65.401428				Not Exceeded	
Blast	2022-09-24 17:08	Wildlife observed	Caribou	2	Trotting/running		NA		South			-96.666547	65.401428				Not Exceeded	
Mine & Pit	2022-09-25 11:00	Yes	Caribou	15	Foraging	N/A	200		West	No		-96.733436	65.395284			No	Not Exceeded	
Mine & Pit	2022-09-25 11:00	Yes	Caribou	1	Foraging	N/A	300		South	No		-96.705273	65.40389			No	Not Exceeded	
Blast	2022-09-26 16:41	Wildlife observed	Caribou	6	Foraging		NA		North			-96.666523	65.401672				Not Exceeded	
Blast	2022-09-26 16:41	Wildlife observed	Caribou	4	Lying Down		NA		South			-96.666523	65.401672				Not Exceeded	
Blast	2022-09-28 16:52	Wildlife observed	Caribou	6	Foraging		NA		South			-96.666168	65.402222				Not Exceeded	
Blast	2022-09-29 17:20	Wildlife observed	Caribou	7	Foraging		NA		South			-96.714792	65.412109				Not Exceeded	
Blast	2022-09-30 17:14	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-10-01 11:22	Yes	Ptarmigan	2	Feeding	Not Recorded	7		North	No		-96.727918	65.409337			No	Not Exceeded	
Blast	2022-10-02 17:03	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-04 17:00	Wildlife observed	Caribou	5	Feeding		NA		North			-96.666586	65.401489				Not Exceeded	
Blast	2022-10-05 17:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-06 17:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-06 17:01	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-10-08 14:15	No					NA					NA	NA					
Blast	2022-10-08 17:00	None					NA				IVR2 and WT Phase 3	NA	NA				Not Exceeded	
Blast	2022-10-12 17:05	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-13 17:00	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-15 18:15	None					NA				Both IVR & WT P3	NA	NA				Not Exceeded	
Mine & Pit	2022-10-16 14:30	No					NA					NA	NA					
Blast	2022-10-16 18:15	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-17 16:30	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-18 16:17	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-19 16:10	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-20 16:18	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-21 16:50	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-10-22 10:45	No					NA					NA	NA					
Blast	2022-10-22 17:27	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-23 17:15	None					NA				WT and IVR	NA	NA				Not Exceeded	
Blast	2022-10-24 16:46	None					NA				Mass blast and sump	NA	NA				Not Exceeded	
Blast	2022-10-26 16:18	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-27 17:00	None					NA				Phase 1	NA	NA				Not Exceeded	
Blast	2022-10-28 16:30	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-10-29 12:52	No					NA					NA	NA					
Blast	2022-10-30 16:17	None					NA					NA	NA				Not Exceeded	
Blast	2022-10-31 16:27	Wildlife observed	Arctic fox	1	Trotting/running		NA		West			-96.666998	65.401611				Not Exceeded	
Blast	2022-11-01 16:39	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-02 16:38	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-03 16:45	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-04 16:46	None					NA				Blast also in phase 3	NA	NA				Not Exceeded	
Mine & Pit	2022-11-05 13:06	Yes	Arctic fox	1	Trotting/running	N	10			No		-96.679148	65.406237			No	Not Exceeded	
Mine & Pit	2022-11-05 13:06	Yes	Arctic fox	1	Trotting/running	E	0			Yes		-96.727918	65.409337			No	Not Exceeded	
Mine & Pit	2022-11-05 13:06	Yes	Caribou	1	Foraging	N/A	50		East	No		-96.733436	65.395284			No	Not Exceeded	
Blast	2022-11-05 16:32	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-07 16:15	None					NA					NA	NA				Not Exceeded	
Incidental	2022-11-08 11:25	Yes	Arctic hare	1	Dead	N/A	NA				On Road 7 near entrance to IVR 2.	-96.708242	65.407475	Successful deterrence	Project related	No	Not Exceeded	
Blast	2022-11-08 16:10	None					NA				IVR 2 & Phase 3	NA	NA				Not Exceeded	
Blast	2022-11-09 16:38	Wildlife observed	Caribou	1	Foraging		NA					-96.736511	65.397863				Not Exceeded	
Mine & Pit	2022-11-10 15:05	Yes	Caribou	1	Foraging	N/A	50		North, East	No	Close to the Mammoth discharge.	-96.733436	65.395284			No	Not Exceeded	
Blast	2022-11-10 15:55	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-11 15:50	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-12 15:45	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-13 15:40	None					NA					NA	NA				Not Exceeded	
Incidental	2022-11-14 10:35	Yes	Caribou	1	Foraging	N/A	NA		North, West		Close to the dyno plant.	-96.733436	65.395284			No	Not Exceeded	
Blast	2022-11-14 15:45	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-15 15:35	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-16 15:35	None					NA				In WT phase 3 and IVR 2	NA	NA				Not Exceeded	
Blast	2022-11-17 16:43	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-18 15:25	None					NA				Blast in WT phase 3 and IVR2	NA	NA				Not Exceeded	
Blast	2022-11-19 14:55	None					NA				Ramp shot	NA	NA				Not Exceeded	
Mine & Pit	2022-11-19 15:30	Yes	Arctic fox	1	Trotting/running	N	0		North	No	Near the warehouse front entrance. Very healthy looking fox, thick coat.	-96.697302	65.403718			No	Not Exceeded	
Blast	2022-11-20 3:30	None					NA				Very bad visibility - high winds	NA	NA				Not Exceeded	
Incidental	2022-11-22 11:55	Yes	Wolverine	1	Walking	E	NA		East		Behind wing 26.	-96.697302	65.403718	Successful deterrence		No	Not Exceeded	
Blast	2022-11-23 14:55	None					NA				Preshear blast	NA	NA				Not Exceeded	
Blast	2022-11-24 15:23	None					NA				Mass blast	NA	NA				Not Exceeded	
Mine & Pit	2022-11-25 9:49	Yes	Arctic fox	1	Foraging	N/A	0		West	No	In front of the shop.	-96.679148	65.406237			No	Not Exceeded	
Mine & Pit	2022-11-25 9:49	Yes	Arctic fox	1	Trotting/running	S	25		East	No	Close to the intake.	-96.688746	65.416918			No	Not Exceeded	
Blast	2022-11-25 14:47	None					NA				Mass blast	NA	NA				Not Exceeded	
Blast	2022-11-26 14:30	None					NA				Mass blast	NA	NA				Not Exceeded	
Mine & Pit	2022-11-26 15:47	Yes	Arctic fox	2	Alert	Not Recorded	10		East	No	In/around the red general waste bin.	-96.679148	65.406237			No	Not Exceeded	
Mine & Pit	2022-11-26 15:47	Yes	Arctic fox	1	Walking	W	0		South	No		-96.708242	65.407475			No	Not Exceeded	
Blast	2022-11-27 14:38	None					NA				Mass blast	NA	NA				Not Exceeded	
Blast	2022-11-28 14:45	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-28 15:17	None					NA					NA	NA				Not Exceeded	
Blast	2022-11-29 14:25	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-11-30 10:54	Yes	Arctic fox	1	Walking	S	0		North	Yes	Orbit Garant area.	-96.672434	65.399507			No	Not Exceeded	

Table A-4: Wildlife Observations at Whale Tail Mine in 2022

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	Observation Comments	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Blast	2022-11-30 14:35	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-12-01 10:15	Yes	Arctic fox	1	Walking	S	0		East	Yes	West of UG maintenance shop at the 4 stop road intersection.	-96.679148	65.406237			No	Not Exceeded	
Mine & Pit	2022-12-01 10:15	Yes	Arctic fox	2	Trotting/running	SW	0		West	Yes	Transit pad.	-96.705273	65.40389			No	Not Exceeded	
Blast	2022-12-01 15:15	None					NA					NA	NA				Not Exceeded	
Blast	2022-12-02 14:42	None					NA				Blast at phase 1 and phase 3	NA	NA				Not Exceeded	
Mine & Pit	2022-12-02 14:46	No					NA					NA	NA					
Blast	2022-12-03 14:52	None					NA					NA	NA				Not Exceeded	
Blast	2022-12-06 14:53	None					NA					NA	NA				Not Exceeded	
Blast	2022-12-07 14:40	None					NA					NA	NA				Not Exceeded	
Blast	2022-12-08 14:40	None					NA				Also IVR on road 3	NA	NA				Not Exceeded	
Mine & Pit	2022-12-08 23:00	No					NA					NA	NA					
Blast	2022-12-09 14:40	None					NA					NA	NA				Not Exceeded	
Blast	2022-12-10 14:30	None					NA					NA	NA				Not Exceeded	
Blast	2022-12-11 18:15	None					NA				WT phase 1 and 3, IVR,	NA	NA				Not Exceeded	
Incidental	2022-12-13 8:30	Yes	Arctic fox	1	Dead	N/A	NA		East		Near the intersection of WT phase 3 ramp and WT ring road. .	-96.702296	65.403912		Project related	No	Not Exceeded	
Blast	2022-12-14 14:30	None					NA					NA	NA				Not Exceeded	
Blast	2022-12-16 16:05	None					NA				Mass blast	NA	NA				Not Exceeded	
Mine & Pit	2022-12-17 11:20	No					NA					NA	NA					
Blast	2022-12-18 14:07	None					NA				Mass blast	NA	NA				Not Exceeded	
Blast	2022-12-19 14:23	None					NA				Mass blast	NA	NA				Not Exceeded	
Blast	2022-12-20 16:12	None					NA					NA	NA				Not Exceeded	
Blast	2022-12-21 13:30	None					NA				Mass blast	NA	NA				Not Exceeded	
Blast	2022-12-22 14:11	None					NA				Mass blast	NA	NA				Not Exceeded	
Incidental	2022-12-23 11:01	Yes	Arctic fox	1	Trotting/running	S	NA		South		Intersection of rd 22 and WT ring rd.	-96.733436	65.395284			No	Not Exceeded	
Incidental	2022-12-23 11:01	Yes	Arctic fox	1	Trotting/running	W	NA		West		Pad K.	-96.705273	65.40389			No	Not Exceeded	
Blast	2022-12-23 15:05	None					NA				Ramp shot	NA	NA				Not Exceeded	
Mine & Pit	2022-12-24 13:25	Yes	Caribou	8	Foraging	N	250		East	No	North of IVR WRSF.	-96.669214	65.411909			No	Not Exceeded	
Mine & Pit	2022-12-24 13:25	Yes	Arctic fox	1	Alert	N	20		West	No	Pit washroom parking.	-96.705273	65.40389			No	Not Exceeded	
Blast	2022-12-24 14:17	None					NA					NA	NA				Not Exceeded	
Blast	2022-12-27 14:46	None					NA					NA	NA				Not Exceeded	
Incidental	2022-12-28 9:34	Yes	Arctic fox	2	Trotting/running	W	NA		South		Near the Environmental offices.	-96.697302	65.403718			No	Not Exceeded	
Mine & Pit	2022-12-29 13:45	Yes	Arctic fox	1	Foraging	N/A	0		East	No	Between the maintenance shop and warehouse.	-96.67311	65.400877			No	Not Exceeded	
Blast	2022-12-29 13:45	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-12-30 13:19	Yes	Arctic fox	1	Running	N	0		North	Yes	HASMAT.	-96.697302	65.403718			No	Not Exceeded	
Mine & Pit	2022-12-30 13:19	Yes	Arctic fox	2	Running	E	0		West	Yes	Near UG office.	-96.697302	65.403718			No	Not Exceeded	
Blast	2022-12-30 13:20	None					NA					NA	NA				Not Exceeded	
Mine & Pit	2022-12-31 13:20	No					NA					NA	NA					
Blast	2022-12-31 14:46	None					NA					NA	NA				Not Exceeded	

APPENDIX B

Road Restrictions

Table B-1: Summary of road restrictions (Closed - 24 hours, Closed – less than 24 hours, Speed Restrictions, and Traffic Restrictions) along the All-Weather Access Road, 2022

Date	Closure Status	Closure Hours	Cause for Restriction	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Convoy	Reason For Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2022-01-01	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-01-02	Closed (24 hour)	24	Caribou	Caribou	164	750	Survey	N/A	1	N	N	N/A
2022-01-03	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-01-04	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-01-05	Closed (< 24 hour)	12	Weather	Caribou	25	500	Survey	N/A	1	Y	N	Good weather condition
2022-01-06	Open	0	N/A	Caribou	9	Unknown	Survey	N/A	1	Y	N	N/A
2022-01-07	Speed Restriction	0	Caribou	Caribou	33	900	Survey	N/A	1	Y	N	N/A
2022-01-08	Speed Restriction	0	Caribou/Muskox	Muskox/Caribou	15 / 48	400 / 2000	Survey	N/A	1	N	N	Caribou more then 1.5km from Road
2022-01-09	Speed Restriction	0	Caribou	Caribou	10	1000	Survey	N/A	1	N	N	Groups of Caribou under GST
2022-01-10	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-01-11	Speed Restriction	0	Muskox	Muskox	24	30	Survey	N/A	1	Y	N	N/A
2022-01-12	Open	0	N/A	Caribou	16	100	Incidental	N/A	1	N	N	N/A
2022-01-13	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-01-14	Speed Restriction	0	Muskox	Muskox	15	710	Survey	N/A	1	Y	N	N/A
2022-01-15	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-01-16	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-01-17	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-01-18	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-01-19	Closed (< 24 hour)	11	Caribou	Caribou	64	350	Incidental	N/A	1	Y	N	Groups of caribou under GST
2022-01-20	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-01-21	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-01-22	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-01-23	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-01-24	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-01-25	Closed (< 24 hour)	5.5	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	Good weather condition
2022-01-26	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-01-27	Speed Restriction	0	Caribou	Caribou	15	0	Survey	N/A	1	Y	N	N/A
2022-01-28	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-01-29	Speed Restriction	0	Caribou	Caribou	10	25	Incidental	N/A	0	N	N	N/A
2022-01-30	Speed Restriction	0	Caribou	Caribou	27	75	Survey	N/A	1	N	N	N/A
2022-01-31	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-02-01	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-02-02	Closed (24 hour)	24	Weather	N/A	10	20	HTO observation	N/A	0	N	N	N/A
2022-02-03	Speed Restriction	0	Caribou	Caribou	80	50	Survey	N/A	0	N	N	Good weather condition
2022-02-04	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-02-05	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-02-06	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-02-07	Speed Restriction	0	Caribou	Caribou	60	N/A	HTO observation	N/A	0	N	N	N/A
2022-02-08	Closed (< 24 hour)	12	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	Good weather condition
2022-02-09	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-02-10	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-02-11	Speed Restriction	0	Caribou	Caribou	100	0	Survey	N/A	1	N	N	N/A
2022-02-12	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-02-13	Speed Restriction	0	Caribou	Caribou	42	50	Survey	N/A	1	N	N	N/A
2022-02-14	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-02-15	Speed Restriction	0	Caribou	Caribou	10	0	Survey	N/A	1	Y	Y	N/A
2022-02-16	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-02-17	Open	0	N/A	Caribou	17	300	Survey	N/A	1	Y	N	N/A
2022-02-18	Open	0	N/A	Caribou	25	140	Survey	N/A	1	Y	N	N/A
2022-02-19	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-02-20	Closed (< 24 hour)	1	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-02-21	Closed (< 24 hour)	3	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	Good weather condition
2022-02-22	Open	0	N/A	Caribou	15	150	Survey	N/A	1	Y	N	N/A
2022-02-23	Open	0	N/A	Caribou	1	100	Incidental	N/A	0	Y	N	N/A
2022-02-24	Open	0	N/A	Caribou	9	100	HTO observation	N/A	0	Y	N	N/A
2022-02-25	Speed Restriction	0	Caribou	Caribou	47	100	HTO observation / Survey	N/A	1	Y	N	N/A
2022-02-26	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-02-27	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-02-28	Open	0	N/A	Caribou	9	300	HTO observation	N/A	0	Y	N	N/A
2022-03-01	Open	0	N/A	Caribou	6	75	Survey	N/A	1	Y	N	N/A
2022-03-02	Open	0	N/A	Caribou	9	150	HTO observation	N/A	0	Y	N	N/A
2022-03-03	Closed (< 24 hour)	15	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	Good weather condition
2022-03-04	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	0	N/A
2022-03-05	Speed Restriction	0	Caribou	Caribou	33	100	Survey	N/A	1	N	N	N/A
2022-03-06	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-03-07	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-03-08	Closed (< 24 hour)	17.45	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-03-09	Closed (< 24 hour)	10	Weather	Caribou	4	20	Survey	N/A	1	Y	N	Good weather condition
2022-03-10	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-03-11	Open	0	N/A	N	N/A	N/A	Survey	N/A	1	Y	N	N/A
2022-03-12	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-03-13	Closed (< 24 hour)	13	Maintenance	N/A	N/A	N/A	N/A	N/A	0	N	N	Bridge back in service
2022-03-14	Closed (< 24 hour)	13	Maintenance	N	N/A	N/A	Survey	N/A	1	Y	N	Bridge back in service
2022-03-15	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-03-16	Closed (< 24 hour)	9	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	Good weather condition
2022-03-17	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A

Table B-1: Summary of road restrictions (Closed - 24 hours, Closed – less than 24 hours, Speed Restrictions, and Traffic Restrictions) along the All-Weather Access Road, 2022

Date	Closure Status	Closure Hours	Cause for Restriction	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Convoy	Reason For Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2022-03-18	Open	0	N/A	Caribou	2	148	Survey	N/A	1	Y	N	N/A
2022-03-19	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-03-20	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-03-21	Closed (< 24 hour)	2.5	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-03-22	Closed (< 24 hour)	12	Weather	N/A	N/A	N/A	N/A	N/A	0	N/A	N	N/A
2022-03-23	Closed (< 24 hour)	12	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-03-24	Closed (< 24 hour)	7	Weather	N	0	N/A	Survey	N/A	1	Y	N	Good weather condition
2022-03-25	Closed (< 24 hour)	12	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-03-26	Closed (< 24 hour)	12	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-03-27	Closed (< 24 hour)	5.5	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	Good weather condition
2022-03-28	Open	0	N/A	Caribou	5	582	Survey	N/A	1	Y	N	N/A
2022-03-29	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-03-30	Open	0	N/A	Caribou	9	857	Survey	N/A	1	Y	N	N/A
2022-03-31	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-04-01	Open	0	N/A	Caribou	9	999	Survey	N/A	0	Y	N	N/A
2022-04-02	Open	0	N/A	Caribou	8	100	Survey	N/A	0	Y	N	N/A
2022-04-03	Closed (< 24 hour)	9	Caribou	Caribou	250	500	Survey	N/A	1	Y	N	N/A
2022-04-04	Closed (24 hour)	24	Caribou	Caribou	347	10	HTO observation / Survey	N/A	1	Y	N	N/A
2022-04-05	Closed (< 24 hour)	18	Caribou	N	0	N/A	Survey	N/A	1	Y	N	No caribou observed
2022-04-06	Open	0	N/A	Caribou	17	450	Survey	N/A	1	Y	N	N/A
2022-04-07	Open	0	N/A	Caribou	16	700	Survey	N/A	1	Y	N	N/A
2022-04-08	Speed Restriction	0	Muskox	Muskox	9	100	Survey	N/A	1	N	N	
2022-04-09	Closed (< 24 hour)	7.5	Caribou	Caribou	70	500	Incidental	N/A	1	N	N	
2022-04-10	Closed (24 hour)	24	Weather	N	0	N/A	Survey	N/A	1	N	N	
2022-04-11	Closed (< 24 hour)	9.5	Weather	Muskox	10	700	Survey	N/A	1	N	N	No caribou observed on the 10th
2022-04-12	Open	0	N/A	N	0	N/A	Survey	N/A	1	N	N	
2022-04-13	Open	0	N/A	N	0	N/A	Survey	N/A	1	N	N	
2022-04-14	Closed (< 24 hour)	8.75	Caribou	Caribou	63	150	Survey	N/A	1	Y	N	
2022-04-15	Closed (< 24 hour)	14.5	Caribou	Caribou	69	22	Survey	N/A	1	N	Y	No more caribou on the way back
2022-04-16	Open	0	N/A	N	0	N/A	Survey	N/A	1	N	N	
2022-04-17	Open	0	N/A	Muskox	11	50	Incidental	N/A	1	N	N	
2022-04-18	Closed (< 24 hour)	9.75	Caribou	Caribou	134	200	Incidental	N/A	1	N	N	No Caribou observed in the morning
2022-04-19	Closed (< 24 hour)	21.25	Caribou	Caribou	123	400	Incidental	N/A	1	Y	Y	No Caribou observed in the morning
2022-04-20	Closed (< 24 hour)	22	Caribou	Caribou	82	500	HTO observation / Survey	N/A	1	Y	Y	No Caribou observed in the morning
2022-04-21	Closed (< 24 hour)	10.5	Caribou	Caribou	16	0	Survey	N/A	1	Y	N	Groups below GST
2022-04-22	Speed Restriction	0	Caribou	Caribou	12	3	Survey	N/A	1	N	N	
2022-04-23	Speed Restriction	0	Caribou	Caribou	12	800	Survey	N/A	1	N	N	N/A
2022-04-24	Open	0	N/A	Muskox	11	275	Survey	N/A	1	N	N	
2022-04-25	Speed Restriction	0	Muskox	Muskox	38	1000	Incidental	N/A	1	N	N	
2022-04-26	Speed Restriction	0	Muskox	Muskox	30	400	Incidental	N/A	1	N	N	
2022-04-27	Speed Restriction	0	Muskox	Muskox	20	1600	Survey	N/A	1	Y	N	
2022-04-28	Closed (< 24 hour)	13.75	Caribou	Caribou	98	500	Survey	N/A	1	Y	N	
2022-04-29	Closed (< 24 hour)	16.75	Caribou	Caribou	38	350	HTO observation / Survey	N/A	1	Y	N	
2022-04-30	Speed Restriction	0	Caribou	Caribou	20	N/A	Survey	N/A	1	Y	N	
2022-05-01	Open	0	N/A	Caribou	7	200	Survey	N/A	1	Y	N	
2022-05-02	Closed (< 24 hour)	4.5	Caribou	Caribou	50	500	Survey	N/A	1	Y	N	Groups walk away from the road, not seen on the PM assessment
2022-05-03	Open	0	N/A	Muskox	24	200	HTO Observation	N/A	1	Y	N	N/A
2022-05-04	Speed Restriction	0	Caribou	Caribou	21	0	Incidental	N/A	1	N	N	
2022-05-05	Speed Restriction	0	Caribou	Caribou	18	500	Incidental	N/A	1	Y	N	
2022-05-06	Closed (< 24 hour)	6.5	Weather	Caribou	27	350	Survey	N/A	1	N	N	
2022-05-07	Closed (< 24 hour)	6.75	Weather	Caribou	31	200	Survey	N/A	1	N	N	
2022-05-08	Closed (24 hour)	24	Weather	N	0	N/A	N/A	N/A	N/A	N	N	N/A
2022-05-09	Closed (24 hour)	24	Weather	N	0	N/A	N/A	N/A	N/A	Y	N	N/A
2022-05-10	Closed (24 hour)	24	Weather	Caribou	3	50	HTO observation / Survey	N/A	N/A	Y	N	N/A
2022-05-11	Open	0	N/A	Caribou	20	450	Survey	N/A	1	Y	N	
2022-05-12	Speed Restriction	0	Caribou	Caribou	15	25	HTO observation / Survey	N/A	1	Y	N	
2022-05-13	Speed Restriction	0	Caribou	Caribou	17	300	HTO observation / Survey	N/A	1	Y	N	
2022-05-14	Open	0	N/A	Caribou	9	500	Survey	N/A	1	N	N	
2022-05-15	Speed Restriction	0	Caribou	Caribou	5	80	Incidental	N/A	1	N	N	
2022-05-16	Speed Restriction	0	Caribou	Caribou	27	175	Survey	N/A	1	Y	N	
2022-05-17	Speed Restriction	0	Caribou	Caribou	7	200	HTO observation / Survey	N/A	1	Y	N	
2022-05-18	Open	0	N/A	Caribou	9	850	Incidental	N/A	1	Y	N	
2022-05-19	Speed Restriction	0	Caribou	Caribou	22	250	Survey	N/A	1	Y	N	
2022-05-20	Open	0	N/A	Caribou	4	100	HTO observation / Survey	N/A	1	Y	N	
2022-05-21	Open	0	N/A	Muskox	4	150	Incidental	N/A	1	N	N	
2022-05-22	Open	0	N/A	N	N/A	N/A	Survey	N/A	1	N	N	
2022-05-23	Open	0	N/A	Muskox	6	250	Survey	N/A	1	N	N	
2022-05-24	Open	0	N/A	Muskox	4	200	Incidental	N/A	1	N	N	
2022-05-25	Open	0	N/A	Muskox	2	75	Survey	N/A	1	N	N	
2022-05-26	Open	0	N/A	Caribou	18	100	HTO observation	N/A	1	N	N	
2022-05-27	Open	0	N/A	Caribou	40	400	HTO observation / Survey	N/A	1	N	N	
2022-05-28	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-05-29	Open	0	N/A	Caribou	12	200	Incidental	N/A	1	N	N	
2022-05-30	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	1	N	N	
2022-05-31	Open	0	N/A	Muskox	12	300	Survey	N/A	1	N	N	
2022-06-01	Open	0	N/A	Caribou	17	200	Survey	N/A	0	N	N	

Table B-1: Summary of road restrictions (Closed - 24 hours, Closed – less than 24 hours, Speed Restrictions, and Traffic Restrictions) along the All-Weather Access Road, 2022

Date	Closure Status	Closure Hours	Cause for Restriction	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Convoy	Reason For Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2022-06-02	Open	0	N/A	Muskox	57	200	HTO observation	N/A	0	N	N	
2022-06-03	Speed Restriction	0	Muskox	Muskox	60	350	Survey	N/A	1	N	N	
2022-06-04	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-06-05	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-06-06	Open	0	N/A	Caribou	5	200	HTO observation	N/A	0	Y	N	
2022-06-07	Open	0	N/A	Caribou	2	200	HTO observation / Survey	N/A	1	Y	N	
2022-06-08	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-06-09	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-06-10	Open	0	N/A	Y	10	60	Survey	N/A	1	Y	N	
2022-06-11	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-06-12	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-06-13	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-06-14	Speed Restriction	0	Muskox	Muskox	16	10	Survey	N/A	1	Y	N	
2022-06-15	Open	0	N/A	Caribou	5	0	Survey	N/A	1	Y	N	
2022-06-16	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-06-17	Speed Restriction	0	Muskox	Muskox	22	150	Survey	N/A	1	Y	N	
2022-06-18	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-06-19	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-06-20	Closed (24 hour)	24	Maintenance	Caribou	1	100	Incidental	N/A	0	N	N	
2022-06-21	Closed (< 24 hour)	18	Maintenance	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-06-22	Open	0	N/A	Caribou	4	500	HTO observation / Survey	N/A	1	Y	N	
2022-06-23	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-06-24	Open	0	N/A	Muskox	3	200	Survey	N/A	1	Y	N	
2022-06-25	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-06-26	Open	0	N/A	Muskox	2	150	Incidental	N/A	0	N	N	
2022-06-27	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-06-28	Open	0	N/A	Muskox	8	500	Survey	N/A	1	N	N	
2022-06-29	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-06-30	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-07-01	Speed Restriction	0	Muskox	Muskox	17	25	Incidental	N/A	1	N	N	
2022-07-02	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-07-03	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-07-04	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-07-05	Open	0	N/A	Muskox	2	30	Survey	N/A	1	Y	N	
2022-07-06	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-07-07	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-07-08	Open	0	N/A	Muskox	3	150	Survey	N/A	1	Y	N	
2022-07-09	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-07-10	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-07-11	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-07-12	Speed Restriction	0	Muskox	Muskox	25	0	Baker Lake Dispatch	N/A	1	Y	N	
2022-07-13	Speed Restriction	0	Muskox	Muskox	18	N/A	Baker Lake Dispatch	N/A	0	Y	N	
2022-07-14	Speed Restriction	0	Muskox	Muskox	18	100	Survey	N/A	1	Y	N	
2022-07-15	Speed Restriction	0	Muskox	Muskox	40	N/A	Incidental	N/A	0	Y	N	
2022-07-16	Speed Restriction	0	Muskox	Muskox	13	20	Survey	N/A	1	Y	N	
2022-07-17	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-07-18	Speed Restriction	0	Muskox	Muskox	15	15	Incidental	N/A	1	Y	N	
2022-07-19	Open	0	N/A	Muskox	12	20	Survey	N/A	1	Y	N	
2022-07-20	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-07-21	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-07-22	Speed Restriction	0	Caribou	Caribou	1	0	Survey	N/A	1	Y	N	
2022-07-23	Speed Restriction	0	Muskox	Muskox	7	300	Incidental	N/A	1	Y	N	
2022-07-24	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-07-25	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	
2022-07-26	Speed Restriction	0	Muskox	Muskox	15	300	Survey	N/A	1	Y	N	
2022-07-27	Open	0	N/A	Muskox	5	500	Survey	N/A	1	Y	N	
2022-07-28	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	
2022-07-29	Open	0	N/A	Muskox	33	700	HTO observation	N/A	1	Y	N	
2022-07-30	Closed (< 24 hour)	11.5	Caribou	Caribou	320	10	HTO observation / Survey	N/A	1	N	Y	
2022-07-31	Closed (24 hour)	24	Caribou	Caribou	200	Not recorded	Incidental	N/A	1	N	Y	
2022-08-01	Closed (< 24 hour)	17.5	Caribou	Caribou	96	500	HTO observation / Survey	N/A	1	Y	N	The biggest number of caribou observed (96) is below the fall GST of 110.
2022-08-02	Speed Restriction	0	Muskox	Muskox/Caribou	15 Muskox13 Caribou	170700	Survey	N/A	1	Y	N	
2022-08-03	Open	0	N/A	Caribou	5	300	Survey	N/A	1	Y	N	
2022-08-04	Open	0	N/A	Caribou	3	250	Survey	N/A	1	Y	N	
2022-08-05	Speed Restriction	0	Caribou	Caribou	68	100	HTO observation / Survey	N/A	1	Y	N	
2022-08-06	Speed Restriction	0	Caribou	Muskox/Caribou	1 Caribou31 muskox	01500	Survey	N/A	1	N	N	N/A
2022-08-07	Speed Restriction	0	Caribou	Caribou	22	1500	Survey	N/A	1	N	N	N/A
2022-08-08	Speed Restriction	0	Caribou	Caribou	1	80	Survey	N/A	1	Y	N	N/A
2022-08-09	Speed Restriction	0	Muskox	Muskox	1	100	Survey	N/A	1	Y	N	N/A
2022-08-10	Speed Restriction	0	Caribou	Caribou	2	30	Survey	N/A	1	Y	N	N/A
2022-08-11	Speed Restriction	0	Caribou	Caribou	83	600	HTO observation / Survey	N/A	1	Y	N	N/A
2022-08-12	Speed Restriction	0	Caribou	Caribou	60	100	HTO observation / Survey	N/A	1	Y	N	N/A
2022-08-13	Speed Restriction	0	Caribou	Caribou	13	300	Survey	N/A	1	N	N	N/A
2022-08-14	Speed Restriction	0	Caribou	Caribou	6	70	Incidental	N/A	1	N	N	N/A
2022-08-15	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-08-16	Open	0	N/A	Caribou	1	0	Incidental	N/A	1	Y	N	N/A

Table B-1: Summary of road restrictions (Closed - 24 hours, Closed – less than 24 hours, Speed Restrictions, and Traffic Restrictions) along the All-Weather Access Road, 2022

Date	Closure Status	Closure Hours	Cause for Restriction	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Convoy	Reason For Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2022-08-17	Speed Restriction	0	Caribou	Caribou	3	200	Survey	N/A	1	Y	N	N/A
2022-08-18	Open	0	N/A	Caribou	5	10	HTO observation	N/A	0	Y	N	N/A
2022-08-19	Open	0	N/A	Muskox	2	250	Survey	N/A	1	Y	N	N/A
2022-08-20	Speed Restriction	0	Muskox	Muskox	32	250	Survey	N/A	1	Y	N	N/A
2022-08-21	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-08-22	Speed Restriction	0	Muskox	Muskox	20	40	HTO observation / Survey	N/A	1	y	N	N/A
2022-08-23	Speed Restriction	0	Caribou	Caribou	1	120	Survey	N/A	1	N	N	N/A
2022-08-24	Speed Restriction	0	Caribou	Caribou	4	50	HTO Observation	N/A	0	Y	N	N/A
2022-08-25	Speed Restriction	0	Muskox	Muskox	29	100	Incidental	N/A	1	Y	N	N/A
2022-08-26	Speed Restriction	0	Muskox	Muskox	23	500	Survey	N/A	1	Y	N	N/A
2022-08-27	Open	0	N/A	Muskox	8	0	Survey	N/A	1	N	N	N/A
2022-08-28	Open	0	N/A	Caribou	5	300	Survey	N/A	1	N	N	N/A
2022-08-29	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-08-30	Speed Restriction	0	Caribou	Caribou	2	65	Incidental	N/A	1	Y	N	N/A
2022-08-31	Speed Restriction	0	Caribou	Caribou & Muskox	6 Caribou14 Muskox	550350	Survey / Incidental	N/A	1	Y	N	N/A
2022-09-01	Speed Restriction	0	Caribou/Muskox	Caribou & Muskox	4 Caribou8 Muskox	aribou 100mMuskox 500m	Survey / Incidental	N/A	1	Y	N	N/A
2022-09-02	Speed Restriction	0	Caribou	Caribou & Muskox	1 Caribou 17 Muskox	aribou 25m Muskox 200m	Survey	N/A	1	Y	N	N/A
2022-09-03	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-09-04	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-09-05	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-09-06	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	Y	Y	N	N/A
2022-09-07	Speed Restriction	0	Muskox	Muskox	15	120	Survey	N/A	1	y	N	N/A
2022-09-08	Speed Restriction	0	Muskox	Muskox	3	8	Incidental	N/A	1	y	N	N/A
2022-09-09	Open	0	N/A	Muskox	9	550	Survey	N/A	1	N	N	N/A
2022-09-10	Speed Restriction	0	Muskox	Muskox	13	100	Survey	N/A	1	N	N	N/A
2022-09-11	Speed Restriction	0	Muskox	Muskox	18	800	Survey	N/A	1	Y	N	N/A
2022-09-12	Speed Restriction	0	Caribou	Caribou	98	400	HTO observation	N/A	0	Y	N	N/A
2022-09-13	Speed Restriction	0	Caribou	Caribou	101	100	HTO observation	N/A	0	N	N	N/A
2022-09-14	Speed Restriction	0	Caribou	Caribou	45	50	HTO observation	N/A	0	Y	N	N/A
2022-09-15	Speed Restriction	0	Not Specified	N/A	N/A	N/A	N/A	N/A	0	N/A	N	N/A
2022-09-16	Speed Restriction	0	Muskox	Muskox	36	590	HTO observation / Survey	N/A	1	Y	N	N/A
2022-09-17	Open	0	N/A	Caribou	2	400	Survey	N/A	1	Y	N	N/A
2022-09-18	Open	0	N/A	Caribou	30	700	Survey	N/A	1	Y	N	N/A
2022-09-19	Speed Restriction	0	Caribou	Caribou	3	350	Survey	N/A	1	Y	N	N/A
2022-09-20	Open	0	N/A	Caribou	6	105	HTO observation	N/A	1	Y	N	N/A
2022-09-21	Speed Restriction	0	Caribou	Caribou	60	1200	HTO observation / Survey	N/A	1	Y	N	N/A
2022-09-22	Closed (< 24 hour)	0	Cyanide Convoy	Muskox	20	300	Survey	N/A	1	Y	N	N/A
2022-09-23	Closed (< 24 hour)	0	Cyanide Convoy	0	N/A	N/A	N/A	N/A	1	Y	N	N/A
2022-09-24	Open	0	N/A	0	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-09-25	Closed (< 24 hour)	0	Cyanide Convoy	Caribou	40	1100	Survey	N/A	1	N	N	N/A
2022-09-26	Closed (< 24 hour)	0	Cyanide Convoy	0	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-09-27	Open	0	N/A	Muskox	2	50	Survey	N/A	1	N	N	N/A
2022-09-28	Open	0	N/A	Caribou	67	300	HTO observation	N/A	1	N	N	N/A
2022-09-29	Speed Restriction	0	Caribou	Caribou	14	1000	Incidental	N/A	1	Y	N	N/A
2022-09-30	Open	0	N/A	Caribou	7	1500	Incidental	N/A	1	Y	N	N/A
2022-10-01	Closed (< 24 hour)	11.7	Weather	Caribou	30	3000	Survey	N/A	1	N	N	Better temperatruue
2022-10-02	Open	0	N/A	Caribou	5	600	Incidental	N/A	1	N	N	N/A
2022-10-03	Closed (< 24 hour)	11.7	Caribou	Caribou	128	150	HTO observation / Survey	N/A	1	N	N	
2022-10-04	Closed (24 hour)	24	Caribou	Caribou	224	1000	HTO observation / Survey	N/A	1	N	N	
2022-10-05	Closed (24 hour)	24	Caribou	Caribou	250	50	HTO observation / Incidental	N/A	1	N	N	N/A
2022-10-06	Closed (24 hour)	24	Caribou	Caribou	169	40	HTO observation / Survey	N/A	1	N	Y	N/A
2022-10-07	Closed (24 hour)	24	Caribou	Caribou	260	1200	Survey	N/A	1	N	N	N/A
2022-10-08	Closed (24 hour)	24	Caribou	Caribou	294	160	Survey	N/A	1	N	N	N/A
2022-10-09	Closed (< 24 hour)	9.13	Caribou	Caribou	96	100	Survey	N/A	1	N	N	N/A
2022-10-10	Speed Restriction	0	Caribou	Caribou	33	400	Survey	N/A	1	Y	N	N/A
2022-10-11	Speed Restriction	0	Caribou	Caribou	8	160	HTO Observation / Survey	N/A	1	Y	N	N/A
2022-10-12	Open	0	N/A	Caribou	18	250	Survey	N/A	1	Y	N	N/A
2022-10-13	Restricted Traffic	0	Weather	Caribou	30	250	Survey	N/A	0.5	Y	N	N/A
2022-10-14	Restricted Traffic	0	Weather	Caribou	0	N/A	N/A	N/A	1	Y	N	N/A
2022-10-15	Closed (< 24 hour)	12	Weather	N/A	0	N/A	N/A	N/A	0	N	N	Close all day
2022-10-16	Closed (< 24 hour)	18	Caribou	Caribou	200	2	Survey	N/A	1	Y	N	N/A
2022-10-17	Closed (< 24 hour)	9	Weather	Muskox	12	300	Survey	N/A	1	Y	N	Caribou below GST
2022-10-18	Speed Restriction	0	Caribou	Caribou	100	150	HTO observation / Survey	N/A	1	Y	N	N/A
2022-10-19	Speed Restriction	0	Caribou	Caribou	62	300	HTO Observation	N/A	1	Y	N	N/A
2022-10-20	Closed (< 24 hour)	15.63	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-10-21	Closed (< 24 hour)	7.75	Caribou	Caribou	199	350	Survey	N/A	1	Y	N	Blizzard condition over
2022-10-22	Closed (< 24 hour)	8.25	Caribou	Caribou	250	190	Survey	N/A	1	Y	Y	Caribou below GST
2022-10-23	Closed (24 hour)	24	Caribou	Caribou	310	0	HTO observation / Survey	N/A	2	Y	Y	N/A
2022-10-24	Closed (< 24 hour)	14.5	Caribou	Caribou	12	400	HTO observation / Incidental	N/A	2	Y	Y	Caribou below GST
2022-10-25	Closed (< 24 hour)	11	Caribou	Caribou	9000	50	HTO Observation	N/A	1	Y	N	N/A
2022-10-26	Closed (24 hour)	24	Caribou	Caribou	4000	5	HTO Observation	N/A	0	Y	N	N/A
2022-10-27	Closed (24 hour)	24	Caribou	Caribou	420	0	Survey	N/A	1	Y	N	N/A
2022-10-28	Closed (24 hour)	24	Caribou	Caribou	220	284	Survey	N/A	1	Y	N	N/A
2022-10-29	Closed (24 hour)	24	Caribou	Caribou	165	300	Survey	N/A	1	Y	Y	N/A
2022-10-30	Closed (< 24 hour)	7	Caribou	Caribou	155	400	Survey	N/A	1	Y	N	Caribou below GST
2022-10-31	Open	0	N/A	N/A	0	N/A	Survey	N/A	1	Y	N	N/A

Table B-1: Summary of road restrictions (Closed - 24 hours, Closed – less than 24 hours, Speed Restrictions, and Traffic Restrictions) along the All-Weather Access Road, 2022

Date	Closure Status	Closure Hours	Cause for Restriction	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Convoy	Reason For Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2022-11-01	Open	0	N/A	Caribou	50	300	HTO observation / Survey	N/A	1	Y	N	N/A
2022-11-02	Closed (< 24 hour)	14.5	Caribou	Caribou	338	0	HTO observation / Incidental	N/A	1	N	Y	N/A
2022-11-03	Closed (< 24 hour)	14	Caribou	Caribou	36	250	Survey	N/A	1	Y	Y	Under GST
2022-11-04	Speed Restriction	0	Muskox	Muskox	36	100	HTO observation / Survey	N/A	1	Y	N	
2022-11-05	Closed (< 24 hour)	7.5	Weather	Caribou	7	400	Survey	N/A	1	Y	N	N/A
2022-11-06	Closed (< 24 hour)	10.5	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-11-07	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-11-08	Closed (24 hour)	24	Caribou	Caribou	270	0	HTO observation / Survey	N/A	1	Y	Y	N/A
2022-11-09	Closed (< 24 hour)	15.75	Caribou	Caribou	103	300	HTO observation / Survey	N/A	1	Y	N	Caribou below GST
2022-11-10	Speed Restriction	0	Muskox	Muskox	66	200	HTO observation / Incidental	N/A	1	Y	Y	N/A
2022-11-11	Speed Restriction	0	Muskox	Muskox	43	500	Survey	N/A	1	Y	N	N/A
2022-11-12	Closed (< 24 hour)	12	Caribou	Caribou	350	800	Survey	N/A	1	Y	Y	N/A
2022-11-13	Closed (24 hour)	24	Caribou	Caribou	4000	0	Survey	N/A	1	Y	N	N/A
2022-11-14	Closed (24 hour)	24	Caribou	Caribou	500	100	HTO observation / Survey	N/A	1	Y	N	N/A
2022-11-15	Closed (24 hour)	24	Caribou	Caribou	300	100	Survey	N/A	1	Y	N	N/A
2022-11-16	Closed (24 hour)	24	Caribou	Caribou	3000	75	HTO observation / Survey	N/A	1	Y	N	N/A
2022-11-17	Closed (24 hour)	24	Caribou	Caribou	290	1000	HTO observation / Survey	N/A	1	Y	N	N/A
2022-11-18	Closed (24 hour)	24	Caribou	Caribou	3000	100	Survey	N/A	1	Y	N	N/A
2022-11-19	Closed (24 hour)	24	Caribou	Caribou	153	0	Survey	N/A	1	Y	N	N/A
2022-11-20	Closed (24 hour)	24	Caribou	Caribou	250	0	Survey	N/A	1	Y	N	N/A
2022-11-21	Closed (24 hour)	24	Caribou	Caribou	200	300	Survey	N/A	1	Y	N	N/A
2022-11-22	Closed (< 24 hour)	13.5	Caribou	Caribou	160	300	Incidental	N/A	1	Y	Y	No group above GST was observed.
2022-11-23	Open	0	N/A	Caribou	60	1000	Survey	N/A	1	Y	N	No group above GST was observed.
2022-11-24	Open	0	N/A	Caribou	12	300	Incidental	N/A	1	Y	N	No group above GST was observed.
2022-11-25	Open	0	N/A	Caribou	12	400	Incidental	N/A	1	Y	N	No group above GST was observed.
2022-11-26	Open	0	N/A	Caribou/Muskox	45	900	Incidental	N/A	1	Y	N	N/A
2022-11-27	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	1	Y	N	N/A
2022-11-28	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	1	Y	N	N/A
2022-11-29	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	1	N	N	N/A
2022-11-30	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	1	N	N	N/A
2022-12-01	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	1	N	N	N/A
2022-12-02	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	1	N	N	N/A
2022-12-03	Open	0	N/A	Muskox	6	1500	Survey	N/A	1	N	N	N/A
2022-12-04	Closed (< 24 hour)	2	Weather	Caribou	2	500	Survey	N/A	1	N	N	N/A
2022-12-05	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-12-06	Closed (< 24 hour)	10.5	Weather	N/A	N/A	N/A	N/A	N/A	1	N	N	Weather conditions improved
2022-12-07	Open	0	N/A	Muskox	45	2000	Incidental	N/A	1	N	N	N/A
2022-12-08	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-12-09	Closed (< 24 hour)	11	Weather	N/A	N/A	N/A	Survey	N/A	1	N	N	N/A
2022-12-10	Closed (< 24 hour)	11	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	Weather conditions improved
2022-12-11	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-12-12	Closed (< 24 hour)	3.83	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-12-13	Closed (< 24 hour)	7.83	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	Weather conditions improved
2022-12-14	Closed (< 24 hour)	3.5	Weather	Muskox	59	1250	N/A	N/A	1	Y	N	Weather conditions improved
2022-12-15	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-12-16	Closed (< 24 hour)	3.33	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-12-17	Closed (< 24 hour)	10	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-12-18	Open	0	N/A	Muskox	59	970	Survey	N/A	1	Y	N	N/A
2022-12-19	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-12-20	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	Y	N	N/A
2022-12-21	Open	0	N/A	Muskox	59	1100	Survey	N/A	1	Y	N	N/A
2022-12-22	Open	0	N/A	Muskox	10	20	Incidental	N/A	0	Y	N	N/A
2022-12-23	Open	0	N/A	Muskox	6	700	Survey	N/A	1	N	N	N/A
2022-12-24	Closed (< 24 hour)	16.66	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-12-25	Closed (24 hour)	24	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-12-26	Closed (< 24 hour)	14.5	Weather	N/A	N/A	N/A	N/A	N/A	0	N	N	Better weather conditions
2022-12-27	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-12-28	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-12-29	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	1	N	N	N/A
2022-12-30	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A
2022-12-31	Open	0	N/A	N/A	N/A	N/A	N/A	N/A	0	N	N	N/A

Table B-2: Summary of road restrictions (Closed - 24 hours, Closed – less than 24 hours, Speed Restrictions, and Traffic Restrictions) along the Whale Tail Haul Road, 2022.

Date	Closure Status	Closure Hours	Cause for Restriction	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Convoy	Reason For Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2022-01-01	Closed (< 24 hours)	9	Weather	N/A	N/A	N/A	N/A	0	0	N	N	Good weather
2022-01-02	Speed Restriction	0	Muskox	Muskox	12	99	Survey	0	1	Y	N	N/A
2022-01-03	Closed (24 hours)	24	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-04	Closed (< 24 hours)	13	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-05	Open	0	N/A	Caribou	8	300	Survey	1	1	Y	N	N/A
2022-01-06	Closed (< 24 hours)	4.5	Maintenance	N/A	N/A	N/A	N/A	0	0	N	N	Communication Restored
2022-01-07	Open	0	N/A	Caribou	5	250	Survey	1	1	Y	N	N/A
2022-01-08	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-09	Open	0	N/A	N	N/A	N/A	Survey	0	1	N	N	N/A
2022-01-10	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-11	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-12	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-13	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-14	Open	0	N/A	Muskox	4	125	Survey	0	1	N	N	N/A
2022-01-15	Closed (< 24 hours)	10	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-16	Closed (24 hours)	24	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-17	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	Weather conditions
2022-01-18	Closed (< 24 hours)	4	Weather	N	0	N/A	Survey	1	0	Y	N	N/A
2022-01-19	Closed (< 24 hours)	7	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-01-20	Closed (24 hours)	24	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-01-21	Closed (24 hours)	24	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-01-22	Closed (24 hours)	24	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-23	Closed (24 hours)	24	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-24	Closed (< 24 hours)	5.25	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	Weather conditions
2022-01-25	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-01-26	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-01-27	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-01-28	Open	0	N/A	Muskox/Caribou	45209	750 / 200	Survey / Incidental	1	1	Y	N	N/A
2022-01-29	Speed Restriction	0	Muskox	Muskox	11	75	Incidental	0	0	N	N	N/A
2022-01-30	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-01-31	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-01	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-02	Open	0	N/A	Caribou	6	150	Survey	1	1	Y	N	N/A
2022-02-03	Speed Restriction	0	Caribou	Caribou	17	25	Incidental	0	0	Y	N	N/A
2022-02-04	Open	0	N/A	N	0	N/A	N/A	0	1	Y	N	N/A
2022-02-05	Restricted Traffic	0	Covid	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-02-06	Open	0	N/A	Muskox	4	500	Survey	0	1	N	N	N/A
2022-02-07	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-08	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-09	Open	0	N/A	Caribou	13	200	Survey	1	1	Y	N	N/A
2022-02-10	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-11	Open	0	N/A	Caribou	10	100	Survey	0	1	Y	N	N/A
2022-02-12	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-02-13	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-02-14	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-02-15	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-02-16	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-02-17	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-02-18	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-02-19	Closed (< 24 hours)	1	Visible Smoke	N/A	N/A	N/A	N/A	1	1	N	N	N/A
2022-02-20	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-21	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-22	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-23	Speed Restriction	0	Muskox	Muskox	46	1000	Survey	1	0	Y	N	N/A
2022-02-24	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-25	Closed (< 24 hours)	1	Visible Smoke	Caribou	8	100	Survey	0	1	Y	N	N/A
2022-02-26	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-27	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-02-28	Speed Restriction	0	Muskox	Muskox	50	1000	Incidental	0	0	Y	N	N/A
2022-03-01	Open	0	N/A	Muskox	7	650	Survey	1	1	Y	N	N/A
2022-03-02	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-03	Closed (< 24 hours)	9	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-03-04	Closed (< 24 hours)	3.3	Weather	Caribou	5	75	Survey	0	1	Y	N	N/A
2022-03-05	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-06	Open	0	N/A	Caribou	15	30	Incidental	0	0	Y	N	N/A
2022-03-07	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-08	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-09	Open	0	N/A	Caribou	4	500	Survey	0	1	Y	N	N/A
2022-03-10	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-11	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-12	Open	0	N/A	N/A	N/A	N/A	Viewsheds	0	0	Y	N	N/A
2022-03-13	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-14	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-15	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-16	Closed (< 24 hours)	0	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-17	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-18	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-19	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A

Table B-2: Summary of road restrictions (Closed - 24 hours, Closed – less than 24 hours, Speed Restrictions, and Traffic Restrictions) along the Whale Tail Haul Road, 2022.

Date	Closure Status	Closure Hours	Cause for Restriction	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Convoy	Reason For Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2022-03-20	Open	0	N/A	Wolves	6	217	Survey	1	0	Y	N	N/A
2022-03-21	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-22	Closed (< 24 hours)	21	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-23	Closed (< 24 hours)	13	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-24	Closed (< 24 hours)	2	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-25	Closed (24 hours)	24	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-26	Closed (< 24 hours)	15	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-27	Closed (< 24 hours)	2	Muskox	Muskox	13	100	Incidental - Driver on the road	1	1	Y	N	N/A
2022-03-28	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-03-29	Open	0	N/A	N	0	N/A	Survey	0	1	Y	N	N/A
2022-03-30	Open	0	N/A	Caribou	9	500	Viewsheds	1	0	Y	N	N/A
2022-03-31	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-04-01	Open	0	N/A	Muskox	9	250	Survey	0	1	Y	N	N/A
2022-04-02	Closed (< 24 hours)	9	Caribou	Caribou	13	500	Survey	0	1	Y	N	N/A
2022-04-03	Closed (24 hours)	24	Caribou	Caribou	15	300	Survey	0	1	Y	N	N/A
2022-04-04	Closed (< 24 hours)	15.5	Caribou	Muskox	6	1000	Survey	0	1	Y	Y	Caribou groups below GST of 10
2022-04-05	Open	0	N/A	Caribou	10	200	Incidental	0	1	Y	N	N/A
2022-04-06	Closed (< 24 hours)	8	Caribou	Caribou	42	500	Incidental	1	1	Y	N	N/A
2022-04-07	Closed (< 24 hours)	11.5	Caribou	Caribou	25	700	Survey	0	1	Y	Y	Groups below GST
2022-04-08	Speed Restriction	0	Caribou	Caribou	22	400	Survey	0	1	N	N	Groups below GST
2022-04-09	Closed (< 24 hours)	9	Caribou	Caribou	110	1000	Incidental	1	1	N	N	N/A
2022-04-10	Closed (24 hours)	24	Caribou	Caribou	300	400	Incidental	0	1	N	Y	N/A
2022-04-11	Closed (24 hours)	24	Caribou	Caribou	80250	7002000	Survey	0	1	N	Y	N/A
2022-04-12	Closed (< 24 hours)	8.5	Caribou	Caribou	46	2000	Survey	1	1	N	N	N/A
2022-04-13	Speed Restriction	0	Caribou	Caribou	14	0	Incidental	0	1	N	N	N/A
2022-04-14	Closed (< 24 hours)	7.5	Caribou	Caribou	63	150	Survey	0	1	N	Y	
2022-04-15	Closed (< 24 hours)	14.5	Caribou	Caribou	200	2000	Incidental	0	1	N	Y	N/A
2022-04-16	Closed (24 hours)	24	Caribou	Caribou	200	557	Survey	0	1	N	Y	N/A
2022-04-17	Closed (< 24 hours)	10.25	Caribou	Caribou	59	300	Incidental	0	1	N	Y	Groups below GST
2022-04-18	Speed Restriction	0	Caribou	N/A	25	1200	Incidental	0	1	N	N	N/A
2022-04-19	Speed Restriction	0	Caribou	Caribou	22	1500	Incidental	0	1	Y	N	N/A
2022-04-20	Closed (< 24 hours)	7.5	Caribou	Caribou	40	400	Incidental	1	1	N	N	N/A
2022-04-21	Closed (24 hours)	24	Caribou	Caribou	141	500	HTO Observation / Survey	0	2	N	Y	N/A
2022-04-22	Closed (24 hours)	24	Caribou	Caribou	254	150	Survey	0	1	N	Y	N/A
2022-04-23	Closed (24 hours)	24	Caribou	Caribou	120	300	Survey	0	1	Y	Y	N/A
2022-04-24	Closed (< 24 hours)	12	Caribou	Caribou	12	10	Survey	0	1	N	Y	Groups below GST
2022-04-25	Speed Restriction	0	Caribou	Caribou	33	1092	Viewsheds	1	1	N	N	N/A
2022-04-26	Closed (< 24 hours)	13	Caribou	Caribou	120	0	Survey	0	1	N	N	N/A
2022-04-27	Closed (< 24 hours)	16.25	Caribou	Caribou	47	500	HTO Observation / Survey	0	1	Y	Y	Groups below GST
2022-04-28	Closed (< 24 hours)	0.75	Caribou	Caribou	39	0	Survey	0	1	Y	N	Groups below GST
2022-04-29	Closed (< 24 hours)	0.5	Caribou	Caribou	18	50	Survey	1	1	Y	N	Groups below GST
2022-04-30	Speed Restriction	0	Caribou	Caribou	22	1500	Survey	0	1	Y	N	N/A
2022-05-01	Speed Restriction	0	Muskox	Muskox	16	300	Survey	0	1	Y	N	N/A
2022-05-02	Speed Restriction	0	Caribou	Caribou	18	300	Incidental	0	1	Y	N	N/A
2022-05-03	Closed (< 24 hours)	12.5	Caribou	Caribou	39	460	Survey	0	1	Y	N	N/A
2022-05-04	Speed Restriction	0	Caribou	Caribou	19	500	Incidental	1	1	N	N	Groups below GST
2022-05-05	Speed Restriction	0	Muskox	Muskox	20	50	Survey	1	1	Y	N	N/A
2022-05-06	Speed Restriction	0	Caribou	Caribou	33	600	Survey	0	1	N	N	N/A
2022-05-07	Speed Restriction	0	Caribou	Caribou	20	50	Survey	0	1	N	N	N/A
2022-05-08	Closed (< 24 hours)	19.1	Caribou	Caribou	40	30	Survey	0	1	N	N	N/A
2022-05-09	Closed (< 24 hours)	5	Weather	Muskox	10	890	Survey	0	1	Y	N	Road was reopened due to an improvement in weather conditions
2022-05-10	Speed Restriction	0	Caribou	Caribou	30	N/A	Dispatch	0	1	Y	N	N/A
2022-05-11	Open	0	N/A	Caribou	24	25	Survey	0	1	Y	N	N/A
2022-05-12	Speed Restriction	0	Caribou	N/A	5	150	Survey	0	1	Y	N	N/A
2022-05-13	Speed Restriction	0	Caribou	Caribou	14	100	Survey	0	1	Y	N	N/A
2022-05-14	Speed Restriction	0	Caribou	Caribou	8	100	Survey	0	1	N	N	N/A
2022-05-15	Speed Restriction	0	Caribou	Caribou	18	250	Survey	0	1	N	N	N/A
2022-05-16	Speed Restriction	0	Caribou	Caribou	12	251	Survey	0	1	Y	N	N/A
2022-05-17	Open	0	N/A	N/A	0	N/A	Survey	1	1	Y	N	N/A
2022-05-18	Speed Restriction	0	Caribou	Caribou	22	100	Survey	0	1	Y	N	N/A
2022-05-19	Speed Restriction	0	Caribou	Caribou	13	275	Survey	0	1	Y	N	N/A
2022-05-20	Open	0	N/A	Caribou	9	75	Survey	0	1	Y	N	N/A
2022-05-21	Speed Restriction	0	Caribou	Caribou	10	100	Survey	0	1	N	N	N/A
2022-05-22	Speed Restriction	0	Caribou	Caribou	6	100	Viewsheds	1	1	N	N	N/A
2022-05-23	Speed Restriction	0	Caribou	Caribou	26	75	Incidental	0	1	N	N	N/A
2022-05-24	Speed Restriction	0	Caribou	Caribou	25	100	Survey	0	1	N	N	N/A
2022-05-25	Speed Restriction	0	Caribou	Caribou	10	40	Survey	0	1	N	N	N/A
2022-05-26	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-05-27	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-05-28	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-05-29	Speed Restriction	0	Caribou	Caribou	7	100	Survey	0	1	N	N	N/A
2022-05-30	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-05-31	Open	0	N/A	Caribou	2	50	Survey	0	1	N	N	N/A
2022-06-01	Open	0	N/A	Caribou	16	200	HTO Observation	0	0	N	N	N/A
2022-06-02	Open	0	N/A	N/A	N/A	N/A	N/A	1	1	N	N	N/A
2022-06-03	Open	0	N/A	Caribou	16	500	Incidental	0	1	N	N	N/A
2022-06-04	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-05	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A

Table B-2: Summary of road restrictions (Closed - 24 hours, Closed – less than 24 hours, Speed Restrictions, and Traffic Restrictions) along the Whale Tail Haul Road, 2022.

Date	Closure Status	Closure Hours	Cause for Restriction	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Convoy	Reason For Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2022-06-06	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-07	Open	0	N/A	CaribouMuskox	66	311500	Survey	0	1	N	N	N/A
2022-06-08	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-09	Open	0	N/A	Muskox	11	100	Survey	1	1	N	N	N/A
2022-06-10	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-11	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-12	Open	0	N/A	Caribou	7	800	Survey	0	0	N	N	N/A
2022-06-13	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-14	Open	0	N/A	Caribou	8	564	Incidental	0	0	N	N	N/A
2022-06-15	Speed Restriction	0	Caribou	Caribou	31	750	Driver on the road	0	0	N	N	Caribou went away
2022-06-16	Speed Restriction	0	Muskox	MuskoxCaribou	1622	500500	Survey	1	0	N	N	N/A
2022-06-17	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-18	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-19	Open	0	N/A	N	N/A	N/A	N/A	0	1	N	N	N/A
2022-06-20	Closed (< 24 hours)	7.5	Weather	Muskox	2	300	Survey	0	0	N	N	N/A
2022-06-21	Closed (< 24 hours)	20.5	Weather	N/A	N/A	N/A	N/A	0	0	N	N	Weather conditions
2022-06-22	Speed Restriction	0	Muskox	Muskox	1	1	Survey	1	1	N	N	N/A
2022-06-23	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-24	Open	0	N/A	Muskox	2	250	Survey	0	1	N	N	N/A
2022-06-25	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-26	Open	0	N/A	Muskox	5	400	Incidental	0	0	N	N	N/A
2022-06-27	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-06-28	Open	0	N/A	Muskox	1	400	Survey	0	1	N	N	N/A
2022-06-29	Open	0	N/A	Muskox	1	5	Incidental	0	1	N	N	N/A
2022-06-30	Open	0	N/A	Muskox	1	300	Survey	1	0	N	N	N/A
2022-07-01	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-02	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-03	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-04	Open	0	N/A	Muskox	1	350	Survey	0	1	N	N	N/A
2022-07-05	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-06	Open	0	N/A	Muskox	7	100	Survey	0	1	N	N	N/A
2022-07-07	Open	0	N/A	Caribou	1	0	Incidental	0	0	N	N	N/A
2022-07-08	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-09	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-10	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-11	Open	0	N/A	Muskox	2	200	Survey	0	1	N	N	N/A
2022-07-12	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-13	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-14	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-15	Open	0	N/A	Muskox	5	80	Survey	1	1	N	N	N/A
2022-07-16	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-17	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-18	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-19	Open	0	N/A	Muskox	8	0	Survey	Y	Y	Y	N	N/A
2022-07-20	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-21	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-22	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-23	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-24	Speed Restriction	0	Muskox	Muskox	23	150	Survey	0	1	N	N	N/A
2022-07-25	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-26	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-07-27	Speed Restriction	0	Muskox	Muskox	14	100	Incidental	0	0	Y	N	N/A
2022-07-28	Speed Restriction	0	Muskox	Muskox	19	800	Survey	1	1	Y	N	N/A
2022-07-29	Open	0	N/A	N/A	0	N/A	Survey	0	1	Y	N	N/A
2022-07-30	Open	0	N/A	Muskox	13	100	Survey	0	1	Y	N	N/A
2022-07-31	Open	0	N/A	Wolf	1	0	Survey	1	1	N	N	N/A
2022-08-01	Open	0	N/A	Muskox	13	1500	Incidental	0	1	Y	N	N/A
2022-08-02	Open	0	N/A	Caribou	15	600	Incidental	0	1	Y	N	N/A
2022-08-03	Speed Restriction	0	Caribou	Caribou	11	300	Survey	1	1	Y	N	N/A
2022-08-04	Speed Restriction	0	Caribou	Caribou	6	150	Survey	0	1	Y	N	N/A
2022-08-05	Speed Restriction	0	Muskox	Muskox	2	50	Survey	0	1	Y	N	N/A
2022-08-06	Speed Restriction	0	Caribou	Caribou	2	40	Survey	0	1	N	N	N/A
2022-08-07	Speed Restriction	0	Muskox	Muskox	9	50	Survey	0	1	N	N	N/A
2022-08-08	Speed Restriction	0	Muskox	Muskox	10	300	Survey	1	1	N	N	N/A
2022-08-09	Speed Restriction	0	Caribou	Caribou	25	100	Survey	0	1	Y	N	N/A
2022-08-10	Closed (< 24 hours)	6.75	Caribou	Caribou	133	0	Survey	0	1	Y	Y	N/A
2022-08-11	Speed Restriction	0	Caribou	Caribou	34	0	Incidental	1	1	Y	N	N/A
2022-08-12	Speed Restriction	0	Caribou	Caribou	25	1000	Survey	0	1	Y	N	N/A
2022-08-13	Speed Restriction	0	Caribou/Muskox	Caribou/Muskox	11	60	Survey	0	1	N	N	N/A
2022-08-14	Speed Restriction	0	Caribou	Caribou	8	0	Survey	0	1	N	N	N/A
2022-08-15	Speed Restriction	0	Caribou	Caribou	5	150	Survey	0	1	Y	N	N/A
2022-08-16	Speed Restriction	0	Caribou	Caribou	8	5	Survey	0	1	Y	N	N/A
2022-08-17	Speed Restriction	0	Caribou	Caribou	12	600	Survey	0	1	N	N	N/A
2022-08-18	Speed Restriction	0	Caribou	Caribou	7	15	Survey	0	1	N	N	N/A
2022-08-19	Speed Restriction	0	Caribou	Caribou	15	50	Survey	1	1	N	N	N/A
2022-08-20	Speed Restriction	0	Caribou	Caribou	13	10	Survey	0	1	N	N	N/A
2022-08-21	Speed Restriction	0	Caribou	Caribou	18	200	Survey	0	1	N	N	N/A
2022-08-22	Speed Restriction	0	Caribou	Caribou	7	75	Survey	0	1	N	N	N/A

Table B-2: Summary of road restrictions (Closed - 24 hours, Closed – less than 24 hours, Speed Restrictions, and Traffic Restrictions) along the Whale Tail Haul Road, 2022.

Date	Closure Status	Closure Hours	Cause for Restriction	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Convoy	Reason For Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2022-08-23	Speed Restriction	0	Caribou	Caribou	21	250	Survey	0	1	Y	N	N/A
2022-08-24	Speed Restriction	0	Caribou	Caribou	8	50	Survey	1	1	Y	N	N/A
2022-08-25	Open	0	N/A	Caribou	5	25	Survey	0	1	Y	N	N/A
2022-08-26	Open	0	N/A	Caribou	3	50	Survey	0	1	Y	N	N/A
2022-08-27	Open	0	N/A	Caribou	10	25	Survey	0	1	y	n	N/A
2022-08-28	Speed Restriction	0	Caribou	Caribou	3	0	Survey	0	1	N	N	N/A
2022-08-29	Open	0	N/A	Caribou	10	300	Survey	0	1	N	N	N/A
2022-08-30	Speed Restriction	0	Muskox	Muskox	10	15	Survey	0	1	N	N	N/A
2022-08-31	Speed Restriction	0	Caribou	Caribou	10	250	Survey	1	1	Y	N	N/A
2022-09-01	Open	0	N/A	Muskox	10	124	Survey	0	1	Y	N	N/A
2022-09-02	Open	0	N/A	N	N/A	N/A	N/A	0	0	Y	N	N/A
2022-09-03	Open	0	N/A	N	N/A	N/A	N/A	0	0	N	N	N/A
2022-09-04	Open	0	N/A	N	N/A	N/A	N/A	0	0	N	N	N/A
2022-09-05	Speed Restriction	0	Muskox	Muskox	14	120	Survey	1	1	N	N	N/A
2022-09-06	Open	0	N/A	N	N/A	N/A	N/A	0	0	Y	N	N/A
2022-09-07	Speed Restriction	0	Caribou	Caribou	11	100	Survey	1	1	Y	N	N/A
2022-09-08	Open	0	N/A	N	N/A	N/A	N/A	0	0	y	N	N/A
2022-09-09	Open	0	N/A	N	N/A	N/A	N/A	0	0	N	N	N/A
2022-09-10	Speed Restriction	0	Muskox	Muskox	20	10	Survey	0	1	Y	N	N/A
2022-09-11	Open	0	N/A	N	N/A	N/A	N/A	0	0	N	N	N/A
2022-09-12	Open	0	N/A	N	N/A	N/A	N/A	0	0	N	N	N/A
2022-09-13	Speed Restriction	0	Muskox	Muskox	40	50	Survey	0	1	Y	N	N/A
2022-09-14	Speed Restriction	0	Muskox	Muskox	30	100	Incidental	1	0	Y	N	N/A
2022-09-15	Open	0	N/A	N	N/A	N/A	N/A	0	0	N	N	N/A
2022-09-16	Open	0	N/A	N	N/A	N/A	N/A	0	0	0	0	N/A
2022-09-17	Speed Restriction	0	Muskox	Muskox	6	15	Survey	0	1	N	N	N/A
2022-09-18	Open	0	N/A	Muskox	8	375	Survey	0	0	0	0	N/A
2022-09-19	Open	0	N/A	N	N/A	N/A	N/A	0	0	0	0	N/A
2022-09-20	Open	0	N/A	N	N/A	N/A	N/A	0	0	0	0	N/A
2022-09-21	Speed Restriction	0	Caribou	Caribou	10	N/A	Driver on the road	0	1	Y	0	N/A
2022-09-22	Speed Restriction	0	Muskox	Muskox	27	100	Incidental	1	1	Y	0	N/A
2022-09-23	Open	0	N/A	N	N/A	N/A	N/A	0	0	Y	N	N/A
2022-09-24	Speed Restriction	0	Muskox	Muskox	21	220	Survey	1	1	N	N	N/A
2022-09-25	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-09-26	Speed Restriction	0	Muskox	Muskox	19	200	Survey	1	1	N	N	N/A
2022-09-27	Open	0	N/A	N	0	N/A	N/A	0	0	Y	N	N/A
2022-09-28	Open	0	N/A	Muskox	20	300	Survey	1	1	N	N	N/A
2022-09-29	Open	0	N/A	N	0	N/A	N/A	0	0	Y	N	N/A
2022-09-30	Speed Restriction	0	Muskox	Muskox	16	700	Survey	0	1	Y	N	N/A
2022-10-01	Closed (< 24 hours)	14.12	Weather	N/A	N/A	N/A	N/A	0	0	N/A	N	Better Temperature
2022-10-02	Closed (< 24 hours)	22.28	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-10-03	Closed (< 24 hours)	14.92	Weather	N/A	N/A	N/A	N/A	0	0	N	N	Better weather
2022-10-04	Speed Restriction	0	Muskox	Muskox	18	275	Survey	1	1	Y	N	N/A
2022-10-05	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-10-06	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-10-07	Closed (< 24 hours)	0.5	Caribou	Caribou	70	0	Survey	0	1	N	N	Far from the road
2022-10-08	Restricted Traffic	0	Weather	Caribou	10	100	Survey	1	1	N	N	
2022-10-09	Open	0	N/A	Muskox	12	120	Survey	0	1	N	N	
2022-10-10	Open	0	N/A	Muskox	12	100	Survey	0	1	N	N	
2022-10-11	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-10-12	Restricted Traffic	0	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	
2022-10-13	Closed (< 24 hours)	3.42	Caribou	Caribou	300	500	Incidental	0	1	Y	N	Caribous successfully crossed the road and were at a safe distance
2022-10-14	Closed (< 24 hours)	12	Weather	Caribou	17	200	HTO Observation / Survey	0	1	N	N	
2022-10-15	Closed (< 24 hours)	12	Weather	N/A	N/A	N/A	N/A	0	0	N	N	
2022-10-16	Open	0	N/A	Muskox	12	250	Incidental	0	1	N	N	N/A
2022-10-17	Open	0	N/A	N/A	N/A	N/A	N/A	0	1	Y	N	N/A
2022-10-18	Closed (< 24 hours)	8	Weather	N/A	N/A	N/A	Survey	0	1	Y	N	Weather conditions
2022-10-19	Speed Restriction	0	Muskox	Muskox	17	50	Incidental	0	0	N	N	N/A
2022-10-20	Closed (< 24 hours)	20.78	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-10-21	Closed (< 24 hours)	3.92	Weather	Muskox	17	250	Survey					N/A
2022-10-22	Open	0	N/A	Muskox	18	750	Survey	1	1	Y	N	N/A
2022-10-23	Speed Restriction	0	Muskox	Muskox	25	1000	Survey	0	1	Y	N	N/A
2022-10-24	Speed Restriction	0	Muskox	Muskox	13	550	Survey	0	1	Y	N	N/A
2022-10-25	Open	0	N/A	Muskox	23	1200	Survey	0	1	Y	N	N/A
2022-10-26	Open	0	N/A	Muskox	12	1000	Survey	0	1	Y	N	N/A
2022-10-27	Closed (< 24 hours)	2.17	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	Better conditions for light vehicles
2022-10-28	al Closure/Speed Restr	1.13	Weather/Muskox	Muskox	17	50	Survey	1	1	Y	N	Better conditions for light vehicles
2022-10-29	Closed (< 24 hours)	15.63	Weather	N/A	N/A	N/A	N/A	0	0	N	N	Better conditions for light vehicles
2022-10-30	Speed Restriction	0	Muskox	Muskox	17	400	Survey	1	1	N	N	N/A
2022-10-31	Restricted Traffic	0	Not Specified	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-11-01	al Closure/Speed Restr	2.82	Maintenance/Muskox	Muskox	25	5	Survey	0	1	Y	N	Equipment was moved
2022-11-02	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-11-03	Speed Restriction	0	Muskox	Muskox	17	600	Survey	0	1	Y	N	N/A
2022-11-04	Speed Restriction	0	Muskox	Muskox	21	50	Survey	0	1	Y	N	N/A
2022-11-05	al Closure/Speed Restr	0.68	Weather/Muskox	Muskox	22	10	Survey	1	1	Y	N	N/A
2022-11-06	Restricted Traffic	0	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-11-07	Restricted Traffic	0	Weather	Muskox	9	300	Incidental	0	1	Y	N	Weather conditions
2022-11-08	Speed Restriction	0	Muskox	Muskox	22	100	Survey	1	1	Y	N	

Table B-2: Summary of road restrictions (Closed - 24 hours, Closed – less than 24 hours, Speed Restrictions, and Traffic Restrictions) along the Whale Tail Haul Road, 2022.

Date	Closure Status	Closure Hours	Cause for Restriction	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Convoy	Reason For Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2022-11-09	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	
2022-11-10	Speed Restriction	0	Muskox	Muskox	31	100	Survey	0	1	Y	N	
2022-11-11	Speed Restriction	0	Muskox	Muskox	36	150	Incidental	0	1	Y	N	
2022-11-12	Speed Restriction	0	Muskox	Muskox	35	900	Survey	0	1	Y	N	
2022-11-13	Speed Restriction	0	Muskox	Muskox	21	75	Survey	0	1	Y	N	
2022-11-14	Speed Restriction	0	Muskox	N/A	N/A	N/A	N/A	0	0	Y	N	
2022-11-15	Speed Restriction	0	Muskox	Muskox	38	500	Survey	0	1	Y	N	
2022-11-16	Speed Restriction	0	Muskox	Muskox	37	200	Survey	1	1	Y	N	
2022-11-17	Speed Restriction	0	Muskox	Muskox	38	300	Survey	0	1	Y	N	
2022-11-18	Speed Restriction	0	Muskox	N/A	N/A	N/A	Monitoring	1	0	Y	N	N/A
2022-11-19	Speed Restriction	0	Muskox	Muskox	44	300	Survey	0	1	Y	N	N/A
2022-11-20	Closed (< 24 hours)	7.33	Weather	Muskox	7	50	Survey	0	1	Y	N	N/A
2022-11-21	Closed (< 24 hours)	5.58	Weather	Caribou	10	200	Survey	0	1	Y	N	Better visibility
2022-11-22	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-11-23	Open	0	N/A	Caribou	28	1000	Survey	0	1	Y	N	N/A
2022-11-24	Open	0	N/A	Muskox	3	500	Survey	1	1	Y	N	N/A
2022-11-25	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-11-26	Open	0	N/A	Caribou	1	236	Survey	0	1	Y	N	N/A
2022-11-27	Closed (< 24 hours)	0	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-11-28	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-11-29	Open	0	N/A	Muskox	7	750	Survey	0	1	Y	N	N/A
2022-11-30	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-12-01	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-12-02	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-12-03	Open	0	N/A	Muskox/Caribou	3	30	Survey	1	1	Y	N	N/A
2022-12-04	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	N/A
2022-12-05	Closed (< 24 hours)	17.75	Weather	N/A	N/A	N/A	N/A	0	0	Y	N	Weather improved
2022-12-06	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	Y	N	
2022-12-07	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	
2022-12-08	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	
2022-12-09	Closed (< 24 hours)	8.45	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-12-10	Closed (< 24 hours)	5.25	Weather	N/A	N/A	N/A	N/A	0	0	N	N	Weather improved
2022-12-11	Open	0	N/A	Muskox	3	400	Incidental	0	0	N	N	N/A
2022-12-12	Closed (< 24 hours)	0	Weather	N/A	N/A	N/A	N/A	0	0	N	N	
2022-12-13	Closed (< 24 hours)	0	Weather	Muskox	5	1000	Survey	0	1	N	N	Weather improved
2022-12-14	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	
2022-12-15	Open	0	N/A	Muskox	8	1500	Survey	0	1	N	N	
2022-12-16	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	
2022-12-17	Open	0	N/A	N/A	N/A	N/A	Survey	0	1	N	N	N/A
2022-12-18	Open	0	N/A	Caribou	6	500	N/A	0	0	N	N	N/A
2022-12-19	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-12-20	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-12-21	Open	0	N/A	N/A	N/A	N/A	N/A	1	1	N	N	N/A
2022-12-22	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-12-23	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-12-24	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-12-25	Closed (< 24 hours)	19.75	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-12-26	Closed (24 hours)	24	Weather	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-12-27	Closed (< 24 hours)	4.5	Weather	N/A	N/A	N/A	N/A	0	0	N	N	Improved weather
2022-12-28	Open	0	N/A	Muskox	23	100	Survey	1	1	N	N	N/A
2022-12-29	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-12-30	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A
2022-12-31	Open	0	N/A	N/A	N/A	N/A	N/A	0	0	N	N	N/A

APPENDIX C

Wildlife Mortalities

Wildlife Incident Report Form

Date:	2022-02-03	Time:	12:20
Individuals involved:	Kathleen Newberry		
Species:	Arctic Hare		
Number, gender, age:	1 Hare, gender and age unknown		
Location (description):	KM 16		
Location (UTM):	Lat 64.450811 Lon -96.070719		
Digital photo numbers:	Arctic Hare KM16		
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
While performing a wildlife Survey on the AWAR, a technician found a dead Arctic Hare that appears to have been struck by a vehicle at km 16 in the middle of the road.			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
N/A			
Describe any communication with GN-DOE:			
Communications with the GN-DOE will be done during the monthly report.			
What immediate measures were taken to reduce risk or harm?			
The carcass was picked up to avoid attracting scavengers near the road.			
What measures are recommended to prevent future occurrences?			
A general reminder to all operators of vehicles/equipment to be aware of wildlife presence along the road.			
Report prepared by:	Kathleen Newberry	Reviewed by:	Tom Thomson

Wildlife Incident Report Form

Date:	2022-03-01	Time:	10:00
Individuals involved:	Rowan Woodall		
Species:	Arctic Fox		
Number, gender, age:			
Location (description):	AMQ Metal Screening Pad		
Location (UTM):	14W 607348 7255755		
Digital photo numbers:	IMG_6300	IMG_6301	
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>While removing snow at the construction site for the Metal Screening Pad at AMQ, workers noticed a fox carcass in the snow. The operator called his supervisor who then contacted the Environmental personnel to come and assess the carcass. Upon investigating the location of the carcass, it appears as though the fox was trapped under a pile of snow and a cement wall that was being constructed for the metal removal system.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
N/A			
Describe any communication with GN-DOE:			
<p>A phone call occurred on March 1st at approximately 13:00 with the conservation officer at Baker Lake to discuss disposal of the carcass.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>The carcass was removed and brought to Meadowbank. The carcass will then be brought to Baker Lake at a later date.</p>			
What measures are recommended to prevent future occurrences?			
<p>A meeting is scheduled with the construction team to reinforce site wildlife standards.</p>			
Report prepared by:	Rowan Woodall	Reviewed by:	Samuel Tapp

IMG_6300



IMG_6301



Wildlife Incident Report Form

Date:	2022-03-15	Time:	7:30 PM
Individuals involved:	Kathleen Newberry		
	Philippe Bédard		
Species:	Arctic Fox		
Number, gender, age:	N/A		
Location (description):	North West of AMQ Warehouse		
Location (UTM):	14W 0607958 7255220		
Digital photo numbers:	Arctic fox (1)	Arctic fox (2)	
	Arctic fox (3)	Arctic fox (4)	
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>An AEM employee found a dead Arctic Fox that appears to have been struck by a vehicle at the northwest side of the AMQ Warehouse in the middle of the road. The employee called his supervisor who then contacted the Environmental personnel to come and assess the carcass. Upon investigating the location and the carcass, it appears that the fox was struck by a vehicle.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
N/A			
Describe any communication with GN-DOE:			
Wildlife mortality report will be sent to GN-DOE Via Email			
What immediate measures were taken to reduce risk or harm?			
The carcass was removed and kept frozen at AMQ until further notice by the conservation officer at Baker Lake.			
What measures are recommended to prevent future occurrences?			
A general reminder to all operators of vehicles/equipment to be aware of wildlife presence around site.			
Report prepared by:	Kathleen Newberry	Reviewed by:	Louis Dubois









Wildlife Incident Report Form

Date:	2022-03-18	Time:	8:30	
Individuals involved:	Eric Leonard			
	Laurence Archambault			
	Félix Lessard-Juneau			
Species:	Artic Hare			
Number, gender, age:	1, Unknown gender or age			
Location (description):	On road 7, near A47/Peanut Lake			
Location (UTM):	14W 0607030 7256054			
Digital photo numbers:	P1090498	P1090500	P1090502	P1090504
	P1090499	P1090501	P1090503	P1090505
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?				
<p>Environment technicians received a call about a dead hare on road 7, near the IVR 2 pit. Upon arrival, the technicians saw that scavengers (fox, raven) have gotten into the carcass. Only the fur and bones were still in place.</p>				
Describe any use of wildlife deterrents: Describe any wildlife mortality:				
<p>N/A</p>				
Describe any communication with GN-DOE:				
<p>Communications with the GN-DOE will be done during the monthly report.</p>				
What immediate measures were taken to reduce risk or harm?				
<p>The carcass was picked up to avoid attracting scavengers on the road.</p>				
What measures are recommended to prevent future occurrences?				
<p>A general reminder to all operators of vehicles/equipment to be aware of wildlife presence along the road.</p>				
Report prepared by:	Laurence Archambault	Reviewed by:		

Wildlife Incident Report Form

Date:	2022-04-04	Time:	13:18
Individuals involved:	Nicolas Saucier		
Species:	Wolverine		
Number, gender, age:	1, Unknown gender or age		
Location (description):	South Cell Tailings Area		
Location (UTM):	14W 0638544 7215186		
Digital photo numbers:			
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>Environment technicians received a call from MBK security at 12:30pm about a Wolverine moving North across the airstrip towards the South Cell tailing area. At 12:50pm Env. Technician went to patrol the area around the South Cell and Waste rock storage facility.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>Use of deterrents and location of Wolverine observations was issued to GN DOE on March 19, 2022.</p> <p>Frequent reports/observations of the wolverine continued between March 19 and April 4, 2022.</p> <p>Two 12g slugs were used to dispatch the Wolverine.</p>			
Describe any communication with GN-DOE:			
<p>A phone call between AEM ENV and GN-DOE was completed on March 18, 2022. At the time ENV provided GN-DOE the wildlife report regarding our monitoring and deterring efforts related to the Wolverine observations.</p> <p>On March 21, 2022 GN DOE issued a wildlife destruction authorization to ensure the safety of personnel on site.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>The Wolverine carcass was picked up and will be brought to the GN office in Baker Lake on 2022-04-05.</p>			
What measures are recommended to prevent future occurrences?			
<p>A general reminder to all site personal regarding food waste, cigarette butts, proper waste segregation, closing sea ca doors, and ensuring work areas are clean to avoid attracting wildlife on site.</p>			
Report prepared by:	Nicolas Saucier	Reviewed by:	Tom Thomson

2022-04-04 Wolverine – South Cell Tailings Area



2022-04-04 Wolverine – South Cell Tailings Area



Wildlife Incident Report Form

Date:	2022/04/22	Time:	8:35
Individuals involved:	Olivier Gagnon		
Species:	Ptarmigan		
Number, gender, age:			
Location (description):	AWAR (near Km 40)		
Location (UTM):			
Digital photo numbers:	P1040126		
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>While doing a wildlife survey down the AWAR, the environmental department noticed a ptarmigan that appears to have been struck by a vehicle.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>N/A</p>			
Describe any communication with GN-DOE:			
<p>Communication with the GN-DOE will be done during the monthly report.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>The ptarmigan was picked up and placed at the incinerator to avoid attracting scavengers near the road.</p>			
What measures are recommended to prevent future occurrences?			
<p>General reminder to every operator that there's wildlife presence around the road.</p>			
Report prepared by:	Olivier Gagnon	Reviewed by:	



Wildlife Incident Report Form

Date:	2022/06/26	Time:	8:55
Individuals involved:	Rowan Woodall,	Kathleen Newberry	Sara Swiderski
Species:	Siksik		
Number, gender, age:	N/A		
Location (description):	WTHR (KM132)		
Location (UTM):	14W 0631980 7233576		
Digital photo numbers:	N/A		
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
While doing a wildlife survey on the WTHR, the environmental department noticed a siksik that appears to have been struck by a vehicle.			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
N/A			
Describe any communication with GN-DOE:			
Communication with the GN-DOE will be done during the monthly report.			
What immediate measures were taken to reduce risk or harm?			
The siksik was picked up and placed at the incinerator to avoid attracting scavengers near the road.			
What measures are recommended to prevent future occurrences?			
General reminder to every operator that there's wildlife presence around the road.			
Report prepared by:	Kathleen Newberry	Reviewed by:	

Wildlife Incident Report Form

Date:	2022-07-23	Time:	1:52AM
Individuals involved:	Eric Haley	Kelli Gillard	
Species:	Arctic Hare		
Number, gender, age:	1		
Location (description):	WTHR KM 135		
Location (UTM):	14W 630557 7234657		
Digital photo numbers:			
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>During the night shift operations along the WTHR the dispatch received a report of an animal carcass at the KM135 bridge. An environment department employee traveled to the bridge and confirmed the carcass was present and to identify the animal.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
N/A			
Describe any communication with GN-DOE:			
Communications with the GN-DOE will be done during the monthly report.			
What immediate measures were taken to reduce risk or harm?			
The carcass was collected to reduce the risk of scavenging. The carcass was disposed of at the MBK incinerator.			
What measures are recommended to prevent future occurrences?			
A reminder to all WTHR users to be aware of wildlife presence along the road and to slow down when an animal has been sighted in the area.			
Report prepared by:	Rowan Woodall	Reviewed by:	

Wildlife Incident Report Form

Date:	2022-07-23	Time:	8:12
Individuals involved:	Rowan Woodall		
Species:	Arctic Hare		
Number, gender, age:	1, gender and age unknown		
Location (description):	WTHR KM 143		
Location (UTM):	14W 623289 7235827		
Digital photo numbers:			
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>During a routine inspection along the WTHR an environmental technician observed a carcass of an arctic hare along the road. The carcass appears to have been struck by a vehicle.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
N/A			
Describe any communication with GN-DOE:			
Communications with the GN-DOE will be done during the monthly report.			
What immediate measures were taken to reduce risk or harm?			
The carcass was collected to reduce the risk of scavenging. The carcass was disposed of at the MBK incinerator.			
What measures are recommended to prevent future occurrences?			
A reminder to all WTHR users to be aware of wildlife presence along the road and to slow down when an animal has been sighted in the area.			
Report prepared by:	Rowan Woodall	Reviewed by:	

Wildlife Incident Report Form

Date:	2022-08-02	Time:	20h10
Individuals involved:	Paul Niego	Derek Nateela	Tom Thomson
	Félix Tutannuaq		
Species:	Wolverine		
Number, gender, age:	1, female, young		
Location (description):	Bridge km 80		
Location (UTM):	14W 627282 7201434		
Digital photo numbers:	1		
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>AFS Tanker 3 Paul Niego informed dispatch at around 20h00 that he ran over a wolverine on the bridge at km 80.</p> <p>There was no threat the wildlife of human safety.</p> <p>When the AFS driver saw the wolverine on the bridge, he did not have time to apply the brake.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
No deterrents were used.			
Describe any communication with GN-DOE:			
Wildlife Mortality report will be sent to the GN on august 3 rd via email.			
What immediate measures were taken to reduce risk or harm?			
AFS driver informed dispatch around 20h00. At 20h10, dispatch communicated with the environment coordinator how send an employee to remove the carcass. Meanwhile, the wolverine had died instantly, and the carcass was moved to the side of the road by the grader to allow free access to the road.			
What measures are recommended to prevent future occurrences?			
<p>The driver was already driving slowly, and no food waste was found near the accident.</p> <p>Maintaining good vigilance is the best measure to avoid another accident.</p>			
Report prepared by:	Louis Dubois	Reviewed by:	

Photo 1



Wildlife Incident Report Form

Date:	2022-09-05	Time:	8:00
Individuals involved:	Thomas Dahm (reported)	Jeff Dufour (Environment Tech)	Sylvain Singahti (Environment Helper)
Species:	Arctic Hare		
Number, gender, age:	- 1 Hare, gender unknown, adult		
Location (description):	WTHR 121Km		
Location (UTM):	14 W 636977 7223313		
Digital photo numbers:	No pictures		
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>During the day shift operations along the WTHR, a AEM employee reported to the environment department an animal carcass at KM121. An environment department employee traveled to the scene and confirmed the carcass was present and identify the arctic hare.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
N/A			
Describe any communication with GN-DOE:			
Communications with the GN-DOE will be done during the monthly report.			
What immediate measures were taken to reduce risk or harm?			
The carcass was picked up by Environment Technician Jeff Dufour and Environment Helper Sylvain Singahti shortly after being reported.			
What measures are recommended to prevent future occurrences?			
A reminder to all WTHR users to be aware of wildlife presence along the road and to slow down when an animal has been sighted in the area.			
Report prepared by:	Jeff Dufour	Reviewed by:	Louis Dubois

Wildlife Incident Report Form

Date:	2022-10-23	Time:	12:30
Individuals involved:	Kathleen Newberry	Eric Thomson	
Species:	Arctic Hare		
Number, gender, age:	- 1 Hare, gender unknown, adult		
Location (description):	WTHR Km 158		
Location (UTM):	14 W 620586 7243676		
Digital photo numbers:	IMG_7590	IMG_7591	
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>During a routine inspection along the WTHR an environmental technician observed a carcass of an arctic hare along the road. The carcass appears to have been struck by a vehicle.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>N/A</p>			
Describe any communication with GN-DOE:			
<p>Communications with the GN-DOE will be done during the monthly report.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>The environment team was not able to collect the carcass because it was frozen to the ground.</p>			
What measures are recommended to prevent future occurrences?			
<p>A reminder to all WTHR users to be aware of wildlife presence along the road and to slow down when an animal has been sighted in the area.</p>			
Report prepared by:	Kathleen Newberry	Reviewed by:	

Wildlife Incident Report Form

Date:	2022-11-08	Time:	11:25
Individuals involved:	Rowan Woodall		
Species:	Arctic Hare		
Number, gender, age:	1 Hare, Gender unknown, likely and adult		
Location (description):	Road 7 in Amaruq, Near the Entrance to IVR 2 Pit		
Location (UTM):	14W 606679 7255934		
Digital photo numbers:	IMG_8057	IMG_8058	IMG_8064
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>At 11:15am the AMQ environmental team was notified that there were 3 foxes fighting over a dead animal in the middle of the road near IVR 2 Pit entrance. An environmental technician went to assess and determined that an arctic hare had been struck by a vehicle.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>Bangers and Vehicle horn to deter scavengers.</p>			
Describe any communication with GN-DOE:			
<p>Communications with the GN-DOE will be done during the monthly report.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>The environmental technician chipped/scraped the carcass from the roadway to prevent other wildlife from being at risk. The environmental technician monitored the area for ~30 minutes to ensure the scavengers did not return.</p>			
What measures are recommended to prevent future occurrences?			
<p>A reminder to vehicles travelling around the pits to be aware of wildlife presence and slow down when an animal has been spotted or reported in the area.</p>			
Report prepared by:	Rowan Woodall	Reviewed by:	

Wildlife Incident Report Form

Date:	2022-11-11	Time:	2:00 pm
Individuals involved:	Alex Blanchette		
Species:	Arctic Hare		
Number, gender, age:	1 Hare, Gender unknown, likely and adult		
Location (description):	AWAR km2		
Location (UTM):	N 64 19'47.2" W 095 58'08.5"		
Digital photo numbers:	Img_1	Img_2	Img_3
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>During a routine inspection along the AWAR an environmental technician observed a carcass of an arctic hare along the road. The carcass appears to have been struck by a vehicle and was frozen on the ground.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
N/A			
Describe any communication with GN-DOE:			
Communications with the GN-DOE will be done during the monthly report.			
What immediate measures were taken to reduce risk or harm?			
What was left from the corpse was frozen on the road and it was impossible for us to shovel it.			
What measures are recommended to prevent future occurrences?			
A reminder to all AWAR users to be aware of wildlife presence along the road and to slow down when an animal has been sighted in the area.			
Report prepared by:	Alex Blanchette	Reviewed by:	

Wildlife Incident Report Form

Date:	2022-11-11	Time:	1:40 pm
Individuals involved:	Alex Blanchette		
Species:	Arctic Hare		
Number, gender, age:	1 Hare, Gender unknown, likely and adult		
Location (description):	AWAR km15		
Location (UTM):	N 64 27' 09.1" W 096 04' 29.4"		
Digital photo numbers:	Img_1	Img_2	Img_3
	Img_4	Img_5	
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>At 1:40 pm the MBK environmental team came across what looks like the remains of an Arctic Hare in the middle of the road. It was possible to notice some little tracks of Arctic foxes around the carcass. An environmental technician took the guts with a shovel and disposed it in a garbage bag, which is now at the incinerator.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>None</p>			
Describe any communication with GN-DOE:			
<p>Communications with the GN-DOE will be done during the monthly report.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>The carcass was collected to reduce the risk of scavenging. The carcass was disposed of at the MBK incinerator.</p>			
What measures are recommended to prevent future occurrences?			
<p>A reminder to all AWAR users to be aware of wildlife presence along the road and to slow down when an animal has been sighted in the area.</p>			
Report prepared by:	Alex Blanchette	Reviewed by:	

Wildlife Incident Report Form

Date:	2022-12-13	Time:	8:30 am
Individuals involved:	Grader Operator	Kathleen Newberry	Rowan Woodall
Species:	Fox		
Number, gender, age:	1 Adult		
Location (description):	WT Ring Road		
Location (UTM):	14W 0606087 7255238		
Digital photo numbers:	2022-12-13 fox		
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
A grader operator spotted a dead fox on the intersection of Phase 3 Ramp and Whale Tail Ring Road. The auxiliary supervisor then picked it up and delivered the carcass to environment.			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
N/A			
Describe any communication with GN-DOE:			
A phone call at 10:05 with GN-DOE advising them of the fox mortality. A photograph of the carcass was sent to GN-DOE. GN-DOE authorized via email that the carcass could be incinerated on site.			
What immediate measures were taken to reduce risk or harm?			
Carcass was retrieved to avoid attracting predators to the area and will be brought to the incinerator at Meadowbank.			
What measures are recommended to prevent future occurrences?			
A reminder to vehicles traveling around the pits to be aware of wildlife presence and slow down when an animal has been spotted or reported in the area.			
Report prepared by:	Kathleen Newberry	Reviewed by:	Tom Thomson

Photo 1:



APPENDIX D

Exemption Permits



Agnico Eagle Mines Limited – Meadowbank Division
Suite 540
Baker Lake, NU
X0C 0A0

April 5, 2022

Re: Exemption Permit to remove/destroy a raven nest from fuel tank in at mine site near Baker Lake

Dear Sir,

As per the notification from the Agnico Eagle Mines Limited, it is being requested for permission to remove/destroy a raven's nest on a fuel tank at the site near Baker Lake. The reason for this request is that nest poses a risk to the proper maintenance of the fuel tank and could possibly be a fire hazard.

I authorize the removal/destruction of the nest and the eggs it contents by Agnico Eagle staff under the supervision of a Conservation Officer. If supervision by a Conservation Officer is not possible due to COVID-19 protocols this is understandable, and we would request that pictures be provided in lieu of direct supervision by the Conservation Officer.

Ravens and their nests are by law protected. Specifically, by section 72 of the *Wildlife Act* (Nunavut) which states:

Bird's Eggs

72.(1) *Unless lawfully harvesting eggs, no person shall injure, molest or destroy an egg of a bird.*

Bird's Nest

72.(2) *Unless lawfully harvesting down, no person shall injure, molest or destroy*

(a) the nest of a bird when the nest is occupied by a bird or its eggs; or

(b) the nest of a bird of prey or prescribed bird.

Also, pursuant to the prescribed matter regulations, ravens are a prescribed bird for the purposes of Section 72(2)(b) of the *Wildlife Act*.

Therefore:

- pursuant to section 72(1) of the *Wildlife Act* it is an offence to injure, molest or destroy a raven egg; and
- pursuant to section 72(2)(a) of the *Wildlife Act* it is an offence to injure, molest or destroy an occupied raven nest; and
- pursuant to Section 72(2)(b) of the *Wildlife Act* it is an offence to injure, molest or destroy an occupied raven nest.



This letter constitutes an Exemption Permit, issued under the authority of Article 5.3.24 of the Nunavut Land Claim Agreement and Section 21 of the *Wildlife Act*. It exempts you from the above listed prohibitions. You are hereby authorized to remove and/or destroy the nest and any eggs that may be in it. If the adult birds are present and create a hazard in your attempts to carry out the removal of the nest, you are further authorized to deter the adults.

If you have any question regarding this permit or require further advice on how to proceed under this permit, please contact your local Conservation Officer or the Coordinator, Operations and Regulations at 867-975-7782 or at jneely@gov.nu.ca.

Sincerely,

Drikus Gissing

Superintendent of Wildlife

CC: Russell Toolooktook, Conservation Officer II – Baker Lake
Joe Savikataaq Jr., A/ Regional Wildlife Manager - Arviat
Jason Aliqatuqtuq, Director of Wildlife Operations – Iqaluit
Jon Neely, Coordinator, Operations and Regulations – Iqaluit



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Department of Environment

Ministère de l'Environnement

Wildlife Destruction Authorization Form

In accordance with section 25 of the *Wildlife Act*,

I, Russell Toolooktook, a Conservation Officer in Nunavut,

Authorize Louis Dubois or Nicolas Saucier of Agnico-Eagle Mines Ltd. - MBK.

(Name of Person)

(Address of Person)

to destroy the following wildlife:

Species: Wolverine

Location: Agnico – Eagle Mines Ltd. – Meadowbank site

Reason wildlife is to be destroyed: The wolverine has been seen around the mine site for some months now, it has been deterred on numerous occasions but does not respond and keeps staying on site. It is seen at close proximity by employees in work areas and has become a safety issue for mine personnel.

Equipment to be used to destroy the wildlife: Shot-gun or rifle

*The Wolverine carcass is to be brought down to Baker Lake Wildlife Office once harvested.

Ken Y. Lu

Officer Signature

Conservation Officer II

Position

MARCH 21/22

Date _____

APPENDIX E

Helicopter Flights

Flight types where low elevations are defined below. All of the flight types where low elevation flights are expected are related to slinging operations:

- Core: slinging of diamond drill core.
- DrillServ: slinging drilling equipment, additives, loads of drilling rods, etc.
- Floor: slinging large and heavy wooden floors used as a base to assemble the fly drill.
- Fuel: slinging 1000 L double walled fuel tanks.
- LocSling: material slinging operations without returning to the base, usually from one drill site to another.
- Move: moving the drill; slinging drill parts (engine, tower, hydraulic controls, etc.) from a drill site to a new one; often less than 1 km away from one another.
- NoRevenue: helicopter maintenance; most often around the airport base.
- Reposition: usually small (e.g., 100 m) moves to accommodate different aircraft at the airport fueling station.

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Spring	2022-04-25	1866	710130	FLRH	CrewChg		18:56	19:05	0.2	
Spring	2022-04-25	1866	710130	FLRH	CrewChg		18:28	18:38	0.2	
Spring	2022-04-26	1868	710131	FLRH	CrewChg		6:13	6:35	0.4	
Spring	2022-04-26	1868	710131	FLRH	CrewChg		18:08	18:30	0.4	
Spring	2022-04-27	1869	710132	FLRH	CrewChg		6:07	6:27	0.3	
Spring	2022-04-27	1869	710132	FLRH	PaxLoc		7:13	7:28	0.3	
Spring	2022-04-27	1869	710132	FLRH	CrewChg		18:41	19:05	0.4	
Spring	2022-04-28	1870	710133	FLRH	CrewChg		18:27	18:48	0.4	
Spring	2022-04-28	1870	710133	FLRH	CrewChg		6:33	6:53	0.3	
Spring	2022-04-28	1870	710133	FLRH	Core	Yes	7:51	8:11	0.3	
Spring	2022-04-28	1870	710133	FLRH	PaxLoc		14:31	14:51	0.3	
Spring	2022-04-29	1871	710134	FLRH	CrewChg		18:12	18:40	0.5	
Spring	2022-04-29	1871	710134	FLRH	CrewChg		6:21	6:43	0.4	
Spring	2022-04-30	1872	710135	FLRH	CrewChg		18:19	18:47	0.5	
Spring	2022-04-30	1872	710135	FLRH	CrewChg		6:44	7:22	0.3	
Spring	2022-04-30	1872	710135	FLRH	Core	Yes	6:44	7:22	0.3	
Spring	2022-04-30	1872	710135	FLRH	LocSing	Yes	14:15	14:29	0.2	
Spring	2022-05-01	1873	710136	FLRH	CrewChg		18:18	18:44	0.4	
Spring	2022-05-02	1874	710137	FLRH	CrewChg		18:12	18:40	0.5	
Spring	2022-05-03	1875	710138	FLRH	PaxLoc		12:10	12:19	0.2	
Spring	2022-05-03	1875	710138	FLRH	LocSing	Yes	15:02	15:17	0.3	
Spring	2022-05-03	1875	710138	FLRH	PaxLoc		9:15	9:28	0.2	
Spring	2022-05-03	1875	710138	FLRH	CrewChg		6:16	6:25	0.2	
Spring	2022-05-03	1875	710138	FLRH	CrewChg		6:50	6:59	0.2	
Spring	2022-05-03	1875	710138	FLRH	CrewChg		18:00	18:28	0.5	
Spring	2022-05-04	1876	710139	FLRH	CrewChg		6:00	6:24	0.4	
Spring	2022-05-04	1876	710139	FLRH	CrewChg		18:15	18:36	0.4	
Spring	2022-05-05	1877	710140	FLRH	Reposition	Yes	18:01	18:06	0.1	
Spring	2022-05-05	1877	710140	FLRH	NoRevenu	Yes	10:37	10:49	0.2	
Spring	2022-05-05	1877	710140	FLRH	NoRevenu	Yes	11:09	11:15	0.1	
Spring	2022-05-05	1877	710140	FLRH	PaxLoc		11:41	11:47	0.1	
Spring	2022-05-05	1877	710140	FLRH	PaxLoc		12:19	13:25	0.3	
Spring	2022-05-05	1877	710140	FLRH	Floor	Yes	12:19	13:25	0.8	
Spring	2022-05-05	1877	710140	FLRH	Floor	Yes	13:48	15:35	0.4	
Spring	2022-05-05	1877	710140	FLRH	Move	Yes	13:48	15:35	1.2	
Spring	2022-05-05	1877	710140	FLRH	Core	Yes	13:48	15:35	0.2	
Spring	2022-05-05	1877	710140	FLRH	Move	Yes	16:07	17:38	1.5	
Spring	2022-05-05	1877	710140	FLRH	PaxLoc		17:46	17:55	0.2	
Spring	2022-05-06	1878	710141	FLRH	Move	Yes	9:27	9:39	0.2	icing conditions, back to the airport.
Spring	2022-05-07	1879	710142	FLRH	PaxLoc		13:30	13:35	0.1	
Spring	2022-05-07	1879	710142	FLRH	PaxLoc		13:45	13:50	0.1	
Spring	2022-05-08	1880	710143	FLRH	PaxLoc		12:18	13:50	0.3	
Spring	2022-05-08	1880	710143	FLRH	Move	Yes	14:24	16:20	1.9	
Spring	2022-05-08	1880	710143	FLRH	PaxLoc		18:20	18:30	0.2	
Spring	2022-05-08	1880	710143	FLRH	Move	Yes	16:36	17:26	0.8	
Spring	2022-05-08	1880	710143	FLRH	Move	Yes	12:18	13:50	1.2	
Spring	2022-05-08	1880	710143	FLRH	PaxLoc		11:29	11:35	0.1	
Spring	2022-05-08	1880	710143	FLRH	NoRevenu	Yes	11:20	11:25	0.1	
Spring	2022-05-08	1880	710143	FLRH	PaxLoc		17:58	18:11	0.1	
Spring	2022-05-08	1880	710143	FLRH	Move	Yes	17:58	18:11	0.1	
Spring	2022-05-10	1882	710145	FLRH	CrewChg		18:12	18:39	0.5	
Spring	2022-05-10	1882	710145	FLRH	CrewChg		6:01	6:06	0.1	
Spring	2022-05-11	1883	710146	FLRH	Floor	Yes	16:03	17:25	1	
Spring	2022-05-11	1883	710146	FLRH	CrewChg		6:28	6:58	0.5	
Spring	2022-05-11	1883	710146	FLRH	Reposition	Yes	7:11	7:15	0.1	
Spring	2022-05-11	1883	710146	FLRH	DrillServ	Yes	9:34	10:32	0.4	
Spring	2022-05-11	1883	710146	FLRH	Fuel	Yes	9:34	10:32	0.6	
Spring	2022-05-11	1883	710146	FLRH	PaxLoc		16:03	17:25	0.4	
Spring	2022-05-11	1883	710146	FLRH	CrewChg		18:11	18:30	0.3	
Spring	2022-05-11	1883	710146	FLRH	Reposition	Yes	15:45	15:50	0.1	
Spring	2022-05-12	1884	710147	FLRH	Reposition	Yes	16:09	16:20	0.2	
Spring	2022-05-12	1884	710147	FLRH	PaxLoc		13:17	13:28	0.2	
Spring	2022-05-12	1884	710147	FLRH	PaxLoc		13:59	14:08	0.2	
Spring	2022-05-12	1884	710147	FLRH	Move	Yes	16:48	17:50	1	
Spring	2022-05-12	1884	710147	FLRH	CrewChg		18:08	18:27	0.3	
Spring	2022-05-13	1885	710148	FLRH	CrewChg		18:10	18:36	0.4	
Spring	2022-05-13	1885	710148	FLRH	CrewChg		6:05	7:29	0.5	
Spring	2022-05-13	1885	710148	FLRH	Fuel	Yes	6:05	7:29	0.9	
Spring	2022-05-13	1885	710148	FLRH	Reposition	Yes	7:45	7:50	0.1	
Spring	2022-05-13	1885	710148	FLRH	DrillServ	Yes	17:04	17:28	0.4	
Spring	2022-05-14	1886	710149	FLRH	Reposition	Yes	13:31	13:41	0.2	
Spring	2022-05-14	1886	710149	FLRH	Core	Yes	7:04	7:20	0.3	
Spring	2022-05-14	1886	710149	FLRH	PaxLoc		8:03	8:33	0.5	
Spring	2022-05-14	1886	710149	FLRH	NoRevenu	Yes	10:00	10:05	0.1	
Spring	2022-05-14	1886	710149	FLRH	CrewChg		18:03	18:26	0.4	
Spring	2022-05-14	1886	710149	FLRH	PaxLoc		16:52	17:03	0.2	
Spring	2022-05-14	1886	710149	FLRH	DrillServ	Yes	11:50	13:07	0.4	
Spring	2022-05-14	1886	710149	FLRH	DrillServ	Yes	14:41	15:50	1.2	
Spring	2022-05-14	1886	710149	FLRH	Fuel	Yes	11:50	13:07	0.6	
Spring	2022-05-14	1886	710149	FLRH	CrewChg		6:18	6:46	0.5	
Spring	2022-05-14	1886	710149	FLRH	Floor	Yes	11:50	13:07	0.3	
Spring	2022-05-15	1887	710150	FLRH	CrewChg		18:10	18:29	0.3	
Spring	2022-05-15	1887	710150	FLRH	Fuel	Yes	14:58	15:50	0.5	
Spring	2022-05-15	1887	710150	FLRH	PaxLoc		16:11	16:22	0.2	
Spring	2022-05-15	1887	710150	FLRH	DrillServ	Yes	14:58	15:50	0.2	
Spring	2022-05-15	1887	710150	FLRH	Floor	Yes	14:58	15:50	0.2	
Spring	2022-05-15	1887	710150	FLRH	PaxLoc		13:56	14:06	0.2	
Spring	2022-05-15	1887	710150	FLRH	CrewChg		6:10	6:35	0.4	
Spring	2022-05-16	1888	710151	FLRH	Reposition	Yes	7:23	7:27	0.1	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Spring	2022-05-16	1888	710151	FLRH	Reposition	Yes	13:37	13:46	0.2	
Spring	2022-05-16	1888	710151	FLRH	Move	Yes	14:30	15:45	1.1	
Spring	2022-05-16	1888	710151	FLRH	PaxLoc		8:39	8:50	0.2	
Spring	2022-05-16	1888	710151	FLRH	Core	Yes	6:05	7:09	0.3	
Spring	2022-05-16	1888	710151	FLRH	Fuel	Yes	6:05	7:09	0.3	
Spring	2022-05-16	1888	710151	FLRH	CrewChg		6:05	7:09	0.5	
Spring	2022-05-16	1888	710151	FLRH	PaxLoc		9:02	9:11	0.2	
Spring	2022-05-16	1888	710151	FLRH	CrewChg		18:12	18:35	0.4	
Spring	2022-05-16	1888	710151	FLRH	Reposition	Yes	14:30	15:45	0.2	
Spring	2022-05-16	1888	710151	FLRH	Reposition	Yes	16:09	16:40	0.3	
Spring	2022-05-16	1888	710151	FLRH	Floor	Yes	16:09	16:40	0.2	
Spring	2022-05-17	1889	710152	FLRH	Fuel	Yes	6:12	7:05	0.5	
Spring	2022-05-17	1889	710152	FLRH	PaxLoc		14:02	15:36	0.1	
Spring	2022-05-17	1889	710152	FLRH	CrewChg		6:12	7:05	0.4	
Spring	2022-05-17	1889	710152	FLRH	Floor	Yes	14:02	15:36	0.8	
Spring	2022-05-17	1889	710152	FLRH	PaxLoc		13:45	13:53	0.1	
Spring	2022-05-17	1889	710152	FLRH	Reposition	Yes	14:02	15:36	0.2	
Spring	2022-05-17	1889	710152	FLRH	Reposition	Yes	7:20	7:25	0.1	
Spring	2022-05-17	1889	710152	FLRH	CrewChg		18:18	18:37	0.3	
Spring	2022-05-17	1889	710152	FLRH	Move	Yes	14:02	15:36	0.5	
Spring	2022-05-17	1889	710152	FLRH	Reposition	Yes	12:49	12:55	0.1	
Spring	2022-05-17	1889	710152	FLRH	Move	Yes	16:01	17:40	1.5	
Spring	2022-05-17	1889	710152	FLRH	Core	Yes	16:01	17:40	0.2	
Spring	2022-05-18	1891	34872	FLRH	Core	Yes	16:40	17:26	0.2	
Spring	2022-05-18	1891	34872	FLRH	CrewChg		18:07	18:27	0.3	
Spring	2022-05-18	1890	710153	FLRH	CrewChg		6:08	6:32	0.4	
Spring	2022-05-18	1890	710153	FLRH	Move	Yes	8:31	9:50	1.3	
Spring	2022-05-18	1891	34872	FLRH	PaxLoc		13:34	13:56	0.4	
Spring	2022-05-18	1891	34872	FLRH	Move	Yes	14:08	14:17	0.2	
Spring	2022-05-18	1891	34872	FLRH	Move	Yes	16:40	17:26	0.6	
Spring	2022-05-18	1891	34872	FLRH	PaxLoc		12:47	12:56	0.2	
Spring	2022-05-18	1890	710153	FLRH	Move	Yes	6:50	8:15	0.6	
Spring	2022-05-18	1890	710153	FLRH	Fuel	Yes	6:50	8:15	0.5	
Spring	2022-05-18	1890	710153	FLRH	Core	Yes	6:50	8:15	0.3	
Spring	2022-05-18	1891	34872	FLRH	Move	Yes	14:34	16:26	1.9	
Spring	2022-05-19	1892	34873	FLRH	PaxLoc		14:04	14:13	0.2	
Spring	2022-05-19	1892	34873	FLRH	Core	Yes	9:34	9:54	0.3	
Spring	2022-05-19	1892	34873	FLRH	Move	Yes	17:12	17:21	0.2	
Spring	2022-05-19	1892	34873	FLRH	CrewChg		18:33	18:55	0.4	
Spring	2022-05-19	1892	34873	FLRH	Move	Yes	15:36	16:38	1	
Spring	2022-05-20	1893	34874	FLRH	PaxLoc		9:59	10:08	0.2	
Spring	2022-05-20	1893	34874	FLRH	CrewChg		18:08	18:35	0.5	
Spring	2022-05-20	1893	34874	FLRH	Floor	Yes	16:20	17:12	0.4	
Spring	2022-05-20	1893	34874	FLRH	PaxLoc		16:20	17:12	0.5	
Spring	2022-05-20	1893	34874	FLRH	PaxLoc		15:04	15:15	0.2	
Spring	2022-05-20	1893	34874	FLRH	CrewChg		6:20	7:37	0.5	
Spring	2022-05-20	1893	34874	FLRH	PaxLoc		12:01	12:10	0.2	
Spring	2022-05-20	1893	34874	FLRH	Reposition	Yes	7:47	7:50	0.1	
Spring	2022-05-20	1893	34874	FLRH	Fuel	Yes	6:20	7:37	0.8	
Spring	2022-05-20	1893	34874	FLRH	DrillServ	Yes	13:56	14:45	0.8	
Spring	2022-05-21	1894	34875	FLRH	Floor	Yes	14:56	15:17	0.4	
Spring	2022-05-21	1894	34875	FLRH	CrewChg		18:22	18:58	0.6	
Spring	2022-05-21	1894	34875	FLRH	Move	Yes	15:45	16:58	1.2	
Spring	2022-05-21	1894	34875	FLRH	Floor	Yes	12:52	14:41	1.8	
Spring	2022-05-21	1894	34875	FLRH	PaxLoc		10:56	11:05	0.2	
Spring	2022-05-21	1894	34875	FLRH	PaxLoc		10:21	10:30	0.2	
Spring	2022-05-21	1894	34875	FLRH	Fuel	Yes	6:56	8:17	1.1	
Spring	2022-05-21	1894	34875	FLRH	DrillServ	Yes	6:56	8:17	0.3	
Spring	2022-05-21	1894	34875	FLRH	CrewChg		6:13	6:39	0.4	
Spring	2022-05-21	1894	34875	FLRH	PaxLoc		17:19	17:29	0.2	
Spring	2022-05-22	1895	34876	FLRH	Fuel	Yes	6:53	7:31	0.6	
Spring	2022-05-22	1895	34876	FLRH	DrillServ	Yes	14:03	15:14	0.4	
Spring	2022-05-22	1895	34876	FLRH	CrewChg		18:13	19:02	0.8	
Spring	2022-05-22	1895	34876	FLRH	PaxLoc		17:13	17:59	0.2	
Spring	2022-05-22	1895	34876	FLRH	Move	Yes	17:13	17:59	0.6	
Spring	2022-05-22	1895	34876	FLRH	Move	Yes	16:17	17:06	0.8	
Spring	2022-05-22	1895	34876	FLRH	Floor	Yes	14:03	15:14	0.8	
Spring	2022-05-22	1895	34876	FLRH	Core	Yes	13:03	13:50	0.2	
Spring	2022-05-22	1895	34876	FLRH	PaxLoc		12:08	12:18	0.2	
Spring	2022-05-22	1895	34876	FLRH	CrewChg		6:06	6:40	0.6	
Spring	2022-05-22	1895	34876	FLRH	Fuel	Yes	13:03	13:50	0.6	
Spring	2022-05-23	1896	34877	FLRH	PaxLoc		11:28	11:37	0.2	
Spring	2022-05-23	1896	34877	FLRH	Core	Yes	10:58	11:17	0.3	
Spring	2022-05-23	1896	34877	FLRH	CrewChg		6:16	6:46	0.5	
Spring	2022-05-23	1896	34877	FLRH	Core	Yes	7:03	8:20	0.3	
Spring	2022-05-23	1896	34877	FLRH	DrillServ	Yes	7:03	8:20	0.3	
Spring	2022-05-23	1896	34877	FLRH	Fuel	Yes	7:03	8:20	0.7	
Spring	2022-05-23	1896	34877	FLRH	PaxLoc		13:56	14:12	0.3	
Spring	2022-05-23	1896	34877	FLRH	CrewChg		18:08	18:36	0.5	
Spring	2022-05-23	1896	34877	FLRH	Core	Yes	17:28	17:54	0.4	
Spring	2022-05-24	1898	34878	FLRH	DrillServ	Yes	6:58	8:30	0.4	
Spring	2022-05-24	1898	34878	FLRH	Core	Yes	6:58	8:30	0.3	
Spring	2022-05-24	1898	34878	FLRH	CrewChg		6:13	6:42	0.5	
Spring	2022-05-24	1898	34878	FLRH	Fuel	Yes	6:58	8:30	0.8	
Spring	2022-05-24	1898	34878	FLRH	CrewChg		18:10	18:38	0.5	
Spring	2022-05-24	1898	34878	FLRH	Core	Yes	17:27	17:46	0.3	
Spring	2022-05-24	1898	34878	FLRH	PaxLoc		10:00	11:09	0.2	
Spring	2022-05-24	1898	34878	FLRH	Floor	Yes	10:00	11:09	0.8	
Spring	2022-05-24	1898	34878	FLRH	DrillServ	Yes	10:00	11:09	0.2	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Spring	2022-05-24	1898	34878	FLRH	Reposition	Yes	12:40	12:45	0.1	
Spring	2022-05-24	1898	34878	FLRH	PaxLoc		12:52	13:14	0.4	
Spring	2022-05-25	1900	34879	FLRH	Core	Yes	6:59	7:17	0.3	
Spring	2022-05-25	1900	34879	FLRH	Move	Yes	10:32	10:54	0.4	
Spring	2022-05-25	1900	34879	FLRH	CrewChg		6:16	6:47	0.5	
Spring	2022-05-25	1900	34879	FLRH	Move	Yes	8:41	9:19	0.6	
Spring	2022-05-25	1900	34879	FLRH	Move	Yes	9:20	10:25	1.1	
Spring	2022-05-25	1900	34879	FLRH	PaxLoc		7:52	8:02	0.2	
Spring	2022-05-25	1900	34879	FLRH	Core	Yes	17:36	17:58	0.4	
Spring	2022-05-25	1900	34879	FLRH	Fuel	Yes	13:42	15:05	0.9	
Spring	2022-05-25	1900	34879	FLRH	CrewChg		6:08	6:42	0.6	
Spring	2022-05-25	1900	34879	FLRH	Move	Yes	10:55	11:20	0.4	
Spring	2022-05-25	1900	34879	FLRH	DrillServ	Yes	13:42	15:05	0.5	
Spring	2022-05-25	1900	34879	FLRH	PaxLoc		12:18	12:28	0.2	
Summer	2022-05-26	1901	34880	FLRH	Move	Yes	9:14	9:50	0.6	
Summer	2022-05-26	1902	271194	GLYF	PaxLoc		17:10	17:22	0.2	
Summer	2022-05-26	1901	34880	FLRH	Move	Yes	11:44	11:54	0.2	
Summer	2022-05-26	1901	34880	FLRH	Move	Yes	12:03	12:50	0.6	
Summer	2022-05-26	1901	34880	FLRH	PaxLoc		12:03	12:50	0.2	
Summer	2022-05-26	1902	271194	GLYF	Fuel	Yes	13:10	14:42	0.9	
Summer	2022-05-26	1901	34880	FLRH	Move	Yes	9:51	10:52	1	
Summer	2022-05-26	1901	34880	FLRH	Core	Yes	6:50	7:09	0.3	
Summer	2022-05-26	1902	271194	GLYF	DrillServ	Yes	13:10	14:42	0.6	
Summer	2022-05-26	1902	271194	GLYF	Core	Yes	17:36	17:57	0.4	
Summer	2022-05-26	1902	271194	GLYF	CrewChg		18:10	18:41	0.5	
Summer	2022-05-26	1902	271194	GLYF	Core	Yes	18:48	19:08	0.3	
Summer	2022-05-26	1901	34880	FLRH	CrewChg		6:08	6:39	0.5	
Summer	2022-05-26	1902	271194	GLYF	Floor	Yes	15:26	16:02	0.6	
Summer	2022-05-26	1901	34880	FLRH	PaxLoc		8:20	8:32	0.2	
Summer	2022-05-26	1902	271194	GLYF	Reposition	Yes	12:54	13:00	0.1	
Summer	2022-05-27	1903	34881	FLRH	Move	Yes	8:05	9:11	1.1	
Summer	2022-05-27	1905	686934	GLYF	Fuel	Yes	11:06	12:12	0.9	
Summer	2022-05-27	1903	34881	FLRH	Move	Yes	9:54	11:13	1.3	
Summer	2022-05-27	1903	34881	FLRH	Move	Yes	9:11	9:25	0.2	
Summer	2022-05-27	1903	34881	FLRH	Move	Yes	7:35	8:05	0.5	
Summer	2022-05-27	1903	34881	FLRH	Move	Yes	9:42	9:54	0.2	
Summer	2022-05-27	1905	686934	GLYF	Core	Yes	11:06	12:12	0.2	
Summer	2022-05-27	1905	686934	GLYF	CrewChg		18:10	18:39	0.5	
Summer	2022-05-27	1905	686934	GLYF	DrillServ	Yes	17:31	18:00	0.5	
Summer	2022-05-27	1905	686934	GLYF	DrillServ	Yes	12:37	13:17	0.7	
Summer	2022-05-27	1903	34881	FLRH	CrewChg		6:12	6:44	0.5	
Summer	2022-05-27	1903	34881	FLRH	Move	Yes	6:59	7:08	0.2	
Summer	2022-05-28	1906	686935	GLYF	Move	Yes	16:55	18:39	1.5	
Summer	2022-05-28	1906	686935	GLYF	CrewChg		6:09	7:01	0.7	
Summer	2022-05-28	1906	686935	GLYF	Core	Yes	16:55	18:39	0.2	
Summer	2022-05-28	1906	686935	GLYF	Core	Yes	6:09	7:01	0.2	
Summer	2022-05-28	1906	686935	GLYF	Move	Yes	16:02	16:14	0.2	
Summer	2022-05-28	1906	686935	GLYF	Floor	Yes	14:53	15:31	0.7	
Summer	2022-05-28	1906	686935	GLYF	Floor	Yes	13:17	14:09	0.7	
Summer	2022-05-28	1906	686935	GLYF	Reposition	Yes	9:02	9:07	0.1	
Summer	2022-05-28	1906	686935	GLYF	PaxLoc		12:17	12:28	0.2	
Summer	2022-05-28	1906	686935	GLYF	PaxLoc		13:17	14:09	0.2	
Summer	2022-05-28	1904	34882	FLRH	CrewChg		18:07	18:43	0.6	
Summer	2022-05-28	1904	34882	FLRH	Reposition	Yes	7:42	7:47	0.1	
Summer	2022-05-28	1906	686935	GLYF	PaxLoc		11:01	12:00	1	
Summer	2022-05-28	1906	686935	GLYF	PaxLoc		9:20	10:39	1.3	
Summer	2022-05-28	1904	34882	FLRH	PaxLoc		9:08	9:47	0.7	
Summer	2022-05-28	1904	34882	FLRH	PaxLoc		16:55	17:05	0.2	
Summer	2022-05-28	1904	34882	FLRH	PaxLoc		17:29	17:48	0.3	
Summer	2022-05-28	1904	34882	FLRH	PaxLoc		14:06	14:15	0.2	
Summer	2022-05-28	1904	34882	FLRH	PaxLoc		8:36	8:59	0.4	
Summer	2022-05-29	1907	961837	GLYF	Core	Yes	17:31	17:59	0.5	
Summer	2022-05-29	1907	961837	GLYF	CrewChg		18:08	18:38	0.5	
Summer	2022-05-29	1908	34883	FLRH	Fuel	Yes	14:13	15:23	0.8	
Summer	2022-05-29	1908	34883	FLRH	CrewChg		11:11	11:45	0.6	
Summer	2022-05-29	1908	34883	FLRH	PaxLoc		12:04	12:15	0.2	
Summer	2022-05-29	1908	34883	FLRH	Move	Yes	12:15	13:14	1	
Summer	2022-05-29	1908	34883	FLRH	DrillServ	Yes	14:13	15:23	0.4	
Summer	2022-05-29	1908	34883	FLRH	CrewChg		10:43	10:52	0.2	Bad weather, turn back.
Summer	2022-05-29	1908	34883	FLRH	DrillServ	Yes	13:14	14:00	0.8	
Summer	2022-05-29	1908	34883	FLRH	PaxLoc		15:36	17:56	2.3	
Summer	2022-05-29	1907	961837	GLYF	PaxLoc		16:40	16:59	0.3	
Summer	2022-05-29	1907	961837	GLYF	Reposition	Yes	12:00	12:07	0.1	
Summer	2022-05-29	1907	961837	GLYF	PaxLoc		13:10	13:35	0.4	
Summer	2022-05-30	1910	686937	GLYF	Core	Yes	7:27	8:35	0.2	
Summer	2022-05-30	1910	686937	GLYF	Floor	Yes	10:12	10:33	0.4	
Summer	2022-05-30	1910	686937	GLYF	DrillServ	Yes	7:27	8:35	0.5	
Summer	2022-05-30	1910	686937	GLYF	Fuel	Yes	7:27	8:35	0.4	
Summer	2022-05-30	1910	686937	GLYF	DrillServ	Yes	11:51	12:58	1.1	
Summer	2022-05-30	1910	686937	GLYF	CrewChg		18:05	18:31	0.4	
Summer	2022-05-30	1910	686937	GLYF	Fuel	Yes	6:39	7:17	0.6	
Summer	2022-05-30	1910	686937	GLYF	CrewChg		6:05	6:33	0.5	
Summer	2022-05-30	1910	686937	GLYF	PaxLoc		9:27	9:41	0.2	
Summer	2022-05-30	1910	686937	GLYF	PaxLoc		13:12	16:04	2.9	
Summer	2022-05-30	1909	34884	FLRH	PaxLoc		7:07	7:32	0.4	
Summer	2022-05-30	1909	34884	FLRH	Reposition	Yes	6:25	6:30	0.1	
Summer	2022-05-30	1909	34884	FLRH	PaxLoc		17:15	17:32	0.3	
Summer	2022-05-31	1913	601307	FLRH	Move	Yes	13:22	14:12	0.8	
Summer	2022-05-31	1913	601307	FLRH	PaxLoc		15:08	16:48	0.3	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-05-31	1913	601307	FLRH	Move	Yes	15:08	16:48	1.4	
Summer	2022-05-31	1913	601307	FLRH	Move	Yes	14:12	15:00	0.8	
Summer	2022-05-31	1913	601307	FLRH	Fuel	Yes	16:58	17:42	0.2	
Summer	2022-05-31	1913	601307	FLRH	Core	Yes	16:58	17:42	0.3	
Summer	2022-05-31	1913	601307	FLRH	CrewChg		6:06	6:35	0.5	
Summer	2022-05-31	1913	601307	FLRH	Core	Yes	6:52	7:34	0.7	
Summer	2022-05-31	1913	601307	FLRH	CrewChg		18:12	18:41	0.5	
Summer	2022-05-31	1913	601307	FLRH	PaxLoc		12:22	12:41	0.3	
Summer	2022-05-31	1913	601307	FLRH	DrillServ	Yes	16:58	17:42	0.2	
Summer	2022-05-31	1913	601307	FLRH	PaxLoc		9:11	11:29	2.3	
Summer	2022-05-31	1913	601307	FLRH	Reposition	Yes	8:48	8:51	0.1	
Summer	2022-05-31	1912	686938	GLYF	PaxLoc		7:56	8:18	0.4	
Summer	2022-05-31	1912	686938	GLYF	PaxLoc		16:06	16:27	0.4	
Summer	2022-06-01	1914	686939	GLYF	PaxLoc		17:27	17:40	0.2	
Summer	2022-06-01	1914	686939	GLYF	PaxLoc		16:56	17:04	0.1	
Summer	2022-06-01	1914	686939	GLYF	Floor	Yes	15:40	16:06	0.4	
Summer	2022-06-01	1914	686939	GLYF	DrillServ	Yes	6:56	8:34	1.2	
Summer	2022-06-01	1914	686939	GLYF	Floor	Yes	13:45	14:42	1	
Summer	2022-06-01	1914	686939	GLYF	CrewChg		6:03	6:31	0.5	
Summer	2022-06-01	1914	686939	GLYF	DrillServ	Yes	17:57	18:43	0.5	
Summer	2022-06-01	1914	686939	GLYF	Core	Yes	6:56	8:34	0.4	
Summer	2022-06-01	1914	686939	GLYF	Core	Yes	17:57	18:43	0.3	
Summer	2022-06-01	1915	34886	FLRH	Reposition	Yes	13:48	13:53	0.1	
Summer	2022-06-01	1915	34886	FLRH	CrewChg		18:01	18:29	0.5	
Summer	2022-06-01	1914	686939	GLYF	PaxLoc		8:59	10:35	1.6	
Summer	2022-06-01	1915	34886	FLRH	PaxLoc		13:21	13:42	0.4	
Summer	2022-06-01	1915	34886	FLRH	PaxLoc		12:50	13:00	0.2	
Summer	2022-06-01	1915	34886	FLRH	PaxLoc		7:50	7:59	0.2	
Summer	2022-06-01	1915	34886	FLRH	PaxLoc		7:00	7:19	0.3	
Summer	2022-06-02	1916	34887	FLRH	DrillServ	Yes	7:11	8:53	1.7	
Summer	2022-06-02	1916	34887	FLRH	CrewChg		18:16	18:38	0.4	
Summer	2022-06-02	1916	34887	FLRH	Reposition	Yes	9:00	9:05	0.1	
Summer	2022-06-02	1917	24748	GLYF	Core	Yes	6:50	7:31	0.7	
Summer	2022-06-02	1916	34887	FLRH	CrewChg		6:11	6:42	0.5	
Summer	2022-06-03	1919	686941	GLYF	DrillServ	Yes	9:16	10:51	0.4	
Summer	2022-06-03	1918	34888	FLRH	PaxLoc		13:09	13:19	0.2	
Summer	2022-06-03	1918	34888	FLRH	Move	Yes	17:00	18:30	1.5	
Summer	2022-06-03	1918	34888	FLRH	Move	Yes	15:10	16:53	1.7	
Summer	2022-06-03	1918	34888	FLRH	Move	Yes	13:51	15:02	1.2	
Summer	2022-06-03	1919	686941	GLYF	CrewChg		6:16	6:45	0.5	
Summer	2022-06-03	1919	686941	GLYF	PaxLoc		18:08	19:11	0.2	
Summer	2022-06-03	1919	686941	GLYF	Fuel	Yes	9:16	10:51	1	
Summer	2022-06-03	1919	686941	GLYF	Move	Yes	18:08	19:11	0.4	
Summer	2022-06-03	1919	686941	GLYF	Core	Yes	9:16	10:51	0.2	
Summer	2022-06-03	1918	34888	FLRH	Move	Yes	13:35	13:50	0.3	
Summer	2022-06-03	1918	34888	FLRH	PaxLoc		12:26	12:39	0.2	
Summer	2022-06-03	1919	686941	GLYF	Move	Yes	17:15	18:00	0.8	
Summer	2022-06-03	1919	686941	GLYF	DrillServ	Yes	11:01	11:35	0.6	
Summer	2022-06-03	1918	34888	FLRH	Reposition	Yes	18:43	18:48	0.1	
Summer	2022-06-03	1919	686941	GLYF	CrewChg		18:08	19:11	0.5	
Summer	2022-06-03	1918	34888	FLRH	PaxLoc		13:24	13:34	0.2	
Summer	2022-06-04	1920	34889	FLRH	PaxLoc		16:13	16:23	0.2	
Summer	2022-06-04	1921	686942	GLYF	Move	Yes	13:03	14:33	1.5	
Summer	2022-06-04	1921	686942	GLYF	Core	Yes	5:57	6:19	0.4	
Summer	2022-06-04	1920	34889	FLRH	CrewChg		18:09	18:36	0.5	
Summer	2022-06-04	1920	34889	FLRH	PaxLoc		15:44	15:54	0.2	
Summer	2022-06-04	1920	34889	FLRH	Move	Yes	13:46	15:26	1.5	
Summer	2022-06-04	1920	34889	FLRH	PaxLoc		13:46	15:26	0.2	
Summer	2022-06-04	1920	34889	FLRH	Move	Yes	12:53	13:22	0.5	
Summer	2022-06-04	1920	34889	FLRH	DrillServ	Yes	9:34	10:25	0.9	
Summer	2022-06-04	1920	34889	FLRH	CrewChg		6:10	6:39	0.5	
Summer	2022-06-04	1920	34889	FLRH	PaxLoc		11:43	12:03	0.3	
Summer	2022-06-04	1921	686942	GLYF	PaxLoc		8:05	9:39	1.6	
Summer	2022-06-04	1922	724024	GLYF	PaxLoc		15:33	18:39	3.1	
Summer	2022-06-04	1922	724024	GLYF	PaxLoc		18:44	19:00	0.3	
Summer	2022-06-05	1924	686943	GLYF	PaxLoc		14:47	16:29	0.2	
Summer	2022-06-05	1923	34890	FLRH	Move	Yes	14:55	15:29	0.6	
Summer	2022-06-05	1923	34890	FLRH	PaxLoc		14:34	14:55	0.4	
Summer	2022-06-05	1923	34890	FLRH	CrewChg		18:16	18:43	0.5	
Summer	2022-06-05	1924	686943	GLYF	Core	Yes	5:20	5:42	0.4	
Summer	2022-06-05	1924	686943	GLYF	CrewChg		6:16	6:43	0.5	
Summer	2022-06-05	1924	686943	GLYF	Fuel	Yes	10:47	11:31	0.7	
Summer	2022-06-05	1924	686943	GLYF	PaxLoc		11:54	12:22	0.5	
Summer	2022-06-05	1924	686943	GLYF	DrillServ	Yes	13:48	14:02	0.1	
Summer	2022-06-05	1924	686943	GLYF	DrillServ	Yes	14:47	16:29	1.5	
Summer	2022-06-05	1924	686943	GLYF	Reposition	Yes	16:45	16:52	0.1	
Summer	2022-06-05	1923	34890	FLRH	Move	Yes	15:50	16:17	0.5	
Summer	2022-06-05	1923	34890	FLRH	Move	Yes	17:23	17:47	0.4	
Summer	2022-06-05	1924	686943	GLYF	PaxLoc		13:48	14:02	0.1	
Summer	2022-06-05	1923	34890	FLRH	PaxLoc		13:34	13:56	0.4	
Summer	2022-06-05	1923	34890	FLRH	PaxLoc		8:28	8:57	0.5	
Summer	2022-06-05	1923	34890	FLRH	Reposition	Yes	8:09	8:12	0.1	
Summer	2022-06-05	1924	686943	GLYF	VIP		7:24	7:43	0.3	
Summer	2022-06-05	1924	686943	GLYF	VIP		7:50	8:10	0.3	
Summer	2022-06-06	1928	476263	FLRH	PaxLoc		21:30	21:52	0.4	
Summer	2022-06-06	1928	476263	FLRH	DrillServ	Yes	10:42	11:54	1.2	
Summer	2022-06-06	1928	476263	FLRH	PaxLoc		12:18	12:55	0.6	
Summer	2022-06-06	1928	476263	FLRH	PaxLoc		13:50	14:00	0.2	
Summer	2022-06-06	1928	476263	FLRH	Reposition	Yes	10:10	10:15	0.1	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-06-06	1928	476263	FLRH	Move	Yes	14:23	15:34	1.2	
Summer	2022-06-06	1928	476263	FLRH	PaxLoc		9:17	9:47	0.5	
Summer	2022-06-06	1928	476263	FLRH	DrillServ	Yes	17:09	17:30	0.2	
Summer	2022-06-06	1926	756559	GLYF	Move	Yes	15:12	16:30	1.3	
Summer	2022-06-06	1928	476263	FLRH	Move	Yes	15:43	16:22	0.7	
Summer	2022-06-06	1926	756559	GLYF	Reposition	Yes	16:43	16:50	0.1	
Summer	2022-06-06	1925	686944	GLYF	Core	Yes	6:08	6:52	0.3	
Summer	2022-06-06	1928	476263	FLRH	CrewChg		18:04	18:32	0.5	
Summer	2022-06-06	1925	686944	GLYF	CrewChg		6:08	6:52	0.4	
Summer	2022-06-06	1928	476263	FLRH	Core	Yes	17:09	17:30	0.2	
Summer	2022-06-06	1928	476263	FLRH	PaxLoc		16:37	16:52	0.3	
Summer	2022-06-06	1926	756559	GLYF	PaxLoc		14:02	14:49	0.8	
Summer	2022-06-07	1927	756560	GLYF	CrewChg		6:06	7:38	0.5	
Summer	2022-06-07	1927	756560	GLYF	Move	Yes	15:35	17:18	1.7	
Summer	2022-06-07	1929	476264	FLRH	Move	Yes	16:49	17:54	1.1	
Summer	2022-06-07	1929	476264	FLRH	Move	Yes	18:12	19:56	1.2	
Summer	2022-06-07	1927	756560	GLYF	Reposition	Yes	8:51	8:56	0.1	
Summer	2022-06-07	1927	756560	GLYF	Core	Yes	6:06	7:38	0.5	
Summer	2022-06-07	1927	756560	GLYF	PaxLoc		4:33	4:55	0.4	
Summer	2022-06-07	1929	476264	FLRH	CrewChg		18:12	19:56	0.5	
Summer	2022-06-07	1927	756560	GLYF	Fuel	Yes	6:06	7:38	0.5	
Summer	2022-06-07	1927	756560	GLYF	Reposition	Yes	17:26	17:31	0.1	
Summer	2022-06-07	1929	476264	FLRH	PaxLoc		13:50	14:02	0.2	
Summer	2022-06-07	1929	476264	FLRH	Move	Yes	16:08	16:35	0.5	
Summer	2022-06-07	1929	476264	FLRH	Move	Yes	20:10	21:32	1.4	
Summer	2022-06-07	1927	756560	GLYF	Wildlife		9:55	11:06	0.2	
Summer	2022-06-07	1927	756560	GLYF	PaxLoc		9:55	11:06	1	
Summer	2022-06-08	1930	476265	FLRH	CrewChg		18:09	18:24	0.3	
Summer	2022-06-08	1930	476265	FLRH	Move	Yes	14:19	16:02	1.7	
Summer	2022-06-08	1969	756561	GLYF	Core	Yes	5:33	5:55	0.4	
Summer	2022-06-08	1969	756561	GLYF	Move	Yes	14:50	16:10	1.2	
Summer	2022-06-08	1969	756561	GLYF	Fuel	Yes	6:02	6:50	0.5	
Summer	2022-06-08	1969	756561	GLYF	CrewChg		6:02	6:50	0.3	
Summer	2022-06-08	1930	476265	FLRH	PaxLoc		17:34	17:54	0.3	
Summer	2022-06-08	1969	756561	GLYF	PaxLoc		10:04	10:15	0.2	
Summer	2022-06-08	1969	756561	GLYF	Move	Yes	13:10	14:42	1.4	
Summer	2022-06-08	1969	756561	GLYF	PaxLoc		10:45	10:57	0.2	
Summer	2022-06-08	1969	756561	GLYF	Reposition	Yes	16:52	16:58	0.1	
Summer	2022-06-08	1969	756561	GLYF	PaxLoc		11:36	12:01	0.4	
Summer	2022-06-08	1969	756561	GLYF	Reposition	Yes	12:23	12:28	0.1	
Summer	2022-06-08	1969	756561	GLYF	PaxLoc		13:10	14:42	0.1	
Summer	2022-06-08	1969	756561	GLYF	PaxLoc		14:50	16:10	0.1	
Summer	2022-06-08	1930	476265	FLRH	PaxLoc		12:44	13:00	0.3	
Summer	2022-06-08	1930	476265	FLRH	PaxLoc		13:12	14:01	0.8	
Summer	2022-06-08	1930	476265	FLRH	Reposition	Yes	11:30	11:35	0.1	
Summer	2022-06-08	1930	476265	FLRH	PaxLoc		11:45	12:25	0.7	
Summer	2022-06-09	1933	476266	FLRH	DrillServ	Yes	19:08	20:18	1	
Summer	2022-06-09	1931	756562	GLYF	PaxLoc		14:37	14:55	0.3	
Summer	2022-06-09	1931	756562	GLYF	DrillServ	Yes	8:59	9:30	0.2	
Summer	2022-06-09	1931	756562	GLYF	PaxLoc		8:59	9:30	0.3	
Summer	2022-06-09	1931	756562	GLYF	DrillServ	Yes	7:38	8:29	0.5	
Summer	2022-06-09	1931	756562	GLYF	CrewChg		6:10	6:36	0.4	
Summer	2022-06-09	1933	476266	FLRH	Core	Yes	19:08	20:18	0.2	
Summer	2022-06-09	1931	756562	GLYF	Reposition	Yes	9:44	9:50	0.1	
Summer	2022-06-09	1931	756562	GLYF	PaxLoc		13:14	13:33	0.3	
Summer	2022-06-09	1933	476266	FLRH	CrewChg		18:07	18:31	0.4	
Summer	2022-06-09	1931	756562	GLYF	PaxLoc		7:38	8:29	0.4	
Summer	2022-06-09	1933	476266	FLRH	PaxLoc		13:55	15:08	1.2	
Summer	2022-06-09	1933	476266	FLRH	Reposition	Yes	11:45	11:50	0.1	
Summer	2022-06-09	1933	476266	FLRH	PaxLoc		12:33	12:50	0.3	
Summer	2022-06-09	1933	476266	FLRH	PaxLoc		13:15	13:35	0.3	
Summer	2022-06-10	1932	756563	GLYF	DrillServ	Yes	12:35	12:57	0.4	
Summer	2022-06-10	1934	476267	FLRH	Core	Yes	17:35	17:58	0.2	
Summer	2022-06-10	1932	756563	GLYF	Pax		14:33	14:55	0.4	
Summer	2022-06-10	1932	756563	GLYF	Reposition	Yes	13:38	13:43	0.1	
Summer	2022-06-10	1932	756563	GLYF	DrillServ	Yes	17:31	18:00	0.4	
Summer	2022-06-10	1932	756563	GLYF	Reposition	Yes	9:45	9:51	0.1	
Summer	2022-06-10	1932	756563	GLYF	CrewChg		6:10	7:02	0.4	
Summer	2022-06-10	1934	476267	FLRH	CrewChg		18:05	18:34	0.5	
Summer	2022-06-10	1934	476267	FLRH	PaxLoc		17:35	17:58	0.2	
Summer	2022-06-10	1934	476267	FLRH	Reposition	Yes	13:40	13:45	0.1	
Summer	2022-06-10	1934	476267	FLRH	Reposition	Yes	12:45	12:50	0.1	
Summer	2022-06-10	1932	756563	GLYF	DrillServ	Yes	6:10	7:02	0.5	
Summer	2022-06-11	1936	756564	GLYF	PaxLoc		8:34	8:44	0.2	
Summer	2022-06-11	1935	476268	FLRH	DrillServ	Yes	17:22	17:54	0.5	
Summer	2022-06-11	1936	756564	GLYF	PaxLoc		7:18	7:33	0.3	
Summer	2022-06-11	1936	756564	GLYF	PaxLoc		9:14	9:23	0.2	
Summer	2022-06-11	1936	756564	GLYF	PaxLoc		9:42	10:06	0.4	
Summer	2022-06-11	1935	476268	FLRH	Core	Yes	6:51	7:12	0.4	
Summer	2022-06-11	1936	756564	GLYF	PaxLoc		17:18	17:38	0.3	
Summer	2022-06-11	1935	476268	FLRH	CrewChg		6:12	6:36	0.4	
Summer	2022-06-11	1935	476268	FLRH	CrewChg		18:16	18:35	0.3	
Summer	2022-06-11	1935	476268	FLRH	PaxLoc		10:33	10:49	0.3	
Summer	2022-06-11	1935	476268	FLRH	PaxLoc		13:31	14:00	0.5	
Summer	2022-06-11	1935	476268	FLRH	PaxLoc		12:08	12:23	0.3	
Summer	2022-06-11	1935	476268	FLRH	PaxLoc		7:51	8:10	0.3	
Summer	2022-06-11	1935	476268	FLRH	PaxLoc		8:36	8:52	0.3	
Summer	2022-06-12	1937	756565	GLYF	PaxLoc		11:44	13:37	0.1	
Summer	2022-06-12	1937	756565	GLYF	Move	Yes	8:16	11:06	2	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-06-12	1937	756565	GLYF	Floor	Yes	11:44	13:37	0.6	
Summer	2022-06-12	1937	756565	GLYF	PaxLoc		16:41	16:55	0.2	
Summer	2022-06-12	1937	756565	GLYF	Floor	Yes	13:58	14:30	0.2	
Summer	2022-06-12	1937	756565	GLYF	Move	Yes	11:44	13:37	1.2	
Summer	2022-06-12	1937	756565	GLYF	PaxLoc		13:58	14:30	0.3	
Summer	2022-06-12	1940	476269	FLRH	Reposition	Yes	12:40	12:45	0.1	
Summer	2022-06-12	1937	756565	GLYF	PaxLoc		8:16	11:06	0.2	
Summer	2022-06-12	1940	476269	FLRH	DrillServ	Yes	8:44	9:02	0.3	
Summer	2022-06-12	1940	476269	FLRH	LocSng	Yes	17:16	17:31	0.3	
Summer	2022-06-12	1937	756565	GLYF	Floor	Yes	8:16	11:06	0.6	
Summer	2022-06-12	1940	476269	FLRH	Core	Yes	6:06	7:12	0.3	
Summer	2022-06-12	1940	476269	FLRH	DrillServ	Yes	6:06	7:12	0.4	
Summer	2022-06-12	1940	476269	FLRH	CrewChg		6:06	7:12	0.4	
Summer	2022-06-12	1940	476269	FLRH	CrewChg		18:08	18:28	0.3	
Summer	2022-06-12	1940	476269	FLRH	PaxLoc		12:02	12:25	0.4	
Summer	2022-06-12	1940	476269	FLRH	PaxLoc		11:22	11:47	0.4	
Summer	2022-06-12	1940	476269	FLRH	PaxLoc		7:28	7:46	0.3	
Summer	2022-06-12	1940	476269	FLRH	PaxLoc		8:19	8:40	0.4	
Summer	2022-06-12	1940	476269	FLRH	PaxLoc		10:51	11:09	0.3	
Summer	2022-06-12	1940	476269	FLRH	PaxLoc		16:06	16:21	0.3	
Summer	2022-06-13	1941	476270	FLRH	Move	Yes	7:00	7:26	0.3	
Summer	2022-06-13	1938	756566	GLYF	Move	Yes	10:51	12:30	1	
Summer	2022-06-13	1941	476270	FLRH	Reposition	Yes	18:03	18:08	0.1	
Summer	2022-06-13	1941	476270	FLRH	CrewChg		17:48	17:58	0.2	
Summer	2022-06-13	1941	476270	FLRH	Move	Yes	16:00	17:40	1.7	
Summer	2022-06-13	1941	476270	FLRH	Move	Yes	15:27	15:56	0.5	
Summer	2022-06-13	1941	476270	FLRH	Move	Yes	12:57	15:10	2.2	
Summer	2022-06-13	1941	476270	FLRH	Move	Yes	10:25	12:35	2.2	
Summer	2022-06-13	1941	476270	FLRH	Move	Yes	8:23	10:06	1.1	
Summer	2022-06-13	1941	476270	FLRH	PaxLoc		7:43	8:07	0.4	
Summer	2022-06-13	1941	476270	FLRH	CrewChg		6:07	6:41	0.6	
Summer	2022-06-13	1938	756566	GLYF	PaxLoc		16:43	16:55	0.2	
Summer	2022-06-13	1938	756566	GLYF	PaxLoc		17:24	17:36	0.2	
Summer	2022-06-13	1938	756566	GLYF	PaxLoc		10:51	12:30	0.7	
Summer	2022-06-13	1941	476270	FLRH	PaxLoc		8:23	10:06	0.3	
Summer	2022-06-13	1938	756566	GLYF	CrewChg		18:14	18:37	0.4	
Summer	2022-06-13	1941	476270	FLRH	PaxLoc		8:23	10:06	0.3	
Summer	2022-06-14	1939	756567	GLYF	CrewChg		18:10	18:32	0.4	
Summer	2022-06-14	1942	476271	FLRH	CrewChg		6:09	8:08	0.3	
Summer	2022-06-14	1942	476271	FLRH	Move	Yes	8:23	9:29	0.8	
Summer	2022-06-14	1939	756567	GLYF	DrillServ	Yes	11:18	11:30	0.2	
Summer	2022-06-14	1939	756567	GLYF	PaxLoc		13:19	13:28	0.2	
Summer	2022-06-14	1942	476271	FLRH	Move	Yes	6:09	8:08	1.7	
Summer	2022-06-14	1939	756567	GLYF	Core	Yes	16:54	17:09	0.3	
Summer	2022-06-14	1939	756567	GLYF	DrillServ	Yes	8:57	9:13	0.3	
Summer	2022-06-14	1942	476271	FLRH	Move	Yes	10:18	11:30	1.2	
Summer	2022-06-14	1942	476271	FLRH	PaxLoc		13:40	13:50	0.2	
Summer	2022-06-14	1942	476271	FLRH	PaxLoc		14:19	14:36	0.3	
Summer	2022-06-14	1939	756567	GLYF	CrewChg		6:10	6:33	0.4	
Summer	2022-06-14	1942	476271	FLRH	PaxLoc		16:27	17:09	0.4	
Summer	2022-06-14	1942	476271	FLRH	PaxLoc		15:31	15:40	0.2	
Summer	2022-06-14	1939	756567	GLYF	PaxLoc		14:05	14:16	0.2	
Summer	2022-06-14	1942	476271	FLRH	Reposition	Yes	12:55	13:00	0.1	
Summer	2022-06-14	1942	476271	FLRH	PaxLoc		11:53	12:05	0.2	
Summer	2022-06-14	1942	476271	FLRH	PaxLoc		9:55	10:05	0.2	
Summer	2022-06-14	1942	476271	FLRH	Reposition	Yes	17:47	17:50	0.1	
Summer	2022-06-14	1942	476271	FLRH	Reposition	Yes	17:40	17:45	0.1	
Summer	2022-06-14	1942	476271	FLRH	PaxLoc		16:27	17:09	0.3	
Summer	2022-06-14	1942	476271	FLRH	PaxLoc		8:23	9:29	0.3	
Summer	2022-06-15	1944	476272	FLRH	PaxLoc		15:20	15:30	0.2	
Summer	2022-06-15	1944	476272	FLRH	PaxLoc		13:08	13:36	0.5	
Summer	2022-06-15	1944	476272	FLRH	PaxLoc		15:45	16:06	0.4	
Summer	2022-06-15	1943	756568	GLYF	Fuel	Yes	14:15	14:40	0.2	
Summer	2022-06-15	1943	756568	GLYF	CrewChg		6:18	6:42	0.4	
Summer	2022-06-15	1943	756568	GLYF	PaxLoc		17:05	17:15	0.2	
Summer	2022-06-15	1943	756568	GLYF	PaxLoc		16:30	16:40	0.2	
Summer	2022-06-15	1943	756568	GLYF	CrewChg		18:04	18:28	0.4	
Summer	2022-06-15	1943	756568	GLYF	Core	Yes	14:15	14:40	0.2	
Summer	2022-06-15	1944	476272	FLRH	PaxLoc		16:47	17:22	0.6	
Summer	2022-06-15	1944	476272	FLRH	PaxLoc		18:16	18:52	0.6	
Summer	2022-06-15	1944	476272	FLRH	NoRevenu	Yes	13:41	13:46	0.1	
Summer	2022-06-15	1944	476272	FLRH	NoRevenu	Yes	14:26	14:32	0.1	
Summer	2022-06-15	1944	476272	FLRH	Reposition	Yes	8:47	8:50	0.1	
Summer	2022-06-15	1944	476272	FLRH	Reposition	Yes	9:33	9:38	0.1	
Summer	2022-06-16	1949	756569	GLYF	DrillServ	Yes	12:26	12:56	0.5	
Summer	2022-06-16	1949	756569	GLYF	CrewChg		17:58	18:22	0.4	
Summer	2022-06-16	1949	756569	GLYF	Fuel	Yes	17:18	17:52	0.2	
Summer	2022-06-16	1949	756569	GLYF	Core	Yes	17:18	17:52	0.2	
Summer	2022-06-16	1949	756569	GLYF	DrillServ	Yes	13:46	14:40	0.9	
Summer	2022-06-16	1949	756569	GLYF	DrillServ	Yes	17:18	17:52	0.2	
Summer	2022-06-16	1949	756569	GLYF	Core	Yes	6:57	7:31	0.1	
Summer	2022-06-16	1949	756569	GLYF	Fuel	Yes	6:57	7:31	0.4	
Summer	2022-06-16	1949	756569	GLYF	DrillServ	Yes	6:57	7:31	0.1	
Summer	2022-06-16	1949	756569	GLYF	CrewChg		6:08	6:32	0.4	
Summer	2022-06-16	1947	476273	FLRH	PaxLoc		7:57	8:19	0.4	
Summer	2022-06-16	1947	476273	FLRH	PaxLoc		16:00	16:18	0.3	
Summer	2022-06-17	1950	476274	FLRH	DrillServ	Yes	7:41	8:00	0.3	
Summer	2022-06-17	1951	756570	GLYF	DrillServ	Yes	7:01	7:56	0.3	
Summer	2022-06-17	1951	756570	GLYF	DrillServ	Yes	13:45	17:41	0.1	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-06-17	1951	756570	GLYF	Fuel	Yes	7:01	7:56	0.5	
Summer	2022-06-17	1951	756570	GLYF	PaxLoc		13:45	17:41	0.2	
Summer	2022-06-17	1951	756570	GLYF	CrewChg		18:05	18:20	0.3	
Summer	2022-06-17	1951	756570	GLYF	Core	Yes	7:01	7:56	0.1	
Summer	2022-06-17	1951	756570	GLYF	DrillServ	Yes	11:42	12:07	0.4	
Summer	2022-06-17	1951	756570	GLYF	CrewChg		6:09	6:36	0.5	
Summer	2022-06-17	1951	756570	GLYF	Move	Yes	13:45	17:41	3.1	
Summer	2022-06-17	1951	756570	GLYF	PaxLoc		8:46	9:23	0.3	
Summer	2022-06-17	1951	756570	GLYF	LocSIng	Yes	13:45	17:41	0.3	
Summer	2022-06-17	1951	756570	GLYF	PaxLoc		13:45	17:41	0.2	
Summer	2022-06-17	1951	756570	GLYF	LocSIng	Yes	8:46	9:23	0.3	
Summer	2022-06-17	1951	756570	GLYF	PaxLoc		10:48	11:04	0.3	
Summer	2022-06-17	1950	476274	FLRH	PaxLoc		15:54	16:15	0.4	
Summer	2022-06-17	1950	476274	FLRH	PaxLoc		8:36	8:55	0.3	
Summer	2022-06-18	1953	756571	GLYF	DrillServ	Yes	13:04	15:01	0.5	
Summer	2022-06-18	1953	756571	GLYF	CrewChg		18:23	18:40	0.3	
Summer	2022-06-18	1953	756571	GLYF	Move	Yes	15:19	17:24	1	
Summer	2022-06-18	1953	756571	GLYF	DrillServ	Yes	15:19	17:24	0.2	
Summer	2022-06-18	1953	756571	GLYF	Move	Yes	13:04	15:01	1.3	
Summer	2022-06-18	1953	756571	GLYF	PaxLoc		13:04	15:01	0.2	
Summer	2022-06-18	1953	756571	GLYF	PaxLoc		12:29	12:40	0.2	
Summer	2022-06-18	1953	756571	GLYF	PaxLoc		8:58	10:40	0.3	
Summer	2022-06-18	1953	756571	GLYF	Move	Yes	8:58	10:40	1.4	
Summer	2022-06-18	1953	756571	GLYF	Core	Yes	6:06	6:39	0.2	
Summer	2022-06-18	1953	756571	GLYF	CrewChg		6:06	6:39	0.4	
Summer	2022-06-18	1953	756571	GLYF	PaxLoc		15:19	17:24	0.1	
Summer	2022-06-18	1953	756571	GLYF	PaxLoc		15:19	17:24	0.4	
Summer	2022-06-18	1953	756571	GLYF	LocSIng	Yes	15:19	17:24	0.4	
Summer	2022-06-18	1953	756571	GLYF	LocSIng	Yes	7:58	8:32	0.3	
Summer	2022-06-18	1953	756571	GLYF	PaxLoc		7:58	8:32	0.3	
Summer	2022-06-19	1958	756572	GLYF	Fuel	Yes	6:15	7:23	0.4	
Summer	2022-06-19	1958	756572	GLYF	CrewChg		6:15	7:23	0.4	
Summer	2022-06-19	1958	756572	GLYF	Core	Yes	6:15	7:23	0.1	
Summer	2022-06-19	1958	756572	GLYF	CrewChg		18:15	18:38	0.4	
Summer	2022-06-19	1958	756572	GLYF	DrillServ	Yes	6:15	7:23	0.2	
Summer	2022-06-19	1958	756572	GLYF	DrillServ	Yes	17:11	17:28	0.1	
Summer	2022-06-19	1958	756572	GLYF	Core	Yes	17:11	17:28	0.2	
Summer	2022-06-19	1958	756572	GLYF	PaxLoc		8:36	8:50	0.2	
Summer	2022-06-19	1958	756572	GLYF	PaxLoc		13:01	13:19	0.3	
Summer	2022-06-19	1954	476276	FLRH	PaxLoc		15:41	16:02	0.4	
Summer	2022-06-19	1954	476276	FLRH	PaxLoc		7:26	7:47	0.3	
Summer	2022-06-20	1960	756573	GLYF	Core	Yes	17:04	18:35	0.2	
Summer	2022-06-20	1960	756573	GLYF	Floor	Yes	11:35	12:27	0.6	
Summer	2022-06-20	1960	756573	GLYF	DrillServ	Yes	17:04	18:35	0.4	
Summer	2022-06-20	1960	756573	GLYF	Fuel	Yes	9:44	10:48	0.3	
Summer	2022-06-20	1960	756573	GLYF	Fuel	Yes	17:04	18:35	0.5	
Summer	2022-06-20	1960	756573	GLYF	PaxLoc		11:35	12:27	0.3	
Summer	2022-06-20	1960	756573	GLYF	DrillServ	Yes	9:44	10:48	0.1	
Summer	2022-06-20	1960	756573	GLYF	Core	Yes	9:44	10:48	0.2	
Summer	2022-06-20	1960	756573	GLYF	CrewChg		6:14	6:39	0.4	
Summer	2022-06-20	1960	756573	GLYF	CrewChg		17:04	18:35	0.4	
Summer	2022-06-20	1960	756573	GLYF	PaxLoc		9:44	10:48	0.5	
Summer	2022-06-20	1959	476277	FLRH	PaxLoc		7:41	8:02	0.4	
Summer	2022-06-20	1959	476277	FLRH	PaxLoc		15:14	15:32	0.3	
Summer	2022-06-21	1962	756574	GLYF	Medevac		0:55	1:16	0.4	
Summer	2022-06-21	1962	756574	GLYF	Medevac		0:22	0:46	0.4	
Summer	2022-06-21	1962	756574	GLYF	Core	Yes	12:06	13:01	0.2	
Summer	2022-06-21	1962	756574	GLYF	Fuel	Yes	12:06	13:01	0.4	
Summer	2022-06-21	1962	756574	GLYF	DrillServ	Yes	12:06	13:01	0.3	
Summer	2022-06-21	1962	756574	GLYF	PaxLoc		15:24	15:33	0.2	
Summer	2022-06-21	1962	756574	GLYF	PaxLoc		16:06	17:36	0.6	
Summer	2022-06-21	1962	756574	GLYF	Floor	Yes	16:06	17:36	0.7	
Summer	2022-06-21	1962	756574	GLYF	Core	Yes	16:06	17:36	0.2	
Summer	2022-06-21	1962	756574	GLYF	CrewChg		18:12	18:33	0.4	
Summer	2022-06-21	1962	756574	GLYF	Medevac		0:02	0:11	0.2	
Summer	2022-06-22	1964	756575	GLYF	PaxLoc		13:24	16:45	0.4	
Summer	2022-06-22	1964	756575	GLYF	CrewChg		6:10	6:56	0.3	
Summer	2022-06-22	1964	756575	GLYF	Core	Yes	6:10	6:56	0.1	
Summer	2022-06-22	1964	756575	GLYF	Fuel	Yes	6:10	6:56	0.2	
Summer	2022-06-22	1964	756575	GLYF	DrillServ	Yes	6:10	6:56	0.2	
Summer	2022-06-22	1964	756575	GLYF	PaxLoc		8:15	8:28	0.2	
Summer	2022-06-22	1964	756575	GLYF	PaxLoc		8:57	9:09	0.2	
Summer	2022-06-22	1964	756575	GLYF	DrillServ	Yes	13:24	16:45	0.3	
Summer	2022-06-22	1964	756575	GLYF	Move	Yes	13:24	16:45	2.7	
Summer	2022-06-22	1964	756575	GLYF	CrewChg		18:15	18:31	0.3	
Summer	2022-06-22	1964	756575	GLYF	DrillServ	Yes	12:28	12:39	0.2	
Summer	2022-06-22	1963	476279	FLRH	PaxLoc		8:17	8:36	0.3	
Summer	2022-06-22	1963	476279	FLRH	PaxLoc		17:05	17:15	0.2	
Summer	2022-06-22	1963	476279	FLRH	PaxLoc		12:10	12:20	0.2	
Summer	2022-06-22	1963	476279	FLRH	Reposition	Yes	7:20	7:25	0.1	
Summer	2022-06-22	1963	476279	FLRH	PaxLoc		10:30	10:40	0.2	
Summer	2022-06-22	1963	476279	FLRH	PaxLoc		15:25	15:43	0.3	
Summer	2022-06-22	1963	476279	FLRH	Reposition	Yes	17:23	17:28	0.1	
Summer	2022-06-23	1967	756576	GLYF	Core	Yes	15:54	16:15	0.2	
Summer	2022-06-23	1967	756576	GLYF	DrillServ	Yes	15:54	16:15	0.2	
Summer	2022-06-23	1967	756576	GLYF	PaxLoc		14:15	14:24	0.2	
Summer	2022-06-23	1967	756576	GLYF	PaxLoc		13:44	13:55	0.2	
Summer	2022-06-23	1967	756576	GLYF	PaxLoc		12:57	13:09	0.2	
Summer	2022-06-23	1967	756576	GLYF	PaxLoc		10:35	10:51	0.3	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-06-23	1967	756576	GLYF	Fuel	Yes	6:12	7:00	0.2	
Summer	2022-06-23	1967	756576	GLYF	Core	Yes	6:12	7:00	0.2	
Summer	2022-06-23	1967	756576	GLYF	CrewChg		6:12	7:00	0.4	
Summer	2022-06-23	1967	756576	GLYF	CrewChg		18:25	18:47	0.4	
Summer	2022-06-23	1965	476280	FLRH	PaxLoc		14:54	15:09	0.3	
Summer	2022-06-23	1965	476280	FLRH	PaxLoc		11:30	11:40	0.2	
Summer	2022-06-23	1965	476280	FLRH	PaxLoc		7:50	8:00	0.2	
Summer	2022-06-23	1965	476280	FLRH	Reposition	Yes	17:35	17:41	0.1	
Summer	2022-06-23	1965	476280	FLRH	PaxLoc		15:48	17:20	1.5	
Summer	2022-06-24	1968	756577	GLYF	Core	Yes	15:20	16:12	0.2	
Summer	2022-06-24	1968	756577	GLYF	CrewChg		18:11	18:35	0.4	
Summer	2022-06-24	1968	756577	GLYF	DrillServ	Yes	15:20	16:12	0.6	
Summer	2022-06-24	1968	756577	GLYF	PaxLoc		16:24	16:33	0.2	
Summer	2022-06-24	1968	756577	GLYF	PaxLoc		14:43	14:53	0.2	
Summer	2022-06-24	1968	756577	GLYF	CrewChg		6:30	6:54	0.4	
Summer	2022-06-24	1968	756577	GLYF	PaxLoc		15:20	16:12	0.1	
Summer	2022-06-24	1966	476281	FLRH	PaxLoc		16:36	16:46	0.2	
Summer	2022-06-24	1966	476281	FLRH	PaxLoc		16:52	17:02	0.2	
Summer	2022-06-24	1966	476281	FLRH	PaxLoc		12:06	12:16	0.2	
Summer	2022-06-24	1966	476281	FLRH	PaxLoc		17:15	17:25	0.2	
Summer	2022-06-24	1966	476281	FLRH	PaxLoc		8:15	8:25	0.2	
Summer	2022-06-25	1946	756578	GLYF	PaxLoc		12:46	13:02	0.3	
Summer	2022-06-25	1946	756578	GLYF	Floor	Yes	9:42	11:46	1.3	
Summer	2022-06-25	1946	756578	GLYF	Core	Yes	17:08	17:36	0.1	
Summer	2022-06-25	1946	756578	GLYF	PaxLoc		17:08	17:36	0.2	
Summer	2022-06-25	1946	756578	GLYF	DrillServ	Yes	17:08	17:36	0.2	
Summer	2022-06-25	1946	756578	GLYF	PaxLoc		16:48	17:00	0.2	
Summer	2022-06-25	1946	756578	GLYF	PaxLoc		14:04	14:13	0.2	
Summer	2022-06-25	1946	756578	GLYF	CrewChg		6:28	7:22	0.3	
Summer	2022-06-25	1946	756578	GLYF	PaxLoc		9:42	11:46	0.8	
Summer	2022-06-25	1946	756578	GLYF	CrewChg		18:20	18:43	0.4	
Summer	2022-06-25	1946	756578	GLYF	Fuel	Yes	6:28	7:22	0.4	
Summer	2022-06-25	1946	756578	GLYF	Core	Yes	6:28	7:22	0.2	
Summer	2022-06-25	1970	476282	FLRH	Move	Yes	10:27	11:31	0.8	
Summer	2022-06-25	1946	756578	GLYF	PaxLoc		13:31	13:46	0.3	
Summer	2022-06-25	1970	476282	FLRH	PaxLoc		13:16	13:26	0.2	
Summer	2022-06-25	1970	476282	FLRH	PaxLoc		16:13	16:23	0.2	
Summer	2022-06-25	1970	476282	FLRH	PaxLoc		13:44	13:54	0.2	
Summer	2022-06-25	1970	476282	FLRH	PaxLoc		17:00	17:25	0.4	
Summer	2022-06-25	1970	476282	FLRH	Reposition	Yes	18:05	18:10	0.1	
Summer	2022-06-25	1970	476282	FLRH	PaxLoc		15:05	15:15	0.2	
Summer	2022-06-25	1970	476282	FLRH	PaxLoc		12:06	12:21	0.3	
Summer	2022-06-25	1970	476282	FLRH	PaxLoc		7:50	8:26	0.6	
Summer	2022-06-25	1970	476282	FLRH	PaxLoc		10:27	11:31	0.3	
Summer	2022-06-26	2015	756579	GLYF	CrewChg		6:13	7:13	0.4	
Summer	2022-06-26	2015	756579	GLYF	Core	Yes	6:13	7:13	0.2	
Summer	2022-06-26	2015	756579	GLYF	Fuel	Yes	6:13	7:13	0.4	
Summer	2022-06-26	2015	756579	GLYF	PaxLoc		7:57	8:20	0.4	
Summer	2022-06-26	2015	756579	GLYF	PaxLoc		9:54	10:08	0.2	
Summer	2022-06-26	2015	756579	GLYF	PaxLoc		10:41	10:55	0.2	
Summer	2022-06-26	2015	756579	GLYF	PaxLoc		14:45	14:58	0.2	
Summer	2022-06-26	2015	756579	GLYF	Move	Yes	16:02	18:52	2.1	
Summer	2022-06-26	2015	756579	GLYF	PaxLoc		16:02	18:52	0.4	
Summer	2022-06-26	2015	756579	GLYF	CrewChg		16:02	18:52	0.3	
Summer	2022-06-26	1971	476283	FLRH	Move	Yes	16:06	17:11	0.7	
Summer	2022-06-26	1971	476283	FLRH	PaxLoc		15:40	15:50	0.2	
Summer	2022-06-26	1971	476283	FLRH	Reposition	Yes	17:20	17:25	0.1	
Summer	2022-06-26	1971	476283	FLRH	PaxLoc		16:06	17:11	0.4	
Summer	2022-06-26	1971	476283	FLRH	PaxLoc		8:05	8:35	0.5	
Summer	2022-06-26	1971	476283	FLRH	PaxLoc		9:38	9:48	0.2	
Summer	2022-06-26	1971	476283	FLRH	PaxLoc		10:42	10:52	0.2	
Summer	2022-06-26	1971	476283	FLRH	PaxLoc		11:31	11:41	0.2	
Summer	2022-06-26	1971	476283	FLRH	PaxLoc		12:58	13:10	0.2	
Summer	2022-06-26	1971	476283	FLRH	PaxLoc		13:47	13:57	0.2	
Summer	2022-06-26	1971	476283	FLRH	PaxLoc		14:56	15:06	0.2	
Summer	2022-06-27	1973	686965	GLYF	PaxLoc		15:57	16:07	0.2	
Summer	2022-06-27	1973	686965	GLYF	PaxLoc		13:28	13:38	0.2	
Summer	2022-06-27	1973	686965	GLYF	Fuel	Yes	16:57	17:37	0.4	
Summer	2022-06-27	1973	686965	GLYF	Core	Yes	16:57	17:37	0.2	
Summer	2022-06-27	1973	686965	GLYF	PaxLoc		16:57	17:37	0.1	
Summer	2022-06-27	1974	756580	GLYF	Core	Yes	7:02	7:27	0.2	
Summer	2022-06-27	1973	686965	GLYF	Pax		11:35	11:59	0.4	
Summer	2022-06-27	1974	756580	GLYF	CrewChg		6:22	6:48	0.4	
Summer	2022-06-27	1973	686965	GLYF	PaxLoc		14:16	14:25	0.2	
Summer	2022-06-27	1974	756580	GLYF	Pax		9:36	9:56	0.3	
Summer	2022-06-27	1974	756580	GLYF	Fuel	Yes	7:02	7:27	0.2	
Summer	2022-06-27	1973	686965	GLYF	CrewChg		18:06	18:30	0.4	
Summer	2022-06-27	1972	476284	FLRH	PaxLoc		7:51	8:14	0.4	
Summer	2022-06-27	1972	476284	FLRH	PaxLoc		9:05	9:15	0.2	
Summer	2022-06-27	1972	476284	FLRH	PaxLoc		10:08	10:18	0.2	
Summer	2022-06-27	1972	476284	FLRH	PaxLoc		11:13	11:23	0.2	
Summer	2022-06-27	1972	476284	FLRH	PaxLoc		17:18	17:22	0.1	
Summer	2022-06-27	1972	476284	FLRH	PaxLoc		16:52	17:10	0.3	
Summer	2022-06-27	1972	476284	FLRH	PaxLoc		15:57	16:07	0.2	
Summer	2022-06-27	1972	476284	FLRH	PaxLoc		14:58	15:08	0.2	
Summer	2022-06-27	1972	476284	FLRH	PaxLoc		13:46	13:56	0.2	
Summer	2022-06-27	1972	476284	FLRH	PaxLoc		12:00	12:10	0.2	
Summer	2022-06-28	1976	686966	GLYF	Core	Yes	8:13	9:29	0.2	
Summer	2022-06-28	1976	686966	GLYF	Fuel	Yes	8:13	9:29	0.4	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-06-28	1976	686966	GLYF	CrewChg		6:20	6:38	0.3	
Summer	2022-06-28	1976	686966	GLYF	CrewChg		18:11	18:31	0.3	
Summer	2022-06-28	1976	686966	GLYF	PaxLoc		14:29	14:38	0.2	
Summer	2022-06-28	1976	686966	GLYF	PaxLoc		15:31	15:40	0.2	
Summer	2022-06-28	1976	686966	GLYF	DrillServ	Yes	8:13	9:29	0.7	
Summer	2022-06-28	1976	686966	GLYF	Core	Yes	16:59	17:34	0.1	
Summer	2022-06-28	1976	686966	GLYF	Fuel	Yes	16:59	17:34	0.3	
Summer	2022-06-28	1976	686966	GLYF	DrillServ	Yes	16:59	17:34	0.2	
Summer	2022-06-28	1975	476285	FLRH	PaxLoc		14:37	14:52	0.3	
Summer	2022-06-28	1975	476285	FLRH	PaxLoc		8:06	8:16	0.2	
Summer	2022-06-28	1975	476285	FLRH	PaxLoc		9:18	9:28	0.2	
Summer	2022-06-28	1975	476285	FLRH	PaxLoc		10:05	10:15	0.2	
Summer	2022-06-28	1975	476285	FLRH	PaxLoc		13:06	13:16	0.2	
Summer	2022-06-28	1975	476285	FLRH	PaxLoc		10:58	11:08	0.2	
Summer	2022-06-29	1978	686967	GLYF	Fuel	Yes	16:12	17:01	0.3	
Summer	2022-06-29	1978	686967	GLYF	Fuel	Yes	6:10	6:52	0.2	
Summer	2022-06-29	1978	686967	GLYF	DrillServ	Yes	16:12	17:01	0.5	
Summer	2022-06-29	1978	686967	GLYF	CrewChg		18:10	18:30	0.3	
Summer	2022-06-29	1978	686967	GLYF	CrewChg		6:10	6:52	0.3	
Summer	2022-06-29	1978	686967	GLYF	Core	Yes	6:10	6:52	0.2	
Summer	2022-06-29	1977	476286	FLRH	PaxLoc		15:55	16:05	0.2	
Summer	2022-06-29	1977	476286	FLRH	PaxLoc		14:23	14:33	0.2	
Summer	2022-06-29	1977	476286	FLRH	PaxLoc		13:54	14:05	0.2	
Summer	2022-06-29	1977	476286	FLRH	PaxLoc		10:13	10:23	0.2	
Summer	2022-06-29	1977	476286	FLRH	PaxLoc		8:00	8:11	0.2	
Summer	2022-06-29	1977	476286	FLRH	PaxLoc		12:42	13:23	0.7	
Summer	2022-06-30	1980	686968	GLYF	CrewChg		18:03	18:24	0.4	
Summer	2022-06-30	1980	686968	GLYF	LocSng	Yes	13:14	14:11	1	
Summer	2022-06-30	1980	686968	GLYF	PaxLoc		14:26	14:45	0.1	
Summer	2022-06-30	1980	686968	GLYF	PaxLoc		7:55	8:13	0.3	
Summer	2022-06-30	1980	686968	GLYF	DrillServ	Yes	14:26	14:45	0.2	
Summer	2022-06-30	1980	686968	GLYF	CrewChg		6:08	6:26	0.3	
Summer	2022-06-30	1979	476287	FLRH	Reposition	Yes	17:00	17:10	0.1	
Summer	2022-06-30	1979	476287	FLRH	PaxLoc		15:00	15:10	0.2	
Summer	2022-06-30	1979	476287	FLRH	PaxLoc		8:03	8:37	0.6	
Summer	2022-06-30	1979	476287	FLRH	PaxLoc		9:10	9:30	0.3	
Summer	2022-06-30	1979	476287	FLRH	PaxLoc		9:45	9:55	0.2	
Summer	2022-06-30	1979	476287	FLRH	PaxLoc		10:30	10:40	0.2	
Summer	2022-06-30	1979	476287	FLRH	PaxLoc		10:54	11:05	0.2	
Summer	2022-06-30	1979	476287	FLRH	PaxLoc		13:10	13:20	0.2	
Summer	2022-06-30	1979	476287	FLRH	PaxLoc		14:10	14:20	0.2	
Summer	2022-06-30	1979	476287	FLRH	PaxLoc		16:23	16:44	0.4	
Summer	2022-06-30	1980	686968	GLYF	PaxLoc		17:02	17:18	0.3	
Summer	2022-06-30	1980	686968	GLYF	PaxLoc		16:18	16:30	0.2	
Summer	2022-07-01	1981	686969	GLYF	Core	Yes	6:03	7:23	0.2	
Summer	2022-07-01	1981	686969	GLYF	Fuel	Yes	6:03	7:23	0.3	
Summer	2022-07-01	1981	686969	GLYF	DrillServ	Yes	6:03	7:23	0.5	
Summer	2022-07-01	1981	686969	GLYF	Fuel	Yes	17:00	17:39	0.2	
Summer	2022-07-01	1981	686969	GLYF	Core	Yes	17:00	17:39	0.1	
Summer	2022-07-01	1981	686969	GLYF	CrewChg		18:00	18:17	0.3	
Summer	2022-07-01	1981	686969	GLYF	CrewChg		6:03	7:23	0.3	
Summer	2022-07-01	1981	686969	GLYF	Ferry		17:00	17:39	0.4	
Summer	2022-07-01	1981	686969	GLYF	PaxLoc		9:27	9:40	0.2	
Summer	2022-07-01	1981	686969	GLYF	PaxLoc		16:51	16:59	0.1	
Summer	2022-07-01	1981	686969	GLYF	PaxLoc		16:15	16:25	0.2	
Summer	2022-07-01	1981	686969	GLYF	PaxLoc		14:40	14:48	0.1	
Summer	2022-07-01	1981	686969	GLYF	PaxLoc		12:02	12:13	0.2	
Summer	2022-07-01	1981	686969	GLYF	PaxLoc		8:40	8:59	0.3	
Summer	2022-07-02	1982	686970	GLYF	DrillServ	Yes	6:09	6:59	0.2	
Summer	2022-07-02	1982	686970	GLYF	CrewChg		18:04	18:24	0.3	
Summer	2022-07-02	1982	686970	GLYF	CrewChg		6:09	6:59	0.3	
Summer	2022-07-02	1982	686970	GLYF	Core	Yes	6:09	6:59	0.1	
Summer	2022-07-02	1982	686970	GLYF	PaxLoc		8:33	8:42	0.2	
Summer	2022-07-02	1982	686970	GLYF	PaxLoc		9:32	9:40	0.1	
Summer	2022-07-02	1982	686970	GLYF	PaxLoc		9:48	9:57	0.2	
Summer	2022-07-02	1982	686970	GLYF	PaxLoc		11:07	11:16	0.2	
Summer	2022-07-02	1982	686970	GLYF	PaxLoc		12:44	13:22	0.3	
Summer	2022-07-02	1982	686970	GLYF	PaxLoc		14:00	14:23	0.2	
Summer	2022-07-02	1982	686970	GLYF	Fuel	Yes	6:09	6:59	0.2	
Summer	2022-07-02	1982	686970	GLYF	PaxLoc		12:44	13:22	0.3	
Summer	2022-07-02	1982	686970	GLYF	Ferry		11:22	11:42	0.3	
Summer	2022-07-02	1982	686970	GLYF	Ferry		14:00	14:23	0.2	
Summer	2022-07-02	1982	686970	GLYF	Reposition	Yes	15:42	15:50	0.1	
Summer	2022-07-02	1982	686970	GLYF	PaxLoc		17:10	17:37	0.5	
Summer	2022-07-02	1982	686970	GLYF	PaxLoc		11:42	11:52	0.2	
Summer	2022-07-03	1983	686971	GLYF	Fuel	Yes	17:32	18:27	0.4	
Summer	2022-07-03	1983	686971	GLYF	CrewChg		17:32	18:27	0.3	
Summer	2022-07-03	1983	686971	GLYF	DrillServ	Yes	6:07	7:07	0.6	
Summer	2022-07-03	1983	686971	GLYF	Core	Yes	17:32	18:27	0.2	
Summer	2022-07-03	1983	686971	GLYF	CrewChg		6:07	7:07	0.4	
Summer	2022-07-03	1983	686971	GLYF	Ferry		9:05	9:34	0.3	
Summer	2022-07-03	1983	686971	GLYF	Ferry		16:55	17:28	0.3	
Summer	2022-07-03	1999	710199	FLRH	NoRevenu	Yes	17:15	17:28	0.2	
Summer	2022-07-03	1999	710199	FLRH	NoRevenu	Yes	15:15	15:25	0.2	
Summer	2022-07-03	1983	686971	GLYF	PaxLoc		9:05	9:34	0.2	
Summer	2022-07-03	1983	686971	GLYF	PaxLoc		16:55	17:28	0.3	
Summer	2022-07-04	1984	686972	GLYF	CrewChg		18:04	18:25	0.4	
Summer	2022-07-04	1984	686972	GLYF	Move	Yes	14:59	17:23	1.7	
Summer	2022-07-04	1984	686972	GLYF	PaxLoc		14:59	17:23	0.3	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-07-04	1984	686972	GLYF	Fuel	Yes	14:59	17:23	0.2	
Summer	2022-07-04	1984	686972	GLYF	Core	Yes	14:59	17:23	0.2	
Summer	2022-07-04	1984	686972	GLYF	Move	Yes	13:19	14:49	1.2	
Summer	2022-07-04	1984	686972	GLYF	PaxLoc		13:19	14:49	0.3	
Summer	2022-07-04	1984	686972	GLYF	DrillServ	Yes	6:01	6:43	0.2	
Summer	2022-07-04	1984	686972	GLYF	Core	Yes	6:01	6:43	0.2	
Summer	2022-07-04	1984	686972	GLYF	CrewChg		6:01	6:43	0.3	
Summer	2022-07-04	1998	710200	FLRH	PaxLoc		16:14	16:23	0.2	
Summer	2022-07-04	1998	710200	FLRH	PaxLoc		15:17	15:21	0.1	
Summer	2022-07-04	1998	710200	FLRH	PaxLoc		16:50	16:57	0.1	
Summer	2022-07-04	1998	710200	FLRH	PaxLoc		13:15	13:20	0.1	
Summer	2022-07-04	1998	710200	FLRH	PaxLoc		8:07	8:16	0.2	
Summer	2022-07-04	1998	710200	FLRH	PaxLoc		14:13	14:18	0.1	
Summer	2022-07-04	1998	710200	FLRH	PaxLoc		14:47	14:54	0.1	
Summer	2022-07-04	1998	710200	FLRH	PaxLoc		12:15	12:23	0.1	
Summer	2022-07-04	1984	686972	GLYF	PaxLoc		11:19	11:30	0.2	
Summer	2022-07-04	1984	686972	GLYF	PaxLoc		11:36	11:53	0.3	
Summer	2022-07-04	1998	710200	FLRH	PaxLoc		7:12	7:41	0.4	
Summer	2022-07-04	1998	710200	FLRH	LocSng	Yes	7:12	7:41	0.1	
Summer	2022-07-05	1985	686973	GLYF	Move	Yes	10:57	11:55	1	
Summer	2022-07-05	1985	686973	GLYF	Core	Yes	17:04	17:26	0.2	
Summer	2022-07-05	1985	686973	GLYF	CrewChg		17:59	18:18	0.3	
Summer	2022-07-05	1985	686973	GLYF	Fuel	Yes	17:04	17:26	0.2	
Summer	2022-07-05	1985	686973	GLYF	Move	Yes	8:40	10:50	1.8	
Summer	2022-07-05	1985	686973	GLYF	PaxLoc		8:40	10:50	0.4	
Summer	2022-07-05	1985	686973	GLYF	Fuel	Yes	6:02	6:40	0.2	
Summer	2022-07-05	1985	686973	GLYF	Core	Yes	6:02	6:40	0.1	
Summer	2022-07-05	1985	686973	GLYF	CrewChg		6:02	6:40	0.3	
Summer	2022-07-05	1997	710201	FLRH	PaxLoc		8:04	8:11	0.1	
Summer	2022-07-05	1997	710201	FLRH	PaxLoc		15:03	15:17	0.2	
Summer	2022-07-05	1985	686973	GLYF	PaxLoc		16:38	16:46	0.1	
Summer	2022-07-05	1985	686973	GLYF	PaxLoc		13:36	13:48	0.2	
Summer	2022-07-05	1997	710201	FLRH	PaxLoc		10:46	10:59	0.2	
Summer	2022-07-05	1985	686973	GLYF	PaxLoc		14:21	14:31	0.2	
Summer	2022-07-05	1985	686973	GLYF	PaxLoc		16:19	16:29	0.2	
Summer	2022-07-05	1997	710201	FLRH	PaxLoc		18:16	18:27	0.2	
Summer	2022-07-05	1997	710201	FLRH	PaxLoc		17:08	17:21	0.2	
Summer	2022-07-05	1997	710201	FLRH	LocSng	Yes	16:16	16:24	0.1	
Summer	2022-07-05	1997	710201	FLRH	PaxLoc		15:42	15:58	0.3	
Summer	2022-07-06	1996	710202	FLRH	PaxLoc		9:04	9:29	0.4	
Summer	2022-07-06	1986	686974	GLYF	PaxLoc		9:03	9:31	0.5	
Summer	2022-07-06	1986	686974	GLYF	PaxLoc		16:16	16:40	0.4	
Summer	2022-07-06	1986	686974	GLYF	Ferry		6:59	7:20	0.4	
Summer	2022-07-06	1986	686974	GLYF	PaxLoc		17:10	17:30	0.3	
Summer	2022-07-06	1996	710202	FLRH	Reposition	Yes	17:30	17:36	0.1	
Summer	2022-07-06	1996	710202	FLRH	PaxLoc		16:18	16:37	0.3	
Summer	2022-07-06	1986	686974	GLYF	Core	Yes	18:15	18:47	0.1	
Summer	2022-07-06	1986	686974	GLYF	DrillServ	Yes	18:15	18:47	0.2	
Summer	2022-07-06	1986	686974	GLYF	CrewChg		18:15	18:47	0.2	
Summer	2022-07-06	1986	686974	GLYF	CrewChg		5:48	6:04	0.3	
Summer	2022-07-06	1996	710202	FLRH	PaxLoc		6:53	7:12	0.3	
Summer	2022-07-07	1987	686975	GLYF	PaxLoc		14:27	14:34	0.1	
Summer	2022-07-07	1987	686975	GLYF	CrewChg		18:05	18:15	0.2	
Summer	2022-07-07	1987	686975	GLYF	CrewChg		5:51	6:04	0.2	
Summer	2022-07-07	1987	686975	GLYF	PaxLoc		8:57	9:40	0.3	
Summer	2022-07-07	1987	686975	GLYF	DrillServ	Yes	8:57	9:40	0.4	
Summer	2022-07-07	1987	686975	GLYF	PaxLoc		14:48	17:43	0.4	
Summer	2022-07-07	1987	686975	GLYF	Move	Yes	14:48	17:43	2.5	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		13:09	13:30	0.3	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		8:13	9:06	0.5	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		15:41	16:14	0.6	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		14:14	14:30	0.3	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		12:29	12:49	0.3	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		16:26	17:08	0.4	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		13:09	13:30	0.1	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		10:57	11:09	0.2	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		10:03	10:19	0.3	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		9:24	9:41	0.3	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		16:26	17:08	0.3	
Summer	2022-07-07	1995	710203	FLRH	PaxLoc		8:13	9:06	0.4	
Summer	2022-07-07	1987	686975	GLYF	PaxLoc		11:59	12:36	0.6	
Summer	2022-07-08	1988	686976	GLYF	CrewChg		18:09	18:44	0.6	
Summer	2022-07-08	1988	686976	GLYF	Fuel	Yes	6:07	6:46	0.2	
Summer	2022-07-08	1988	686976	GLYF	Floor	Yes	14:17	15:27	1.2	
Summer	2022-07-08	1988	686976	GLYF	Core	Yes	6:07	6:46	0.2	
Summer	2022-07-08	1988	686976	GLYF	PaxLoc		11:15	12:48	0.3	
Summer	2022-07-08	1988	686976	GLYF	Move	Yes	11:15	12:48	1.3	
Summer	2022-07-08	1988	686976	GLYF	PaxLoc		12:57	13:57	0.1	
Summer	2022-07-08	1988	686976	GLYF	Move	Yes	12:57	13:57	0.9	
Summer	2022-07-08	1988	686976	GLYF	PaxLoc		15:40	17:03	0.3	
Summer	2022-07-08	1988	686976	GLYF	Floor	Yes	15:40	17:03	1.1	
Summer	2022-07-08	1988	686976	GLYF	CrewChg		6:07	6:46	0.3	
Summer	2022-07-08	1988	686976	GLYF	PaxLoc		7:27	7:35	0.1	
Summer	2022-07-08	1988	686976	GLYF	PaxLoc		8:17	8:25	0.1	
Summer	2022-07-08	1994	710204	FLRH	PaxLoc		13:59	15:20	1.4	
Summer	2022-07-08	1994	710204	FLRH	PaxLoc		7:58	8:27	0.5	
Summer	2022-07-08	1994	710204	FLRH	PaxLoc		9:30	10:02	0.2	
Summer	2022-07-08	1994	710204	FLRH	PaxLoc		9:30	10:02	0.3	
Summer	2022-07-08	1994	710204	FLRH	PaxLoc		16:00	16:19	0.3	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-07-09	2010	686977	GLYF	PaxLoc		8:58	9:26	0.5	
Summer	2022-07-09	2010	686977	GLYF	Fuel	Yes	6:00	7:06	0.2	
Summer	2022-07-09	2010	686977	GLYF	CrewChg		18:22	18:48	0.4	
Summer	2022-07-09	2010	686977	GLYF	PaxLoc		9:32	11:40	0.2	
Summer	2022-07-09	2010	686977	GLYF	CrewChg		6:00	7:06	0.5	
Summer	2022-07-09	2010	686977	GLYF	Core	Yes	6:00	7:06	0.2	
Summer	2022-07-09	2010	686977	GLYF	DrillServ	Yes	6:00	7:06	0.2	
Summer	2022-07-09	2010	686977	GLYF	Floor	Yes	9:32	11:40	1.9	
Summer	2022-07-09	2010	686977	GLYF	PaxLoc		13:41	14:07	0.4	
Summer	2022-07-09	2010	686977	GLYF	PaxLoc		15:47	16:07	0.3	
Summer	2022-07-09	2010	686977	GLYF	PaxLoc		16:28	17:05	0.4	
Summer	2022-07-09	1992	710205	FLRH	Reposition	Yes	12:43	13:01	0.1	
Summer	2022-07-09	2010	686977	GLYF	PaxLoc		16:28	17:05	0.2	
Summer	2022-07-09	2010	686977	GLYF	PaxLoc		14:48	14:58	0.2	
Summer	2022-07-09	1992	710205	FLRH	PaxLoc		13:13	13:21	0.1	
Summer	2022-07-09	1992	710205	FLRH	Reposition	Yes	10:29	10:42	0.1	
Summer	2022-07-09	1992	710205	FLRH	PaxLoc		10:07	10:15	0.1	
Summer	2022-07-09	1992	710205	FLRH	PaxLoc		12:43	13:01	0.2	
Summer	2022-07-09	1992	710205	FLRH	PaxLoc		11:36	11:54	0.3	
Summer	2022-07-09	1992	710205	FLRH	PaxLoc		7:10	7:29	0.3	
Summer	2022-07-09	1992	710205	FLRH	PaxLoc		7:51	8:08	0.3	
Summer	2022-07-09	1992	710205	FLRH	Reposition	Yes	10:29	10:42	0.1	
Summer	2022-07-09	1992	710205	FLRH	PaxLoc		15:26	15:46	0.3	
Summer	2022-07-10	1991	710206	FLRH	Floor	Yes	13:38	15:11	0.6	
Summer	2022-07-10	2009	686978	GLYF	Move	Yes	7:44	10:41	3	
Summer	2022-07-10	2009	686978	GLYF	CrewChg		6:24	7:19	0.4	
Summer	2022-07-10	1991	710206	FLRH	Move	Yes	13:38	15:11	0.7	
Summer	2022-07-10	1991	710206	FLRH	Move	Yes	12:07	13:18	1.2	
Summer	2022-07-10	1991	710206	FLRH	Move	Yes	10:23	11:57	1.6	
Summer	2022-07-10	1991	710206	FLRH	Move	Yes	8:25	10:12	1.8	
Summer	2022-07-10	1991	710206	FLRH	PaxLoc		13:38	15:11	0.3	
Summer	2022-07-10	2009	686978	GLYF	PaxLoc		10:50	12:27	0.2	
Summer	2022-07-10	1991	710206	FLRH	Reposition	Yes	7:55	8:12	0.3	
Summer	2022-07-10	2009	686978	GLYF	CrewChg		18:18	19:18	1	
Summer	2022-07-10	2009	686978	GLYF	PaxLoc		12:36	15:44	0.3	
Summer	2022-07-10	2009	686978	GLYF	Floor	Yes	12:36	15:44	1.2	
Summer	2022-07-10	2009	686978	GLYF	Move	Yes	12:36	15:44	1.6	
Summer	2022-07-10	2009	686978	GLYF	DrillServ	Yes	6:24	7:19	0.2	
Summer	2022-07-10	2009	686978	GLYF	Move	Yes	10:50	12:27	1.4	
Summer	2022-07-10	2009	686978	GLYF	PaxLoc		6:24	7:19	0.3	
Summer	2022-07-10	1991	710206	FLRH	PaxLoc		7:11	7:32	0.4	
Summer	2022-07-10	1991	710206	FLRH	PaxLoc		16:31	16:52	0.4	
Summer	2022-07-10	1991	710206	FLRH	PaxLoc		15:23	15:48	0.3	
Summer	2022-07-11	2008	686979	GLYF	CrewChg		6:02	6:35	0.6	
Summer	2022-07-11	2008	686979	GLYF	DrillServ	Yes	8:45	9:23	0.6	
Summer	2022-07-11	2008	686979	GLYF	Wildlife		9:52	10:24	0.4	
Summer	2022-07-11	2008	686979	GLYF	PaxLoc		11:27	11:59	0.1	
Summer	2022-07-11	2008	686979	GLYF	CrewChg		18:11	18:43	0.5	
Summer	2022-07-11	2008	686979	GLYF	PaxLoc		11:27	11:59	0.4	
Summer	2022-07-11	2008	686979	GLYF	PaxLoc		9:52	10:24	0.1	
Summer	2022-07-11	1990	710207	FLRH	PaxLoc		8:04	8:09	0.1	
Summer	2022-07-11	1990	710207	FLRH	PaxLoc		9:56	10:28	0.2	
Summer	2022-07-11	1990	710207	FLRH	PaxLoc		7:06	7:11	0.1	
Summer	2022-07-11	1990	710207	FLRH	PaxLoc		11:16	11:35	0.3	
Summer	2022-07-11	1990	710207	FLRH	PaxLoc		7:29	7:36	0.1	
Summer	2022-07-11	1990	710207	FLRH	LocSng	Yes	9:05	9:13	0.1	
Summer	2022-07-11	1990	710207	FLRH	PaxLoc		9:27	9:38	0.2	
Summer	2022-07-11	1990	710207	FLRH	PaxLoc		15:58	16:17	0.3	
Summer	2022-07-11	1990	710207	FLRH	PaxLoc		9:56	10:28	0.3	
Summer	2022-07-12	2006	756595	GLYF	PaxLoc		11:26	11:48	0.4	
Summer	2022-07-12	2007	686980	GLYF	Fuel	Yes	6:04	7:37	0.3	
Summer	2022-07-12	2006	756595	GLYF	Core	Yes	12:37	13:12	0.2	
Summer	2022-07-12	2007	686980	GLYF	Ferry		8:59	9:19	0.3	
Summer	2022-07-12	2007	686980	GLYF	PaxLoc		6:04	7:37	0.3	
Summer	2022-07-12	2006	756595	GLYF	DrillServ	Yes	12:37	13:12	0.4	
Summer	2022-07-12	2007	686980	GLYF	DrillServ	Yes	6:04	7:37	0.3	
Summer	2022-07-12	2007	686980	GLYF	DrillServ	Yes	6:04	7:37	0.2	
Summer	2022-07-12	2007	686980	GLYF	CrewChg		6:04	7:37	0.5	
Summer	2022-07-12	2006	756595	GLYF	DrillServ	Yes	17:25	17:50	0.4	
Summer	2022-07-12	2006	756595	GLYF	CrewChg		18:24	18:54	0.5	
Summer	2022-07-12	2011	710208	FLRH	PaxLoc		16:28	16:52	0.3	
Summer	2022-07-12	2011	710208	FLRH	PaxLoc		6:51	7:10	0.3	
Summer	2022-07-12	2011	710208	FLRH	PaxLoc		7:24	7:43	0.3	
Summer	2022-07-12	2011	710208	FLRH	PaxLoc		17:30	17:46	0.3	
Summer	2022-07-12	2011	710208	FLRH	PaxLoc		9:14	9:26	0.2	
Summer	2022-07-12	2011	710208	FLRH	PaxLoc		11:14	11:29	0.3	
Summer	2022-07-12	2011	710208	FLRH	PaxLoc		16:28	16:52	0.1	
Summer	2022-07-13	2005	756596	GLYF	PaxLoc		10:00	10:22	0.4	
Summer	2022-07-13	2012	710209	FLRH	PaxLoc		17:56	18:18	0.4	
Summer	2022-07-13	2005	756596	GLYF	VIP		13:22	13:51	0.5	
Summer	2022-07-13	2005	756596	GLYF	CrewChg		18:05	18:39	0.6	
Summer	2022-07-13	2005	756596	GLYF	PaxLoc		16:49	17:12	0.4	
Summer	2022-07-13	2005	756596	GLYF	Core	Yes	6:08	7:39	0.6	
Summer	2022-07-13	2005	756596	GLYF	Fuel	Yes	6:08	7:39	0.4	
Summer	2022-07-13	2005	756596	GLYF	CrewChg		6:08	7:39	0.5	
Summer	2022-07-13	2012	710209	FLRH	PaxLoc		16:33	17:10	0.6	
Summer	2022-07-13	2012	710209	FLRH	PaxLoc		7:08	7:24	0.3	
Summer	2022-07-13	2012	710209	FLRH	PaxLoc		15:51	15:58	0.1	
Summer	2022-07-13	2012	710209	FLRH	PaxLoc		13:15	13:24	0.2	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-07-13	2012	710209	FLRH	PaxLoc		10:37	10:52	0.3	
Summer	2022-07-13	2012	710209	FLRH	PaxLoc		7:44	7:59	0.3	
Summer	2022-07-13	2012	710209	FLRH	PaxLoc		14:51	15:00	0.2	
Summer	2022-07-13	2012	710209	FLRH	PaxLoc		13:49	13:58	0.2	
Summer	2022-07-14	2004	756597	GLYF	DrillServ	Yes	9:53	10:23	0.5	
Summer	2022-07-14	2004	756597	GLYF	CrewChg		6:39	8:34	0.6	
Summer	2022-07-14	2004	756597	GLYF	Fuel	Yes	6:39	8:34	0.8	
Summer	2022-07-14	2004	756597	GLYF	DrillServ	Yes	13:45	14:41	0.9	
Summer	2022-07-14	2004	756597	GLYF	CrewChg		17:53	18:32	0.7	
Summer	2022-07-14	2004	756597	GLYF	Core	Yes	6:39	8:34	0.5	
Summer	2022-07-14	2013	710210	FLRH	LocSng	Yes	7:13	7:59	0.1	
Summer	2022-07-14	2013	710210	FLRH	Reposition	Yes	13:23	13:32	0.2	
Summer	2022-07-14	2013	710210	FLRH	PaxLoc		13:38	13:48	0.2	
Summer	2022-07-14	2013	710210	FLRH	PaxLoc		7:13	7:59	0.4	
Summer	2022-07-14	2013	710210	FLRH	PaxLoc		14:47	15:03	0.3	
Summer	2022-07-14	2013	710210	FLRH	PaxLoc		12:43	12:52	0.2	
Summer	2022-07-14	2013	710210	FLRH	Reposition	Yes	8:13	8:18	0.1	
Summer	2022-07-14	2013	710210	FLRH	PaxLoc		7:13	7:59	0.3	
Summer	2022-07-15	2014	756598	GLYF	Floor	Yes	11:31	12:41	0.5	
Summer	2022-07-15	2014	756598	GLYF	Move	Yes	9:03	11:06	1.6	
Summer	2022-07-15	2014	756598	GLYF	CrewChg		5:55	6:32	0.6	
Summer	2022-07-15	2014	756598	GLYF	DrillServ	Yes	7:17	8:11	0.1	
Summer	2022-07-15	2014	756598	GLYF	Fuel	Yes	7:17	8:11	0.8	
Summer	2022-07-15	2014	756598	GLYF	PaxLoc		8:24	8:36	0.2	
Summer	2022-07-15	2014	756598	GLYF	PaxLoc		9:03	11:06	0.3	
Summer	2022-07-15	2014	756598	GLYF	DrillServ	Yes	9:03	11:06	0.2	
Summer	2022-07-15	2014	756598	GLYF	DrillServ	Yes	11:31	12:41	0.4	
Summer	2022-07-15	2014	756598	GLYF	Move	Yes	11:31	12:41	0.3	
Summer	2022-07-15	2014	756598	GLYF	PaxLoc		14:12	14:33	0.4	
Summer	2022-07-15	2014	756598	GLYF	CrewChg		17:55	18:30	0.6	
Summer	2022-07-15	2014	756598	GLYF	Fuel	Yes	16:55	17:24	0.5	
Summer	2022-07-15	2003	710211	FLRH	PaxLoc		11:03	11:20	0.3	
Summer	2022-07-15	2003	710211	FLRH	PaxLoc		6:56	7:29	0.3	
Summer	2022-07-15	2003	710211	FLRH	PaxLoc		16:06	16:20	0.2	
Summer	2022-07-15	2003	710211	FLRH	PaxLoc		6:56	7:29	0.3	
Summer	2022-07-15	2003	710211	FLRH	Reposition	Yes	8:43	8:51	0.1	
Summer	2022-07-15	2003	710211	FLRH	PaxLoc		15:44	15:58	0.2	
Summer	2022-07-15	2003	710211	FLRH	PaxLoc		10:05	10:18	0.2	
Summer	2022-07-16	2016	756599	GLYF	Core	Yes	6:03	8:13	0.5	
Summer	2022-07-16	2016	756599	GLYF	Core	Yes	17:10	17:39	0.5	
Summer	2022-07-16	2016	756599	GLYF	PaxLoc		16:12	16:28	0.3	
Summer	2022-07-16	2016	756599	GLYF	PaxLoc		15:26	15:45	0.3	
Summer	2022-07-16	2016	756599	GLYF	CrewChg		17:54	18:33	0.7	
Summer	2022-07-16	2016	756599	GLYF	Fuel	Yes	6:03	8:13	0.5	
Summer	2022-07-16	2016	756599	GLYF	DrillServ	Yes	6:03	8:13	0.4	
Summer	2022-07-16	2016	756599	GLYF	CrewChg		6:03	8:13	0.8	
Summer	2022-07-16	2002	710212	FLRH	PaxLoc		7:09	7:48	0.7	
Summer	2022-07-16	2002	710212	FLRH	PaxLoc		9:20	9:42	0.4	
Summer	2022-07-16	2002	710212	FLRH	PaxLoc		17:04	17:18	0.2	
Summer	2022-07-16	2002	710212	FLRH	PaxLoc		15:28	15:44	0.3	
Summer	2022-07-16	2002	710212	FLRH	PaxLoc		10:12	10:30	0.3	
Summer	2022-07-16	2002	710212	FLRH	PaxLoc		8:38	8:50	0.2	
Summer	2022-07-16	2016	756599	GLYF	PaxLoc		9:19	9:35	0.3	
Summer	2022-07-16	2016	756599	GLYF	PaxLoc		11:16	11:27	0.2	
Summer	2022-07-17	2017	756600	GLYF	PaxLoc		7:23	7:36	0.2	
Summer	2022-07-17	2017	756600	GLYF	Core	Yes	8:00	9:53	0.2	
Summer	2022-07-17	2017	756600	GLYF	DrillServ	Yes	8:00	9:53	0.1	
Summer	2022-07-17	2017	756600	GLYF	Floor	Yes	8:00	9:53	0.2	
Summer	2022-07-17	2017	756600	GLYF	CrewChg		6:00	7:04	0.6	
Summer	2022-07-17	2017	756600	GLYF	CrewChg		18:12	18:47	0.6	
Summer	2022-07-17	2017	756600	GLYF	Floor	Yes	10:19	10:47	0.5	
Summer	2022-07-17	2017	756600	GLYF	PaxLoc		11:47	11:59	0.2	
Summer	2022-07-17	2017	756600	GLYF	Fuel	Yes	6:00	7:04	0.5	
Summer	2022-07-17	2017	756600	GLYF	PaxLoc		12:15	12:29	0.2	
Summer	2022-07-17	2017	756600	GLYF	Move	Yes	8:00	9:53	1.4	
Summer	2022-07-17	2017	756600	GLYF	DrillServ	Yes	14:33	15:17	0.5	
Summer	2022-07-17	2017	756600	GLYF	Core	Yes	17:03	17:43	0.5	
Summer	2022-07-17	2017	756600	GLYF	PaxLoc		17:03	17:43	0.2	
Summer	2022-07-17	2017	756600	GLYF	PaxLoc		14:33	15:17	0.2	
Summer	2022-07-17	2017	756600	GLYF	PaxLoc		14:15	14:25	0.2	
Summer	2022-07-17	2017	756600	GLYF	PaxLoc		13:57	14:08	0.2	
Summer	2022-07-17	2020	710213	FLRH	LocSng	Yes	12:42	13:03	0.4	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		15:07	15:13	0.1	
Summer	2022-07-17	2020	710213	FLRH	Reposition	Yes	12:21	12:27	0.1	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		13:08	13:23	0.2	
Summer	2022-07-17	2020	710213	FLRH	Reposition	Yes	14:34	14:56	0.1	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		12:05	12:11	0.1	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		9:49	10:23	0.3	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		16:15	16:41	0.2	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		15:30	15:50	0.2	
Summer	2022-07-17	2020	710213	FLRH	Reposition	Yes	13:08	13:23	0.1	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		9:49	10:23	0.3	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		10:43	11:08	0.4	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		15:30	15:50	0.1	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		16:15	16:41	0.2	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		14:34	14:56	0.3	
Summer	2022-07-17	2020	710213	FLRH	PaxLoc		16:56	17:12	0.3	
Summer	2022-07-18	2018	756601	GLYF	PaxLoc		10:25	10:46	0.4	
Summer	2022-07-18	2018	756601	GLYF	PaxLoc		9:56	10:10	0.2	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-07-18	2018	756601	GLYF	DrillServ	Yes	16:56	17:43	0.4	
Summer	2022-07-18	2018	756601	GLYF	Core	Yes	16:56	17:43	0.4	
Summer	2022-07-18	2018	756601	GLYF	DrillServ	Yes	11:28	13:00	1.3	
Summer	2022-07-18	2018	756601	GLYF	CrewChg		17:56	18:55	0.6	
Summer	2022-07-18	2018	756601	GLYF	DrillServ	Yes	17:56	18:55	0.4	
Summer	2022-07-18	2018	756601	GLYF	CrewChg		5:58	7:58	0.6	
Summer	2022-07-18	2018	756601	GLYF	Core	Yes	5:58	7:58	0.3	
Summer	2022-07-18	2018	756601	GLYF	Fuel	Yes	5:58	7:58	1.1	
Summer	2022-07-18	2018	756601	GLYF	PaxLoc		13:18	13:40	0.4	
Summer	2022-07-18	2018	756601	GLYF	PaxLoc		8:08	8:29	0.4	
Summer	2022-07-18	2018	756601	GLYF	PaxLoc		11:28	13:00	0.2	
Summer	2022-07-18	2018	756601	GLYF	PaxLoc		14:27	14:45	0.3	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		6:43	7:12	0.3	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		12:23	12:44	0.2	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		13:17	13:21	0.1	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		14:04	14:21	0.2	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		10:55	11:08	0.2	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		12:23	12:44	0.2	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		16:34	16:49	0.3	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		6:43	7:12	0.2	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		14:47	15:01	0.2	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		14:04	14:21	0.1	
Summer	2022-07-18	2021	710214	FLRH	PaxLoc		9:02	9:20	0.3	
Summer	2022-07-19	2019	756602	GLYF	Core	Yes	15:57	16:43	0.4	
Summer	2022-07-19	2019	756602	GLYF	CrewChg		5:57	7:49	0.6	
Summer	2022-07-19	2019	756602	GLYF	CrewChg		17:36	18:12	0.6	
Summer	2022-07-19	2019	756602	GLYF	PaxLoc		15:57	16:43	0.4	
Summer	2022-07-19	2019	756602	GLYF	DrillServ	Yes	13:56	14:31	0.6	
Summer	2022-07-19	2019	756602	GLYF	PaxLoc		9:56	10:40	0.3	
Summer	2022-07-19	2019	756602	GLYF	DrillServ	Yes	9:56	10:40	0.4	
Summer	2022-07-19	2019	756602	GLYF	Fuel	Yes	8:15	8:44	0.5	
Summer	2022-07-19	2019	756602	GLYF	Fuel	Yes	5:57	7:49	1.2	
Summer	2022-07-19	2019	756602	GLYF	DrillServ	Yes	5:57	7:49	0.1	
Summer	2022-07-19	2022	710215	FLRH	PaxLoc		12:18	12:25	0.1	
Summer	2022-07-19	2022	710215	FLRH	PaxLoc		10:01	10:09	0.1	
Summer	2022-07-19	2022	710215	FLRH	PaxLoc		11:16	11:37	0.1	
Summer	2022-07-19	2022	710215	FLRH	PaxLoc		7:07	7:35	0.3	
Summer	2022-07-19	2022	710215	FLRH	PaxLoc		11:16	11:37	0.3	
Summer	2022-07-19	2022	710215	FLRH	PaxLoc		14:44	15:05	0.4	
Summer	2022-07-19	2022	710215	FLRH	PaxLoc		16:24	16:50	0.2	
Summer	2022-07-19	2022	710215	FLRH	PaxLoc		16:24	16:50	0.2	
Summer	2022-07-19	2022	710215	FLRH	PaxLoc		7:07	7:35	0.2	
Summer	2022-07-19	2022	710215	FLRH	NoRevenu	Yes	10:28	10:36	0.1	
Summer	2022-07-20	2024	756603	GLYF	PaxLoc		7:51	9:19	0.5	
Summer	2022-07-20	2024	756603	GLYF	Move	Yes	14:56	15:44	0.5	
Summer	2022-07-20	2024	756603	GLYF	PaxLoc		12:20	13:03	0.3	
Summer	2022-07-20	2024	756603	GLYF	PaxLoc		13:34	13:48	0.2	
Summer	2022-07-20	2024	756603	GLYF	PaxLoc		14:17	14:34	0.3	
Summer	2022-07-20	2024	756603	GLYF	PaxLoc		14:56	15:44	0.1	
Summer	2022-07-20	2024	756603	GLYF	DrillServ	Yes	14:56	15:44	0.2	
Summer	2022-07-20	2024	756603	GLYF	DrillServ	Yes	12:20	13:03	0.4	
Summer	2022-07-20	2024	756603	GLYF	PaxLoc		15:57	18:23	0.2	
Summer	2022-07-20	2024	756603	GLYF	Fuel	Yes	7:51	9:19	0.3	
Summer	2022-07-20	2024	756603	GLYF	CrewChg		15:57	18:23	0.5	
Summer	2022-07-20	2024	756603	GLYF	DrillServ	Yes	7:51	9:19	0.7	
Summer	2022-07-20	2024	756603	GLYF	Core	Yes	5:40	6:38	0.5	
Summer	2022-07-20	2024	756603	GLYF	Fuel	Yes	15:57	18:23	0.2	
Summer	2022-07-20	2024	756603	GLYF	CrewChg		5:40	6:38	0.5	
Summer	2022-07-20	2024	756603	GLYF	Move	Yes	15:57	18:23	1	
Summer	2022-07-20	2024	756603	GLYF	DrillServ	Yes	15:57	18:23	0.5	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		9:55	10:10	0.1	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		10:21	10:40	0.2	
Summer	2022-07-20	2023	710216	FLRH	Wildlife		11:28	12:00	0.2	
Summer	2022-07-20	2023	710216	FLRH	Wildlife		13:30	13:58	0.2	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		14:23	14:31	0.1	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		14:43	14:58	0.3	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		16:26	16:45	0.3	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		6:44	7:00	0.3	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		7:19	7:34	0.3	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		9:55	10:10	0.2	
Summer	2022-07-20	2023	710216	FLRH	LocSng	Yes	15:14	15:41	0.2	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		15:14	15:41	0.3	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		13:30	13:58	0.3	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		11:28	12:00	0.3	
Summer	2022-07-20	2023	710216	FLRH	PaxLoc		10:21	10:40	0.1	
Summer	2022-07-21	2026	756604	GLYF	PaxLoc		12:36	13:17	0.2	
Summer	2022-07-21	2026	756604	GLYF	CrewChg		5:58	6:34	0.6	
Summer	2022-07-21	2026	756604	GLYF	PaxLoc		7:03	7:16	0.2	
Summer	2022-07-21	2026	756604	GLYF	PaxLoc		8:13	9:03	0.2	
Summer	2022-07-21	2026	756604	GLYF	Fuel	Yes	8:13	9:03	0.6	
Summer	2022-07-21	2026	756604	GLYF	DrillServ	Yes	9:23	10:52	0.3	
Summer	2022-07-21	2026	756604	GLYF	Move	Yes	9:23	10:52	1.2	
Summer	2022-07-21	2026	756604	GLYF	Fuel	Yes	11:12	12:18	0.3	
Summer	2022-07-21	2026	756604	GLYF	DrillServ	Yes	11:12	12:18	0.4	
Summer	2022-07-21	2026	756604	GLYF	Move	Yes	12:36	13:17	0.4	
Summer	2022-07-21	2026	756604	GLYF	Move	Yes	12:36	13:17	0.1	
Summer	2022-07-21	2026	756604	GLYF	DrillServ	Yes	14:00	14:12	0.2	
Summer	2022-07-21	2026	756604	GLYF	DrillServ	Yes	15:26	15:49	0.4	
Summer	2022-07-21	2026	756604	GLYF	Core	Yes	16:38	17:12	0.5	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-07-21	2026	756604	GLYF	CrewChg		17:53	18:36	0.7	
Summer	2022-07-21	2026	756604	GLYF	Move	Yes	11:12	12:18	0.4	
Summer	2022-07-21	2026	756604	GLYF	PaxLoc		16:38	17:12	0.1	
Summer	2022-07-21	2026	756604	GLYF	PaxLoc		14:31	14:44	0.2	
Summer	2022-07-21	2026	756604	GLYF	PaxLoc		17:23	17:32	0.2	
Summer	2022-07-21	2025	710217	FLRH	PaxLoc		10:53	10:59	0.1	
Summer	2022-07-21	2025	710217	FLRH	PaxLoc		14:56	15:11	0.3	
Summer	2022-07-21	2025	710217	FLRH	PaxLoc		16:34	17:11	0.3	
Summer	2022-07-21	2025	710217	FLRH	PaxLoc		14:01	14:34	0.6	
Summer	2022-07-21	2025	710217	FLRH	PaxLoc		15:37	15:48	0.2	
Summer	2022-07-21	2025	710217	FLRH	PaxLoc		16:34	17:11	0.1	
Summer	2022-07-21	2025	710217	FLRH	PaxLoc		6:44	7:10	0.1	
Summer	2022-07-21	2025	710217	FLRH	PaxLoc		6:44	7:10	0.3	
Summer	2022-07-21	2025	710217	FLRH	PaxLoc		16:34	17:11	0.2	
Summer	2022-07-21	2025	710217	FLRH	PaxLoc		8:10	8:21	0.2	
Summer	2022-07-22	2032	756605	GLYF	CrewChg		5:59	6:33	0.6	
Summer	2022-07-22	2032	756605	GLYF	DrillServ	Yes	7:18	8:47	0.4	
Summer	2022-07-22	2032	756605	GLYF	Fuel	Yes	7:18	8:47	1.1	
Summer	2022-07-22	2032	756605	GLYF	PaxLoc		10:01	10:14	0.2	
Summer	2022-07-22	2032	756605	GLYF	DrillServ	Yes	11:34	11:53	0.2	
Summer	2022-07-22	2032	756605	GLYF	PaxLoc		14:32	15:01	0.5	
Summer	2022-07-22	2032	756605	GLYF	PaxLoc		11:34	11:53	0.1	
Summer	2022-07-22	2032	756605	GLYF	PaxLoc		17:01	17:13	0.2	
Summer	2022-07-22	2032	756605	GLYF	PaxLoc		11:57	12:20	0.4	
Summer	2022-07-22	2032	756605	GLYF	Core	Yes	17:18	17:35	0.3	
Summer	2022-07-22	2032	756605	GLYF	CrewChg		17:48	18:25	0.6	
Summer	2022-07-22	2032	756605	GLYF	PaxLoc		14:09	14:18	0.2	
Summer	2022-07-22	2032	756605	GLYF	PaxLoc		13:55	14:04	0.2	
Summer	2022-07-22	2032	756605	GLYF	Reposition	Yes	11:18	11:27	0.2	
Summer	2022-07-22	2032	756605	GLYF	PaxLoc		11:03	11:13	0.2	
Summer	2022-07-22	2032	756605	GLYF	PaxLoc		10:35	10:47	0.2	
Summer	2022-07-22	2030	710218	FLRH	PaxLoc		15:55	16:40	0.1	
Summer	2022-07-22	2030	710218	FLRH	PaxLoc		6:46	7:03	0.3	
Summer	2022-07-22	2030	710218	FLRH	PaxLoc		15:55	16:40	0.3	
Summer	2022-07-22	2030	710218	FLRH	PaxLoc		12:51	13:03	0.2	
Summer	2022-07-22	2030	710218	FLRH	PaxLoc		9:20	9:39	0.3	
Summer	2022-07-22	2030	710218	FLRH	LocSing	Yes	7:23	8:11	0.2	
Summer	2022-07-22	2030	710218	FLRH	PaxLoc		7:23	8:11	0.6	
Summer	2022-07-22	2030	710218	FLRH	PaxLoc		8:27	8:47	0.3	
Summer	2022-07-22	2030	710218	FLRH	PaxLoc		15:55	16:40	0.4	
Summer	2022-07-23	2034	756606	GLYF	DrillServ	Yes	5:54	7:17	0.4	
Summer	2022-07-23	2034	756606	GLYF	Core	Yes	10:30	11:23	0.3	
Summer	2022-07-23	2034	756606	GLYF	DrillServ	Yes	10:30	11:23	0.6	
Summer	2022-07-23	2034	756606	GLYF	PaxLoc		9:22	9:34	0.2	
Summer	2022-07-23	2034	756606	GLYF	CrewChg		17:54	18:58	0.6	
Summer	2022-07-23	2034	756606	GLYF	Fuel	Yes	5:54	7:17	0.4	
Summer	2022-07-23	2034	756606	GLYF	CrewChg		5:54	7:17	0.6	
Summer	2022-07-23	2034	756606	GLYF	PaxLoc		10:05	10:16	0.2	
Summer	2022-07-23	2034	756606	GLYF	DrillServ	Yes	17:54	18:58	0.3	
Summer	2022-07-23	2034	756606	GLYF	Core	Yes	17:54	18:58	0.2	
Summer	2022-07-23	2034	756606	GLYF	DrillServ	Yes	15:39	16:34	0.5	
Summer	2022-07-23	2034	756606	GLYF	PaxLoc		15:39	16:34	0.2	
Summer	2022-07-23	2034	756606	GLYF	PaxLoc		12:58	13:16	0.3	
Summer	2022-07-23	2034	756606	GLYF	PaxLoc		15:39	16:34	0.2	
Summer	2022-07-23	2033	710219	FLRH	PaxLoc		12:10	12:35	0.2	
Summer	2022-07-23	2033	710219	FLRH	Reposition	Yes	12:10	12:35	0.2	
Summer	2022-07-23	2033	710219	FLRH	PaxLoc		16:10	16:47	0.2	
Summer	2022-07-23	2033	710219	FLRH	PaxLoc		6:56	7:04	0.1	
Summer	2022-07-23	2033	710219	FLRH	PaxLoc		16:10	16:47	0.2	
Summer	2022-07-23	2033	710219	FLRH	PaxLoc		12:46	12:54	0.1	
Summer	2022-07-23	2033	710219	FLRH	PaxLoc		13:37	13:57	0.2	
Summer	2022-07-23	2033	710219	FLRH	LocSing	Yes	13:37	13:57	0.1	
Summer	2022-07-23	2033	710219	FLRH	PaxLoc		7:16	7:28	0.2	
Summer	2022-07-23	2033	710219	FLRH	LocSing	Yes	7:42	7:51	0.2	
Summer	2022-07-23	2033	710219	FLRH	PaxLoc		16:10	16:47	0.2	
Summer	2022-07-23	2033	710219	FLRH	PaxLoc		9:24	9:36	0.2	
Summer	2022-07-24	2036	756607	GLYF	PaxLoc		16:20	16:40	0.3	
Summer	2022-07-24	2036	756607	GLYF	PaxLoc		13:37	13:54	0.3	
Summer	2022-07-24	2036	756607	GLYF	DrillServ	Yes	8:22	9:14	0.6	
Summer	2022-07-24	2036	756607	GLYF	Core	Yes	8:22	9:14	0.3	
Summer	2022-07-24	2036	756607	GLYF	DrillServ	Yes	5:51	8:03	0.8	
Summer	2022-07-24	2036	756607	GLYF	Fuel	Yes	5:51	8:03	0.8	
Summer	2022-07-24	2036	756607	GLYF	Core	Yes	15:49	16:10	0.4	
Summer	2022-07-24	2036	756607	GLYF	Floor	Yes	16:47	17:10	0.4	
Summer	2022-07-24	2036	756607	GLYF	PaxLoc		17:22	17:34	0.2	
Summer	2022-07-24	2036	756607	GLYF	CrewChg		17:51	18:26	0.6	
Summer	2022-07-24	2036	756607	GLYF	Floor	Yes	14:03	14:38	0.6	
Summer	2022-07-24	2036	756607	GLYF	CrewChg		5:51	8:03	0.6	
Summer	2022-07-24	2035	710220	FLRH	PaxLoc		6:48	7:00	0.2	
Summer	2022-07-24	2035	710220	FLRH	PaxLoc		13:40	13:57	0.3	
Summer	2022-07-24	2035	710220	FLRH	PaxLoc		16:38	16:48	0.2	
Summer	2022-07-24	2035	710220	FLRH	LocSing	Yes	15:14	16:06	0.2	
Summer	2022-07-24	2035	710220	FLRH	PaxLoc		7:20	7:31	0.2	
Summer	2022-07-24	2035	710220	FLRH	PaxLoc		15:14	16:06	0.3	
Summer	2022-07-24	2035	710220	FLRH	PaxLoc		15:14	16:06	0.4	
Summer	2022-07-24	2035	710220	FLRH	PaxLoc		11:31	11:48	0.3	
Summer	2022-07-25	2039	756608	GLYF	Fuel	Yes	6:02	7:33	0.4	
Summer	2022-07-25	2039	756608	GLYF	CrewChg		17:55	18:53	0.6	
Summer	2022-07-25	2039	756608	GLYF	CrewChg		6:02	7:33	0.6	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-07-25	2039	756608	GLYF	PaxLoc		17:55	18:53	0.4	
Summer	2022-07-25	2039	756608	GLYF	Core	Yes	6:02	7:33	0.3	
Summer	2022-07-25	2039	756608	GLYF	Move	Yes	15:46	17:45	1.4	
Summer	2022-07-25	2039	756608	GLYF	DrillServ	Yes	15:46	17:45	0.6	
Summer	2022-07-25	2039	756608	GLYF	Move	Yes	14:04	15:32	1.1	
Summer	2022-07-25	2039	756608	GLYF	PaxLoc		14:04	15:32	0.1	
Summer	2022-07-25	2039	756608	GLYF	DrillServ	Yes	13:29	13:45	0.3	
Summer	2022-07-25	2039	756608	GLYF	PaxLoc		11:18	11:41	0.4	
Summer	2022-07-25	2039	756608	GLYF	DrillServ	Yes	7:49	9:40	1.1	
Summer	2022-07-25	2039	756608	GLYF	Fuel	Yes	7:49	9:40	0.8	
Summer	2022-07-25	2039	756608	GLYF	DrillServ	Yes	6:02	7:33	0.2	
Summer	2022-07-25	2039	756608	GLYF	DrillServ	Yes	14:04	15:32	0.3	
Summer	2022-07-25	2037	34940	FLRH	PaxLoc		11:25	11:46	0.4	
Summer	2022-07-25	2037	34940	FLRH	PaxLoc		15:57	16:32	0.2	
Summer	2022-07-25	2038	710221	FLRH	PaxLoc		6:45	6:55	0.2	
Summer	2022-07-25	2038	710221	FLRH	PaxLoc		9:07	9:19	0.2	
Summer	2022-07-25	2038	710221	FLRH	Reposition	Yes	9:39	9:49	0.2	
Summer	2022-07-25	2037	34940	FLRH	PaxLoc		15:57	16:32	0.4	
Summer	2022-07-26	2041	756609	GLYF	PaxLoc		7:30	8:06	0.3	
Summer	2022-07-26	2041	756609	GLYF	CrewChg		18:01	18:35	0.6	
Summer	2022-07-26	2041	756609	GLYF	PaxLoc		13:57	14:10	0.2	
Summer	2022-07-26	2041	756609	GLYF	DrillServ	Yes	10:54	11:53	0.2	
Summer	2022-07-26	2041	756609	GLYF	Move	Yes	10:54	11:53	0.8	
Summer	2022-07-26	2041	756609	GLYF	Move	Yes	9:47	10:33	0.8	
Summer	2022-07-26	2041	756609	GLYF	CrewChg		5:52	6:26	0.6	
Summer	2022-07-26	2041	756609	GLYF	DrillServ	Yes	8:18	8:46	0.5	
Summer	2022-07-26	2041	756609	GLYF	DrillServ	Yes	7:30	8:06	0.3	
Summer	2022-07-26	2041	756609	GLYF	PaxLoc		9:00	9:11	0.2	
Summer	2022-07-26	2040	34941	FLRH	PaxLoc		9:37	10:03	0.2	
Summer	2022-07-26	2040	34941	FLRH	PaxLoc		6:46	6:56	0.2	
Summer	2022-07-26	2040	34941	FLRH	PaxLoc		12:07	12:25	0.3	
Summer	2022-07-26	2040	34941	FLRH	PaxLoc		15:53	16:31	0.2	
Summer	2022-07-26	2040	34941	FLRH	PaxLoc		15:53	16:31	0.4	
Summer	2022-07-26	2040	34941	FLRH	PaxLoc		9:37	10:03	0.2	
Summer	2022-07-27	2043	756610	GLYF	CrewChg		17:53	18:21	0.5	
Summer	2022-07-27	2043	756610	GLYF	Fuel	Yes	5:58	7:04	0.2	
Summer	2022-07-27	2043	756610	GLYF	Core	Yes	5:58	7:04	0.3	
Summer	2022-07-27	2043	756610	GLYF	Medevac		7:35	7:47	0.2	
Summer	2022-07-27	2043	756610	GLYF	Medevac		7:56	8:07	0.2	
Summer	2022-07-27	2043	756610	GLYF	DrillServ	Yes	11:03	11:59	0.7	
Summer	2022-07-27	2043	756610	GLYF	Fuel	Yes	11:03	11:59	0.2	
Summer	2022-07-27	2043	756610	GLYF	DrillServ	Yes	14:04	15:10	1.1	
Summer	2022-07-27	2043	756610	GLYF	CrewChg		5:58	7:04	0.6	
Summer	2022-07-27	2043	756610	GLYF	DrillServ	Yes	12:34	13:50	1.3	
Summer	2022-07-27	2042	34942	FLRH	PaxLoc		14:07	14:16	0.2	
Summer	2022-07-27	2042	34942	FLRH	PaxLoc		13:15	13:24	0.2	
Summer	2022-07-27	2042	34942	FLRH	PaxLoc		15:52	16:13	0.4	
Summer	2022-07-27	2042	34942	FLRH	Reposition	Yes	9:51	9:55	0.1	
Summer	2022-07-27	2042	34942	FLRH	PaxLoc		9:26	9:42	0.3	
Summer	2022-07-28	2045	756611	GLYF	PaxLoc		11:41	12:53	0.2	
Summer	2022-07-28	2045	756611	GLYF	PaxLoc		16:56	17:25	0.5	
Summer	2022-07-28	2045	756611	GLYF	PaxLoc		14:52	15:18	0.4	
Summer	2022-07-28	2045	756611	GLYF	Floor	Yes	11:41	12:53	0.5	
Summer	2022-07-28	2045	756611	GLYF	DrillServ	Yes	11:41	12:53	0.2	
Summer	2022-07-28	2045	756611	GLYF	CrewChg		17:58	18:29	0.5	
Summer	2022-07-28	2045	756611	GLYF	Floor	Yes	9:59	10:30	0.5	
Summer	2022-07-28	2045	756611	GLYF	PaxLoc		8:35	8:48	0.2	
Summer	2022-07-28	2045	756611	GLYF	Fuel	Yes	6:05	7:04	0.5	
Summer	2022-07-28	2045	756611	GLYF	CrewChg		6:05	7:04	0.5	
Summer	2022-07-28	2045	756611	GLYF	Core	Yes	11:41	12:53	0.3	
Summer	2022-07-28	2044	34943	FLRH	PaxLoc		15:53	16:17	0.4	
Summer	2022-07-28	2044	34943	FLRH	PaxLoc		8:26	8:45	0.3	
Summer	2022-07-28	2044	34943	FLRH	Reposition	Yes	16:28	16:31	0.1	
Summer	2022-07-29	2047	756612	GLYF	PaxLoc		7:26	7:38	0.2	
Summer	2022-07-29	2047	756612	GLYF	PaxLoc		11:23	11:35	0.2	
Summer	2022-07-29	2047	756612	GLYF	Move	Yes	10:34	11:13	0.7	
Summer	2022-07-29	2047	756612	GLYF	DrillServ	Yes	10:07	10:29	0.1	
Summer	2022-07-29	2047	756612	GLYF	Fuel	Yes	10:07	10:29	0.3	
Summer	2022-07-29	2047	756612	GLYF	Move	Yes	7:55	9:45	1.1	
Summer	2022-07-29	2047	756612	GLYF	Core	Yes	7:55	9:45	0.2	
Summer	2022-07-29	2047	756612	GLYF	DrillServ	Yes	7:55	9:45	0.5	
Summer	2022-07-29	2047	756612	GLYF	DrillServ	Yes	6:05	7:08	0.5	
Summer	2022-07-29	2047	756612	GLYF	CrewChg		6:05	7:08	0.6	
Summer	2022-07-29	2046	34944	FLRH	CrewChg		18:01	18:34	0.6	
Summer	2022-07-29	2046	34944	FLRH	Fuel	Yes	16:27	16:52	0.2	
Summer	2022-07-29	2046	34944	FLRH	DrillServ	Yes	16:27	16:52	0.2	
Summer	2022-07-29	2046	34944	FLRH	PaxLoc		15:52	16:01	0.2	
Summer	2022-07-29	2046	34944	FLRH	Pax		12:41	13:00	0.3	
Summer	2022-07-29	2046	34944	FLRH	PaxLoc		14:08	14:20	0.2	
Summer	2022-07-29	2047	756612	GLYF	Pax		13:17	13:35	0.3	
Summer	2022-07-29	2047	756612	GLYF	PaxLoc		15:34	17:00	1.4	
Summer	2022-07-29	2046	34944	FLRH	PaxLoc		10:42	10:58	0.3	
Summer	2022-07-30	2048	34945	FLRH	DrillServ	Yes	16:01	17:09	0.5	
Summer	2022-07-30	2048	34945	FLRH	CrewChg		17:57	18:50	0.6	
Summer	2022-07-30	2048	34945	FLRH	DrillServ	Yes	17:57	18:50	0.3	
Summer	2022-07-30	2048	34945	FLRH	Fuel	Yes	16:01	17:09	0.4	
Summer	2022-07-30	2048	34945	FLRH	Floor	Yes	13:05	14:55	1.6	
Summer	2022-07-30	2048	34945	FLRH	CrewChg		5:53	6:27	0.6	
Summer	2022-07-30	2048	34945	FLRH	PaxLoc		13:05	14:55	0.2	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-07-30	2048	34945	FLRH	Core	Yes	16:01	17:09	0.2	
Summer	2022-07-31	2049	34946	FLRH	DrillServ	Yes	10:43	11:51	0.4	
Summer	2022-07-31	2049	34946	FLRH	CrewChg		17:55	18:28	0.6	
Summer	2022-07-31	2049	34946	FLRH	PaxLoc		14:42	15:29	0.4	
Summer	2022-07-31	2049	34946	FLRH	Core	Yes	14:42	15:29	0.2	
Summer	2022-07-31	2049	34946	FLRH	DrillServ	Yes	14:42	15:29	0.2	
Summer	2022-07-31	2049	34946	FLRH	Fuel	Yes	12:07	12:53	0.5	
Summer	2022-07-31	2049	34946	FLRH	Fuel	Yes	10:43	11:51	0.7	
Summer	2022-07-31	2049	34946	FLRH	PaxLoc		9:22	9:31	0.2	
Summer	2022-07-31	2049	34946	FLRH	PaxLoc		8:49	9:00	0.2	
Summer	2022-07-31	2049	34946	FLRH	Move	Yes	8:13	8:34	0.4	
Summer	2022-07-31	2049	34946	FLRH	PaxLoc		7:04	7:16	0.2	
Summer	2022-07-31	2049	34946	FLRH	CrewChg		5:59	6:36	0.6	
Summer	2022-07-31	2049	34946	FLRH	DrillServ	Yes	12:07	12:53	0.3	
Summer	2022-08-01	2072	756615	GLYF	LocSling	Yes	9:22	10:09	0.8	
Summer	2022-08-01	2072	756615	GLYF	PaxLoc		7:46	8:53	1.1	
Summer	2022-08-01	2072	756615	GLYF	LocSling	Yes	10:26	12:42	2	
Summer	2022-08-01	2072	756615	GLYF	LocSling	Yes	13:04	13:53	0.8	
Summer	2022-08-01	2072	756615	GLYF	LocSling	Yes	14:33	15:27	0.9	
Summer	2022-08-01	2072	756615	GLYF	PaxLoc		15:50	17:11	1.4	
Summer	2022-08-01	2052	34947	FLRH	Core	Yes	14:18	15:31	0.2	
Summer	2022-08-01	2052	34947	FLRH	Fuel	Yes	14:18	15:31	0.7	
Summer	2022-08-01	2052	34947	FLRH	CrewChg		18:02	18:37	0.6	
Summer	2022-08-01	2052	34947	FLRH	Fuel	Yes	11:53	12:18	0.2	
Summer	2022-08-01	2052	34947	FLRH	DrillServ	Yes	11:53	12:18	0.2	
Summer	2022-08-01	2052	34947	FLRH	CrewChg		6:03	6:38	0.6	
Summer	2022-08-01	2052	34947	FLRH	DrillServ	Yes	14:18	15:31	0.3	
Summer	2022-08-01	2072	756615	GLYF	PaxLoc		6:55	7:17	0.4	
Summer	2022-08-02	2073	687001	GLYF	PaxLoc		17:17	17:57	0.7	
Summer	2022-08-02	2073	687001	GLYF	PaxLoc		15:58	16:38	0.7	
Summer	2022-08-02	2053	34948	FLRH	DrillServ	Yes	10:56	11:23	0.1	
Summer	2022-08-02	2053	34948	FLRH	Fuel	Yes	10:56	11:23	0.4	
Summer	2022-08-02	2053	34948	FLRH	PaxLoc		15:05	15:15	0.2	
Summer	2022-08-02	2053	34948	FLRH	PaxLoc		16:15	16:26	0.2	
Summer	2022-08-02	2053	34948	FLRH	DrillServ	Yes	17:06	17:30	0.4	
Summer	2022-08-02	2053	34948	FLRH	CrewChg		17:59	19:14	0.9	
Summer	2022-08-02	2053	34948	FLRH	Fuel	Yes	17:59	19:14	0.4	
Summer	2022-08-02	2053	34948	FLRH	CrewChg		6:06	6:38	0.5	
Summer	2022-08-03	2054	34949	FLRH	CrewChg		5:54	6:14	0.3	
Summer	2022-08-03	2054	34949	FLRH	Floor	Yes	17:48	19:05	0.6	
Summer	2022-08-03	2054	34949	FLRH	CrewChg		17:48	19:05	0.3	
Summer	2022-08-03	2054	34949	FLRH	DrillServ	Yes	17:48	19:05	0.4	
Summer	2022-08-03	2054	34949	FLRH	PaxLoc		14:33	14:51	0.3	
Summer	2022-08-03	2054	34949	FLRH	PaxLoc		13:45	13:57	0.2	
Summer	2022-08-03	2054	34949	FLRH	PaxLoc		8:40	8:58	0.3	
Summer	2022-08-03	2054	34949	FLRH	PaxLoc		9:37	9:47	0.2	
Summer	2022-08-04	2055	34950	FLRH	CrewChg		5:46	6:09	0.4	
Summer	2022-08-04	2055	34950	FLRH	Fuel	Yes	7:32	8:37	0.3	
Summer	2022-08-04	2055	34950	FLRH	DrillServ	Yes	7:32	8:37	0.8	
Summer	2022-08-04	2055	34950	FLRH	CrewChg		17:51	18:15	0.4	
Summer	2022-08-04	2055	34950	FLRH	Fuel	Yes	8:49	9:50	0.7	
Summer	2022-08-04	2055	34950	FLRH	DrillServ	Yes	8:49	9:50	0.3	
Summer	2022-08-05	2056	34951	FLRH	Core	Yes	13:11	13:36	0.2	
Summer	2022-08-05	2056	34951	FLRH	CrewChg		17:24	18:17	0.5	
Summer	2022-08-05	2056	34951	FLRH	DrillServ	Yes	17:24	18:17	0.4	
Summer	2022-08-05	2056	34951	FLRH	PaxLoc		15:29	15:46	0.3	
Summer	2022-08-05	2056	34951	FLRH	DrillServ	Yes	6:45	7:09	0.4	
Summer	2022-08-05	2056	34951	FLRH	CrewChg		5:49	6:15	0.4	
Summer	2022-08-05	2056	34951	FLRH	PaxLoc		13:11	13:36	0.2	
Summer	2022-08-06	2057	34952	FLRH	Core	Yes	17:13	17:34	0.4	
Summer	2022-08-06	2057	34952	FLRH	CrewChg		17:56	18:31	0.6	
Summer	2022-08-06	2057	34952	FLRH	PaxLoc		16:05	16:23	0.3	
Summer	2022-08-06	2057	34952	FLRH	PaxLoc		11:09	11:26	0.3	
Summer	2022-08-06	2057	34952	FLRH	DrillServ	Yes	10:11	10:23	0.2	
Summer	2022-08-06	2057	34952	FLRH	PaxLoc		9:20	9:29	0.2	
Summer	2022-08-06	2057	34952	FLRH	Core	Yes	6:56	7:21	0.2	
Summer	2022-08-06	2057	34952	FLRH	DrillServ	Yes	6:56	7:21	0.2	
Summer	2022-08-06	2057	34952	FLRH	CrewChg		5:49	6:14	0.4	
Summer	2022-08-06	2057	34952	FLRH	PaxLoc		8:44	8:54	0.2	
Summer	2022-08-07	2059	34953	FLRH	PaxLoc		14:47	14:58	0.2	
Summer	2022-08-07	2059	34953	FLRH	Fuel	Yes	10:52	11:43	0.3	
Summer	2022-08-07	2059	34953	FLRH	DrillServ	Yes	10:52	11:43	0.3	
Summer	2022-08-07	2059	34953	FLRH	Move	Yes	9:54	10:35	0.5	
Summer	2022-08-07	2059	34953	FLRH	PaxLoc		9:54	10:35	0.2	
Summer	2022-08-07	2059	34953	FLRH	Move	Yes	9:08	9:43	0.6	
Summer	2022-08-07	2059	34953	FLRH	Move	Yes	8:04	8:49	0.8	
Summer	2022-08-07	2059	34953	FLRH	PaxLoc		7:25	7:39	0.2	
Summer	2022-08-07	2059	34953	FLRH	Core	Yes	5:50	6:41	0.2	
Summer	2022-08-07	2059	34953	FLRH	DrillServ	Yes	5:50	6:41	0.2	
Summer	2022-08-07	2059	34953	FLRH	DrillServ	Yes	17:31	18:27	0.4	
Summer	2022-08-07	2059	34953	FLRH	PaxLoc		14:08	14:19	0.2	
Summer	2022-08-07	2059	34953	FLRH	CrewChg		17:31	18:27	0.5	
Summer	2022-08-07	2059	34953	FLRH	Move	Yes	10:52	11:43	0.3	
Summer	2022-08-07	2059	34953	FLRH	CrewChg		5:50	6:41	0.5	
Summer	2022-08-08	2060	34954	FLRH	DrillServ	Yes	17:07	17:30	0.4	
Summer	2022-08-08	2060	34954	FLRH	PaxLoc		9:03	9:17	0.2	
Summer	2022-08-08	2060	34954	FLRH	CrewChg		5:47	6:15	0.5	
Summer	2022-08-08	2060	34954	FLRH	PaxLoc		7:54	8:03	0.2	
Summer	2022-08-08	2058	687007	GLYF	CrewChg		17:49	18:18	0.5	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-08-08	2058	687007	GLYF	PaxLoc		10:59	11:13	0.2	
Summer	2022-08-08	2058	687007	GLYF	PaxLoc		10:29	10:41	0.2	
Summer	2022-08-08	2058	687007	GLYF	Ferry		6:45	8:25	1.7	
Summer	2022-08-09	2062	687008	GLYF	CrewChg		17:57	18:15	0.3	
Summer	2022-08-09	2062	687008	GLYF	Move	Yes	11:43	13:06	1.4	
Summer	2022-08-09	2061	34955	FLRH	Move	Yes	12:56	14:46	1.5	
Summer	2022-08-09	2061	34955	FLRH	PaxLoc		15:03	16:29	0.3	
Summer	2022-08-09	2061	34955	FLRH	PaxLoc		16:43	16:52	0.2	
Summer	2022-08-09	2061	34955	FLRH	CrewChg		17:57	18:21	0.4	
Summer	2022-08-09	2062	687008	GLYF	CrewChg		5:48	6:19	0.5	
Summer	2022-08-09	2062	687008	GLYF	PaxLoc		7:28	7:37	0.2	
Summer	2022-08-09	2062	687008	GLYF	PaxLoc		8:02	8:41	0.2	
Summer	2022-08-09	2062	687008	GLYF	Move	Yes	8:02	8:41	0.5	
Summer	2022-08-09	2061	34955	FLRH	PaxLoc		12:56	14:46	0.3	
Summer	2022-08-09	2062	687008	GLYF	Move	Yes	10:42	11:08	0.4	
Summer	2022-08-09	2061	34955	FLRH	Move	Yes	15:03	16:29	1.1	
Summer	2022-08-09	2062	687008	GLYF	Move	Yes	13:17	14:34	1.3	
Summer	2022-08-09	2062	687008	GLYF	Move	Yes	14:42	16:16	1.6	
Summer	2022-08-09	2062	687008	GLYF	Move	Yes	16:27	16:40	0.2	
Summer	2022-08-09	2062	687008	GLYF	Fuel	Yes	17:01	17:28	0.5	
Summer	2022-08-09	2062	687008	GLYF	Move	Yes	9:13	10:24	1.2	
Summer	2022-08-09	2061	34955	FLRH	Move	Yes	8:00	8:21	0.4	
Summer	2022-08-09	2061	34955	FLRH	Fuel	Yes	17:14	17:36	0.4	
Summer	2022-08-09	2061	34955	FLRH	Move	Yes	11:35	12:39	1	
Summer	2022-08-09	2061	34955	FLRH	PaxLoc		7:26	7:35	0.2	
Summer	2022-08-09	2061	34955	FLRH	Move	Yes	8:35	9:58	1.4	
Summer	2022-08-09	2061	34955	FLRH	PaxLoc		10:15	11:08	0.1	
Summer	2022-08-09	2061	34955	FLRH	Move	Yes	10:15	11:08	0.8	
Summer	2022-08-09	2061	34955	FLRH	PaxLoc		11:35	12:39	0.1	
Summer	2022-08-10	2064	687009	GLYF	CrewChg		17:47	18:10	0.4	
Summer	2022-08-10	2064	687009	GLYF	DrillServ	Yes	5:50	6:41	0.2	
Summer	2022-08-10	2064	687009	GLYF	CrewChg		5:50	6:41	0.3	
Summer	2022-08-10	2063	34956	FLRH	PaxLoc		14:04	14:24	0.1	
Summer	2022-08-10	2063	34956	FLRH	DrillServ	Yes	5:49	6:44	0.1	
Summer	2022-08-10	2063	34956	FLRH	PaxLoc		15:41	15:53	0.2	
Summer	2022-08-10	2063	34956	FLRH	PaxLoc		14:04	14:24	0.2	
Summer	2022-08-10	2063	34956	FLRH	Core	Yes	5:49	6:44	0.3	
Summer	2022-08-10	2063	34956	FLRH	CrewChg		5:49	6:44	0.5	
Summer	2022-08-10	2064	687009	GLYF	Fuel	Yes	5:50	6:41	0.4	
Summer	2022-08-10	2063	34956	FLRH	CrewChg		17:49	18:14	0.4	
Summer	2022-08-10	2064	687009	GLYF	PaxLoc		14:40	15:00	0.3	
Summer	2022-08-10	2064	687009	GLYF	Reposition	Yes	14:18	14:25	0.1	
Summer	2022-08-10	2064	687009	GLYF	PaxLoc		11:15	11:35	0.3	
Summer	2022-08-11	2067	687010	GLYF	Core	Yes	16:18	17:27	0.1	
Summer	2022-08-11	2065	34957	FLRH	CrewChg		16:42	18:14	0.2	
Summer	2022-08-11	2067	687010	GLYF	CrewChg		5:50	6:24	0.4	
Summer	2022-08-11	2067	687010	GLYF	DrillServ	Yes	11:48	12:18	0.5	
Summer	2022-08-11	2067	687010	GLYF	Core	Yes	5:50	6:24	0.2	
Summer	2022-08-11	2065	34957	FLRH	CrewChg		16:42	18:14	0.3	
Summer	2022-08-11	2065	34957	FLRH	Core	Yes	5:48	6:38	0.4	
Summer	2022-08-11	2067	687010	GLYF	Move	Yes	16:18	17:27	1.1	
Summer	2022-08-11	2065	34957	FLRH	Move	Yes	16:42	18:14	1	
Summer	2022-08-11	2067	687010	GLYF	Move	Yes	13:37	16:02	2.4	
Summer	2022-08-11	2065	34957	FLRH	Move	Yes	13:26	14:06	0.7	
Summer	2022-08-11	2065	34957	FLRH	Move	Yes	14:24	16:28	2.1	
Summer	2022-08-11	2065	34957	FLRH	CrewChg		5:48	6:38	0.4	
Summer	2022-08-12	2066	34958	FLRH	CrewChg		5:43	6:02	0.3	
Summer	2022-08-12	2066	34958	FLRH	Floor	Yes	14:44	15:13	0.4	
Summer	2022-08-12	2066	34958	FLRH	CrewChg		17:47	18:04	0.3	
Summer	2022-08-12	2068	687011	GLYF	Core	Yes	6:50	7:50	0.1	
Summer	2022-08-12	2066	34958	FLRH	Core	Yes	14:44	15:13	0.1	
Summer	2022-08-12	2068	687011	GLYF	Move	Yes	10:15	12:01	1.8	
Summer	2022-08-12	2068	687011	GLYF	Move	Yes	6:50	7:50	0.9	
Summer	2022-08-12	2068	687011	GLYF	Ferry		12:18	12:35	0.3	
Summer	2022-08-12	2066	34958	FLRH	Move	Yes	9:07	11:10	2.1	
Summer	2022-08-12	2066	34958	FLRH	Move	Yes	11:19	11:59	0.4	
Summer	2022-08-12	2066	34958	FLRH	Move	Yes	7:09	8:52	1.7	
Summer	2022-08-12	2068	687011	GLYF	PaxLoc		8:05	10:03	0.4	
Summer	2022-08-12	2068	687011	GLYF	Move	Yes	8:05	10:03	1.6	
Summer	2022-08-12	2066	34958	FLRH	PaxLoc		6:45	6:59	0.2	
Summer	2022-08-12	2066	34958	FLRH	PaxLoc		11:19	11:59	0.3	
Summer	2022-08-12	2068	687011	GLYF	PaxLoc		13:57	14:10	0.2	
Summer	2022-08-12	2068	687011	GLYF	PaxLoc		16:41	16:51	0.2	
Summer	2022-08-13	2103	34959	FLRH	CrewChg		17:45	18:06	0.4	
Summer	2022-08-13	2103	34959	FLRH	Floor	Yes	14:21	15:04	0.5	
Summer	2022-08-13	2103	34959	FLRH	DrillServ	Yes	14:21	15:04	0.2	
Summer	2022-08-13	2103	34959	FLRH	Move	Yes	8:50	9:45	0.9	
Summer	2022-08-13	2103	34959	FLRH	Move	Yes	7:36	8:28	0.9	
Summer	2022-08-13	2103	34959	FLRH	Move	Yes	7:05	7:14	0.2	
Summer	2022-08-13	2103	34959	FLRH	CrewChg		5:49	5:59	0.2	
Summer	2022-08-13	2103	34959	FLRH	PaxLoc		10:26	10:40	0.2	
Summer	2022-08-13	2103	34959	FLRH	LocSing	Yes	10:54	11:05	0.2	
Summer	2022-08-13	2103	34959	FLRH	LocSing	Yes	11:17	11:27	0.2	
Summer	2022-08-13	2103	34959	FLRH	PaxLoc		11:50	12:02	0.2	
Summer	2022-08-14	2104	34960	FLRH	Fuel	Yes	17:08	17:28	0.2	
Summer	2022-08-14	2104	34960	FLRH	Fuel	Yes	5:52	6:32	0.2	
Summer	2022-08-14	2104	34960	FLRH	Core	Yes	17:08	17:28	0.1	
Summer	2022-08-14	2104	34960	FLRH	CrewChg		17:47	18:03	0.3	
Summer	2022-08-14	2104	34960	FLRH	CrewChg		5:52	6:32	0.3	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-08-14	2104	34960	FLRH	Core		5:52	6:32	0.2	
Summer	2022-08-14	2069	687013	GLYF	PaxLoc	Yes	7:00	7:08	0.1	
Summer	2022-08-14	2069	687013	GLYF	PaxLoc		13:43	15:50	2.1	
Summer	2022-08-14	2069	687013	GLYF	PaxLoc		10:48	11:51	1.1	
Summer	2022-08-14	2069	687013	GLYF	PaxLoc		8:31	10:30	1.8	
Summer	2022-08-14	2069	687013	GLYF	PaxLoc		16:29	16:50	0.4	
Summer	2022-08-14	2069	687013	GLYF	LocSing	Yes	12:20	12:38	0.3	
Summer	2022-08-14	2070	687014	GLYF	PaxLoc		16:38	16:47	0.2	
Summer	2022-08-14	2070	687014	GLYF	PaxLoc		16:17	16:27	0.2	
Summer	2022-08-14	2070	687014	GLYF	PaxLoc		9:00	9:10	0.2	
Summer	2022-08-14	2069	687013	GLYF	PaxLoc		16:59	17:25	0.4	
Summer	2022-08-14	2069	687013	GLYF	PaxLoc		8:31	10:30	0.2	
Summer	2022-08-14	2070	687014	GLYF	PaxLoc		7:53	8:04	0.2	
Summer	2022-08-15	2105	34961	FLRH	CrewChg		17:48	18:06	0.3	
Summer	2022-08-15	2105	34961	FLRH	Core	Yes	17:12	17:22	0.2	
Summer	2022-08-15	2105	34961	FLRH	CrewChg		5:53	6:12	0.3	
Summer	2022-08-16	2106	34962	FLRH	Move	Yes	13:46	13:56	0.2	
Summer	2022-08-16	2106	34962	FLRH	Core	Yes	5:50	6:21	0.2	
Summer	2022-08-16	2106	34962	FLRH	CrewChg		5:50	6:21	0.3	
Summer	2022-08-16	2106	34962	FLRH	Move	Yes	15:48	15:57	0.2	
Summer	2022-08-16	2106	34962	FLRH	Move	Yes	16:43	17:22	0.7	
Summer	2022-08-16	2106	34962	FLRH	Move	Yes	17:33	18:26	0.6	
Summer	2022-08-16	2106	34962	FLRH	CrewChg		17:33	18:26	0.3	
Summer	2022-08-16	2074	756630	GLYF	DrillServ	Yes	17:42	18:10	0.5	
Summer	2022-08-16	2074	756630	GLYF	PaxLoc		15:38	16:05	0.5	
Summer	2022-08-16	2074	756630	GLYF	PaxLoc		16:18	16:36	0.3	
Summer	2022-08-16	2074	756630	GLYF	PaxLoc		16:45	17:06	0.4	
Summer	2022-08-17	2107	34363	FLRH	Core	Yes	17:24	17:36	0.1	
Summer	2022-08-17	2107	34363	FLRH	CrewChg		17:46	18:04	0.3	
Summer	2022-08-17	2107	34363	FLRH	DrillServ	Yes	17:24	17:36	0.1	
Summer	2022-08-17	2107	34363	FLRH	CrewChg		5:48	6:09	0.4	
Summer	2022-08-17	2075	756631	GLYF	Reposition	Yes	7:24	7:30	0.1	
Summer	2022-08-17	2075	756631	GLYF	PaxLoc		10:03	10:16	0.2	
Summer	2022-08-17	2075	756631	GLYF	Reposition	Yes	18:31	18:35	0.1	
Summer	2022-08-17	2107	34363	FLRH	Move	Yes	8:28	8:44	0.3	
Summer	2022-08-17	2107	34363	FLRH	Move	Yes	10:55	12:59	2.1	
Summer	2022-08-17	2075	756631	GLYF	Move	Yes	12:41	15:06	2.4	
Summer	2022-08-17	2107	34363	FLRH	Reposition	Yes	10:08	10:11	0.1	
Summer	2022-08-17	2075	756631	GLYF	Move	Yes	15:13	16:35	0.8	
Summer	2022-08-17	2075	756631	GLYF	PaxLoc		10:48	12:30	0.3	
Summer	2022-08-17	2075	756631	GLYF	CrewChg		17:54	18:22	0.5	
Summer	2022-08-17	2107	34363	FLRH	PaxLoc		15:36	16:03	0.5	
Summer	2022-08-17	2107	34363	FLRH	Move	Yes	13:10	15:20	2.2	
Summer	2022-08-17	2075	756631	GLYF	Move	Yes	10:48	12:30	1.4	
Summer	2022-08-17	2075	756631	GLYF	PaxLoc		7:50	8:19	0.5	
Summer	2022-08-17	2075	756631	GLYF	PaxLoc		15:13	16:35	0.6	
Summer	2022-08-18	2108	34964	FLRH	DrillServ	Yes	13:42	14:04	0.4	
Summer	2022-08-18	2108	34964	FLRH	Floor	Yes	14:17	14:42	0.4	
Summer	2022-08-18	2108	34964	FLRH	Move	Yes	17:02	18:09	0.5	
Summer	2022-08-18	2108	34964	FLRH	Move	Yes	15:57	16:50	0.9	
Summer	2022-08-18	2108	34964	FLRH	CrewChg		5:53	6:04	0.2	
Summer	2022-08-18	2076	756632	GLYF	Reposition	Yes	7:16	7:21	0.1	
Summer	2022-08-18	2076	756632	GLYF	PaxLoc		9:55	10:13	0.3	
Summer	2022-08-18	2076	756632	GLYF	PaxLoc		8:26	8:38	0.2	
Summer	2022-08-18	2076	756632	GLYF	PaxLoc		11:33	12:01	0.4	
Summer	2022-08-18	2076	756632	GLYF	PaxLoc		15:47	15:58	0.2	
Summer	2022-08-18	2076	756632	GLYF	DrillServ	Yes	17:20	17:45	0.4	
Summer	2022-08-18	2076	756632	GLYF	CrewChg		17:52	18:18	0.4	
Summer	2022-08-18	2076	756632	GLYF	CrewChg		6:06	6:32	0.4	
Summer	2022-08-18	2076	756632	GLYF	DrillServ	Yes	11:33	12:01	0.1	
Summer	2022-08-18	2108	34964	FLRH	PaxLoc		18:20	18:29	0.2	
Summer	2022-08-18	2108	34964	FLRH	PaxLoc		9:35	10:03	0.2	
Summer	2022-08-18	2108	34964	FLRH	LocSing	Yes	17:02	18:09	0.3	
Summer	2022-08-18	2108	34964	FLRH	PaxLoc		9:01	9:17	0.3	
Summer	2022-08-18	2108	34964	FLRH	PaxLoc		17:02	18:09	0.3	
Summer	2022-08-18	2076	756632	GLYF	PaxLoc		7:34	8:04	0.5	
Summer	2022-08-18	2076	756632	GLYF	PaxLoc		16:30	17:10	0.7	
Summer	2022-08-19	2078	476337	FLRH	CrewChg		17:17	17:58	0.3	
Summer	2022-08-19	2078	476337	FLRH	Reposition	Yes	12:40	13:00	0.3	
Summer	2022-08-19	2077	34965	FLRH	CrewChg		6:06	6:16	0.2	
Summer	2022-08-19	2077	34965	FLRH	DrillServ	Yes	9:55	10:27	0.2	
Summer	2022-08-19	2078	476337	FLRH	Reposition	Yes	12:16	12:20	0.1	
Summer	2022-08-19	2079	756633	GLYF	CrewChg		17:54	18:23	0.5	
Summer	2022-08-19	2079	756633	GLYF	Core	Yes	15:30	16:48	0.2	
Summer	2022-08-19	2079	756633	GLYF	Fuel	Yes	15:30	16:48	0.4	
Summer	2022-08-19	2079	756633	GLYF	PaxLoc		13:31	14:01	0.5	
Summer	2022-08-19	2079	756633	GLYF	PaxLoc		9:17	11:25	0.3	
Summer	2022-08-19	2079	756633	GLYF	Floor	Yes	9:17	11:25	1.3	
Summer	2022-08-19	2079	756633	GLYF	DrillServ	Yes	9:17	11:25	0.5	
Summer	2022-08-19	2079	756633	GLYF	CrewChg		5:56	6:23	0.5	
Summer	2022-08-19	2077	34965	FLRH	DrillServ	Yes	9:55	10:27	0.3	
Summer	2022-08-19	2077	34965	FLRH	PaxLoc		9:10	9:31	0.4	
Summer	2022-08-19	2077	34965	FLRH	PaxLoc		8:48	9:03	0.3	
Summer	2022-08-19	2078	476337	FLRH	PaxLoc		14:07	14:19	0.2	
Summer	2022-08-19	2078	476337	FLRH	PaxLoc		15:21	15:31	0.2	
Summer	2022-08-19	2078	476337	FLRH	PaxLoc		17:17	17:58	0.4	
Summer	2022-08-19	2078	476337	FLRH	LocSing	Yes	18:32	18:48	0.3	
Summer	2022-08-19	2078	476337	FLRH	PaxLoc		18:54	19:13	0.3	
Summer	2022-08-19	2077	34965	FLRH	PaxLoc		7:23	7:40	0.3	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-08-19	2078	476337	FLRH	LocSng		18:06	18:25	0.3	
Summer	2022-08-19	2079	756633	GLYF	PaxLoc	Yes	12:09	12:51	0.7	
Summer	2022-08-19	2079	756633	GLYF	PaxLoc		14:31	15:17	0.8	
Summer	2022-08-19	2079	756633	GLYF	PaxLoc		8:17	8:46	0.5	
Summer	2022-08-19	2079	756633	GLYF	PaxLoc		15:30	16:48	0.7	
Summer	2022-08-20	2080	476338	FLRH	CrewChg		5:48	6:03	0.3	
Summer	2022-08-20	2080	476338	FLRH	Move	Yes	10:14	11:04	0.8	
Summer	2022-08-20	2080	476338	FLRH	DrillServ	Yes	16:44	17:10	0.4	
Summer	2022-08-20	2080	476338	FLRH	CrewChg		17:46	18:11	0.4	
Summer	2022-08-20	2081	756634	GLYF	CrewChg		17:48	18:16	0.5	
Summer	2022-08-20	2081	756634	GLYF	CrewChg		6:05	6:35	0.5	
Summer	2022-08-20	2081	756634	GLYF	PaxLoc		10:32	11:00	0.5	
Summer	2022-08-20	2080	476338	FLRH	PaxLoc		7:54	8:03	0.2	
Summer	2022-08-20	2080	476338	FLRH	PaxLoc		14:28	14:51	0.4	
Summer	2022-08-20	2080	476338	FLRH	PaxLoc		7:28	7:39	0.2	
Summer	2022-08-20	2081	756634	GLYF	PaxLoc		9:04	9:26	0.4	
Summer	2022-08-20	2081	756634	GLYF	PaxLoc		15:56	16:53	1	
Summer	2022-08-21	2082	476339	FLRH	Move	Yes	17:05	18:16	0.9	
Summer	2022-08-21	2082	476339	FLRH	CrewChg		5:52	6:11	0.3	
Summer	2022-08-21	2082	476339	FLRH	Core	Yes	10:15	10:30	0.3	
Summer	2022-08-21	2082	476339	FLRH	Floor	Yes	14:01	14:16	0.3	
Summer	2022-08-21	2082	476339	FLRH	Move	Yes	15:47	16:48	1	
Summer	2022-08-21	2082	476339	FLRH	CrewChg		17:05	18:16	0.3	
Summer	2022-08-21	2082	476339	FLRH	PaxLoc		15:20	15:30	0.2	
Summer	2022-08-21	2083	756635	GLYF	Reposition	Yes	8:50	8:56	0.1	
Summer	2022-08-21	2083	756635	GLYF	CrewChg		18:19	18:53	0.6	
Summer	2022-08-21	2083	756635	GLYF	PaxLoc		14:37	14:49	0.2	
Summer	2022-08-21	2083	756635	GLYF	PaxLoc		13:48	14:04	0.3	
Summer	2022-08-21	2083	756635	GLYF	DrillServ	Yes	9:05	10:52	1.2	
Summer	2022-08-21	2083	756635	GLYF	Core	Yes	6:06	6:58	0.4	
Summer	2022-08-21	2083	756635	GLYF	CrewChg		6:06	6:58	0.5	
Summer	2022-08-21	2083	756635	GLYF	Fuel	Yes	9:05	10:52	0.6	
Summer	2022-08-21	2083	756635	GLYF	PaxLoc		15:55	16:25	0.5	
Summer	2022-08-21	2083	756635	GLYF	PaxLoc		11:09	11:32	0.4	
Summer	2022-08-22	2084	476340	FLRH	CrewChg		17:38	17:56	0.3	
Summer	2022-08-22	2084	476340	FLRH	CrewChg		5:50	6:12	0.4	
Summer	2022-08-22	2084	476340	FLRH	DrillServ	Yes	16:11	16:38	0.5	
Summer	2022-08-22	2084	476340	FLRH	Floor	Yes	11:02	12:00	1	
Summer	2022-08-22	2085	756636	GLYF	DrillServ	Yes	17:52	18:54	0.6	
Summer	2022-08-22	2085	756636	GLYF	Core	Yes	6:10	7:01	0.4	
Summer	2022-08-22	2085	756636	GLYF	Reposition	Yes	9:30	9:35	0.1	
Summer	2022-08-22	2085	756636	GLYF	PaxLoc		12:29	12:47	0.3	
Summer	2022-08-22	2085	756636	GLYF	PaxLoc		14:05	14:15	0.2	
Summer	2022-08-22	2085	756636	GLYF	Fuel	Yes	8:28	9:23	0.6	
Summer	2022-08-22	2085	756636	GLYF	CrewChg		17:52	18:54	0.4	
Summer	2022-08-22	2085	756636	GLYF	CrewChg		6:10	7:01	0.5	
Summer	2022-08-22	2085	756636	GLYF	PaxLoc		14:45	14:55	0.2	
Summer	2022-08-22	2084	476340	FLRH	PaxLoc		8:07	8:24	0.3	
Summer	2022-08-22	2084	476340	FLRH	PaxLoc		14:36	14:46	0.2	
Summer	2022-08-22	2085	756636	GLYF	PaxLoc		16:00	16:27	0.5	
Summer	2022-08-22	2085	756636	GLYF	PaxLoc		8:28	9:23	0.3	
Summer	2022-08-23	2091	476341	FLRH	CrewChg		5:58	6:18	0.3	
Summer	2022-08-23	2091	476341	FLRH	Reposition	Yes	14:27	14:32	0.1	
Summer	2022-08-23	2086	756637	GLYF	CrewChg		6:06	6:52	0.4	
Summer	2022-08-23	2086	756637	GLYF	DrillServ	Yes	13:16	15:51	0.4	
Summer	2022-08-23	2086	756637	GLYF	Move	Yes	13:16	15:51	2	
Summer	2022-08-23	2086	756637	GLYF	PaxLoc		12:18	12:34	0.3	
Summer	2022-08-23	2086	756637	GLYF	CrewChg		17:47	18:17	0.5	
Summer	2022-08-23	2086	756637	GLYF	PaxLoc		13:16	15:51	0.2	
Summer	2022-08-23	2086	756637	GLYF	Core	Yes	6:06	6:52	0.4	
Summer	2022-08-23	2086	756637	GLYF	DrillServ	Yes	10:18	10:39	0.4	
Summer	2022-08-23	2091	476341	FLRH	PaxLoc		8:33	8:43	0.2	
Summer	2022-08-23	2086	756637	GLYF	PaxLoc		8:59	9:23	0.4	
Summer	2022-08-23	2086	756637	GLYF	PaxLoc		16:08	16:39	0.5	
Summer	2022-08-24	2087	476342	FLRH	CrewChg		17:42	18:01	0.3	
Summer	2022-08-24	2087	476342	FLRH	DrillServ	Yes	14:18	15:22	1.1	
Summer	2022-08-24	2088	756638	GLYF	CrewChg		18:03	18:22	0.3	
Summer	2022-08-24	2088	756638	GLYF	PaxLoc		11:02	11:18	0.3	
Summer	2022-08-24	2088	756638	GLYF	Fuel	Yes	11:33	13:19	0.6	
Summer	2022-08-24	2088	756638	GLYF	DrillServ	Yes	11:33	13:19	0.6	
Summer	2022-08-24	2088	756638	GLYF	PaxLoc		13:26	13:35	0.2	
Summer	2022-08-24	2088	756638	GLYF	Core	Yes	11:33	13:19	0.4	
Summer	2022-08-24	2088	756638	GLYF	PaxLoc		11:33	13:19	0.2	
Summer	2022-08-24	2088	756638	GLYF	CrewChg		5:55	6:19	0.4	
Summer	2022-08-24	2088	756638	GLYF	Reposition	Yes	10:09	10:14	0.1	
Summer	2022-08-24	2088	756638	GLYF	Fuel	Yes	13:44	15:21	0.2	
Summer	2022-08-24	2088	756638	GLYF	Core	Yes	13:44	15:21	0.1	
Summer	2022-08-24	2088	756638	GLYF	PaxLoc		7:56	8:20	0.4	
Summer	2022-08-24	2088	756638	GLYF	PaxLoc		13:44	15:21	1.3	
Summer	2022-08-25	2089	476343	FLRH	DrillServ	Yes	16:09	16:43	0.6	
Summer	2022-08-25	2089	476343	FLRH	CrewChg		6:01	6:20	0.3	
Summer	2022-08-25	2089	476343	FLRH	CrewChg		17:45	18:00	0.3	
Summer	2022-08-25	2089	476343	FLRH	PaxLoc		10:07	11:00	0.2	
Summer	2022-08-25	2089	476343	FLRH	Core	Yes	10:07	11:00	0.2	
Summer	2022-08-25	2089	476343	FLRH	Move	Yes	10:07	11:00	0.5	
Summer	2022-08-25	2089	476343	FLRH	Move	Yes	8:43	9:54	1.2	
Summer	2022-08-25	2089	476343	FLRH	PaxLoc		8:15	8:25	0.2	
Summer	2022-08-25	2090	756639	GLYF	Core	Yes	6:00	6:52	0.4	
Summer	2022-08-25	2090	756639	GLYF	CrewChg		17:55	18:16	0.4	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-08-25	2090	756639	GLYF	Floor		10:37	11:06	0.5	
Summer	2022-08-25	2090	756639	GLYF	CrewChg	Yes	6:00	6:52	0.5	
Summer	2022-08-25	2090	756639	GLYF	PaxLoc		12:38	12:49	0.2	
Summer	2022-08-25	2089	476343	FLRH	PaxLoc		15:12	15:22	0.2	
Summer	2022-08-25	2089	476343	FLRH	PaxLoc		15:40	15:50	0.2	
Summer	2022-08-25	2090	756639	GLYF	PaxLoc		9:37	9:56	0.3	
Summer	2022-08-25	2090	756639	GLYF	PaxLoc		10:10	10:28	0.3	
Summer	2022-08-25	2090	756639	GLYF	PaxLoc		15:10	15:50	0.7	
Summer	2022-08-25	2090	756639	GLYF	Reposition	Yes	16:40	16:45	0.1	
Summer	2022-08-26	2092	476344	FLRH	DrillServ	Yes	15:55	16:38	0.7	
Summer	2022-08-26	2092	476344	FLRH	CrewChg		5:48	6:05	0.3	
Summer	2022-08-26	2092	476344	FLRH	CrewChg		17:53	18:08	0.3	
Summer	2022-08-26	2071	756640	GLYF	Fuel	Yes	5:56	7:30	0.8	
Summer	2022-08-26	2071	756640	GLYF	CrewChg		17:58	18:19	0.4	
Summer	2022-08-26	2071	756640	GLYF	Core	Yes	5:56	7:30	0.4	
Summer	2022-08-26	2071	756640	GLYF	CrewChg		5:56	7:30	0.4	
Summer	2022-08-26	2071	756640	GLYF	PaxLoc		9:22	9:44	0.4	
Summer	2022-08-26	2071	756640	GLYF	PaxLoc		15:55	16:39	0.7	
Summer	2022-08-27	2093	476345	FLRH	Move	Yes	15:20	16:53	1.6	
Summer	2022-08-27	2093	476345	FLRH	CrewChg		17:55	18:10	0.3	
Summer	2022-08-27	2093	476345	FLRH	CrewChg		6:10	6:25	0.3	
Summer	2022-08-27	2094	756641	GLYF	PaxLoc		14:33	14:47	0.2	
Summer	2022-08-27	2094	756641	GLYF	Reposition	Yes	7:34	7:40	0.1	
Summer	2022-08-27	2094	756641	GLYF	Fuel	Yes	5:57	7:24	0.6	
Summer	2022-08-27	2094	756641	GLYF	Core	Yes	5:57	7:24	0.4	
Summer	2022-08-27	2094	756641	GLYF	CrewChg		18:09	18:30	0.4	
Summer	2022-08-27	2094	756641	GLYF	CrewChg		5:57	7:24	0.5	
Summer	2022-08-27	2094	756641	GLYF	PaxLoc		8:16	8:50	0.6	
Summer	2022-08-27	2094	756641	GLYF	PaxLoc		15:23	16:21	1	
Summer	2022-08-28	2095	476346	FLRH	Move	Yes	13:00	13:30	0.5	
Summer	2022-08-28	2095	476346	FLRH	Move	Yes	11:04	12:45	1.7	
Summer	2022-08-28	2095	476346	FLRH	Move	Yes	8:52	10:48	1.9	
Summer	2022-08-28	2095	476346	FLRH	Move	Yes	7:38	8:38	1	
Summer	2022-08-28	2095	476346	FLRH	PaxLoc		7:19	7:30	0.2	
Summer	2022-08-28	2095	476346	FLRH	PaxLoc		6:33	6:43	0.2	
Summer	2022-08-28	2095	476346	FLRH	CrewChg		5:54	6:15	0.4	
Summer	2022-08-28	2096	756642	GLYF	Reposition	Yes	18:56	19:01	0.1	
Summer	2022-08-28	2095	476346	FLRH	PaxLoc		15:59	16:41	0.7	
Summer	2022-08-28	2095	476346	FLRH	Reposition	Yes	18:00	18:05	0.1	
Summer	2022-08-28	2096	756642	GLYF	CrewChg		6:04	6:56	0.5	
Summer	2022-08-28	2096	756642	GLYF	Core	Yes	6:04	6:56	0.4	
Summer	2022-08-28	2096	756642	GLYF	Fuel	Yes	13:10	13:51	0.3	
Summer	2022-08-28	2096	756642	GLYF	DrillServ	Yes	13:10	13:51	0.4	
Summer	2022-08-28	2096	756642	GLYF	CrewChg		18:01	18:28	0.5	
Summer	2022-08-28	2095	476346	FLRH	PaxLoc		13:48	13:58	0.2	
Summer	2022-08-28	2095	476346	FLRH	PaxLoc		14:10	14:20	0.2	
Summer	2022-08-29	2097	402957	FLRH	PaxLoc		13:06	15:27	0.1	
Summer	2022-08-29	2097	402957	FLRH	CrewChg		6:10	7:17	0.5	
Summer	2022-08-29	2097	402957	FLRH	CrewChg		18:14	18:37	0.4	
Summer	2022-08-29	2097	402957	FLRH	DrillServ	Yes	13:06	15:27	0.7	
Summer	2022-08-29	2097	402957	FLRH	Reposition	Yes	9:23	9:28	0.1	
Summer	2022-08-29	2097	402957	FLRH	DrillServ	Yes	6:10	7:17	0.2	
Summer	2022-08-29	2097	402957	FLRH	Fuel	Yes	15:39	16:35	0.4	
Summer	2022-08-29	2097	402957	FLRH	Core	Yes	6:10	7:17	0.4	
Summer	2022-08-29	2097	402957	FLRH	PaxLoc		12:23	12:38	0.3	
Summer	2022-08-29	2097	402957	FLRH	Move	Yes	13:06	15:27	1.6	
Summer	2022-08-29	2097	402957	FLRH	PaxLoc		15:39	16:35	0.5	
Summer	2022-08-29	2097	402957	FLRH	PaxLoc		8:51	9:12	0.4	
Summer	2022-08-30	2098	402958	FLRH	CrewChg		6:10	6:39	0.5	
Summer	2022-08-30	2098	402958	FLRH	LocSIng	Yes	8:58	9:30	0.5	
Summer	2022-08-30	2098	402958	FLRH	PaxLoc		9:52	10:10	0.3	
Summer	2022-08-30	2098	402958	FLRH	Fuel	Yes	16:11	16:51	0.4	
Summer	2022-08-30	2098	402958	FLRH	Core	Yes	16:11	16:51	0.3	
Summer	2022-08-30	2098	402958	FLRH	CrewChg		17:58	18:24	0.4	
Summer	2022-08-30	2098	402958	FLRH	Reposition	Yes	7:28	7:33	0.1	
Summer	2022-08-30	2098	402958	FLRH	PaxLoc		8:33	8:42	0.2	
Summer	2022-08-30	2098	402958	FLRH	Ferry		7:43	8:16	0.6	
Summer	2022-08-31	2099	402959	FLRH	CrewChg		5:57	6:17	0.3	
Summer	2022-08-31	2099	402959	FLRH	CrewChg		12:33	12:52	0.3	
Summer	2022-08-31	2099	402959	FLRH	CrewChg		17:54	18:19	0.4	
Summer	2022-08-31	2099	402959	FLRH	Reposition	Yes	16:40	16:46	0.1	
Summer	2022-08-31	2099	402959	FLRH	PaxLoc		8:10	8:50	0.7	
Summer	2022-08-31	2099	402959	FLRH	Reposition	Yes	9:01	9:06	0.1	
Summer	2022-08-31	2099	402959	FLRH	PaxLoc		15:50	16:35	0.8	
Summer	2022-09-01	2100	402960	FLRH	DrillServ	Yes	7:17	8:33	0.8	
Summer	2022-09-01	2100	402960	FLRH	CrewChg		6:02	7:00	0.4	
Summer	2022-09-01	2100	402960	FLRH	Fuel	Yes	7:17	8:33	0.3	
Summer	2022-09-01	2100	402960	FLRH	PaxLoc		7:17	8:33	0.2	
Summer	2022-09-01	2100	402960	FLRH	Fuel	Yes	8:49	9:38	0.2	
Summer	2022-09-01	2100	402960	FLRH	DrillServ	Yes	8:49	9:38	0.4	
Summer	2022-09-01	2100	402960	FLRH	PaxLoc		8:49	9:38	0.2	
Summer	2022-09-01	2100	402960	FLRH	PaxLoc		17:10	18:27	0.5	
Summer	2022-09-01	2100	402960	FLRH	DrillServ	Yes	17:10	18:27	0.5	
Summer	2022-09-01	2100	402960	FLRH	CrewChg		17:10	18:27	0.3	
Summer	2022-09-01	2100	402960	FLRH	CrewChg		18:34	18:45	0.2	
Summer	2022-09-01	2100	402960	FLRH	Reposition	Yes	18:52	18:58	0.1	
Summer	2022-09-01	2100	402960	FLRH	PaxLoc		6:02	7:00	0.2	
Summer	2022-09-01	2100	402960	FLRH	Core	Yes	6:02	7:00	0.4	
Summer	2022-09-01	2100	402960	FLRH	PaxLoc		10:40	11:05	0.4	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-09-01	2100	402960	FLRH	PaxLoc		9:50	10:15	0.4	
Summer	2022-09-02	2101	402961	FLRH	CrewChg		18:08	18:33	0.4	
Summer	2022-09-02	2101	402961	FLRH	CrewChg		6:33	7:21	0.4	
Summer	2022-09-02	2101	402961	FLRH	Fuel	Yes	7:43	8:10	0.4	
Summer	2022-09-02	2101	402961	FLRH	Reposition	Yes	9:43	9:48	0.1	
Summer	2022-09-02	2101	402961	FLRH	PaxLoc		10:05	10:21	0.3	
Summer	2022-09-02	2101	402961	FLRH	PaxLoc		11:22	12:05	0.1	
Summer	2022-09-02	2101	402961	FLRH	Floor	Yes	11:22	12:05	0.6	
Summer	2022-09-02	2101	402961	FLRH	PaxLoc		12:34	12:43	0.2	
Summer	2022-09-02	2101	402961	FLRH	PaxLoc		16:00	16:47	0.3	
Summer	2022-09-02	2101	402961	FLRH	Reposition	Yes	18:42	18:47	0.1	
Summer	2022-09-02	2101	402961	FLRH	DrillServ	Yes	12:54	13:06	0.2	
Summer	2022-09-02	2101	402961	FLRH	PaxLoc		16:00	16:47	0.5	
Summer	2022-09-02	2101	402961	FLRH	PaxLoc		17:06	17:32	0.4	
Summer	2022-09-02	2101	402961	FLRH	Medevac		15:09	15:29	0.3	
Summer	2022-09-02	2101	402961	FLRH	Medevac		14:07	14:29	0.4	
Summer	2022-09-03	2102	402962	FLRH	CrewChg		17:11	18:20	0.5	
Summer	2022-09-03	2102	402962	FLRH	PaxLoc		16:51	17:06	0.3	
Summer	2022-09-03	2102	402962	FLRH	CrewChg		6:05	6:52	0.4	
Summer	2022-09-03	2102	402962	FLRH	Core	Yes	6:05	6:52	0.4	
Summer	2022-09-03	2102	402962	FLRH	PaxLoc		10:53	11:07	0.2	
Summer	2022-09-03	2102	402962	FLRH	PaxLoc		11:45	13:28	0.2	
Summer	2022-09-03	2102	402962	FLRH	DrillServ	Yes	11:45	13:28	0.2	
Summer	2022-09-03	2102	402962	FLRH	Move	Yes	11:45	13:28	1.1	
Summer	2022-09-03	2102	402962	FLRH	Fuel	Yes	11:45	13:28	0.2	
Summer	2022-09-03	2102	402962	FLRH	DrillServ	Yes	13:41	15:47	0.1	
Summer	2022-09-03	2102	402962	FLRH	Move	Yes	15:53	16:43	0.4	
Summer	2022-09-03	2102	402962	FLRH	PaxLoc		15:53	16:43	0.1	
Summer	2022-09-03	2102	402962	FLRH	Move	Yes	13:41	15:47	1.9	
Summer	2022-09-03	2102	402962	FLRH	DrillServ	Yes	15:53	16:43	0.3	
Summer	2022-09-03	2102	402962	FLRH	Fuel	Yes	13:41	15:47	0.1	
Summer	2022-09-03	2102	402962	FLRH	PaxLoc		17:11	18:20	0.7	
Summer	2022-09-03	2102	402962	FLRH	PaxLoc		9:02	9:41	0.7	
Summer	2022-09-04	2111	402963	FLRH			10:35	11:16	NA	
Summer	2022-09-04	2111	402963	FLRH	PaxLoc		12:47	13:21	0.6	
Summer	2022-09-04	2111	402963	FLRH	Fuel	Yes	6:06	7:30	0.6	
Summer	2022-09-04	2111	402963	FLRH	PaxLoc		14:42	15:23	0.7	
Summer	2022-09-04	2111	402963	FLRH	Core	Yes	6:06	7:30	0.4	
Summer	2022-09-04	2111	402963	FLRH	PaxLoc		10:35	11:16	0.7	
Summer	2022-09-04	2111	402963	FLRH	CrewChg		18:07	18:33	0.4	
Summer	2022-09-04	2111	402963	FLRH	PaxLoc		16:55	17:17	0.4	
Summer	2022-09-04	2111	402963	FLRH	Floor	Yes	15:30	16:46	1.3	
Summer	2022-09-04	2111	402963	FLRH	CrewChg		6:06	7:30	0.4	
Summer	2022-09-04	2111	402963	FLRH	Reposition	Yes	18:43	18:48	0.1	
Summer	2022-09-05	2114	402964	FLRH	CrewChg		17:34	18:24	0.4	
Summer	2022-09-05	2114	402964	FLRH	Fuel	Yes	6:07	7:31	0.3	
Summer	2022-09-05	2114	402964	FLRH	CrewChg		6:07	7:31	0.4	
Summer	2022-09-05	2114	402964	FLRH	DrillServ	Yes	6:07	7:31	0.3	
Summer	2022-09-05	2114	402964	FLRH	Core	Yes	6:07	7:31	0.4	
Summer	2022-09-05	2114	402964	FLRH	Core	Yes	17:34	18:24	0.4	
Summer	2022-09-05	2114	402964	FLRH	PaxLoc		13:48	14:01	0.2	
Summer	2022-09-05	2114	402964	FLRH	PaxLoc		14:26	14:39	0.12	
Summer	2022-09-05	2114	402964	FLRH	PaxLoc		15:33	16:01	0.5	
Summer	2022-09-05	2114	402964	FLRH	PaxLoc		9:36	9:45	0.2	
Summer	2022-09-05	2114	402964	FLRH	PaxLoc		14:50	15:03	0.2	
Summer	2022-09-05	2114	402964	FLRH	PaxLoc		9:53	10:05	0.2	
Summer	2022-09-05	2114	402964	FLRH	PaxLoc		11:55	12:05	0.2	
Summer	2022-09-05	2114	402964	FLRH	PaxLoc		12:15	12:31	0.3	
Summer	2022-09-05	2114	402964	FLRH	PaxLoc		13:10	13:19	0.2	
Summer	2022-09-05	2114	402964	FLRH	Ferry		8:34	8:52	0.3	
Summer	2022-09-06	2115	402965	FLRH	Move	Yes	18:00	19:17	0.9	
Summer	2022-09-06	2115	402965	FLRH	PaxLoc		13:38	14:05	0.5	
Summer	2022-09-06	2115	402965	FLRH	PaxLoc		14:52	15:07	0.3	
Summer	2022-09-06	2115	402965	FLRH	PaxLoc		15:25	16:21	0.3	
Summer	2022-09-06	2115	402965	FLRH	Move	Yes	15:25	16:21	0.6	
Summer	2022-09-06	2115	402965	FLRH	CrewChg		16:31	17:53	0.2	
Summer	2022-09-06	2115	402965	FLRH	Move	Yes	16:31	17:53	1.2	
Summer	2022-09-06	2115	402965	FLRH	CrewChg		18:00	19:17	0.2	
Summer	2022-09-06	2115	402965	FLRH	CrewChg		6:19	6:57	0.6	
Summer	2022-09-06	2115	402965	FLRH	PaxLoc		18:00	19:17	0.2	
Summer	2022-09-07	2116	402966	FLRH	Reposition	Yes	8:53	8:57	0.1	
Summer	2022-09-07	2116	402966	FLRH	Move	Yes	6:19	7:12	0.5	
Summer	2022-09-07	2116	402966	FLRH	PaxLoc		7:25	8:47	0.2	
Summer	2022-09-07	2116	402966	FLRH	Move	Yes	7:25	8:47	1.2	
Summer	2022-09-07	2117	980847	FLRH	Move	Yes	11:01	13:23	2.4	
Summer	2022-09-07	2117	980847	FLRH	Move	Yes	16:00	17:15	1.3	
Summer	2022-09-07	2117	980847	FLRH	CrewChg		18:04	18:34	0.5	
Summer	2022-09-07	2116	402966	FLRH	CrewChg		6:19	7:12	0.4	
Summer	2022-09-07	2117	980847	FLRH	Move	Yes	13:34	15:52	2.3	
Summer	2022-09-08	2120	980848	FLRH	CrewChg		18:00	18:30	0.5	
Summer	2022-09-08	2120	980848	FLRH	Core	Yes	8:40	9:07	0.5	
Summer	2022-09-08	2120	980848	FLRH	CrewChg		6:10	6:40	0.5	
Summer	2022-09-09	2118	980849	FLRH	DrillServ	Yes	13:24	15:50	0.3	
Summer	2022-09-09	2118	980849	FLRH	CrewChg		18:06	18:32	0.4	
Summer	2022-09-09	2118	980849	FLRH	PaxLoc		16:42	17:06	0.4	
Summer	2022-09-09	2118	980849	FLRH	Floor	Yes	16:02	16:23	0.4	
Summer	2022-09-09	2118	980849	FLRH	Floor	Yes	13:24	15:50	1.2	
Summer	2022-09-09	2118	980849	FLRH	Core	Yes	13:24	15:50	0.3	
Summer	2022-09-09	2118	980849	FLRH	Fuel	Yes	13:24	15:50	0.6	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-09-09	2118	980849	FLRH	Reposition	Yes	12:45	12:52	0.1	
Summer	2022-09-09	2118	980849	FLRH	CrewChg		6:19	6:53	0.6	
Summer	2022-09-10	2119	980850	FLRH	CrewChg		6:24	6:56	0.5	
Summer	2022-09-10	2119	980850	FLRH	DrillServ	Yes	17:54	18:48	0.4	
Summer	2022-09-10	2119	980850	FLRH	Fuel	Yes	7:02	8:29	0.7	
Summer	2022-09-10	2119	980850	FLRH	DrillServ	Yes	7:02	8:29	0.4	
Summer	2022-09-10	2119	980850	FLRH	Core	Yes	7:02	8:29	0.4	
Summer	2022-09-10	2119	980850	FLRH	CrewChg		17:54	18:48	0.5	
Summer	2022-09-10	2119	980850	FLRH	PaxLoc		17:17	17:35	0.2	
Summer	2022-09-10	2119	980850	FLRH	PaxLoc		16:05	16:14	0.2	
Summer	2022-09-10	2119	980850	FLRH	PaxLoc		14:25	14:59	0.3	
Summer	2022-09-10	2119	980850	FLRH	PaxLoc		17:17	17:35	0.1	
Summer	2022-09-10	2119	980850	FLRH	PaxLoc		14:25	14:59	0.3	
Summer	2022-09-11	2121	980851	FLRH	Core	Yes	17:22	18:16	0.1	
Summer	2022-09-11	2121	980851	FLRH	CrewChg		6:49	7:18	0.5	
Summer	2022-09-11	2121	980851	FLRH	CrewChg		18:28	18:52	0.4	
Summer	2022-09-11	2121	980851	FLRH	Fuel	Yes	17:22	18:16	0.3	
Summer	2022-09-11	2121	980851	FLRH	Core	Yes	11:01	12:45	0.2	
Summer	2022-09-11	2121	980851	FLRH	Fuel	Yes	11:01	12:45	0.2	
Summer	2022-09-11	2121	980851	FLRH	DrillServ	Yes	11:01	12:45	1.3	
Summer	2022-09-11	2121	980851	FLRH	DrillServ	Yes	17:22	18:16	0.3	
Summer	2022-09-11	2121	980851	FLRH	DrillServ	Yes	13:06	13:54	1.3	
Summer	2022-09-11	2121	980851	FLRH	PaxLoc		19:25	19:45	0.3	
Summer	2022-09-11	2121	980851	FLRH	PaxLoc		13:06	13:54	0.4	
Summer	2022-09-11	2121	980851	FLRH	PaxLoc		14:17	14:32	0.3	
Summer	2022-09-11	2121	980851	FLRH	PaxLoc		15:43	15:59	0.3	
Summer	2022-09-11	2121	980851	FLRH	PaxLoc		7:44	8:21	0.6	
Summer	2022-09-11	2121	980851	FLRH	PaxLoc		16:43	17:03	0.1	
Summer	2022-09-11	2121	980851	FLRH	PaxLoc		8:58	9:22	0.4	
Summer	2022-09-11	2121	980851	FLRH	PaxLoc		14:41	15:04	0.4	
Summer	2022-09-11	2121	980851	FLRH	PaxLoc		16:43	17:03	0.2	
Summer	2022-09-11	2121	980851	FLRH	PaxLoc		17:22	18:16	0.2	
Summer	2022-09-12	2122	980852	FLRH	Move	Yes	16:08	17:39	1.4	
Summer	2022-09-12	2122	980852	FLRH	Move	Yes	17:46	19:09	1	
Summer	2022-09-12	2122	980852	FLRH	PaxLoc		15:29	15:41	0.2	
Summer	2022-09-12	2122	980852	FLRH	Fuel	Yes	7:30	8:56	0.2	
Summer	2022-09-12	2122	980852	FLRH	CrewChg		17:46	19:09	0.4	
Summer	2022-09-12	2122	980852	FLRH	Core	Yes	7:30	8:56	0.2	
Summer	2022-09-12	2122	980852	FLRH	CrewChg		6:29	7:00	0.5	
Summer	2022-09-12	2122	980852	FLRH	DrillServ	Yes	7:30	8:56	0.7	
Summer	2022-09-12	2122	980852	FLRH	PaxLoc		7:30	8:56	0.3	
Summer	2022-09-12	2122	980852	FLRH	PaxLoc		9:10	9:20	0.2	
Summer	2022-09-12	2122	980852	FLRH	PaxLoc		10:38	10:54	0.3	
Summer	2022-09-12	2122	980852	FLRH	PaxLoc		10:11	10:20	0.2	
Summer	2022-09-12	2122	980852	FLRH	PaxLoc		13:57	14:06	0.2	
Summer	2022-09-12	2122	980852	FLRH	PaxLoc		13:01	13:29	0.5	
Summer	2022-09-12	2122	980852	FLRH	PaxLoc		11:10	11:31	0.4	
Summer	2022-09-12	2122	980852	FLRH	PaxLoc		14:59	15:20	0.4	
Summer	2022-09-14	2124	980854	FLRH	DrillServ	Yes	13:36	13:45	0.2	
Summer	2022-09-14	2124	980854	FLRH	DrillServ	Yes	12:11	13:26	0.3	
Summer	2022-09-14	2124	980854	FLRH	CrewChg		18:51	19:18	0.5	
Summer	2022-09-14	2124	980854	FLRH	Fuel	Yes	12:11	13:26	1	
Summer	2022-09-14	2124	980854	FLRH	PaxLoc		14:16	14:27	0.2	
Summer	2022-09-14	2124	980854	FLRH	PaxLoc		14:40	14:50	0.2	
Summer	2022-09-14	2124	980854	FLRH	PaxLoc		17:25	17:35	0.2	
Summer	2022-09-14	2124	980854	FLRH	PaxLoc		17:01	17:10	0.2	
Summer	2022-09-15	2125	980855	FLRH	Core	Yes	17:30	18:21	0.2	
Summer	2022-09-15	2125	980855	FLRH	Floor	Yes	17:30	18:21	0.3	
Summer	2022-09-15	2125	980855	FLRH	CrewChg		18:29	18:57	0.5	
Summer	2022-09-15	2125	980855	FLRH	DrillServ	Yes	17:30	18:21	0.4	
Summer	2022-09-15	2125	980855	FLRH	CrewChg		6:47	7:11	0.4	
Summer	2022-09-15	2125	980855	FLRH	Fuel	Yes	16:43	17:10	0.5	
Summer	2022-09-15	2125	980855	FLRH	Core	Yes	8:01	8:59	0.3	
Summer	2022-09-15	2125	980855	FLRH	Fuel	Yes	8:01	8:59	0.3	
Summer	2022-09-15	2125	980855	FLRH	DrillServ	Yes	8:01	8:59	0.4	
Summer	2022-09-15	2125	980855	FLRH	PaxLoc		11:24	11:35	0.2	
Summer	2022-09-15	2125	980855	FLRH	PaxLoc		12:58	13:07	0.2	
Summer	2022-09-15	2125	980855	FLRH	PaxLoc		12:28	12:39	0.2	
Summer	2022-09-15	2125	980855	FLRH	PaxLoc		11:50	12:08	0.3	
Summer	2022-09-15	2125	980855	FLRH	PaxLoc		10:50	10:59	0.2	
Summer	2022-09-15	2125	980855	FLRH	PaxLoc		16:12	16:32	0.3	
Summer	2022-09-15	2125	980855	FLRH	PaxLoc		9:33	10:17	0.7	
Summer	2022-09-16	2126	980856	FLRH	PaxLoc		12:07	12:22	0.3	
Summer	2022-09-16	2126	980856	FLRH	Floor	Yes	10:39	11:22	0.5	
Summer	2022-09-16	2126	980856	FLRH	PaxLoc		10:39	11:22	0.2	
Summer	2022-09-16	2126	980856	FLRH	DrillServ	Yes	16:35	17:25	0.2	
Summer	2022-09-16	2126	980856	FLRH	DrillServ	Yes	9:37	10:25	0.4	Fog.
Summer	2022-09-16	2126	980856	FLRH	Fuel	Yes	16:35	17:25	0.4	
Summer	2022-09-16	2126	980856	FLRH	Fuel	Yes	9:37	10:25	0.4	Fog.
Summer	2022-09-16	2126	980856	FLRH	Reposition	Yes	18:15	18:21	0.1	
Summer	2022-09-16	2126	980856	FLRH	CrewChg		7:32	8:02	0.5	Foggy.
Summer	2022-09-16	2126	980856	FLRH	Core	Yes	16:35	17:25	0.2	
Summer	2022-09-16	2126	980856	FLRH	Ferry		12:32	12:52	0.3	
Summer	2022-09-16	2126	980856	FLRH	PaxLoc		13:16	13:33	0.3	
Summer	2022-09-16	2126	980856	FLRH	PaxLoc		14:51	15:08	0.3	
Summer	2022-09-16	2126	980856	FLRH	Ferry		15:51	16:32	0.7	
Summer	2022-09-16	2126	980856	FLRH	PaxLoc		15:28	15:35	0.1	
Summer	2022-09-17	2127	980857	FLRH	Core	Yes	16:15	16:52	0.4	
Summer	2022-09-17	2127	980857	FLRH	CrewChg		6:37	7:02	0.4	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Summer	2022-09-17	2127	980857	FLRH	DrillServ	Yes	16:15	16:52	0.2	
Summer	2022-09-17	2127	980857	FLRH	CrewChg		18:32	19:01	0.5	
Summer	2022-09-18	2128	980858	FLRH	CrewChg		6:37	7:05	0.5	
Summer	2022-09-18	2128	980858	FLRH	PaxLoc		8:12	8:32	0.3	
Summer	2022-09-18	2128	980858	FLRH	Move	Yes	12:04	13:11	1	
Summer	2022-09-18	2128	980858	FLRH	CrewChg		18:22	18:48	0.4	
Summer	2022-09-18	2128	980858	FLRH	PaxLoc		12:04	13:11	0.1	
Summer	2022-09-18	2128	980858	FLRH	Fuel	Yes	13:20	14:04	0.7	
Summer	2022-09-18	2128	980858	FLRH	Move	Yes	8:59	10:27	1.5	
Summer	2022-09-19	2129	980859	FLRH	CrewChg		6:58	7:26	0.5	
Summer	2022-09-19	2129	980859	FLRH	Fuel	Yes	17:06	17:51	0.4	
Summer	2022-09-19	2129	980859	FLRH	CrewChg		18:27	18:54	0.5	
Summer	2022-09-19	2129	980859	FLRH	DrillServ	Yes	12:27	12:55	0.5	
Summer	2022-09-19	2129	980859	FLRH	DrillServ	Yes	17:06	17:51	0.4	
Summer	2022-09-20	2130	402979	FLRH	CrewChg		18:25	18:54	0.5	
Summer	2022-09-20	2131	980860	FLRH	CrewChg		6:40	7:28	0.4	
Summer	2022-09-20	2131	980860	FLRH	Core	Yes	6:40	7:28	0.4	
Summer	2022-09-20	2130	402979	FLRH	Fuel	Yes	17:08	17:54	0.8	
Summer	2022-09-21	2132	402980	FLRH	DrillServ	Yes	13:48	14:41	0.9	
Summer	2022-09-21	2132	402980	FLRH	DrillServ	Yes	19:32	20:03	0.3	
Summer	2022-09-21	2132	402980	FLRH	PaxLoc		19:32	20:03	0.2	
Summer	2022-09-21	2132	402980	FLRH	CrewChg		18:30	18:57	0.5	
Summer	2022-09-21	2132	402980	FLRH	Fuel	Yes	16:15	16:50	0.3	
Summer	2022-09-21	2132	402980	FLRH	PaxLoc		16:15	16:50	0.3	
Summer	2022-09-21	2132	402980	FLRH	PaxLoc		15:00	15:41	0.3	
Summer	2022-09-21	2132	402980	FLRH	Core	Yes	6:37	7:29	0.4	
Summer	2022-09-21	2132	402980	FLRH	CrewChg		6:37	7:29	0.5	
Summer	2022-09-21	2132	402980	FLRH	Floor	Yes	15:00	15:41	0.4	
Fall	2022-09-22	2133	402981	FLRH	Fuel	Yes	15:41	17:30	0.4	
Fall	2022-09-22	2133	402981	FLRH	Core	Yes	6:50	7:43	0.4	
Fall	2022-09-22	2133	402981	FLRH	Core	Yes	15:41	17:30	0.2	
Fall	2022-09-22	2133	402981	FLRH	DrillServ	Yes	15:41	17:30	1.2	
Fall	2022-09-22	2133	402981	FLRH	CrewChg		18:31	18:54	0.4	
Fall	2022-09-22	2133	402981	FLRH	Reposition	Yes	19:24	19:29	0.1	
Fall	2022-09-22	2133	402981	FLRH	CrewChg		6:50	7:43	0.5	
Fall	2022-09-23	2134	402982	FLRH	DrillServ	Yes	16:43	18:06	0.8	
Fall	2022-09-23	2134	402982	FLRH	CrewChg		7:01	7:29	0.5	
Fall	2022-09-23	2134	402982	FLRH	PaxLoc		8:12	8:28	0.3	
Fall	2022-09-23	2134	402982	FLRH	Move	Yes	8:55	10:47	1.9	
Fall	2022-09-23	2134	402982	FLRH	Move	Yes	11:07	11:45	0.4	
Fall	2022-09-23	2134	402982	FLRH	PaxLoc		11:07	11:45	0.2	
Fall	2022-09-23	2134	402982	FLRH	PaxLoc		16:43	18:06	0.2	
Fall	2022-09-23	2134	402982	FLRH	Fuel	Yes	16:43	18:06	0.4	
Fall	2022-09-23	2134	402982	FLRH	CrewChg		18:58	19:22	0.4	
Fall	2022-09-23	2134	402982	FLRH	PaxLoc		14:25	14:34	0.2	
Fall	2022-09-23	2134	402982	FLRH	PaxLoc		14:39	15:14	0.6	
Fall	2022-09-23	2134	402982	FLRH	PaxLoc		14:01	14:11	0.2	
Fall	2022-09-23	2134	402982	FLRH	PaxLoc		13:16	13:35	0.3	
Fall	2022-09-24	2135	402983	FLRH	Reposition	Yes	9:23	9:27	0.1	
Fall	2022-09-24	2135	402983	FLRH	DrillServ	Yes	9:58	10:58	1	
Fall	2022-09-24	2135	402983	FLRH	CrewChg		7:11	7:58	0.4	
Fall	2022-09-24	2135	402983	FLRH	DrillServ	Yes	11:42	12:23	0.4	
Fall	2022-09-24	2135	402983	FLRH	Fuel	Yes	11:42	12:23	0.3	
Fall	2022-09-24	2135	402983	FLRH	CrewChg		18:50	19:17	0.5	
Fall	2022-09-24	2135	402983	FLRH	Core	Yes	7:11	7:58	0.4	
Fall	2022-09-25	2136	402984	FLRH	DrillServ	Yes	7:09	8:38	0.3	
Fall	2022-09-25	2136	402984	FLRH	CrewChg		7:09	8:38	0.5	
Fall	2022-09-25	2136	402984	FLRH	Fuel	Yes	7:09	8:38	0.3	
Fall	2022-09-25	2136	402984	FLRH	Floor	Yes	10:34	11:04	0.4	
Fall	2022-09-25	2136	402984	FLRH	PaxLoc		10:08	10:20	0.2	
Fall	2022-09-25	2136	402984	FLRH	PaxLoc		10:34	11:04	0.1	
Fall	2022-09-25	2136	402984	FLRH	PaxLoc		11:43	12:46	0.4	
Fall	2022-09-25	2136	402984	FLRH	Fuel	Yes	11:43	12:46	0.3	
Fall	2022-09-25	2136	402984	FLRH	CrewChg		18:55	19:24	0.5	
Fall	2022-09-25	2136	402984	FLRH	Core	Yes	7:09	8:38	0.4	
Fall	2022-09-25	2136	402984	FLRH	DrillServ	Yes	11:43	12:46	0.4	
Fall	2022-09-26	2137	402985	FLRH	Move	Yes	14:05	16:07	1.8	
Fall	2022-09-26	2137	402985	FLRH	CrewChg		18:57	19:18	0.4	
Fall	2022-09-26	2137	402985	FLRH	Fuel	Yes	16:52	18:24	0.4	
Fall	2022-09-26	2137	402985	FLRH	PaxLoc		16:52	18:24	0.4	
Fall	2022-09-26	2137	402985	FLRH	PaxLoc		14:05	16:07	0.2	
Fall	2022-09-26	2137	402985	FLRH	PaxLoc		13:20	13:34	0.2	
Fall	2022-09-26	2137	402985	FLRH	Core	Yes	7:07	7:54	0.4	
Fall	2022-09-26	2137	402985	FLRH	CrewChg		7:07	7:54	0.4	
Fall	2022-09-26	2137	402985	FLRH	Move	Yes	16:52	18:24	0.7	
Fall	2022-09-27	2138	402986	FLRH	CrewChg		7:11	7:34	0.4	
Fall	2022-09-27	2138	402986	FLRH	CrewChg		18:56	19:25	0.5	
Fall	2022-09-27	2138	402986	FLRH	DrillServ	Yes	16:13	17:13	0.6	
Fall	2022-09-27	2138	402986	FLRH	Fuel	Yes	16:13	17:13	0.4	
Fall	2022-09-27	2138	402986	FLRH	PaxLoc		14:40	14:57	0.3	
Fall	2022-09-27	2138	402986	FLRH	PaxLoc		13:10	13:27	0.3	
Fall	2022-09-28	2139	402987	FLRH	CrewChg		8:35	9:10	0.6	
Fall	2022-09-28	2139	402987	FLRH	PaxLoc		14:27	15:33	0.5	
Fall	2022-09-28	2139	402987	FLRH	Fuel	Yes	14:27	15:33	0.3	
Fall	2022-09-28	2139	402987	FLRH	DrillServ	Yes	14:27	15:33	0.3	
Fall	2022-09-28	2139	402987	FLRH	CrewChg		18:53	19:19	0.4	
Fall	2022-09-28	2139	402987	FLRH	PaxLoc		17:22	17:44	0.4	
Fall	2022-09-29	2140	402988	FLRH	Reposition	Yes	7:31	9:06	0.1	
Fall	2022-09-29	2140	402988	FLRH	CrewChg		7:31	9:06	0.5	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Fall	2022-09-29	2140	402988	FLRH	DrillServ	Yes	7:31	9:06	0.5	
Fall	2022-09-29	2140	402988	FLRH	Core	Yes	17:01	17:27	0.4	
Fall	2022-09-29	2140	402988	FLRH	CrewChg		18:40	19:20	0.6	
Fall	2022-09-29	2140	402988	FLRH	Reposition	Yes	18:40	19:20	0.1	
Fall	2022-09-29	2140	402988	FLRH	Fuel	Yes	7:31	9:06	0.5	
Fall	2022-09-30	2142	957194	GJTI	Reposition	Yes	17:46	17:52	0.1	
Fall	2022-09-30	2142	957194	GJTI	PaxLoc		16:22	17:26	0.2	
Fall	2022-09-30	2142	957194	GJTI	CrewChg		18:39	19:13	0.6	
Fall	2022-09-30	2142	957194	GJTI	Core	Yes	16:22	17:26	0.4	
Fall	2022-09-30	2142	957194	GJTI	DrillServ	Yes	16:22	17:26	0.5	
Fall	2022-09-30	2141	402989	FLRH	CrewChg		7:39	8:09	0.5	
Fall	2022-09-30	2142	957194	GJTI	Reposition	Yes	12:03	12:09	0.1	
Fall	2022-09-30	2142	957194	GJTI	PaxLoc		13:56	15:11	0.2	
Fall	2022-09-30	2142	957194	GJTI	Fuel	Yes	13:56	15:11	1.1	
Fall	2022-10-01	2143	957195	GJTI	Move	Yes	9:06	10:54	0.7	
Fall	2022-10-01	2143	957195	GJTI	Move	Yes	17:00	18:54	1.2	
Fall	2022-10-01	2143	957195	GJTI	CrewChg		17:00	18:54	0.3	
Fall	2022-10-01	2143	957195	GJTI	PaxLoc		17:00	18:54	0.4	
Fall	2022-10-01	2143	957195	GJTI	Move	Yes	13:58	16:39	2.7	
Fall	2022-10-01	2143	957195	GJTI	Move	Yes	11:14	13:34	1	
Fall	2022-10-01	2143	957195	GJTI	Floor	Yes	11:14	13:34	0.9	
Fall	2022-10-01	2143	957195	GJTI	Floor	Yes	9:06	10:54	0.7	
Fall	2022-10-01	2143	957195	GJTI	PaxLoc		9:06	10:54	0.4	
Fall	2022-10-01	2143	957195	GJTI	PaxLoc		8:28	8:39	0.2	
Fall	2022-10-01	2143	957195	GJTI	CrewChg		7:38	8:07	0.5	
Fall	2022-10-01	2143	957195	GJTI	PaxLoc		11:14	13:34	0.4	
Fall	2022-10-02	2144	957196	GJTI	CrewChg		8:24	8:35	0.2	
Fall	2022-10-02	2144	957196	GJTI	PaxLoc		13:33	15:45	0.8	Bad weather.
Fall	2022-10-02	2144	957196	GJTI	DrillServ	Yes	13:33	15:45	1.4	Bad weather.
Fall	2022-10-03	2145	957197	GJTI	Floor	Yes	14:14	16:35	1.1	Wind.
Fall	2022-10-03	2145	957197	GJTI	CrewChg		16:51	19:02	0.3	
Fall	2022-10-03	2145	957197	GJTI	Fuel	Yes	16:51	19:02	0.4	
Fall	2022-10-03	2145	957197	GJTI	Move	Yes	16:51	19:02	1.2	
Fall	2022-10-03	2145	957197	GJTI	PaxLoc		16:51	19:02	0.3	
Fall	2022-10-03	2145	957197	GJTI	PaxLoc		14:14	16:35	0.2	Wind.
Fall	2022-10-03	2145	957197	GJTI	Reposition	Yes	13:28	13:34	0.1	
Fall	2022-10-03	2145	957197	GJTI	Move	Yes	8:19	10:48	1.9	Bad weather - wind.
Fall	2022-10-03	2145	957197	GJTI	Move	Yes	14:14	16:35	1.1	Wind.
Fall	2022-10-03	2145	957197	GJTI	CrewChg		8:19	10:48	0.2	
Fall	2022-10-03	2145	957197	GJTI	PaxLoc		8:19	10:48	0.4	
Fall	2022-10-04	2146	957198	GJTI	PaxLoc		9:22	9:40	0.3	
Fall	2022-10-04	2146	957198	GJTI	CrewChg		18:33	18:49	0.3	
Fall	2022-10-04	2146	957198	GJTI	PaxLoc		12:01	12:15	0.2	
Fall	2022-10-04	2146	957198	GJTI	PaxLoc		11:46	11:55	0.2	
Fall	2022-10-04	2146	957198	GJTI	PaxLoc		10:23	10:42	0.3	
Fall	2022-10-04	2146	957198	GJTI	CrewChg		7:41	8:06	0.4	
Fall	2022-10-04	2146	957198	GJTI	PaxLoc		11:00	11:09	0.2	
Fall	2022-10-05	2148	957199	GJTI	Floor	Yes	15:06	15:37	0.5	
Fall	2022-10-05	2148	957199	GJTI	Core	Yes	16:34	17:58	0.2	
Fall	2022-10-05	2148	957199	GJTI	DrillServ	Yes	16:34	17:58	0.3	
Fall	2022-10-05	2148	957199	GJTI	CrewChg		18:37	19:02	0.4	
Fall	2022-10-05	2148	957199	GJTI	PaxLoc		16:34	17:58	0.4	
Fall	2022-10-05	2148	957199	GJTI	Reposition	Yes	14:05	14:11	0.1	
Fall	2022-10-05	2148	957199	GJTI	CrewChg		7:41	8:01	0.3	
Fall	2022-10-05	2148	957199	GJTI	Fuel	Yes	16:34	17:58	0.5	
Fall	2022-10-06	2149	957200	GJTI	CrewChg		7:35	7:58	0.4	
Fall	2022-10-06	2149	957200	GJTI	PaxLoc		8:56	9:26	0.5	
Fall	2022-10-06	2149	957200	GJTI	Reposition	Yes	9:33	9:38	0.1	
Fall	2022-10-06	2149	957200	GJTI	PaxLoc		9:46	10:08	0.4	
Fall	2022-10-06	2150	578635	GJTI	Move	Yes	13:34	13:47	0.2	
Fall	2022-10-06	2150	578635	GJTI	Move	Yes	14:10	15:38	1.5	
Fall	2022-10-06	2150	578635	GJTI	Move	Yes	16:03	17:14	1.2	
Fall	2022-10-06	2150	578635	GJTI	CrewChg		18:30	18:54	0.4	
Fall	2022-10-07	2152	578636	GJTI	Fuel	Yes	9:32	10:18	0.2	
Fall	2022-10-07	2152	578636	GJTI	CrewChg		7:32	7:54	0.4	
Fall	2022-10-07	2152	578636	GJTI	CrewChg		18:22	18:43	0.4	
Fall	2022-10-07	2152	578636	GJTI	DrillServ	Yes	9:32	10:18	0.6	
Fall	2022-10-08	2155	578637	GJTI	CrewChg		18:09	18:32	0.4	
Fall	2022-10-08	2155	578637	GJTI	CrewChg		7:31	8:00	0.5	
Fall	2022-10-08	2155	578637	GJTI	DrillServ	Yes	9:14	10:20	0.7	
Fall	2022-10-08	2155	578637	GJTI	Fuel	Yes	9:14	10:20	0.4	
Fall	2022-10-09	2156	578638	GJTI	PaxLoc		15:02	15:31	0.5	
Fall	2022-10-09	2156	578638	GJTI	PaxLoc		13:21	13:59	0.6	
Fall	2022-10-09	2156	578638	GJTI	DrillServ	Yes	15:42	16:40	0.4	
Fall	2022-10-09	2156	578638	GJTI	Core	Yes	17:58	18:31	0.2	
Fall	2022-10-09	2156	578638	GJTI	CrewChg		17:58	18:31	0.4	
Fall	2022-10-09	2156	578638	GJTI	Ferry		12:45	13:09	0.4	
Fall	2022-10-09	2156	578638	GJTI	PaxLoc		11:44	11:54	0.2	
Fall	2022-10-09	2156	578638	GJTI	Floor	Yes	10:01	11:34	0.6	
Fall	2022-10-09	2156	578638	GJTI	Core	Yes	10:01	11:34	0.4	
Fall	2022-10-09	2156	578638	GJTI	Fuel	Yes	10:01	11:34	0.4	
Fall	2022-10-09	2156	578638	GJTI	PaxLoc		15:42	16:40	0.6	
Fall	2022-10-09	2156	578638	GJTI	CrewChg		7:32	8:01	0.5	
Fall	2022-10-09	2156	578638	GJTI	PaxLoc		10:01	11:34	0.2	
Fall	2022-10-10	2157	578639	GJTI	Core	Yes	17:01	18:42	0.1	
Fall	2022-10-10	2157	578639	GJTI	CrewChg		7:33	7:57	0.4	
Fall	2022-10-10	2157	578639	GJTI	Reposition	Yes	8:05	8:09	0.1	
Fall	2022-10-10	2157	578639	GJTI	Move	Yes	14:20	14:28	0.1	
Fall	2022-10-10	2157	578639	GJTI	Move	Yes	15:14	16:53	1.7	

Table E-1: Helicopter Flight Summary 2022

Season	Date	FltReportID	FltReportNo	Helicopter	Flight Type	Flight Type where Low Elevation Expected	Departure	Arrival	Time (hours)	Comment
Fall	2022-10-10	2157	578639	GJTI	Move	Yes	17:01	18:42	1.2	
Fall	2022-10-10	2157	578639	GJTI	CrewChg		17:01	18:42	0.4	
Fall	2022-10-11	2158	578640	GJTI	Reposition	Yes	12:41	12:48	0.1	
Fall	2022-10-11	2158	578640	GJTI	CrewChg		7:47	8:11	0.4	
Fall	2022-10-11	2158	578640	GJTI	Move	Yes	14:30	14:38	0.1	
Fall	2022-10-11	2158	578640	GJTI	Mbag		11:27	12:21	0.1	
Fall	2022-10-11	2158	578640	GJTI	DrillServ	Yes	11:27	12:21	0.3	
Fall	2022-10-11	2158	578640	GJTI	Floor	Yes	11:27	12:21	0.5	
Fall	2022-10-11	2158	578640	GJTI	Floor	Yes	9:41	11:08	0.5	
Fall	2022-10-11	2158	578640	GJTI	Fuel	Yes	9:41	11:08	0.5	
Fall	2022-10-11	2158	578640	GJTI	PaxLoc		9:41	11:08	0.1	
Fall	2022-10-11	2158	578640	GJTI	Move	Yes	9:41	11:08	0.4	
Fall	2022-10-11	2158	578640	GJTI	Move	Yes	15:11	15:32	0.4	
Fall	2022-10-13	2160	578642	GJTI	Floor	Yes	11:45	12:52	0.3	
Fall	2022-10-13	2160	578642	GJTI	Floor	Yes	13:31	14:12	0.7	
Fall	2022-10-13	2160	578642	GJTI	Fuel	Yes	11:45	12:52	0.5	
Fall	2022-10-13	2160	578642	GJTI	Core	Yes	11:45	12:52	0.3	
Fall	2022-10-16	2163	578645	GJTI	Move	Yes	10:40	10:48	0.1	
Fall	2022-10-16	2163	578645	GJTI	Move	Yes	13:39	15:22	1.7	
Fall	2022-10-16	2163	578645	GJTI	Floor	Yes	9:42	10:30	0.8	
Fall	2022-10-16	2163	578645	GJTI	Move	Yes	10:56	13:22	2.4	

APPENDIX F

Hunter Harvest Study



MEADOWBANK COMPLEX MINE

2022 HUNTER HARVEST STUDY AND CREEL SURVEY SUMMARY REPORT

10 MARCH 2023 FINAL

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SECTION 1 • EXECUTIVE SUMMARY

A Baker Lake Hunter Harvest Study (HHS) conducted from 2007 to 2015 was relaunched in 2019 and continued into 2022. The 2022 study included 59 participants of which 55 reported harvesting Caribou (*Rangifer tarandus*). Given an estimated 300 to 350 active hunters in the Hamlet of Baker Lake, the HHS represents from 11 to 13% of hunters in the community. With a total reported Caribou harvest of 766 in 2022, the total Caribou harvest in Baker Lake is estimated to range from 4,256 to 4,788 Caribou. This estimate is likely high because the current study attracted some of the more successful hunters (e.g., Baker Lake Hunters and Trappers Organization members) in the community.

Compared to the average across other years, Caribou in 2022 were harvested at the same percentage within 5 km of the All-Weather Access Road (i.e., 39%) and at a lower percentage (70%) within the Regional Study Area (RSA). Harvest levels in 2022 near mining facilities were well within threshold levels established during the impact assessment (i.e., Caribou harvest levels within the RSA).

Eighteen (18) Muskox (*Ovibos moschatus*) and 25 Wolverine (*Gulo gulo*) were harvested in 2022, which is higher than in 2021. A total of 92 Wolves (*Canis lupus*) were reported as being harvested in 2022, which is considerably higher than the 26 reported in 2021. Arctic Fox (*Vulpes lagopus*), Red Fox (*Vulpes vulpes*), Grizzly Bear (*Ursus arctos*), Ermine (*Mustela richardsonii*), and American Marten (*Martes americana*) were also harvested. Several bird species were harvested in 2022 with the most common species being Canada Goose (*Branta canadensis*).

For the first time in the HHS, Beluga (*Huso huso*), Bearded Seal (*Erignathus barbatus*), Harp Seal (*Pagophilus groenlandicus*), and Ringed Seal (*Pusa hispida*), were reported as being harvested by Baker Lake hunters but all were harvested well beyond the RSA (e.g., Christopher Island at the east end of Baker Lake).

Lake Trout (*Salvelinus namaycush*) and Arctic Char (*Salvelinus alpinus*) were the most common species caught by fisherman and were reported at considerably higher numbers than in 2021.

SECTION 2 • OVERVIEW

As outlined in the original TEMP (Cumberland 2006) and the June 2019 version (Agnico Eagle 2019), and as a requirement of NIRB Project Certificate No. 004 Terms and Conditions 51 and 54, the Baker Lake Hunter Harvest Study (HHS) was initiated in March 2007 by Agnico Eagle. The HHS was conducted in association with the Baker Lake Hunters and Trappers Association (HTO) to monitor and document the spatial distribution, seasonal patterns, and harvest rates of hunter kills and angler catches within the Meadowbank Regional Study Area (RSA).

After low participation during the first year of the study, methods were strategically adapted, participation increased steadily, and valuable information on harvest patterns in the Baker Lake area was collected. The HHS, through regular visits, contributed to developing a strong relationship with local harvesters, the HTO, and the Government of Nunavut, Department of Environment (GN). Data were provided annually in monitoring reports from 2007 to 2015 and in 2019 to 2021.

The HHS was suspended for three years (2016 to 2018) to develop new approaches and direction. Following consultation with the HTO, Kivalliq Inuit Association (KivIA), GN, and other agencies in November 2016 (Winnipeg) and June 2017 (Ottawa), Agnico Eagle reinitiated the HHS in March 2019, which for the first time also encompassed the Whale Tail RSA as part of the Meadowbank Complex. The study approach was similar to previous years, but suggestions and guidance received during the consultation period were incorporated into the study. The study was conducted from 2020 to 2022 and continues into 2023.

SECTION 3 • OBJECTIVES

The primary objectives of the HHS are to monitor potential project-related effects on harvesting of wildlife by residents of Baker Lake. This objective is achieved by estimating the following key metrics:

1. The distribution of Caribou (*Rangifer tarandus*), Muskox (*Ovibos moschatus*), and Wolverine (*Gulo gulo*) harvest by residents of Baker Lake; and
2. The total level (or an index of) Caribou, Muskox, and Wolverine harvest by residents of Baker Lake.

Other objectives of the HHS, established in consultation with the Terrestrial Advisory Group (TAG), or other participants include:

- 1) Supporting creel surveys by gathering information on Arctic Char (*Salvelinus alpinus*), Lake Trout (*Salvelinus namaycush*), Lake Whitefish (*Coregonus clupeaformis*), and Arctic Grayling (*Thymallus arcticus*) catch rates and Inuit-use patterns in the Baker Lake area;
- 2) Understanding regional distribution of hunting and fishing activity;
- 3) Investigating seasonal timing of hunting and fishing activity; and
- 4) Determining whether increased harvest and catch rates are associated with the Meadowbank All-Weather Access Road (AWAR) and Whale Tail Haul Road (WTHR).

As discussed during consultation with stakeholders, the HHS will further seek to: a) increase and maintain the hunter participant rate in the future of the program; b) improve resource protection; c) improve hunter awareness and education; d) increase the integration of Inuit Qaujimajatuqangit and Traditional Knowledge; e) increase availability of data to support a collective approach to understanding wildlife harvest; and f) assist Agnico Eagle in mitigative actions and the GN in management decisions.

SECTION 4 • METHODOLOGY

The wildlife species that are the focus of the HHS are Caribou, Muskox and Wolverine; however, harvest data on other species, such as Wolf (*Canis lupus*), Arctic Fox (*Vulpes lagopus*), geese and other birds are also collected. The few species in the study were deliberately chosen to make data entry and collection as simple as possible. To support creel surveys, data on fish harvest (i.e., Arctic Char, Lake Trout, Lake Whitefish, and Arctic Grayling) are also collected.

Inuit and non-Inuit residents, at least 16 years of age, are eligible to participate in the harvest survey. Harvest calendars are provided on a household basis, rather than an individual basis, to simplify data entry and collection, and reflect household hunting patterns. The harvest calendar is attractive and consists of local photographs of wildlife and Baker Lake residents (see **Appendix A** for 2022 calendar). Space is provided for each calendar day where harvest details can be documented. A map is provided at the end of the calendar that delineates a 4 km² UTM grid within the Baker Lake and Meadowbank Complex areas. Each grid has a unique code to facilitate recording of information. When calendars are issued, participants or participating households are encouraged to write harvest details (e.g., number of animals, sex, age, and location [i.e., grid code]) for the appropriate date on the calendar.

Participants were interviewed in person three times during the year (i.e., June 2022, October 2022, and February 2023) by the harvest study coordinator. During the February 2023 interviews, remaining data from 2022 were collected. The purpose of the interviews is to ensure all harvest data are recorded on the calendars and to collect incidental information to compliment calendar data, including notable Caribou movements, aggregations, and unique observations. Between interview periods, participants were often contacted by phone or social media to encourage recording of harvest data.

Features of the 2022 HHS included: 1) building long-term relationships between participants and researchers; 2) increasing engagement with participants on social media platforms such as Facebook and Instagram; and 3) increasing incentives for participating in the study (e.g., gas vouchers and prizes).

SECTION 5 • HISTORICAL RESULTS

The Baker Lake HTO member list (provided by Ms. Joan Scottie [HTO Board Member] in 2008) consisted of 683 local area hunters/trappers/fishermen (collectively termed 'hunter' for the remainder of this memo), a number that has likely changed since then. The member count in 2008 was a highly conservative (i.e., high) estimate of the number of individuals that hunt, trap or fish in the community as the list typically includes entire families. If just the heads of each household are counted, there were 389 potential hunters within the Baker Lake community in 2008. Although this value is still likely conservative (given that many of these individuals do not actively hunt or fish), the number is more comparable to the comprehensive 5-year Nunavut Wildlife Harvest Study (NWMB 2005) in which 336 Baker Lake hunters were contacted and interviewed.

Between 1996 and 2001, 18% of Caribou harvests were estimated to be within 5 km of the AWAR (prior to construction) and 67% of harvests occurred within the RSA (NWMB 2005). In the first year of the HHS study (2007), prior to completion of the AWAR, 34% of harvests were reported within 5 km of the AWAR alignment and 79% were recorded within the RSA. The HHS data (2007 to 2015 and 2019 to 2021) fluctuated between 34 and 43% of reported harvest within 5 km of the AWAR, and between 64 and 85% within the RSA.

In 2008, 296 Caribou were reported as being harvested by Baker Lake HHS study participants. Harvest numbers steadily increased to 685 in 2011, and then decreased to 269 in 2014, the lowest reported harvest in seven years, and 305 in 2015. Between 2016 and 2018 (3 years) the HHS was not conducted. Total Caribou harvests in 2019 (647 animals) and 2020 (652) were higher than the in 2021, when a total of 513 Caribou were harvested. If an average of approximately 10% of all Baker Lake hunters actively participated in the study (5% estimated for 2014), extrapolation of historical HHS values suggests approximately 3,000 to 6,000 Caribou are harvested each year in the Hamlet of Baker Lake. These estimates are in general agreement with historical harvest studies. Specifically, using the upper limit of the standard error in the Nunavut Wildlife Harvest Study, between 2,230 and 3,116 Caribou were harvested each year between 1996 and 2001 (NWMB 2005). Similarly, the Interdisciplinary Systems (IDS) report (IDS 1978) estimated an annual Caribou harvest in Baker Lake of 4,100 during the 1970s.

Based on the NWMB (2005) and HHS results (2007 to 2015 and 2019 to 2021), highest Caribou harvests have occurred in September and October, with a second smaller peak in March and April. The similar pattern between the studies indicates that seasonal hunting preferences have not changed markedly in the last two decades.

Reported harvests of Muskox and Wolverine were low in 2021. Low densities of these species and their general aversion to humans require hunters to hunt well away from the AWAR; therefore, the presence of the AWAR is thought to have little effect on participant hunting patterns for Muskox and Wolverine. Wolverine harvest reports decreased from a maximum of 15 animals in 2010 to one (1) animal in 2015; however, in 2019 and 2020, reported Wolverine harvests were at an all-time high of 18 and 22 individuals, respectively.

SECTION 6 • 2022 HUNTER HARVEST STUDY RESULTS

6.1 NUMBER OF HUNTERS

The HHS included 59 participants by the end of 2022, which is higher than the 55 participants in 2021 and lower than the 64 participating in 2020. Higher numbers in 2022 are because of several new younger participants that are replacing older hunters that “don’t hunt anymore”. Of the 2022 participants, Caribou harvest data had been collected from 55 participants, which is considerably higher than the 39 hunters reporting Caribou harvests in 2021 and the highest number since the HHS began.

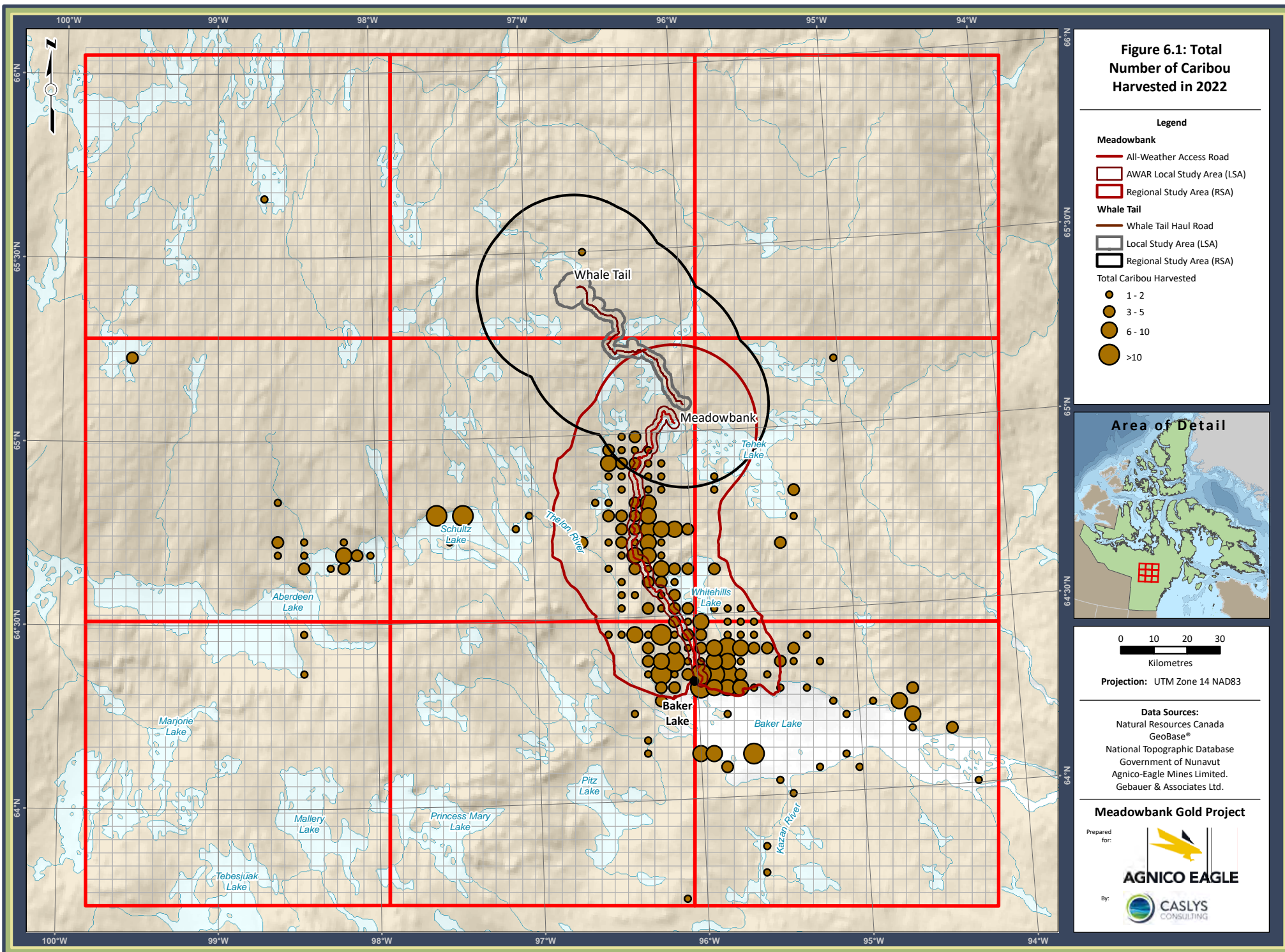
Based on the previous discussion of total numbers of hunters in the Hamlet of Baker Lake (**Section 5 Historical Results**), there were 389 potential hunters within the Baker Lake community in 2008. The number is comparable to the comprehensive 5-year Nunavut Wildlife Harvest Study (NWMB 2005) in which 336 Baker Lake hunters were contacted and interviewed. Discussions with Baker Lake HTO members in 2019 suggest the total number of hunters is over 300. Given the historical and current number of hunters in Baker Lake, an estimate of 300 to 350 active hunters is used in this analysis. Based on these numbers, the 55 hunters reporting Caribou harvest in 2022 conservatively represent from 16 to 18% of total hunters in the community.

6.2 DISTRIBUTION OF HUNTING

Figure 6.1 shows the distribution of Caribou harvest within the HHS data collection area. Hunting is highly concentrated in the vicinity of the Hamlet of Baker Lake and along the AWAR to approximately KM 85. Limited harvests were reported along the Thelon River system to Aberdeen Lake, and along the northeastern and southwestern shores of Baker Lake. Annual variation in harvest location and intensity is attributable to numerous factors. For instance, many hunters have stated during informal discussions that they have a ‘favorite’ hunting area that they frequent each year. Some hunters have stated that they prefer hunting in ‘convenient’ locations, whereas other hunters prefer remote locations well away from frequented areas. A percentage of hunters also enjoyed partaking in long distance hunting trips over multiple days.

Between 1996 and 2001, 18% of Caribou harvests were estimated to be within 5 km of the AWAR (prior to construction) and 67% of harvests occurred within the Meadowbank RSA (NWMB 2005). In the first year of the HHS study (2007), prior to completion of the AWAR, 34% of harvests were reported within 5 km of the AWAR alignment and 79% were recorded within the Meadowbank RSA (see **Table 6.1**). The HHS data (2007 to 2015 and 2019 to 2021) fluctuated between 34 and 54% of reported harvest within 5 km of the AWAR, and between 64 and 85% within the Meadowbank RSA. The 2022 HHS data indicated that 39% of reported harvest occurred within 5 km of the AWAR, and 70% occurred within the Meadowbank RSA (see **Table 6.1**). As was the case in other years, threshold levels of 20% set for monitoring the effects of the Meadowbank mine development (note – does not include the Whale Tail mine, which was approved under a separate permit with a different effect assessment) on the distribution of Caribou harvest within the RSA were not exceeded (see **Figure 6.2**).

Figure 6.1: Total Number of Caribou Harvested in 2022



2022 HUNTER HARVEST STUDY SUMMARY

Table 6.1: Caribou Harvest Distribution along the AWAR and within the Meadowbank LSA and RSA (1996 to 2001 [NWMB], and 2007 to 2015 and 2019 to 2022 [Baker Lake HHS]).

Study	Participation Rate within 5 km of AWAR (% of total hunters)	Average Caribou Harvest within 5 km of AWAR per Participant	% of Annual Harvest within 5 km of AWAR	% of Annual Harvest within Meadowbank LSA	% of Annual Harvest within Meadowbank RSA
NWMB 1996 to 2001	n/a	n/a	18	7	67
Baker Lake HHS 2007	17 (49%)	4.8	34	12	79
Baker Lake HHS 2008	16 (94%)	6.9	37	28	73
Baker Lake HHS 2009	27 (75%)	7.9	36	20	78
Baker Lake HHS 2010	33 (89%)	7.3	38	22	73
Baker Lake HHS 2011	40 (85%)	7.1	42	25	74
Baker Lake HHS 2012	31 (67%)	5.6	35	20	80
Baker Lake HHS 2013	38 (86%)	4.8	43	27	85
Baker Lake HHS 2014	19 (70%)	5.7	40	28	83
Baker Lake HHS 2015	24 (67%)	6.9	54	34	84
Baker Lake HHS 2019	40 (95%)	5.4	34	22	64
Baker Lake HHS 2020	34 (79%)	5.8	30	19	62
Baker Lake HHS 2021	34 (87%)	6.6	43	32	71
Baker Lake HHS 2022	50 (91%)	6.0	39	24	70
Average (2007 to 2021)	29 (79%)	6.2	39	24	76
Average (2007 to 2022)	31 (80%)	6.2	39	24	75

In 2022, no Caribou were harvested within 5 km of the WTHR, which compares to no reported harvest during the NWMB harvest study and three (3) Caribou harvested in 2021 (see **Table 6.2**). Overall harvest numbers were too low to determine whether harvests have increased following construction of the WTHR. Within the Whale Tail RSA (note – overlaps with the Meadowbank RSA), a total of 34 harvests were reported in 2022, which is just above the average across the first 12 years of the study but lower than reported harvests in 2021 (48), 2019 (85), 2015 (53), and 2011 (103 Caribou). Given the low numbers of reported harvests close to the WTHR and the prohibition of the public from the WTHR, it is unlikely that the presence of the road has resulted in increased harvest.

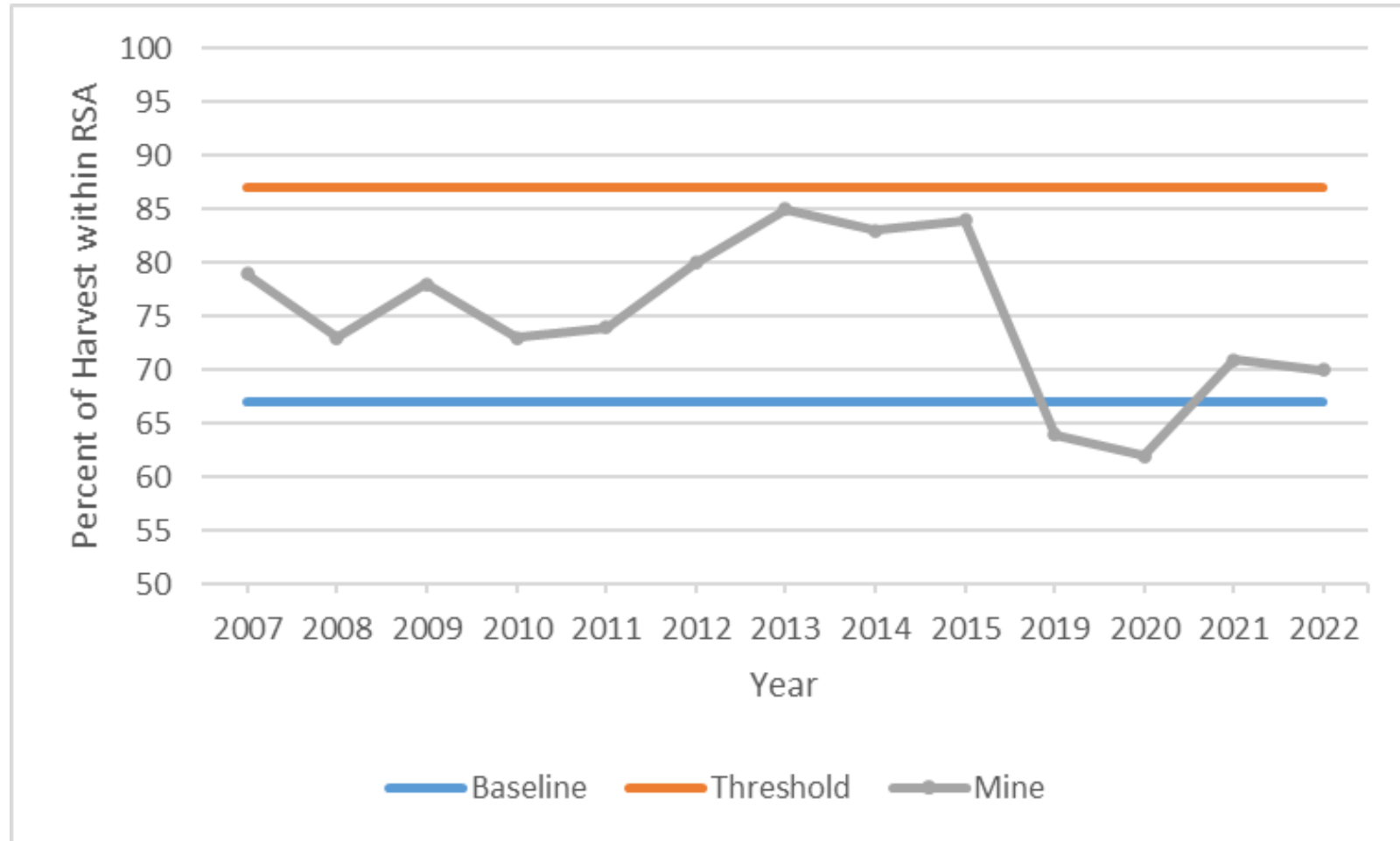


Figure 6.2: Percent of Caribou Harvest within the Meadowbank RSA from 2007 to 2015 (Years 1 to 9), and 2019 to 2022 (Years 10 to 13) Compared to Baseline and Threshold Levels.

Table 6.2: Caribou Harvest Distribution along the WTHR and within the Whale Tail LSA and RSA (1996 to 2001 [NWMB], and 2007 to 2015 and 2019 to 2022 [Baker Lake HHS]).

Study	Annual Harvest within 5 km of WTHR	Annual Harvest within Whale Tail LSA	Annual Harvest within Whale Tail RSA
NWMB 1996 to 2001	0	0	17
Baker Lake HHS 2007	1	1	1
Baker Lake HHS 2008	0	0	15
Baker Lake HHS 2009	1	0	15
Baker Lake HHS 2010	0	0	20
Baker Lake HHS 2011	0	0	103
Baker Lake HHS 2012	0	0	7
Baker Lake HHS 2013	0	0	16
Baker Lake HHS 2014	0	0	17
Baker Lake HHS 2015	0	0	53
Baker Lake HHS 2019	5	5	85
Baker Lake HHS 2020	0	0	12
Baker Lake HHS 2021	3	3	48
Baker Lake HHS 2022	0	0	34
Average (2007 to 2021)	0.83	0.75	32.67
Average (2007 to 2022)	0.77	0.69	32.77

6.3 MAGNITUDE OF HUNTING

In 2022, a total of 766 Caribou were reported as being harvested by 55 participants in the Baker Lake HHS, which includes harvests in the Meadowbank and Whale Tail study areas (see **Table 6.3**). The number of participants reporting harvest and the total number of Caribou reported as being harvested are the highest since the HHS was initiated. Given that the 55 hunters represent an estimated 16 to 18% of the Baker Lake hunting community (see **Section 6.1**), the total estimated number of Caribou harvested in 2022 in the Baker Lake community ranged from 4,256 to 4,788 animals, which is slightly higher than in 2021 (i.e., range of 3,946 to 4,664 animals). This estimate is very likely conservative (i.e., high) since the Baker Lake HHS targeted known hunters in the community with some known to be particularly successful.

2022 HUNTER HARVEST STUDY SUMMARY

Table 6.3: Hunter Caribou Harvest Statistics from the NWMB (2005) Study and Baker Lake HHS (2007 to 2015; 2019 to 2022), which includes the Meadowbank and Whale Tail Areas.

Baker Lake Hunter Harvest Study – Agnico Eagle Mines Ltd.

Year	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
2007	0	7	89	22	44	6	6	6	37	14	5	2	238
2008	13	15	14	10	19	14	25	34	56	47	24	25	296
2009	42	52	41	28	28	18	30	88	114	102	11	33	587
2010	27	35	34	66	47	41	46	67	82	117	48	18	628
2011	14	47	64	53	78	39	42	35	123	108	2	75	680
2012	43	30	60	71	41	44	13	19	39	37	72	27	496
2013	5	47	55	28	18	18	20	46	76	40	35	32	420
2014	13	26	20	42	7	11	4	5	43	68	14	16	269
2015	7	9	17	13	6	46	12	8	66	74	35	12	305
2019	7	25	72	86	30	39	17	29	52	187	55	48	648
2020	6	14	8	14	12	16	18	95	119	151	88	111	652
2021	29	27	61	16	44	23	20	54	90	54	36	56	513
2022	35	15	33	29	79	14	28	113	113	219	46	42	766
Total #	241	349	568	478	453	329	281	599	1010	1218	474	497	6,497
Average	20.1	26.8	43.7	36.8	34.8	25.3	21.6	46.1	77.7	93.7	36.5	38.2	499.8
% of Total	3.7%	5.4%	8.7%	7.4%	7.0%	5.1%	4.3%	9.2%	15.5%	18.7%	7.3%	7.6%	100.0%

2022 HUNTER HARVEST STUDY SUMMARY

Table 6.3: Continued.

Nunavut Wildlife Harvest Study - Nunavut Wildlife Management Board (NWMB)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
1996						141	190	490	428	435	202	178	2,064
1997	118	144	146	167	217	159	162	354	322	553	295	196	2,833
1998	137	124	192	193	159	85	163	153	272	407	254	135	2,274
1999	137	131	99	211	222	111	148	433	528	409	74	66	2,569
2000	96	86	75	135	213	76	187	333	309	98	186	163	1,957
2001	150	126	146	156	127								705
Total #	638	611	658	862	938	572	850	1,763	1,859	1,902	1,011	738	12,402
Average	127.6	122.2	131.6	172.4	187.6	114.4	170	352.6	371.8	380.4	202.2	147.6	2,067
% of Total	5.1	4.9	5.3	7.0	7.6	4.6	6.9	14.2	15.0	15.3	8.2	6.0	100.0

6.4 SEASONAL DISTRIBUTION AND TIMING OF HUNTING

Based on the NWMB (2005) and inclusive Baker Lake HHS results (2007 to 2015; 2019 to 2022), highest Caribou harvests have occurred in September and October, with a second smaller peak in March and April (see **Figure 6.3**). The similar pattern between the studies indicates that seasonal hunting preferences have not changed markedly in the last decade. More details on the seasonal timing of harvest in 2022 can be found in **Figure 6.4** (i.e., numbers of animals harvested, numbers of participants, and average number of animals harvested by participant by month) and **Figure 6.5** (i.e., Caribou harvest numbers by season and proximity to the access roads).

The seasonal distribution of hunting is illustrated in **Figures 6.6a to 6.6d**, representing the spring, summer, fall and winter Caribou seasons outlined in the TEMP. In spring, overall Caribou hunting in the Meadowbank RSA was generally low with hunting occurring primarily in the Whitehills Lake area, along the Thelon River, and at the southwestern end of Baker Lake (**Figure 6.6a**). Within the Whale Tail RSA, only one Caribou was harvested at the south end of Tehek Lake, which is also within the Meadowbank RSA (**Figure 6.6a**). During the summer, Caribou in the Meadowbank RSA were harvested across a larger area but particularly along the AWAR up to around Km 85, near the Hamlet of Baker Lake, along the Thelon River to Aberdeen Lake, and around Baker Lake (**Figure 6.6b**). One Caribou was reported as being harvested north of the Whale Tail mine site and many Caribou were harvested up to around Km 85 at the south end of the Whale Tail RSA (**Figure 6.6b**). In the fall, hunting was much more concentrated along the AWAR around the Hamlet of Baker Lake and in the vicinity of Whitehills Lake, around the Prince River, and along the southwestern shore of Baker Lake (**Figure 6.6c**). Caribou were not reported as being harvested along the WTHR in fall 2022 (**Figure 6.6c**). In winter, fewer Caribou were hunted along the AWAR (**Figure 6.6d**) and successful hunters were those that travelled further afield by snowmobile (e.g., along the Thelon River to Aberdeen Lake and the south side of Baker Lake).

6.5 OTHER WILDLIFE SPECIES

There were 18 reported harvests for Muskox in 2022, which is considerably higher than the two (2) reported harvests in 2021. Muskox harvests were generally located east of the AWAR and within the Meadowbank RSA (**Figure 6.7**). Wolverines (total of 25 in 2022) were hunted in the Whitehills Lake area, along the Thelon River to Schulz and Aberdeen lakes, and at the southwestern end of Baker Lake (see **Figure 6.8**). Wolves (total of 92 in 2022; considerably higher than the 26 reported in 2021 and comparable to the 88 reported in 2020) were either harvested close to Baker Lake, in the Whitehills Lake area, or near Aberdeen Lake area (**Figure 6.8**). In 2022, the presence of the AWAR may have had some influence on participant hunting patterns for Wolf.

Arctic Fox (total of 36 in 2022; compared to 5 in 2021 and 11 in 2020) was primarily trapped in the vicinity of the Hamlet of Baker Lake, while Red Fox (1 individual) was harvested near the Hamlet of Baker Lake (**Figure 6.7**). Two (2) Grizzly Bears were taken in 2022: one east of the AWAR and north of Whitehills Lake, and the other at the southwestern end of Baker Lake (**Figure 6.7**). Other rare mammal species reported as being harvested were Ermine (*Mustela richardsonii*; 2 individuals) and American Marten (*Martes americana*; 1 individual), all of which were harvested near or within the Hamlet of Baker Lake.

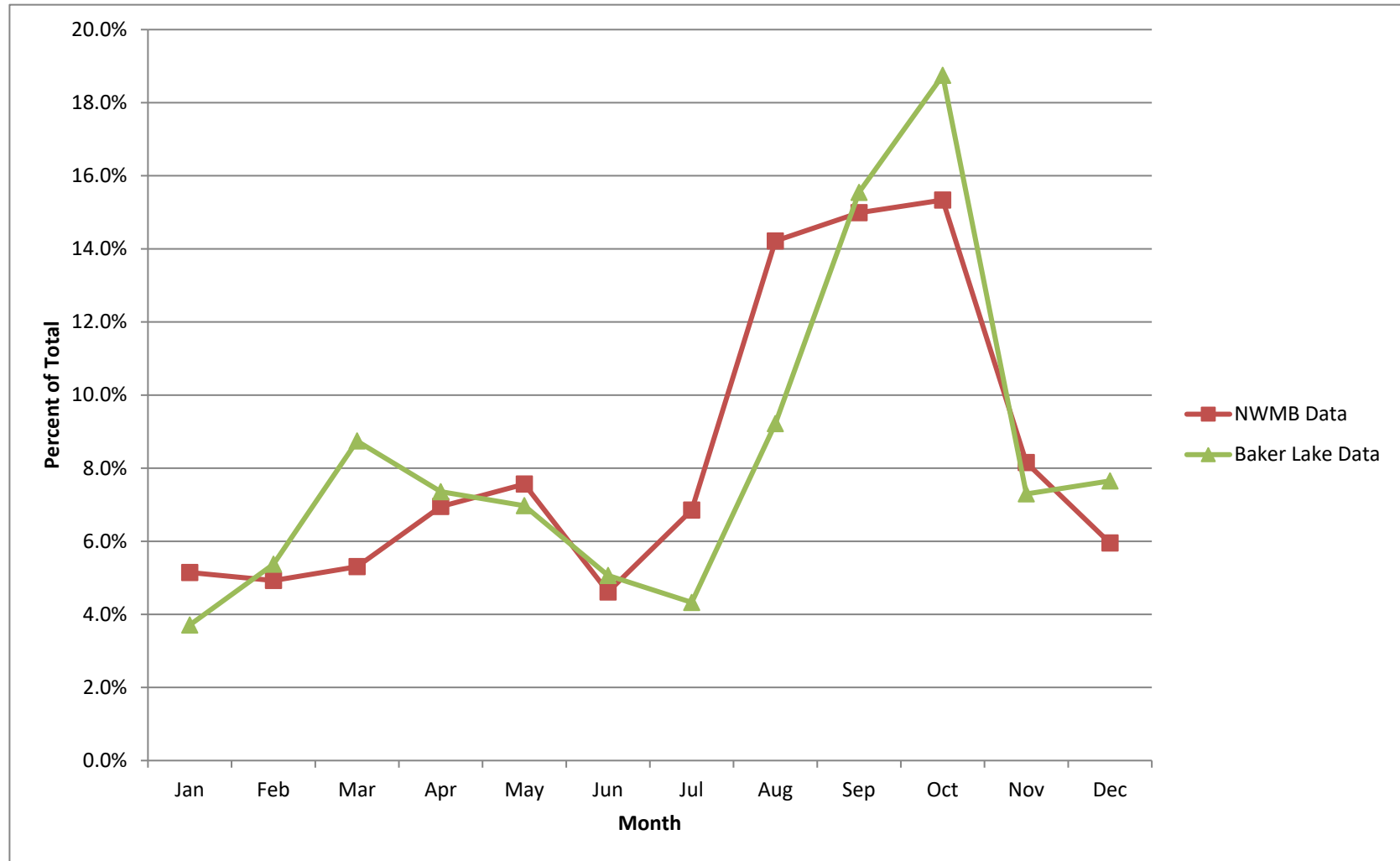


Figure 6.3: Seasonal Trends in Caribou Harvest from the Baker Lake HHS (2007 to 2015; 2019 to 2022) and the NWMB Study (1996 to 2001).

2022 HUNTER HARVEST STUDY SUMMARY

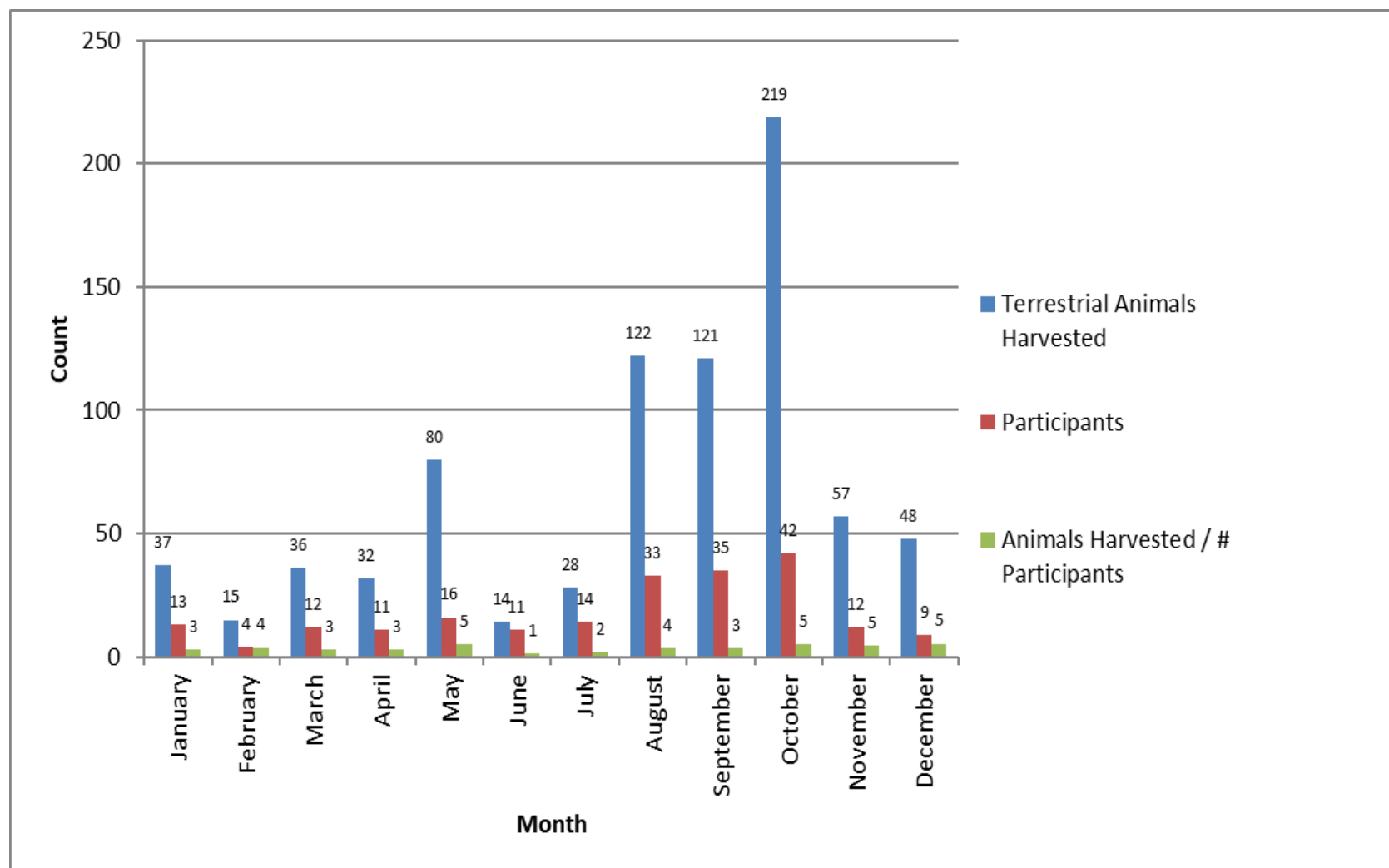


Figure 6.4: Terrestrial Animals Harvested per Month and by Participant in 2022.

2022 HUNTER HARVEST STUDY SUMMARY

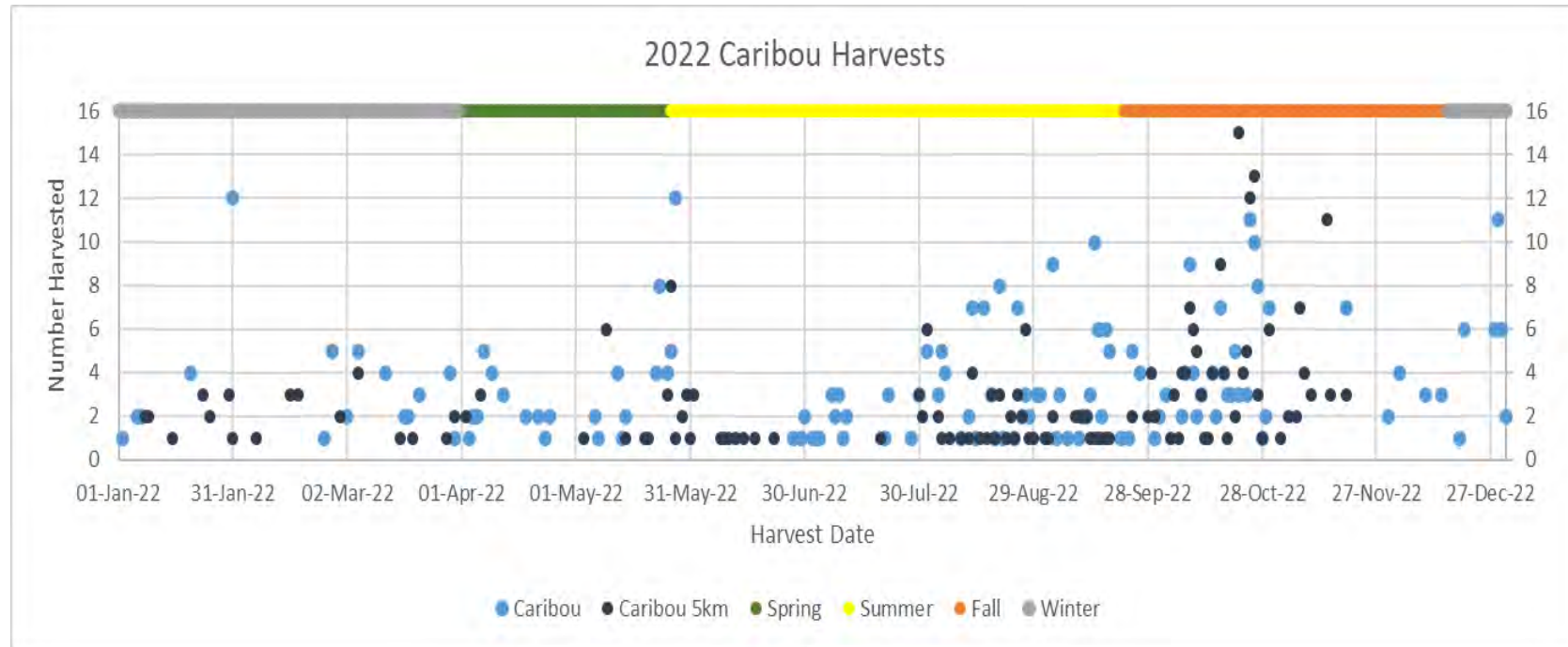





Figure 6.5: Number of Caribou harvested in each Caribou Season and Proximity to Access Roads in 2022.




Figure 6.6a: Total Number of Caribou Harvested Spring 2022 (Apr 1 - May 25)

Legend

Meadowbank

-  All-Weather Access Road
-  AWAR Local Study Area (LSA)
-  Regional Study Area (RSA)

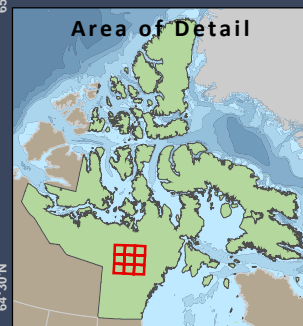
Whale Tail

-  Whale Tail Haul Road
-  Local Study Area (LSA)
-  Regional Study Area (RSA)

Total Caribou Harvested

-  1 - 2
-  3 - 5
-  >5

Area of Detail



Projection: UTM Zone 14 NAD83

Data Sources:

Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited,
Gebauer & Associates Ltd.

Meadowbank Gold Project

Prepared for:



By:

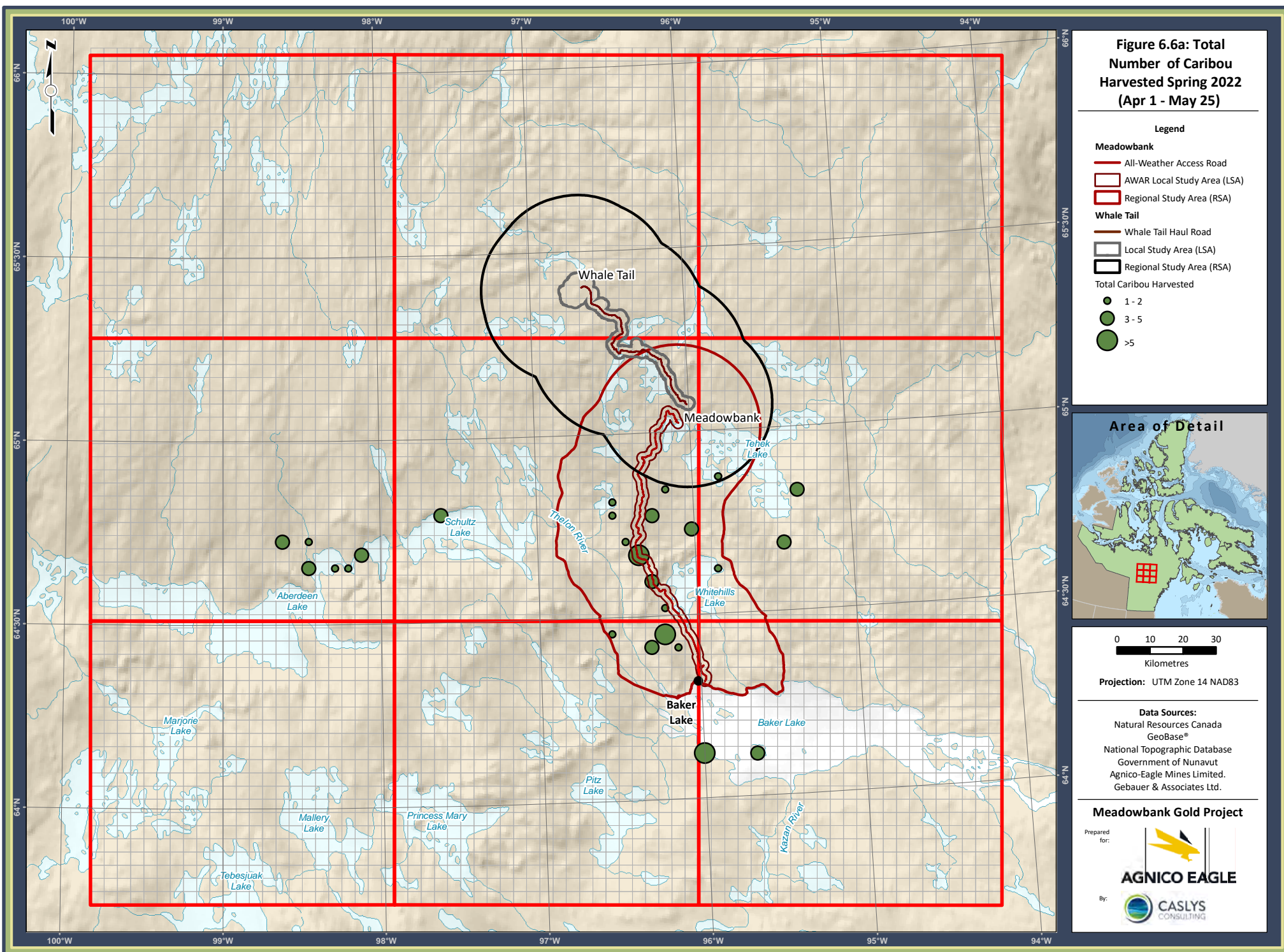


Figure 6.6b: Total Number of Caribou Harvested Summer 2022 (May 26 - Sep 21)

Legend

Meadowbank

- All-Weather Access Road
- AWAR Local Study Area (LSA)
- Regional Study Area (RSA)

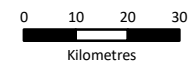
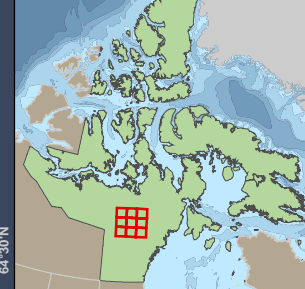
Whale Tail

- Whale Tail Haul Road
- Local Study Area (LSA)
- Regional Study Area (RSA)

Total Caribou Harvested

- 0 - 2
- 3 - 5
- 6 - 10
- >10

Area of Detail



Projection: UTM Zone 14 NAD83

Data Sources:

Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
Gebauer & Associates Ltd.

Meadowbank Gold Project

Prepared for:



By:

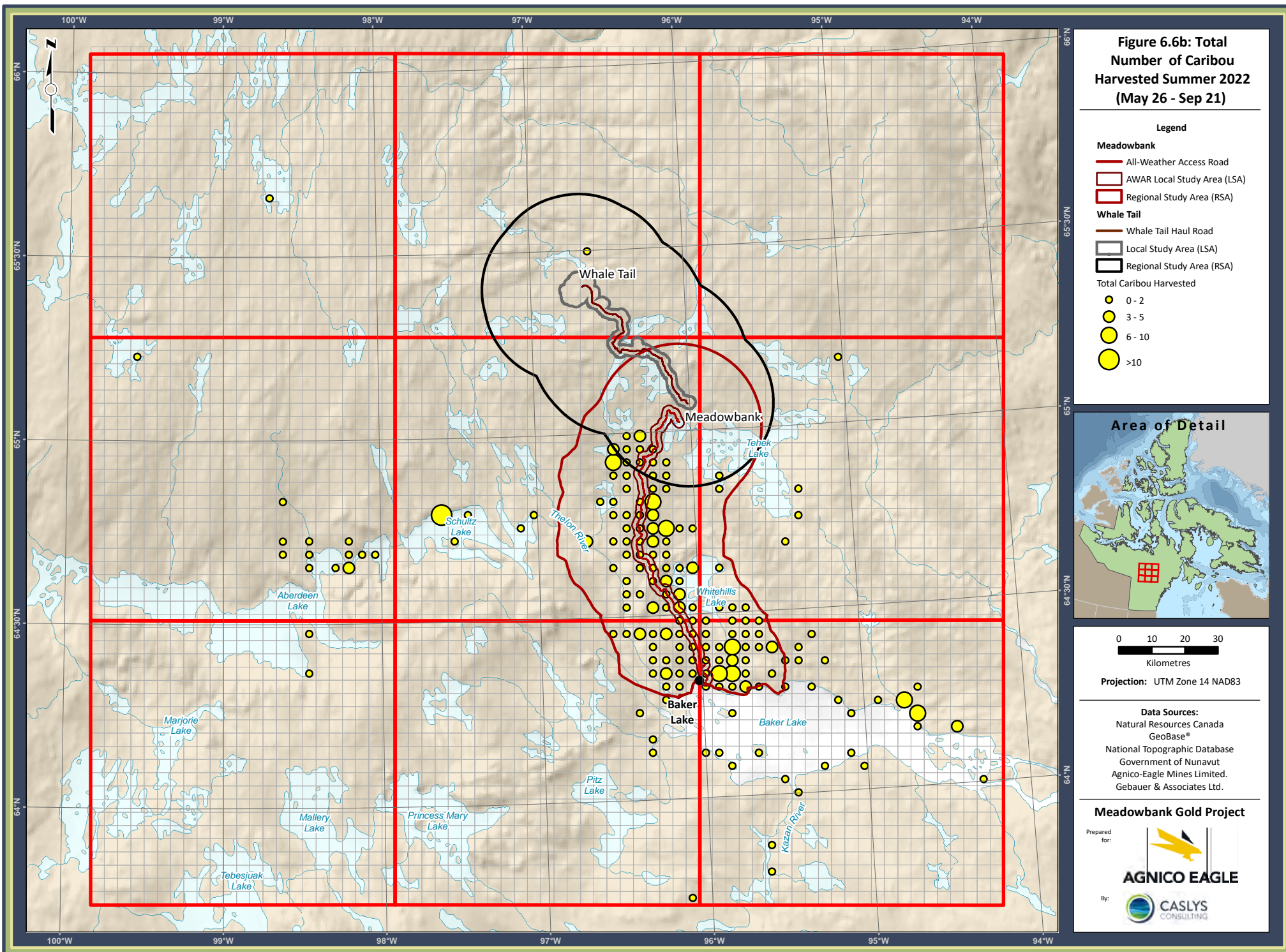


Figure 6.6c: Total Number of Caribou Harvested Fall 2022 (Sep 22 - Dec 15)

Legend

Meadowbank

- All-Weather Access Road
- AWAR Local Study Area (LSA)
- Regional Study Area (RSA)

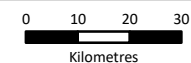
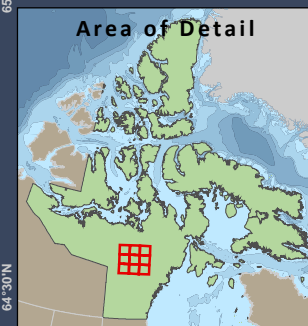
Whale Tail

- Whale Tail Haul Road
- Local Study Area (LSA)
- Regional Study Area (RSA)

Total Caribou Harvested

- 1 - 2
- 3 - 5
- 6 - 10
- >10

Area of Detail



Projection: UTM Zone 14 NAD83

Data Sources:

Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
Gebauer & Associates Ltd.

Meadowbank Gold Project

Prepared for:



By:

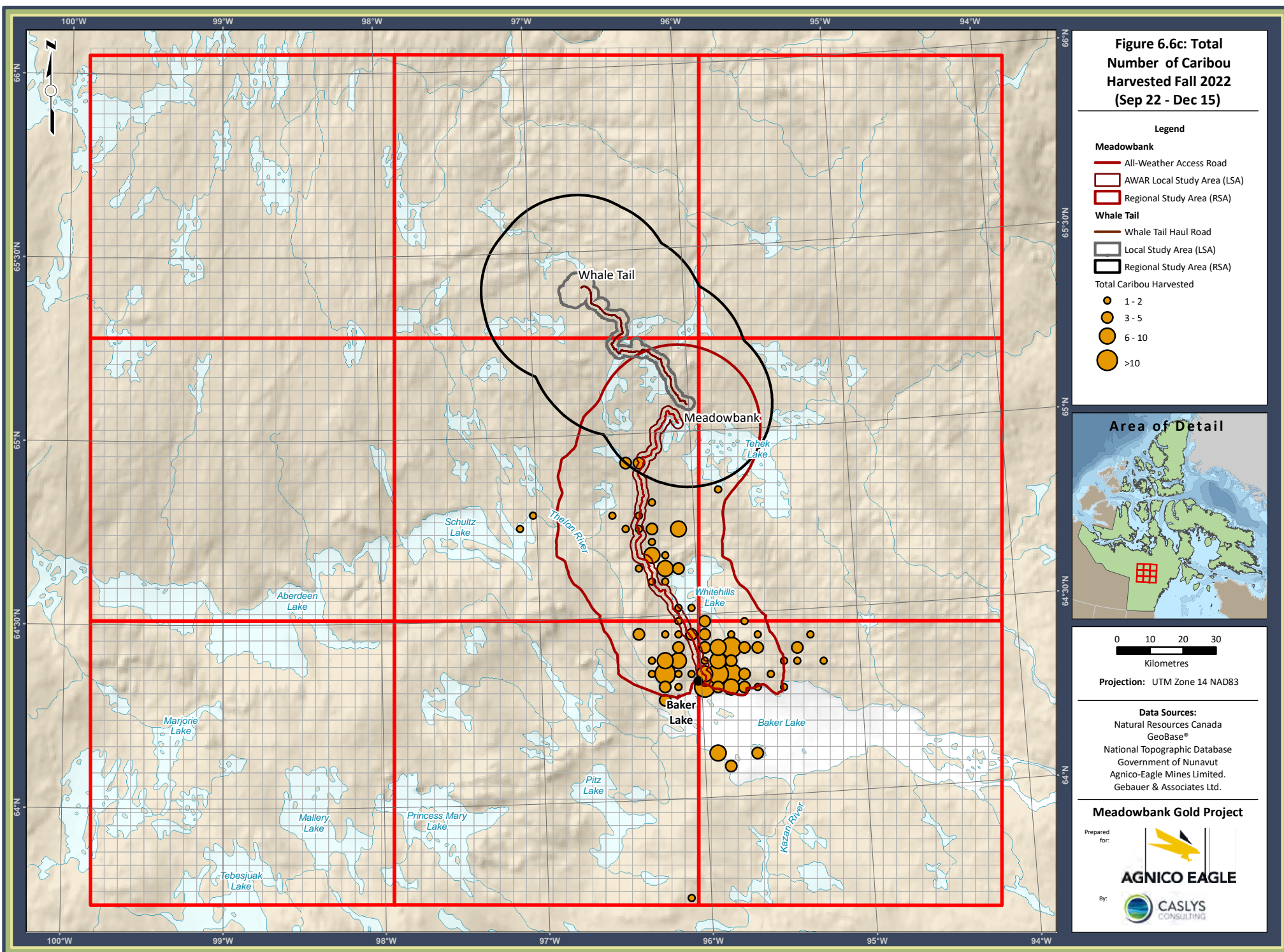








Figure 6.6d: Total Number of Caribou Harvested Winter 2022 (Dec 16 - Mar 31)

Legend





Meadowbank

-  All-Weather Access Road
-  AWAR Local Study Area (LSA)
-  Regional Study Area (RSA)

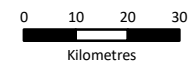
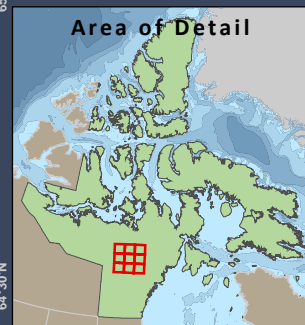
Whale Tail

-  Whale Tail Haul Road
-  Local Study Area (LSA)
-  Regional Study Area (RSA)

Total Caribou Harvested

-  1 - 2
-  3 - 5
-  6 - 10
-  >10

Area of Detail



Projection: UTM Zone 14 NAD83

Data Sources:

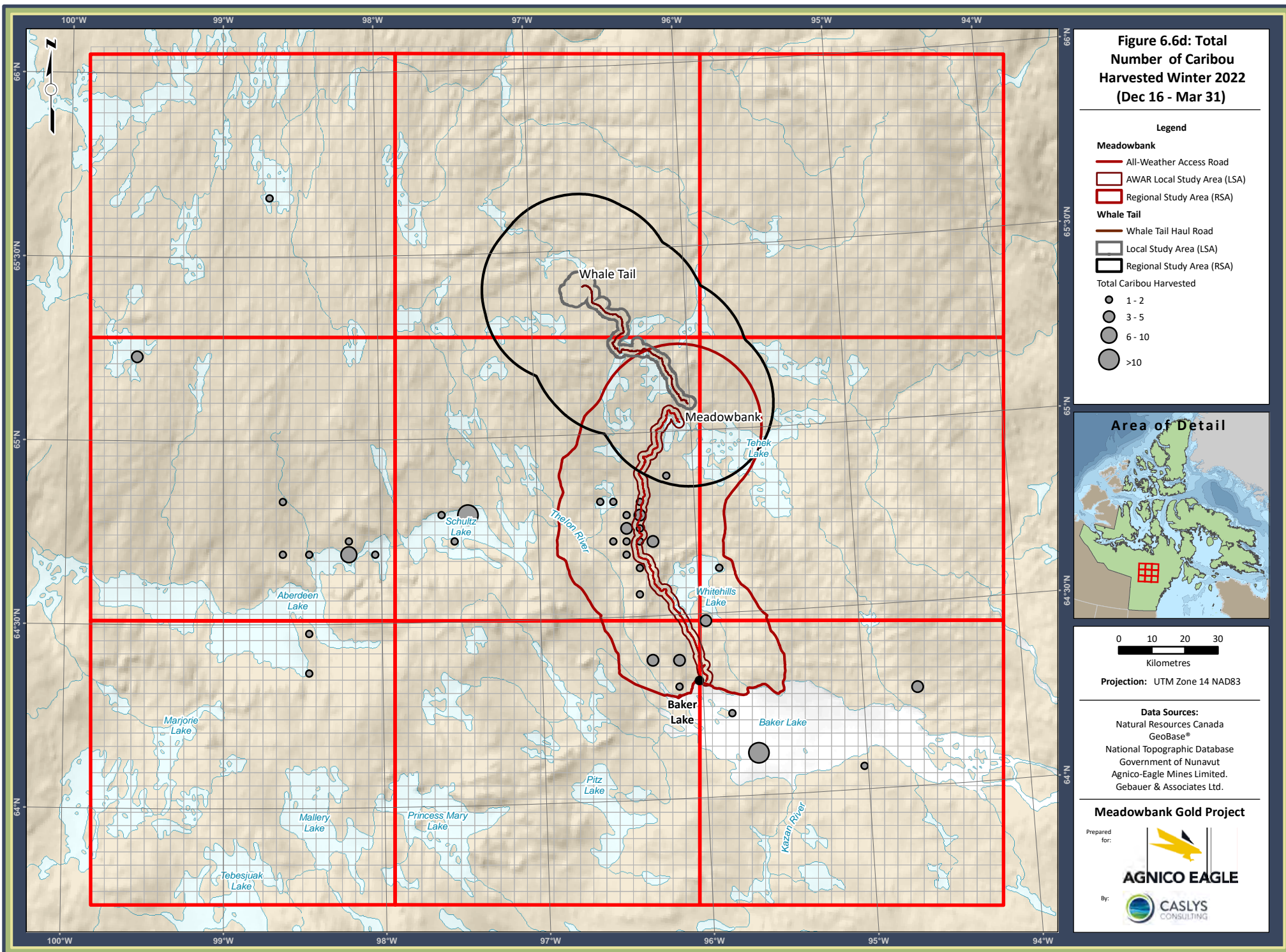
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
Gebauer & Associates Ltd.

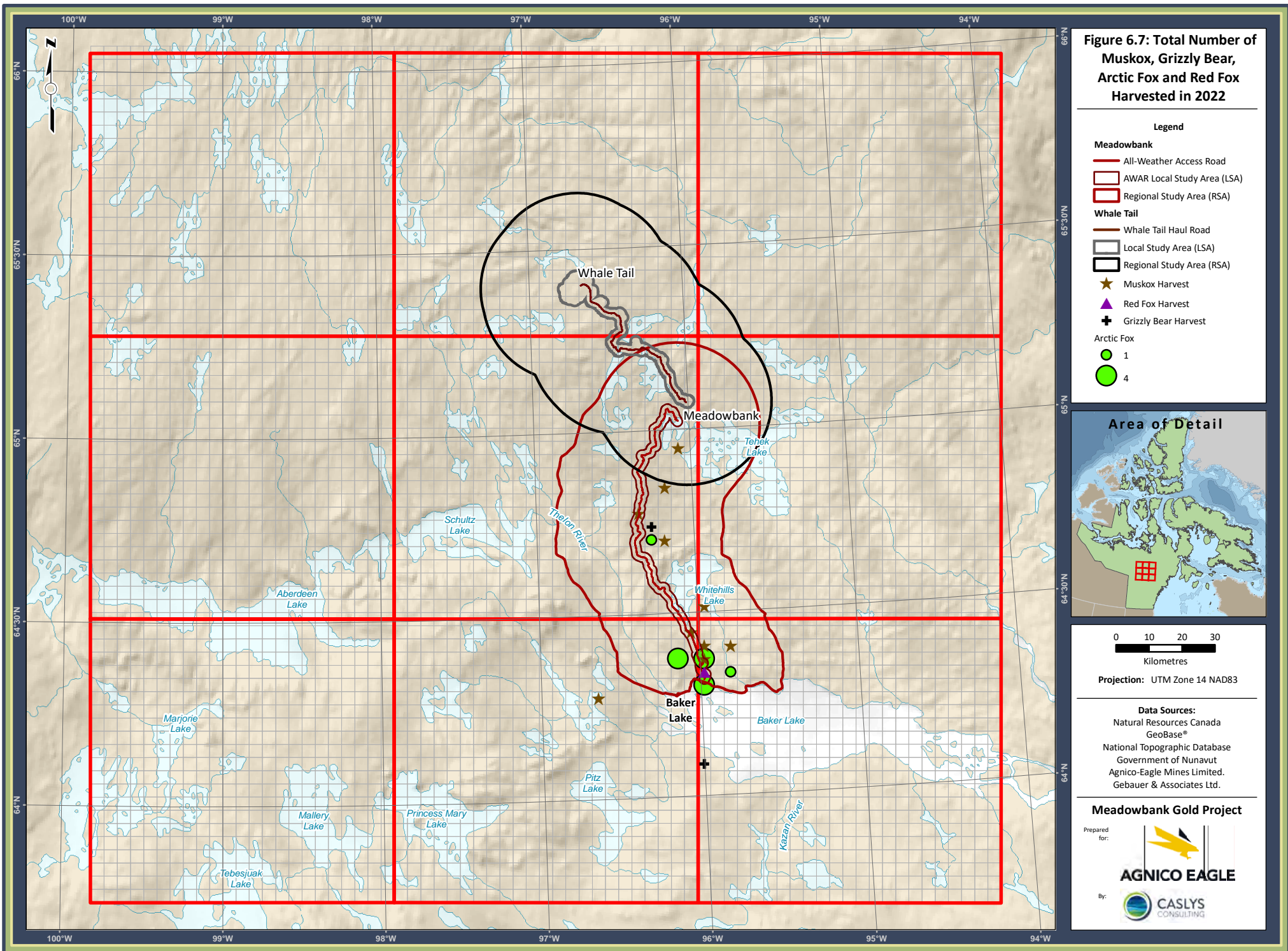
Meadowbank Gold Project

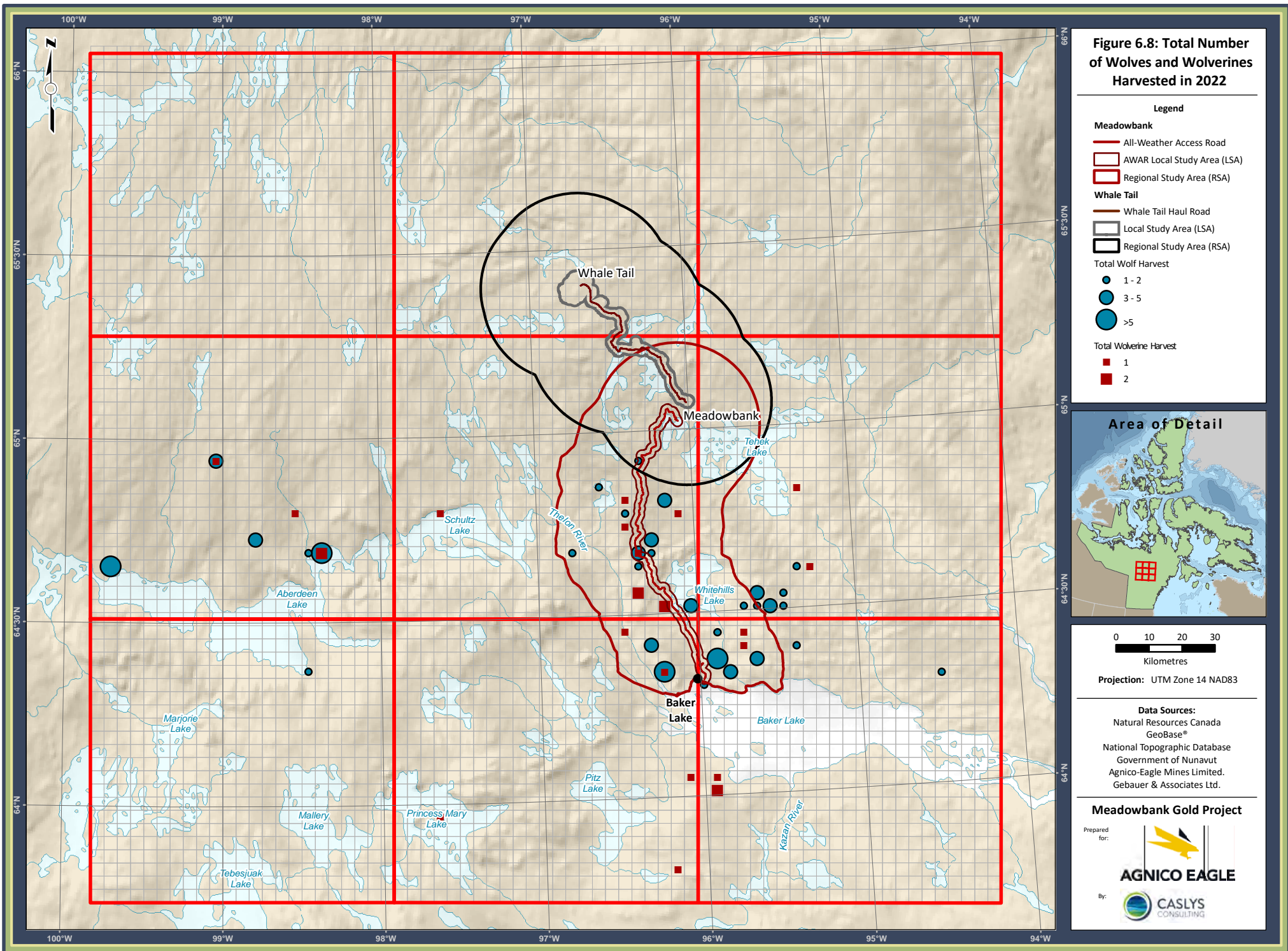
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By:

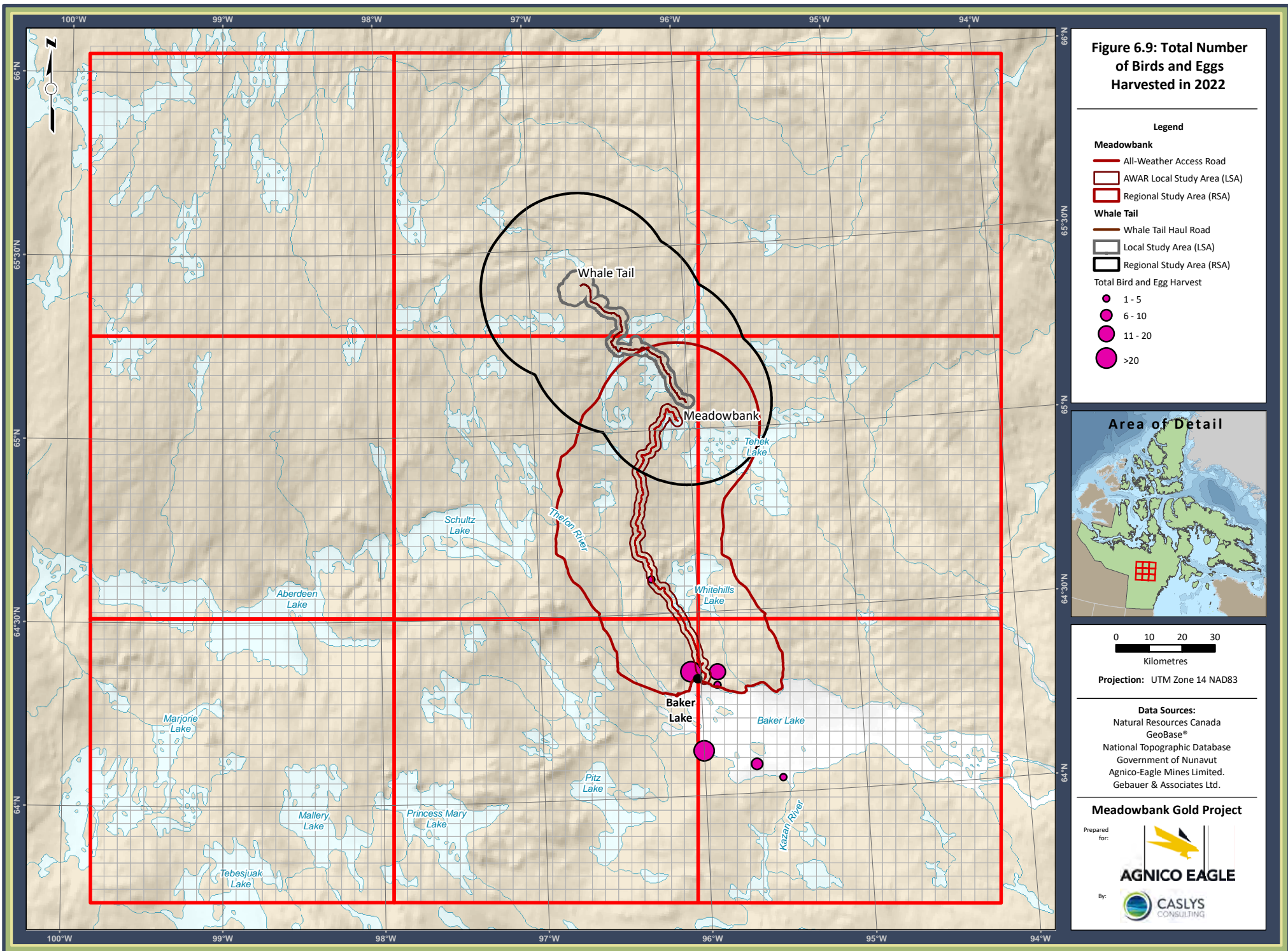






Bird species reported as being harvested in 2022 included Canada Goose (*Branta canadensis*; 48 individuals), gull species (*Larus* sp.; 8 individuals), ptarmigan sp. (*Lagopus* sp.; 25 individuals), Sandhill Crane (*Grus canadensis*; 2 individuals), Snow Goose (*Anser caerulescens*; 1 individual), and Tundra Swan (*Cygnus columbianus*; 3 individuals). Birds were reported as being collected primarily around the Hamlet of Baker Lake and along the southeast shore of Baker Lake (**Figure 6.9**).

For the first time in the HHS, Beluga (*Huso huso*; 2 individuals) and several seal species, including Bearded Seal (*Erignathus barbatus*; 2 individuals), Harp Seal (*Pagophilus groenlandicus*; 2 individuals), and Ringed Seal (*Pusa hispida*; 4 individuals), were reported as being harvested by Baker Lake hunters in 2022 but these were all outside the Meadowbank RSA (e.g., Christopher Island at the east end of Baker Lake).



SECTION 7 • 2022 CREEL SURVEY RESULTS

7.1 NUMBER OF FISHERMEN

The number of fishermen reporting successful fishing trips in 2022 was 30, which is higher than the average of 23 fisherman from 2007 to 2015 and 2019 to 2021 (12 years), and the highest number of fisherman reporting success since 2012. The highest numbers of fisherman reporting success in 2022 were in May and June period (see **Table 7.1**) (see **Section 7.4 Magnitude of Fishing**).

Table 7.1: Number of Fisherman in the Baker Lake who have Recorded Fishing Success by Year and Month.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2007			4	6	7	1	1		1				20
2008	1	1	2	6	6	6	4	3			2	1	32
2009	2	2	5	10	9	9	9	6	1	8	2	2	65
2010			6	13	18	17	13	4	2	2	3	1	79
2011	1	3	6	15	21	18	9	6	2	9	9	5	104
2012	3	1	1	7	7	18	12	4	3	9	7	3	75
2013			2	5	4	11	9	1		2	1	1	36
2014	2	1	1	4	6	3	4	2		2	2	2	29
2015	1	1	1	2	9	8	6	2		3	4	2	39
2019	1	2	3	12	14	15	7	3	1	1	8	4	71
2020				1	6	9	9	5	1	4	3		38
2021	1		3	3	15	15	3	4	1	1	4		50
2022	2		2	4	16	16	7	2	3	3	2		57
Total	14	11	36	88	138	146	93	42	15	44	47	21	695

7.2 COMPOSITION OF CATCH

The most common fish species captured, Lake Trout, represented 72% of the total catch in 2022, which was higher than in 2020 and 2021 (67% in both years) and higher than the average of 55% from 2007 to 2015 and 2019 to 2021 (see **Table 7.2**). Arctic Char, which were caught at the highest numbers since records began (i.e., 202 fish), represented 16% of the total catch (see **Table 7.2**). Lake Whitefish were captured in relatively low numbers in 2022.

Table 7.2: Total Number of Fish Caught between 2007 and 2015, and 2019 to 2022.

Species	2022	2021	2020	2019	2015	2014	2013	2012	2011	2010	2009	2008	2007	Total
Arctic Char	202	54	75	89	41	22	96	24	113	103	117	24	3	632
Arctic Grayling	1	1			29			1	1	3	1			35
Lake Trout	894	481	219	900	370	353	490	1,014	1,710	860	525	825	210	7,257
Lake Whitefish	147	184	32	1,573	1,386	651	50	471	460	326	51	192		5,160
Unidentified		1	2	119										119
Total	1,244	721	328	2,681	1,826	1,026	636	1,510	2,284	1,292	694	1,041	213	13,203

7.3 DISTRIBUTION OF FISHING

Fishing trips, regardless of success rate, did not generally occur beyond the immediate areas of Baker Lake, Whitehills Lake, and along the lower AWAR (see **Figure 7.1**). Note that the Whale Tail study area is excluded from **Figure 7.1** because no fishing occurred in this area. Some fishing occurred along the Thelon River system and associated lakes (**Figure 7.1**) during the summer when these areas can be accessed by boat. Results indicate that study participants are less willing to travel long distances to catch fish, regardless of AWAR access, likely due to the abundance of fish near the Hamlet of Baker Lake.

7.4 MAGNITUDE OF FISHING

The average number of fish harvested per fisherman in each month was highest in November with lower averages in the summer months (**Figure 7.2**; Note – high average numbers in January are due to two fishermen catching 477 fish). In 2022, the most captured fish species, in order of abundance, were Lake Trout, Arctic Char, Lake Whitefish, and Arctic Grayling (see **Table 7.2**). Higher numbers of Lake Trout and Arctic Char were reported as being caught in 2022 compared to 2021, which is either due to higher abundance and/or increased effort.




7.5 SEASONAL TIMING OF FISHING

In 2022, fishing periods with the most active fisherman was May and June (see **Table 7.1**). The periods with the most fish caught included the summer months (especially May and June), which reflects the high number of Lake Trout caught by fisherman heading out on the land after ice melt, and November (**Figure 7.3**). This trend can be observed in the overall trends from 2007 to 2015 and 2019 to 2022 (**Figure 7.3**).




Figure 7.1: Total Number of Fish Harvested in 2022

Legend





Meadowbank

-  All-Weather Access Road
-  AWAR Local Study Area (LSA)
-  Regional Study Area (RSA)

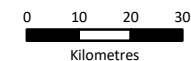
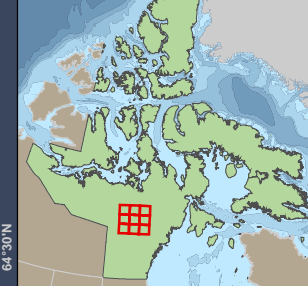
Whale Tail

-  Whale Tail Haul Road
-  Local Study Area (LSA)
-  Regional Study Area (RSA)

Total Fish Harvested

-  1 - 5
-  6 - 15
-  16 - 25
-  >25

Area of Detail



Projection: UTM Zone 14 NAD83

Data Sources:

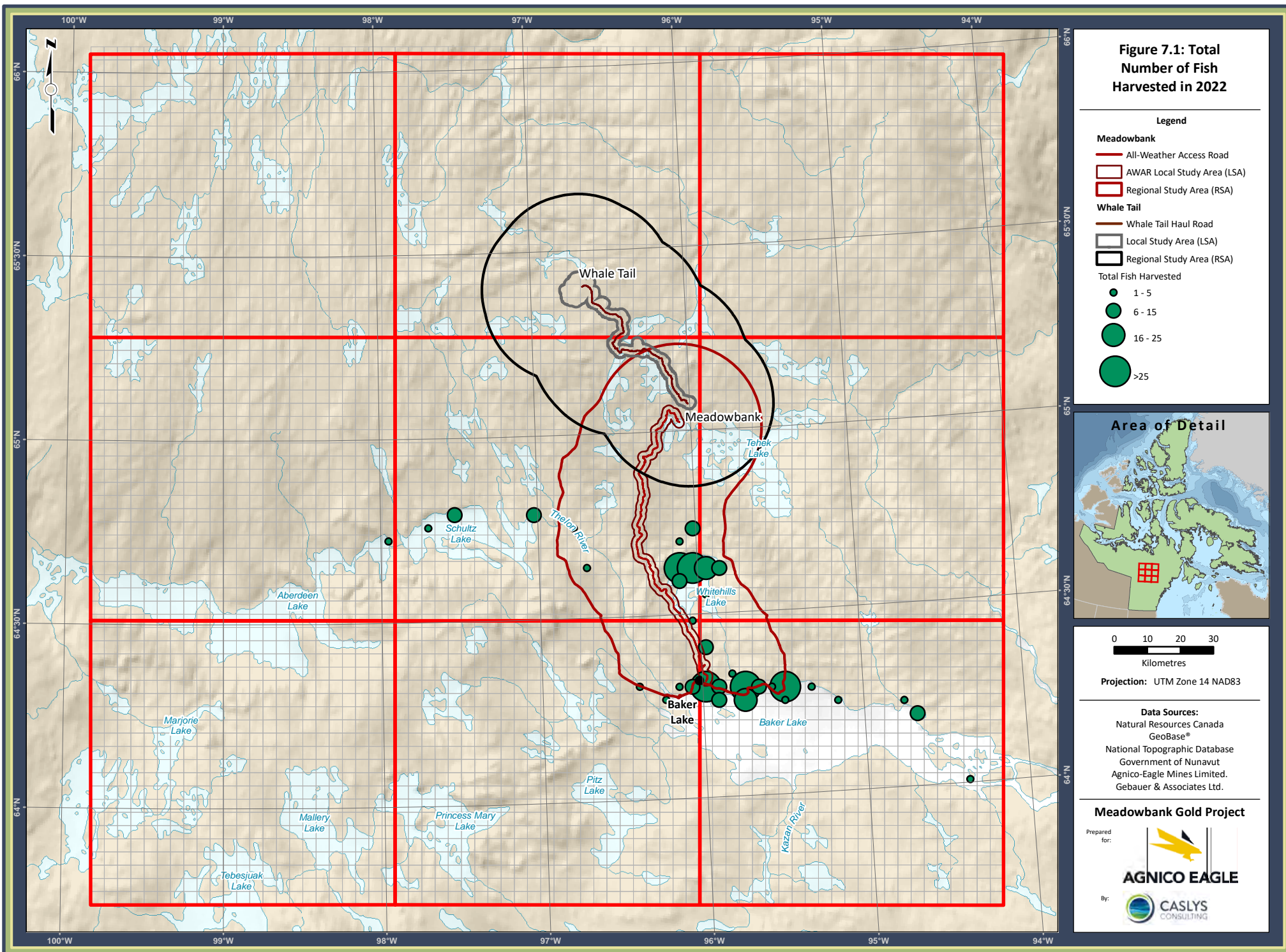
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited,
Gebauer & Associates Ltd.

Meadowbank Gold Project

Prepared for:



By:



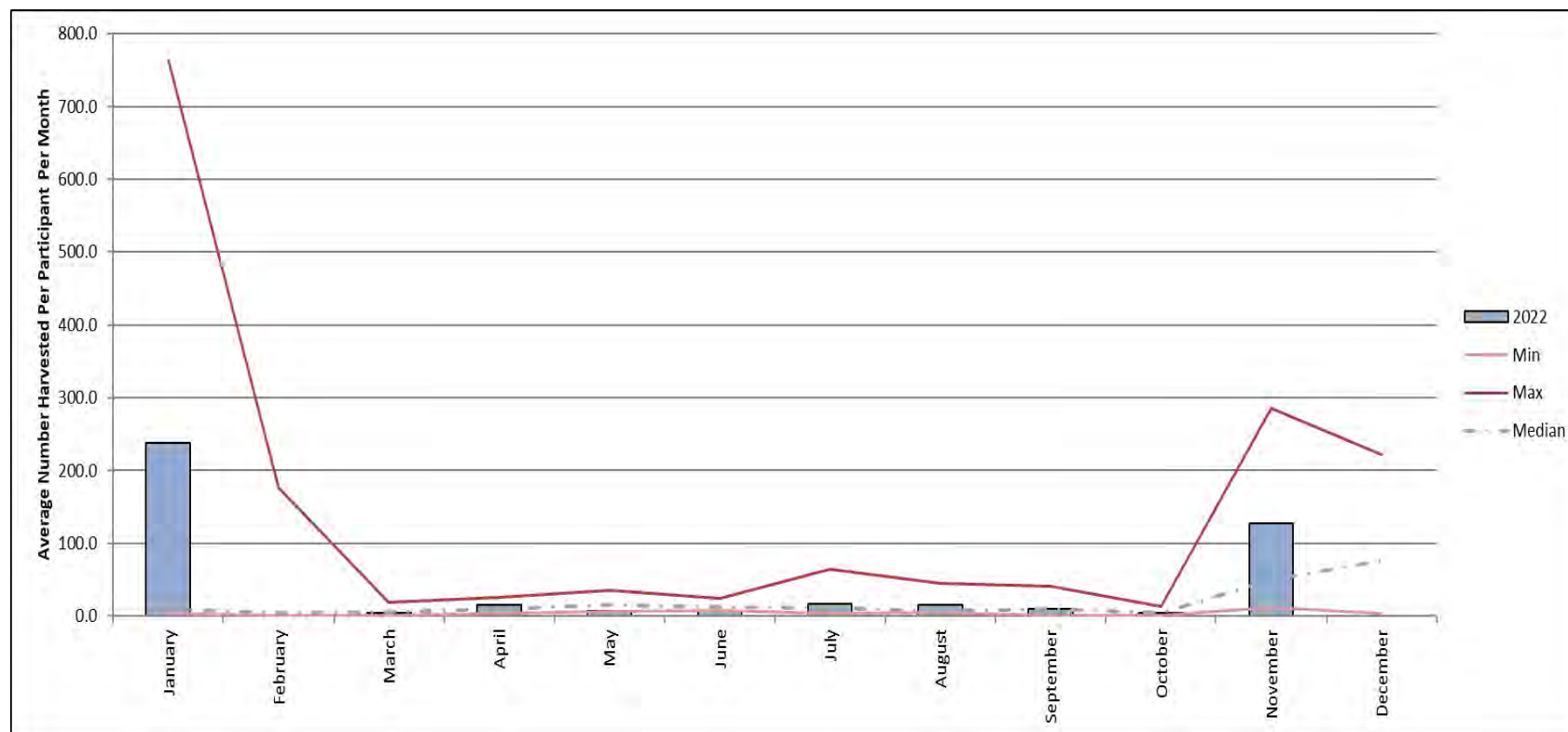


Figure 7.2: Average Number of Fish Caught per Participant in 2022 and the Minimum and Maximum Range from 2007 to 2015 and 2019 to 2021.

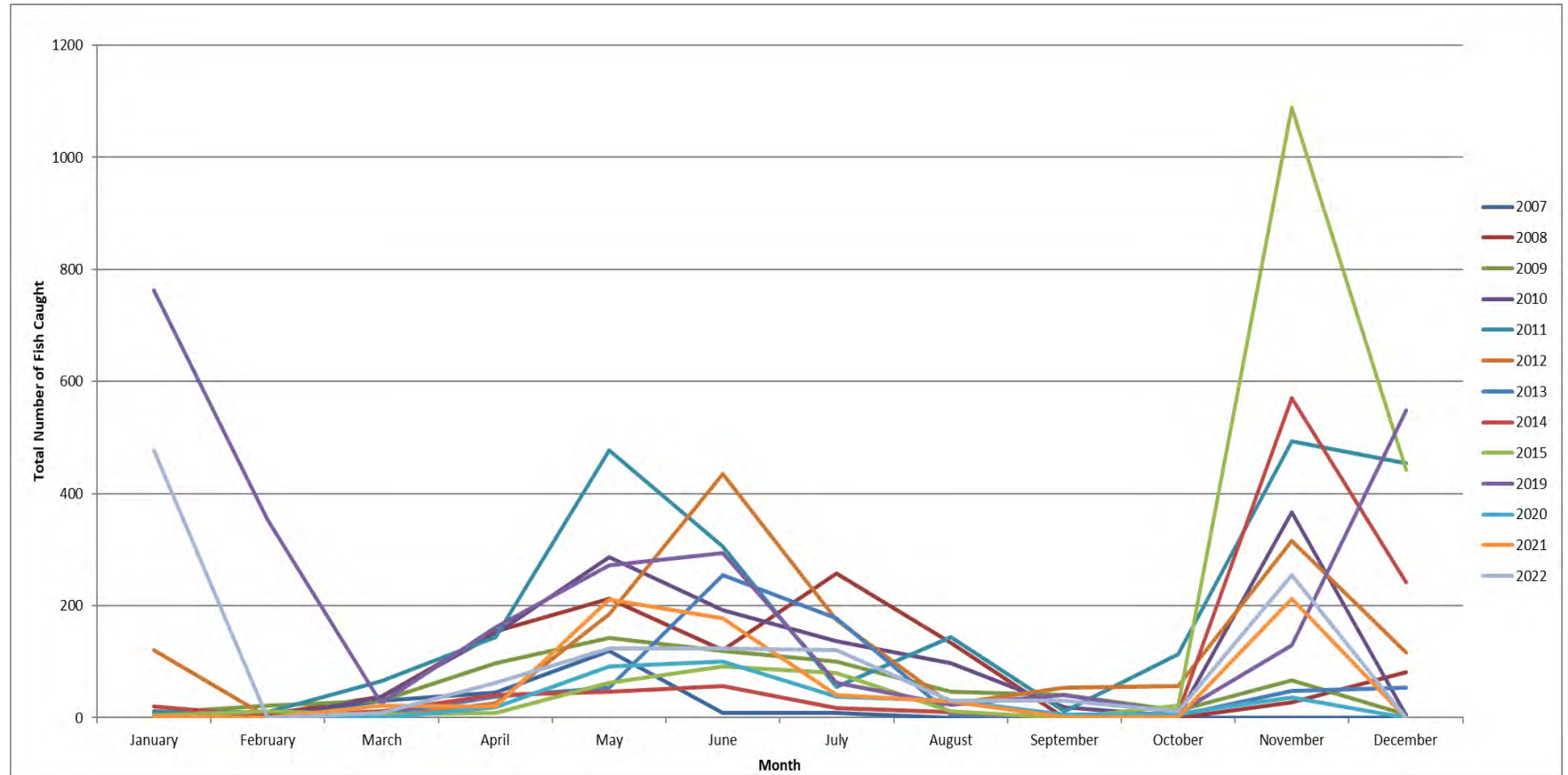


Figure 7.3: Seasonal Trends in Fishing in the Baker Lake Area from 2007 to 2015, and 2019 to 2022.

SECTION 8 • ACCURACY OF IMPACT PREDICTIONS

Table 8.1 provides a summary of the impact predictions identified in the original TEMP (Cumberland 2006) and the updated June 2019 version (Agnico Eagle 2019). The 2022 HHS data were compared to the impact prediction thresholds to evaluate adherence to the impact predictions and the provision of adaptive management, as either a necessary or proactive measure. No thresholds were surpassed in 2022.

Table 8.1: Accuracy of Impact Predictions – 2022 Baker Lake HHS

Potential Effect	Threshold	RSA 20% Threshold Exceeded (2022)	Adaptive Management Implemented	Status
Meadowbank All-Weather Access Road (AWAR)				
Hunting by Baker Lake Residents	The AWAR will not result in significant changes in the spatial distribution, seasonal pattern, or harvest levels of Caribou kills by Baker Lake hunters. Changes will not exceed 20% of historical harvest activities within the RSA	NO (70% of harvest in RSA in 2022 compared to 67% baseline; average of 75% of harvest within RSA since 2007)	Future discussion with HTO and GN representatives required to identify management options	HHS Creel Survey
Whale Tail Haul Road (WTHR)				
Hunting by Baker Lake Residents	No change in harvest	NO (No harvests recorded within 5 km of the WTHR; harvests within the WTHR RSA were lower than some other years, including pre-construction)	None required. Access by hunters is restricted in the growing season and very limited hunting occurs in the winter.	HHS Satellite-collaring Program

SECTION 9 • MANAGEMENT RECOMMENDATIONS

The Baker Lake HHS and Creel Survey should be continued on an annual basis to monitor the hunting and fishing patterns of Baker Lake residents, and the potential effects of the Meadowbank Complex Mine. Meetings with participants every four months (3 times/year) in 2023 are particularly important in maintaining contact, building relationships, expanding the study, and collecting good harvest data. Participation rates can be maintained by continuing to use social media platforms such as Facebook and Instagram, expanding connections on these platforms, ensuring that all participants are visited during the three scheduled field visits, and continuing with distribution of the well-received year-end prizes while in the community. In addition, an effort should be made to continue recruiting new, and particularly young, hunters for the HHS.

APPENDIX A

2022 Hunter Harvest Calendar



2022

Baker Lake Harvest Study

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Aurora Borealis

Kiligvak Tookoome

January | 𐌲𐌿𐌸𐌰 2022

Baker Lake Harvest Study
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Sunday ካቢር	Monday ከሊክልጅምዓት	Tuesday ኃይለማርያም ሥነ ምግባር	Wednesday እስኪሳተ	Thursday የሐረር	Friday ርቀርቀ	Saturday መኖርያ																																																																																				
						1 New Year's Day																																																																																				
2	3	4	5	6	7	8																																																																																				
9	10	11	12	13	14	15																																																																																				
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February | 2022

Baker Lake Harvest Study
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March | 2022

Baker Lake Harvest Study
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April | ᐱᐃᐅᐅ 2022

Baker Lake Harvest Study
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<div>March 2022</div> <div> <div>S M T W T F S</div> <div>1 2 3 4 5</div> <div>6 7 8 9 10 11 12</div> <div>13 14 15 16 17 18 19</div> <div>20 21 22 23 24 25 26</div> <div>27 28 29 30 31</div> </div>	<div>May 2022</div> <div> <div>S M T W T F S</div> <div>1 2 3 4 5 6 7</div> <div>8 9 10 11 12 13 14</div> <div>15 16 17 18 19 20 21</div> <div>22 23 24 25 26 27 28</div> <div>29 30 31</div> </div>					1	2
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Palm Sunday						Good Friday	
17	18	19	20	21	22	23	
Easter Sunday	Easter Monday					Earth Day	
24	25	26	27	28	29	30	



Ready for Winter

Joan Killulark

May | LΔ 2022

Baker Lake Harvest Study
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Successful Catch

Riley Lachance

June | २० 2022

Baker Lake Harvest Study
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Sunday ᑭᓇᑕᐃᑦ	Monday ᑭᓇᑕᐃᑦᐅᓚᓂᑭᑭᑦ	Tuesday ᐅᑭᑭᑦᐃᑦᓇᑭᑦᑭᑦᑭᑦ	Wednesday ᐱᑭᓚᑭᑦᐃᑦ	Thursday ᑭᑕᓚᑦ	Friday ᑕᑦᓚᑦ	Saturday ᓂᑦᑭᐃᐅᑦᓇᑭᑦ																																																																																																								
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Watching for Danger

Dylan White

July | $\lrcorner \subset \Delta$ 2022

Baker Lake Harvest Study
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August | ᐱᐅᐅ 2022

Baker Lake Harvest Study
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September | ୨୩rd 2022

Baker Lake Harvest Study
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25	26	27	28	29	30				



Golden Sunset

Kiligvak Tookoome

October | ᐅᐅᐅᐅᐅ 2022

Baker Lake Harvest Study
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Four for Four

Candice Kabloona

November | ๑๕๓๒ 2022

Baker Lake Harvest Study
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Successful Hunt

Riley Lachance

December | ᑎᓯᐱᑦ 2022

Baker Lake Harvest Study
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Christmas Day	Boxing Day	First Day of Winter			Please return the calendar to the Agnico-Eagle office for entry into the participant draw.																																																																																					
						New Year's Eve																																																																																				

Grizzly Bear

Tom Thomson

Lars Qaqqaq

Martin Gebauer

Jamie Kataluk

Tom Thomson

Paul Kabloona

Martin Gebauer

Randy Baker

Randy Baker

Martin Gebauer

