

Table A-1: Wildlife Observations along the All Weather Access Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023-12-28 10:21 AM	Yes	Caribou	65	Foraging	N/A	1250	43	East	No	-96.3007	64.6348			No	Exceeded	Road closed
Road	2023-12-28 10:21 AM	Yes	Caribou	17	Lying Down	N/A	300	27	East	No	-96.1612	64.5322			No	Not Exceeded	
Road	2023-12-29 7:31 AM	Yes	Caribou	6	Walking	W	50	56	West	No	-96.3514	64.7259			No	Not Exceeded	
Road	2023-12-29 7:31 AM	Yes	Caribou	3	Foraging	W	500	50	West	No	-96.3731	64.6794			No	Not Exceeded	
Road	2023-12-29 7:31 AM	Yes	Caribou	154	Foraging	N/A	200	46	Both	No	-96.3296	64.6562			No	Exceeded	Road restricted
Road	2023-12-29 7:31 AM	Yes	Caribou	200	Foraging	N/A	1000	45	East	No	-96.3134	64.6524			No	Exceeded	Road closed
Incidental	2023-12-29 3:08 PM	Yes	Caribou	3	Foraging	N/A	500	17	West	No	-96.0771	64.4533			No	Not Exceeded	
Incidental	2023-12-29 3:08 PM	Yes	Caribou	3	Foraging	N/A	300	29	East	No	-96.1813	64.5473			No	Not Exceeded	
Incidental	2023-12-29 3:08 PM	Yes	Caribou	80	Foraging	N/A	20	46	West,East	No	-96.3296	64.6562			No	Exceeded	Road restricted
Incidental	2023-12-29 3:08 PM	Yes	Caribou	10	Foraging	N/A	500	52	West	No	-96.3774	64.7009			No	Not Exceeded	
Road	2023-12-30 9:21 AM	Yes	Muskox	9	Foraging	N/A	300	96	West	No	-96.1809	65.0181			No	Not Exceeded	
Road	2023-12-30 9:21 AM	Yes	Caribou	17	Foraging	N/A	350	69	East	No	-96.3143	64.8277			No	Not Exceeded	
Road	2023-12-30 9:21 AM	Yes	Caribou	44	Foraging	N/A	600	68	East	No	-96.3268	64.8203			No	Exceeded	Road restricted
Road	2023-12-30 9:21 AM	Yes	Caribou	17	Foraging	N/A	100	57	East	No	-96.3601	64.7314			No	Not Exceeded	
Road	2023-12-30 9:21 AM	Yes	Caribou	16	Foraging	N/A	1000	49	East	No	-96.3707	64.6688			No	Not Exceeded	
Road	2023-12-30 9:21 AM	Yes	Caribou	200	Foraging	N/A	750	44	East	No	-96.3035	64.6417			No	Exceeded	Road closed
Road	2023-12-30 9:21 AM	Yes	Caribou	5	Foraging	W	50	33	West	No	-96.2163	64.5715			No	Not Exceeded	
Incidental	2023-12-30 1:54 PM	Yes	Caribou	2	Foraging	N/A	50	47	East	No	-96.3466	64.6580			No	Not Exceeded	
Road	2023-12-31 9:05 AM	Yes	Caribou	5	Foraging	N/A	20	91	West	No	-96.2249	64.9847			No	Not Exceeded	
Road	2023-12-31 9:05 AM	Yes	Caribou	15	Walking	N	500	83	West	No	-96.3011	64.9350			No	Not Exceeded	
Road	2023-12-31 9:05 AM	Yes	Caribou	35	Foraging	N/A	200	65	East	No	-96.3406	64.7948			No	Exceeded	Road closed
Road	2023-12-31 9:05 AM	Yes	Caribou	33	Foraging	W	0	57	Both	Yes	-96.3601	64.7314			No	Exceeded	Road closed
Road	2023-12-31 9:05 AM	Yes	Caribou	41	Foraging	N/A	500	46	Both	No	-96.3296	64.6562			No	Exceeded	Road closed
Road	2023-12-31 9:05 AM	Yes	Caribou	50	Lying Down	N/A	2000	44	East	No	-96.3035	64.6417			No	Exceeded	Road closed

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:01:01 8:57 AM	Yes	Muskox	7	Feeding	N/A	50	141	West	No	-96.3181	65.2237			No	Not Exceeded	
Incidental	2023:01:01 9:00 AM	Yes	Muskox	25	Feeding	N/A	25	149	West	No	-96.4426	65.2233			No	Exceeded	Speed restriction in place
Road	2023:01:05 8:34 AM	Yes	Muskox	21	Foraging	N/A	150	149	West	No	-96.4426	65.2233			No	Exceeded	Speed restriction
Road	2023:01:05 8:34 AM	Yes	Arctic fox	1	Walking	N	0	129	West	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:01:09 11:01 AM	Yes	Caribou	4	Resting	N/A	100	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:01:09 11:01 AM	Yes	Muskox	4	Feeding	N/A	100	113	East	No	-95.9933	65.0588			No	Not Exceeded	
Road	2023:01:11 10:15 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:01:14 8:34 AM	Yes	Muskox	12	Feeding	N/A	300	152	West	N/A	-96.4762	65.2418			No	Not Exceeded	
Road	2023:01:14 8:34 AM	Yes	Common raven	1	Flying	S	25	153	East	N/A	-96.4763	65.2482			No	Not Exceeded	
Incidental	2023:01:17 12:00 PM	Yes	Caribou	7	Not recorded	Not Recorded	500	148		N/A	-96.4274	65.2205			No	Not Exceeded	
Road	2023:01:22 9:29 AM	Yes	Muskox	9	Foraging	N/A	300	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:01:22 9:29 AM	Yes	Arctic fox	1	Trotting/running	S	0	153	Both	Yes	-96.4763	65.2482			No	Not Exceeded	
Road	2023:01:22 9:29 AM	Yes	Muskox	1	Walking	N	250	138	West	No	-96.2602	65.2238			No	Not Exceeded	
Incidental	2023:01:22 3:07 PM	Yes	Muskox	37	Foraging	N/A	150	151	West	No	-96.4662	65.2345			No	Exceeded	Speed restriction; advised users of the road
Road	2023:01:26 8:00 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:02:01 10:18 AM	Yes	Muskox	9	Feeding	Not Recorded	29	157	West	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:02:06 12:50 PM	Yes	Muskox	5	Lying Down	N/A	1000	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:02:08 1:09 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:02:08 4:33 PM	Yes	Caribou	15	Feeding	N/A	1500	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Incidental	2023:02:10 12:14 PM	Yes	Caribou	1	Trotting/running	W	10	172	West	Yes	-96.5867	65.3550			No	Not Exceeded	
Road	2023:02:15 9:11 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:02:19 9:45 AM	Yes	Muskox	5	Feeding	N/A	800	141	East	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:02:19 9:45 AM	Yes	Caribou	1	Feeding	N/A	1	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:02:22 6:35 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:02:26 11:00 AM	Yes	Red fox	1	Walking	N/A	400	170	East	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:02:26 2:15 PM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:02:27 6:47 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:03:01 8:00 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:03:02 8:17 AM	Yes	Muskox	7	Feeding	N/A	1500	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:03:02 8:17 AM	Yes	Muskox	28	Foraging	N/A	2000	159	West	N/A	-96.4089	65.2860			No	Exceeded	Speed restriction in place
Road	2023:03:02 8:17 AM	Yes	Caribou	2	Feeding	N/A	600	153	West	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:03:06 1:07 PM	Yes	Caribou	3	Walking	E	0	174	Both	Yes	-96.6013	65.3683			No	Not Exceeded	
Road	2023:03:06 1:07 PM	Yes	Muskox	22	Resting	N/A	80	166	West	No	-96.4882	65.3253			No	Exceeded	Speed restriction
Road	2023:03:06 1:07 PM	Yes	Caribou	1	Walking	N	0	158	Both	Yes	-96.4047	65.2778			No	Not Exceeded	
Road	2023:03:09 1:38 PM	Yes	Muskox	3	Standing	N/A	600	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:03:09 1:38 PM	Yes	Muskox	20	Lying Down	N/A	50	152	West	No	-96.4762	65.2418			No	Exceeded	Speed restriction
Road	2023:03:11 8:35 AM	Yes	Muskox	21	Lying Down	N/A	800	157	East	No	-96.4158	65.2712			No	Exceeded	Speed restriction
Road	2023:03:11 8:35 AM	Yes	Muskox	3	Lying Down	N/A	750	153	West	N/A	-96.4763	65.2482			No	Not Exceeded	
Road	2023:03:11 8:35 AM	Yes	Caribou	2	Standing	S	0	152	Both	Yes	-96.4762	65.2418			No	Not Exceeded	
Road	2023:03:14 7:48 AM	Yes	Muskox	21	Lying Down	N/A	60	157	West	N/A	-96.4158	65.2712			No	Exceeded	Speed restriction
Road	2023:03:14 7:48 AM	Yes	Muskox	3	Standing	N/A	1000	153	West	N/A	-96.4763	65.2482			No	Not Exceeded	
Road	2023:03:14 7:48 AM	Yes	Caribou	1	Feeding	N/A	1	143	West	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:03:15 1:10 PM	Yes	Muskox	3	Foraging	N/A	750	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:03:15 1:10 PM	Yes	Muskox	25	Foraging	N/A	25	156	West	No	-96.4521	65.2622			No	Exceeded	Called dispatched and put speed restriction (30km/h)
Road	2023:03:15 1:10 PM	Yes	Arctic fox	1	Foraging	W	0	169	East	Yes	-96.5370	65.3400			No	Not Exceeded	
Road	2023:03:23 11:10 AM	No		N/A			N/A	N/A			N/A	N/A					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:03:25 7:20 AM	Yes	Common raven	1	Flying	E	50	148	East	N/A	-96.4274	65.2205			No	Not Exceeded	
Road	2023:03:27 12:32 PM	Yes	Caribou	30	Walking	S	150	111	West	No	-96.0240	65.0481			No	Exceeded	Speed restriction
Road	2023:03:27 12:32 PM	Yes	Caribou	4	Lying Down	N/A	1500	145	East	No	-96.3769	65.2242			No	Not Exceeded	
Incidental	2023:03:27 4:00 PM	Yes	Caribou	6	Foraging	N/A	1500	144	East	No	-96.0022	65.0511			No	Not Exceeded	
Road	2023:03:28 11:02 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:03:28 1:51 PM	Yes	Caribou	2	Feeding	N/A	50	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Incidental	2023:03:28 1:51 PM	Yes	Caribou	92	Walking	NE	3000	134	West	No	-96.1929	65.2048			No	Exceeded	Group is more than 1.5 KM away
Incidental	2023:03:28 1:51 PM	Yes	Caribou	43	Walking	SE	2000	123	West	No	-96.1044	65.1222			No	Exceeded	Group is more than 1.5 KM away
Road	2023:03:29 7:11 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:03:30 7:46 AM	Yes	Caribou	2	Feeding	N/A	50	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:03:30 7:46 AM	Yes	Wolf	2	Feeding	N/A	300	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:03:30 7:46 AM	Yes	Caribou	1	Dead	N/A	300	152	West	No	-96.4762	65.2418		Project non-related	No	Not Exceeded	
Road	2023:03:31 8:25 AM	Yes	Caribou	5	Walking	N	2000	138	West	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:03:31 8:25 AM	Yes	Caribou	39	Walking	S	2000	123	West	No	-96.1044	65.1222			No	Exceeded	> 1.5Km from the road
Incidental	2023:03:31 1:31 PM	Yes	Caribou	200	Walking	SE	600	113	West	No	-95.9933	65.0588			No	Exceeded	Road closure was triggered
Road	2023:04:01 7:00 AM	Yes	Caribou	2	Foraging	N/A	30	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:04:01 7:00 AM	Yes	Caribou	6	Feeding	Not Recorded	50	158	East	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:04:01 7:00 AM	Yes	Muskox	18	Resting	N/A	100	153	West	No	-96.4763	65.2482			No	Exceeded	Road is cloased already
Road	2023:04:01 7:00 AM	Yes	Caribou	78	Walking	W	500	143	West	No	-96.3580	65.2237			No	Exceeded	Road closed
Road	2023:04:01 7:00 AM	Yes	Caribou	240	Foraging	N/A	50	134	West	No	-96.1929	65.2048			No	Exceeded	Road closed
Road	2023:04:01 7:00 AM	Yes	Caribou	35	Walking	S	800	136	West	No	-96.2274	65.2131			No	Exceeded	Road closed
Road	2023:04:01 7:00 AM	Yes	Caribou	24	Standing	N/A	1000	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:04:01 7:00 AM	Yes	Caribou	51	Walking	S	300	122	West	No	-96.0971	65.1148			No	Exceeded	Road closed
Road	2023:04:01 7:00 AM	Yes	Caribou	225	Feeding	SE	180	120	West	No	-96.0728	65.1002			No	Exceeded	Road closed
Road	2023:04:01 7:00 AM	Yes	Caribou	23	Walking	SW	450	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Incidental	2023:04:01 4:44 PM	Yes	Caribou	400	Feeding	S	150	115	West	No	-96.0090	65.0711			No	Exceeded	Road closed
Road	2023:04:02 6:40 AM	Yes	Muskox	18	Resting	N/A	100	152	West	No	-96.4762	65.2418			No	Exceeded	Road closed
Road	2023:04:02 6:40 AM	Yes	Caribou	2	Trotting/running	S	20	137	West	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:04:02 6:40 AM	Yes	Caribou	30	Walking	N	100	134	West	No	-96.1929	65.2048			No	Not Exceeded	
Incidental	2023:04:02 7:04 AM	Yes	Caribou	116	Walking	SE	700	114	West	No	-96.0042	65.0668			No	Exceeded	Road closed yesterday
Incidental	2023:04:02 7:04 AM	Yes	Wolf	1	Hunting	SE	500	114	West	No	-96.0042	65.0668			No	Not Exceeded	
Incidental	2023:04:02 7:04 AM	Yes	Wolf	1	Running	SW	500	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Incidental	2023:04:02 7:04 AM	Yes	Caribou	38	Running	NW	700	119	West	No	-96.0648	65.0932			No	Exceeded	Road closed yesterday
Road	2023:04:02 3:17 PM	Yes	Caribou	165	Foraging	SE	800	143	West	No	-96.3580	65.2237			No	Exceeded	Road closed
Incidental	2023:04:02 3:37 PM	Yes	Caribou	74	Walking	SW	800	122	West	No	-96.0971	65.1148			No	Exceeded	Road closed
Incidental	2023:04:02 4:39 PM	Yes	Caribou	165	Foraging	SE	800	144	West	No	-96.0022	65.0511			No	Exceeded	Road closed
Incidental	2023:04:02 4:39 PM	Yes	Caribou	87	Walking	NW	900	146	West	No	-96.3980	65.2263			No	Exceeded	Road closed
Incidental	2023:04:02 4:39 PM	Yes	Caribou	25	Walking	N/A	990	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Incidental	2023:04:02 6:39 PM	Yes	Caribou	187	Walking	NE	0	113	West	Yes	-95.9933	65.0588			No	Exceeded	Road closed
Incidental	2023:04:02 6:39 PM	Yes	Wolf	9	Walking	NE	1000	122	East	Yes	-96.0971	65.1148			No	Not Exceeded	
Incidental	2023:04:02 8:00 PM	Yes	Caribou	1	Dead	N/A	900	122	West	N/A	-96.0971	65.1148		Project non-related	No	Not Exceeded	
Road	2023:04:03 6:20 AM	Yes	Muskox	24	Feeding	N/A	900	151	West	No	-96.4662	65.2345			No	Exceeded	Road closed. Speed rest. For buses 152-150
Road	2023:04:03 6:20 AM	Yes	Caribou	500	Walking	S	500	116	West	No	-96.0206	65.0803			No	Exceeded	Road is closed. 2 techs monitoring the crossing
Road	2023:04:04 8:46 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:04:05 7:28 AM	Yes	Caribou	2	Alert	N/A	600	149	East	No	-96.4426	65.2233			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:04:06 7:30 AM	Yes	Muskox	10	Standing	N/A	2000	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:04:07 7:18 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:04:07 4:08 PM	Yes	Caribou	160	Walking	W	200	112	West	No	-96.0022	65.0511			No	Exceeded	Road closedConvoy
Incidental	2023:04:07 4:08 PM	Yes	Caribou	90	Feeding	N/A	900	118	West	No	-96.0551	65.0865			No	Exceeded	Road closedConvoy
Incidental	2023:04:07 4:08 PM	Yes	Caribou	8	Standing	N/A	1000	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Incidental	2023:04:07 5:48 PM	Yes	Caribou	20	Trotting/running	E	100	112	West	Yes	-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:04:07 5:48 PM	Yes	Caribou	150	Walking	N	1600	126	West	No	-96.1108	65.1482			No	Exceeded	Road closed
Incidental	2023:04:07 5:48 PM	Yes	Caribou	50	Walking	SE	2000	129	West	No	-96.1459	65.1690			No	Exceeded	Road closed
Incidental	2023:04:08 6:27 AM	Yes	Caribou	300	Feeding	N/A	3000	138	West	No	-96.2602	65.2238			No	Exceeded	> 1.5Km from the road
Incidental	2023:04:08 6:27 AM	Yes	Caribou	75	Foraging	N/A	3000	134	West	No	-96.1929	65.2048			No	Exceeded	> 1.5Km from the road
Road	2023:04:08 5:44 PM	Yes	Caribou	120	Walking	N	200	117	West	No	-96.0394	65.0837			No	Exceeded	Road closed
Road	2023:04:08 5:44 PM	Yes	Caribou	75	Walking	N	800	127	West	No	-96.1255	65.1538			No	Exceeded	Road closed
Road	2023:04:08 5:44 PM	Yes	Caribou	27	Walking	S	700	134	West	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:04:09 6:28 AM	Yes	Caribou	130	Standing	N/A	200	112	West	No	-96.0022	65.0511			No	Exceeded	Road closed
Road	2023:04:09 6:28 AM	Yes	Caribou	30	Standing	N/A	2000	145	West	No	-96.3769	65.2242			No	Not Exceeded	
Road	2023:04:09 6:28 AM	Yes	Muskox	10	Feeding	N/A	1000	159	West	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:04:10 5:13 AM	Yes	Caribou	63	Standing	N/A	150	123	West	No	-96.1044	65.1222			No	Exceeded	Road closed
Road	2023:04:10 5:13 AM	Yes	Caribou	15	Standing	N/A	400	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:04:10 5:13 AM	Yes	Caribou	150	Standing	N/A	80	136	West	No	-96.2274	65.2131			No	Exceeded	Road closed
Road	2023:04:10 5:13 AM	Yes	Caribou	200	Standing	N/A	1000	137	West	No	-96.2415	65.2194			No	Exceeded	Road closed
Road	2023:04:10 5:13 AM	Yes	Caribou	150	Standing	N/A	100	139	West	No	-96.2800	65.2269			No	Exceeded	Road closed
Road	2023:04:10 5:13 AM	Yes	Caribou	20	Standing	N/A	400	140	West	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:04:10 5:13 AM	Yes	Caribou	100	Standing	N/A	600	143	West	No	-96.3580	65.2237			No	Exceeded	Road closed
Road	2023:04:10 5:13 AM	Yes	Caribou	50	Running	NW	500	144	West	No	-96.3737	65.2233			No	Exceeded	Road closed
Road	2023:04:10 5:13 AM	Yes	Caribou	250	Standing	N/A	200	170	West	No	-96.5498	65.3466			No	Exceeded	Road closed
Road	2023:04:10 5:13 AM	Yes	Caribou	150	Standing	N/A	500	176	West	No	-96.6038	65.3862			No	Exceeded	Road closed
Road	2023:04:11 5:18 AM	Yes	Caribou	53	Standing	N/A	600	133	West	No	-96.1754	65.1992			No	Exceeded	Road closed
Road	2023:04:11 5:18 AM	Yes	Caribou	89	Feeding	N/A	100	144	West	No	-96.3777	65.2244			No	Exceeded	Road closed
Road	2023:04:11 5:18 AM	Yes	Caribou	5	Standing	N/A	300	158	West	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:04:11 5:18 AM	Yes	Caribou	7	Standing	N/A	700	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:04:11 5:18 AM	Yes	Caribou	46	Walking	S	500	166	West	No	-96.4882	65.3253			No	Exceeded	Road closed
Road	2023:04:11 5:18 AM	Yes	Caribou	16	Standing	N/A	100	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:04:11 5:18 AM	Yes	Caribou	103	Standing	N/A	100	176	West	No	-96.6038	65.3862			No	Exceeded	Road closed
Incidental	2023:04:11 6:15 PM	Yes	Caribou	340	Walking	NW	500	168	West	No	-96.5240	65.3335			No	Exceeded	Road closed
Incidental	2023:04:12 2:30 AM	Yes	Caribou	307	Walking	S	2500	134	West	No	-96.1929	65.2048			No	Exceeded	Road Closed
Incidental	2023:04:12 4:27 AM	Yes	Caribou	250	Walking	S	2000	118	West	No	-96.0551	65.0865			No	Exceeded	Road Closed
Incidental	2023:04:12 4:49 AM	Yes	Caribou	250	Standing	N/A	600	112	West	No	-96.0022	65.0511			No	Exceeded	Road Closed
Road	2023:04:12 5:26 AM	Yes	Caribou	201	Resting	N/A	1000	112	West	No	-96.0022	65.0511			No	Exceeded	Road closed
Road	2023:04:12 5:26 AM	Yes	Caribou	204	Standing	N/A	800	136	West	No	-96.2274	65.2131			No	Exceeded	Road closed
Road	2023:04:12 5:26 AM	Yes	Muskox	8	Standing	N/A	500	141	West	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:04:12 5:26 AM	Yes	Caribou	189	Standing	N/A	400	141	West	No	-96.3181	65.2237			No	Exceeded	Road closed
Road	2023:04:12 5:26 AM	Yes	Caribou	69	Standing	N/A	10	143	West	No	-96.3580	65.2237			No	Exceeded	Road closed
Road	2023:04:12 5:26 AM	Yes	Caribou	120	Standing	N/A	30	144	West	No	-96.3747	65.2237			No	Exceeded	Road closed
Road	2023:04:12 5:26 AM	Yes	Caribou	11	Standing	N/A	50	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:04:12 5:26 AM	Yes	Caribou	2	Standing	N/A	40	149	West	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:04:12 5:26 AM	Yes	Muskox	5	Feeding	N/A	30	161	Both	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:04:12 5:26 AM	Yes	Caribou	34	Standing	N/A	200	162	West	No	-96.4168	65.3115			No	Exceeded	Road closed
Road	2023:04:12 5:26 AM	Yes	Caribou	42	Standing	N/A	500	165	West	No	-96.4678	65.3239			No	Exceeded	Road closed
Road	2023:04:12 5:26 AM	Yes	Caribou	500	Standing	N/A	50	168	West	No	-96.5240	65.3335			No	Exceeded	Road closed
Road	2023:04:12 5:26 AM	Yes	Caribou	5	Standing	N/A	60	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:04:12 5:26 AM	Yes	Caribou	8	Standing	N/A	200	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:04:12 5:26 AM	Yes	Caribou	18	Standing	N/A	100	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:04:13 5:15 AM	Yes	Caribou	204	Walking	SW	700	123	West	No	-96.1044	65.1222			No	Exceeded	Road closed
Road	2023:04:13 5:15 AM	Yes	Caribou	9	Walking	S	500	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:04:13 5:15 AM	Yes	Caribou	5	Walking	E	50	138	East	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:04:13 5:15 AM	Yes	Caribou	56	Walking	NW	400	147	West	No	-96.4184	65.2279			No	Exceeded	Road closed
Road	2023:04:13 5:15 AM	Yes	Caribou	22	Feeding	Not Recorded	243	152	West	No	-96.4762	65.2418			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:04:13 5:15 AM	Yes	Caribou	190	Standing	Not Recorded	300	159	West	No	-96.4089	65.2860			No	Exceeded	Road closed
Road	2023:04:13 5:15 AM	Yes	Caribou	44	Walking	SW	500	166	West	No	-96.4882	65.3253			No	Exceeded	Road closed
Road	2023:04:13 5:15 AM	Yes	Caribou	97	Walking	N	226	169	West	No	-96.5370	65.3400			No	Exceeded	Road closed
Road	2023:04:13 5:15 AM	Yes	Caribou	56	Feeding	Not Recorded	200	172	West	No	-96.5867	65.3550			No	Exceeded	Road closed
Road	2023:04:13 5:15 AM	Yes	Caribou	43	Walking	NW	200	175	West	No	-96.6024	65.3773			No	Exceeded	Road closed
Road	2023:04:13 5:15 AM	Yes	Caribou	133	Standing	E	10	177	West	Yes	-96.6085	65.3943			No	Exceeded	Road closed
Road	2023:04:13 10:33 AM	Yes	Caribou	28	Foraging	N	1000	174	West	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:04:13 10:33 AM	Yes	Caribou	83	Trotting/running	N	750	162	West	No	-96.4168	65.3115			No	Exceeded	Road is closed to non essential traffic. Convoy is done otherwiseClosing strobe lights and reducing speed to 30km/h
Road	2023:04:13 10:33 AM	Yes	Caribou	87	Walking	W	500	158	West	No	-96.4047	65.2778			No	Exceeded	Road is closed to non essential traffic.
Road	2023:04:13 10:33 AM	Yes	Caribou	70	Lying Down	N/A	1000	154	West	No	-96.4630	65.2546			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:13 10:33 AM	Yes	Caribou	67	Foraging	N/A	900	138	West	No	-96.2602	65.2238			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:13 10:33 AM	Yes	Caribou	28	Walking	S	500	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:04:13 10:33 AM	Yes	Caribou	33	Walking	S	600	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:04:13 10:33 AM	Yes	Caribou	35	Foraging	N/A	1000	124	West	No	-96.1081	65.1315			No	Exceeded	Road is closed to non essential traffic
Incidental	2023:04:13 1:06 PM	Yes	Caribou	53	Walking	SW	840	126	West	No	-96.1108	65.1482			No	Exceeded	Road closed
Incidental	2023:04:13 1:06 PM	Yes	Caribou	83	Walking	SW	600	127	West	No	-96.1255	65.1538			No	Exceeded	Road closed
Incidental	2023:04:13 1:06 PM	Yes	Caribou	50	Walking	SW	456	128	West	No	-96.1358	65.1614			No	Exceeded	Road closed
Incidental	2023:04:13 1:06 PM	Yes	Caribou	127	Walking	SW	350	136	West	No	-96.2274	65.2131			No	Exceeded	Road closed
Road	2023:04:14 5:08 AM	Yes	Caribou	57	Walking	S	3000	119	West	No	-96.0648	65.0932			No	Exceeded	Road closed
Road	2023:04:14 5:08 AM	Yes	Caribou	20	Walking	S	3500	127	West	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:04:14 5:08 AM	Yes	Caribou	38	Standing	N/A	400	129	West	No	-96.1459	65.1690			No	Exceeded	Road closed
Road	2023:04:14 5:08 AM	Yes	Caribou	4	Standing	N/A	300	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:04:14 5:08 AM	Yes	Caribou	15	Standing	N/A	1500	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:04:14 5:08 AM	Yes	Caribou	2	Standing	N/A	1000	140	West	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:04:14 5:08 AM	Yes	Caribou	48	Standing	N/A	100	146	West	No	-96.3980	65.2263			No	Exceeded	Road closed
Road	2023:04:14 5:08 AM	Yes	Caribou	46	Standing	N/A	50	162	West	No	-96.4168	65.3115			No	Exceeded	Road closed
Road	2023:04:14 5:08 AM	Yes	Caribou	53	Walking	W	100	163	East	No	-96.4304	65.3174			No	Exceeded	Road closed
Road	2023:04:14 5:08 AM	Yes	Caribou	80	Walking	SE	400	165	West	No	-96.4678	65.3239			No	Exceeded	Road closed
Road	2023:04:14 5:08 AM	Yes	Caribou	64	Standing	N/A	100	166	West	No	-96.4882	65.3253			No	Exceeded	Road closed
Road	2023:04:14 5:08 AM	Yes	Caribou	52	Standing	N/A	200	168	West	No	-96.5240	65.3335			No	Exceeded	Road closed
Road	2023:04:14 5:08 AM	Yes	Caribou	150	Standing	N/A	100	169	West	No	-96.5370	65.3400			No	Exceeded	Road closed
Road	2023:04:14 5:08 AM	Yes	Caribou	23	Standing	N/A	1000	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:04:14 5:08 AM	Yes	Caribou	32	Standing	N/A	60	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:04:14 10:58 AM	Yes	Caribou	3	Walking	N	800	112	West	No	-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:04:14 10:58 AM	Yes	Caribou	45	Feeding	N/A	800	113	East	N/A	-95.9933	65.0588			No	Exceeded	Road closed
Incidental	2023:04:14 10:58 AM	Yes	Caribou	11	Walking	S	1000	114	West	No	-96.0042	65.0668			No	Not Exceeded	
Incidental	2023:04:14 10:58 AM	Yes	Caribou	220	Walking	S	1000	117	East	No	-96.0394	65.0837			No	Exceeded	Road closed
Incidental	2023:04:14 10:58 AM	Yes	Caribou	100	Walking	S	800	118	East	No	-96.0551	65.0865			No	Exceeded	Road closed
Incidental	2023:04:14 10:58 AM	Yes	Caribou	42	Walking	N	800	124	West	No	-96.1081	65.1315			No	Exceeded	Road closed
Incidental	2023:04:14 10:58 AM	Yes	Caribou	44	Trotting/running	S	800	127	North	No	-96.1255	65.1538			No	Exceeded	Road closed
Incidental	2023:04:14 10:58 AM	Yes	Caribou	15	Walking	S	1000	132	West	No	-96.1646	65.1940			No	Not Exceeded	
Incidental	2023:04:14 10:58 AM	Yes	Caribou	4	Standing	N/A	400	150	East	N/A	-96.4501	65.2302			No	Not Exceeded	
Incidental	2023:04:14 10:58 AM	Yes	Caribou	38	Trotting/running	S	1000	162	East	N/A	-96.4168	65.3115			No	Exceeded	Road closed
Incidental	2023:04:14 10:58 AM	Yes	Caribou	13	Walking	S	1000	174	South	No	-96.6013	65.3683			No	Not Exceeded	
Incidental	2023:04:14 10:58 AM	Yes	Caribou	54	Foraging	N/A	200	178	East	N/A	-96.6219	65.4009			No	Exceeded	Road closed
Incidental	2023:04:14 2:48 PM	Yes	Caribou	64	Walking	N	100	168	East	No	-96.5240	65.3335			No	Exceeded	Road closed
Incidental	2023:04:14 2:48 PM	Yes	Caribou	124	Feeding	N/A	600	160	West	No	-96.4136	65.2943			No	Exceeded	Road closed
Incidental	2023:04:14 2:48 PM	Yes	Caribou	45	Walking	N/A	200	133	West	No	-96.1754	65.1992			No	Exceeded	Road closed



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:04:14 2:48 PM	Yes	Caribou	44	Walking	W	1000	127	East	No	-96.1255	65.1538			No	Exceeded	Road closed
Incidental	2023:04:14 2:48 PM	Yes	Caribou	150	Feeding	N/A	500	112	East	N/A	-96.0022	65.0511			No	Exceeded	Road closed
Incidental	2023:04:14 2:53 PM	Yes	Caribou	532	Walking	E	0	113	West,East	Yes	-95.9933	65.0588			No	Exceeded	Road closed
Road	2023:04:15 5:30 AM	Yes	Caribou	40	Resting	N/A	500	112	West	No	-96.0022	65.0511			No	Exceeded	Road closed
Road	2023:04:15 5:30 AM	Yes	Caribou	4	Walking	SE	250	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:04:15 5:30 AM	Yes	Caribou	2	Walking	E	300	120	West	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:04:15 5:30 AM	Yes	Caribou	35	Walking	E	1000	123	West	No	-96.1044	65.1222			No	Exceeded	Road closed
Road	2023:04:15 5:30 AM	Yes	Caribou	28	Walking	E	500	128	East	Yes	-96.1358	65.1614			No	Not Exceeded	
Road	2023:04:15 5:30 AM	Yes	Caribou	131	Walking	S	1000	129	West	No	-96.1459	65.1690			No	Exceeded	Road closed
Road	2023:04:15 5:30 AM	Yes	Caribou	53	Walking	S	1000	129	West	No	-96.1459	65.1690			No	Exceeded	Road closed
Road	2023:04:15 5:30 AM	Yes	Caribou	78	Walking	SE	1000	137	West	No	-96.2415	65.2194			No	Exceeded	Road closed
Road	2023:04:15 5:30 AM	Yes	Caribou	150	Walking	NW	1000	148	West	No	-96.4274	65.2205			No	Exceeded	Road closed
Road	2023:04:15 5:30 AM	Yes	Caribou	11	Walking	S	250	149	West	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:04:15 5:30 AM	Yes	Caribou	8	Walking	S	1000	149	West	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:04:15 5:30 AM	Yes	Caribou	3	Walking	SW	250	153	East	Yes	-96.4763	65.2482			No	Not Exceeded	
Road	2023:04:15 5:30 AM	Yes	Caribou	252	Standing	N/A	250	157	West	No	-96.4158	65.2712			No	Exceeded	Road closed
Road	2023:04:15 5:30 AM	Yes	Caribou	282	Resting	N/A	300	163	West	No	-96.4304	65.3174			No	Exceeded	Road closed
Road	2023:04:15 5:30 AM	Yes	Caribou	248	Feeding	N/A	500	168	West	No	-96.5240	65.3335			No	Exceeded	Road closed
Road	2023:04:15 5:30 AM	Yes	Caribou	35	Walking	N	1500	173	West	No	-96.6030	65.3597			No	Exceeded	Road closed
Road	2023:04:15 8:00 AM	Yes	Caribou	29	Walking	S	500	174	West	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:04:15 8:00 AM	Yes	Caribou	36	Walking	N	200	173	West	No	-96.6030	65.3597			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:15 8:00 AM	Yes	Caribou	6	Alert	N/A	300	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:04:15 8:00 AM	Yes	Caribou	59	Feeding	N/A	300	169	West	No	-96.5370	65.3400			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:15 8:00 AM	Yes	Caribou	37	Foraging	N/A	300	167	West	No	-96.5061	65.3284			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:15 8:00 AM	Yes	Caribou	52	Walking	S	700	164	West	No	-96.4472	65.3226			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:15 8:00 AM	Yes	Caribou	14	Alert	N/A	600	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:04:15 8:00 AM	Yes	Caribou	127	Foraging	N/A	400	160	West	No	-96.4136	65.2943			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:15 8:00 AM	Yes	Caribou	93	Foraging	SW	200	158	West	No	-96.4047	65.2778			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:15 8:00 AM	Yes	Caribou	9	Alert	N/A	200	149	West	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:04:15 8:00 AM	Yes	Caribou	32	Standing	N/A	350	146	West	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:04:15 8:00 AM	Yes	Caribou	59	Walking	N	1000	134	West	No	-96.1929	65.2048			No	Exceeded	Road closed
Road	2023:04:15 8:00 AM	Yes	Caribou	25	Walking	S	650	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:04:15 8:00 AM	Yes	Caribou	121	Walking	E	0	126	Both	Yes	-96.1108	65.1482			No	Exceeded	Road closed
Road	2023:04:15 8:00 AM	Yes	Caribou	13	Trotting/running	W	0	113	Both	Yes	-95.9933	65.0588			No	Not Exceeded	
Road	2023:04:15 1:01 PM	Yes	Caribou	45	Standing	N/A	300	113	West	No	-95.9933	65.0588			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:15 1:01 PM	Yes	Caribou	30	Walking	E	700	117	West	No	-96.0394	65.0837			No	Not Exceeded	
Road	2023:04:15 1:01 PM	Yes	Caribou	60	Foraging	N/A	750	124	West	No	-96.1081	65.1315			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:15 1:01 PM	Yes	Caribou	28	Walking	S	1000	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:04:15 1:01 PM	Yes	Caribou	19	Walking	N	1000	137	West	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:04:15 1:01 PM	Yes	Caribou	19	Foraging	N/A	1250	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:04:15 1:01 PM	Yes	Caribou	63	Walking	N	150	151	West	No	-96.4662	65.2345			No	Exceeded	Road is closed to the non essential traffic
Road	2023:04:15 1:01 PM	Yes	Caribou	11	Standing	N/A	300	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:04:15 1:01 PM	Yes	Caribou	10	Standing	N/A	250	155	West	No	-96.4342	65.2676			No	Not Exceeded	
Road	2023:04:15 1:01 PM	Yes	Caribou	450	Walking	N	0	163	West	No	-96.4304	65.3174			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:15 1:01 PM	Yes	Caribou	21	Foraging	N	200	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:04:15 1:01 PM	Yes	Caribou	40	Foraging	N/A	300	167	West	No	-96.5061	65.3284			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:15 1:01 PM	Yes	Caribou	23	Walking	N	500	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:04:15 1:01 PM	Yes	Caribou	13	Foraging	N/A	500	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:04:16 5:26 AM	Yes	Caribou	108	Walking	S	500	119	West	No	-96.0648	65.0932			No	Exceeded	Road closed

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:04:16 5:26 AM	Yes	Caribou	14	Foraging	N/A	2	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:04:16 5:26 AM	Yes	Caribou	12	Walking	S	1500	127	West	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:04:16 5:26 AM	Yes	Caribou	108	Walking	S	1000	129	West	No	-96.1459	65.1690			No	Exceeded	Road closed
Road	2023:04:16 5:26 AM	Yes	Caribou	13	Foraging	SW	250	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:04:16 5:26 AM	Yes	Caribou	11	Foraging	N/A	750	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:04:16 5:26 AM	Yes	Caribou	365	Foraging	N/A	100	160	West	No	-96.4136	65.2943			No	Exceeded	Road closed
Road	2023:04:16 5:26 AM	Yes	Caribou	350	Foraging	E	50	164	Both	Yes	-96.4472	65.3226			No	Exceeded	Road closed
Road	2023:04:16 5:26 AM	Yes	Caribou	27	Walking	S	200	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:04:16 5:26 AM	Yes	Caribou	15	Walking	S	150	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:04:16 5:26 AM	Yes	Caribou	113	Foraging	N/A	100	169	Both	No	-96.5370	65.3400			No	Exceeded	Road closed
Road	2023:04:16 8:15 AM	Yes	Caribou	14	Standing	N/A	250	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:04:16 8:15 AM	Yes	Caribou	42	Foraging	N/A	750	175	East	No	-96.6024	65.3773			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 8:15 AM	Yes	Caribou	12	Walking	S	400	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:04:16 8:15 AM	Yes	Caribou	10	Foraging	N/A	500	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:04:16 8:15 AM	Yes	Caribou	56	Foraging	N/A	500	169	West	No	-96.5370	65.3400			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 8:15 AM	Yes	Caribou	28	Foraging	W	0	166	Both	Yes	-96.4882	65.3253			No	Not Exceeded	
Road	2023:04:16 8:15 AM	Yes	Caribou	83	Lying Down	N/A	750	161	West	No	-96.4121	65.3032			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 8:15 AM	Yes	Caribou	29	Foraging	E	0	160	Both	Yes	-96.4136	65.2943			No	Not Exceeded	
Road	2023:04:16 8:15 AM	Yes	Caribou	300	Foraging	N/A	25	159	Both	No	-96.4089	65.2860			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 8:15 AM	Yes	Caribou	3	Alert	S	250	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:04:16 8:15 AM	Yes	Caribou	58	Foraging	N/A	250	135	East	No	-96.2080	65.2089			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 8:15 AM	Yes	Caribou	4	Standing	N/A	200	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:04:16 8:15 AM	Yes	Caribou	47	Walking	S	300	129	West	No	-96.1459	65.1690			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 8:15 AM	Yes	Caribou	45	Walking	E	0	124	Both	Yes	-96.1081	65.1315			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 8:15 AM	Yes	Caribou	77	Walking	SE	0	113	Both	Yes	-95.9933	65.0588			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 2:24 PM	Yes	Caribou	15	Standing	N/A	300	112	West	No	-96.0022	65.0511			No	Not Exceeded	
Road	2023:04:16 2:24 PM	Yes	Caribou	74	Walking	S	500	118	West	No	-96.0551	65.0865			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 2:24 PM	Yes	Caribou	5	Foraging	N/A	350	134	East	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:04:16 2:24 PM	Yes	Caribou	4	Foraging	N/A	1000	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:04:16 2:24 PM	Yes	Caribou	23	Walking	SW	250	153	West	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:04:16 2:24 PM	Yes	Caribou	23	Foraging	N/A	450	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:04:16 2:24 PM	Yes	Caribou	21	Walking	S	500	155	West	No	-96.4342	65.2676			No	Not Exceeded	
Road	2023:04:16 2:24 PM	Yes	Caribou	54	Walking	S	350	156	West	No	-96.4521	65.2622			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 2:24 PM	Yes	Caribou	57	Foraging	N/A	600	158	West	No	-96.4047	65.2778			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 2:24 PM	Yes	Caribou	11	Standing	N/A	100	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:04:16 2:24 PM	Yes	Caribou	14	Walking	S	300	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:04:16 2:24 PM	Yes	Caribou	56	Foraging	N/A	100	163	West	No	-96.4304	65.3174			No	Exceeded	Road is closed to non essential traffic
Road	2023:04:16 2:24 PM	Yes	Caribou	12	Foraging	N/A	75	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:04:16 2:24 PM	Yes	Caribou	6	Standing	N/A	100	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:04:16 2:24 PM	Yes	Caribou	27	Foraging	N/A	200	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:04:17 5:15 AM	Yes	Caribou	19	Foraging	N/A	2000	113	East	No	-95.9933	65.0588			No	Not Exceeded	
Road	2023:04:17 5:15 AM	Yes	Caribou	22	Walking	S	100	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Road	2023:04:17 5:15 AM	Yes	Caribou	15	Walking	S	2000	117	West	No	-96.0394	65.0837			No	Not Exceeded	
Road	2023:04:17 5:15 AM	Yes	Muskox	2	Foraging	N/A	500	119	West	N/A	-96.0648	65.0932			No	Not Exceeded	
Road	2023:04:17 5:15 AM	Yes	Caribou	50	Walking	SE	500	127	West	No	-96.1255	65.1538			No	Exceeded	Road closed
Road	2023:04:17 5:15 AM	Yes	Caribou	14	Foraging	N/A	1000	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:04:17 5:15 AM	Yes	Caribou	98	Walking	E	100	134	Both	Yes	-96.1929	65.2048			No	Exceeded	Road closed
Road	2023:04:17 5:15 AM	Yes	Caribou	14	Walking	N	500	146	West	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:04:17 5:15 AM	Yes	Caribou	15	Walking	SW	500	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:04:17 5:15 AM	Yes	Caribou	45	Foraging	N/A	100	154	Both	No	-96.4630	65.2546			No	Exceeded	Road closed

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:04:17 5:15 AM	Yes	Caribou	117	Foraging	N/A	50	161	Both	No	-96.4121	65.3032			No	Exceeded	Road closed
Road	2023:04:17 5:15 AM	Yes	Caribou	67	Walking	N/A	500	162	Both	No	-96.4168	65.3115			No	Exceeded	Road closed
Road	2023:04:17 5:15 AM	Yes	Muskox	7	Foraging	N/A	500	163	East	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:04:17 5:15 AM	Yes	Caribou	9	Walking	N	500	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:04:17 5:15 AM	Yes	Caribou	49	Walking	N	600	176	West	No	-96.6038	65.3862			No	Exceeded	Road closed
Incidental	2023:04:17 9:47 AM	Yes	Caribou	15	Walking	S	1500	176	East	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:04:17 9:47 AM	Yes	Caribou	14	Walking	W	1500	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Incidental	2023:04:17 9:47 AM	Yes	Caribou	19	Walking	W	100	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Incidental	2023:04:17 9:47 AM	Yes	Wolf	1	Walking	W	2500	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Incidental	2023:04:17 9:47 AM	Yes	Caribou	13	Walking	S	1500	138	West	No	-96.2602	65.2238			No	Not Exceeded	
Incidental	2023:04:17 9:47 AM	Yes	Caribou	45	Walking	N	2000	138	West	No	-96.2602	65.2238			No	Exceeded	Road closed
Incidental	2023:04:17 9:47 AM	Yes	Caribou	16	Walking	E	650	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Caribou	14	Running	E	1500	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Muskox	2	Feeding	N/A	200	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Caribou	8	Walking	NE	500	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Caribou	6	Feeding	N/A	300	129	East	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Caribou	7	Alert	N/A	200	133	East	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Caribou	21	Foraging	N/A	20	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Caribou	14	Standing	N/A	75	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Caribou	9	Walking	W	0	157	Both	Yes	-96.4158	65.2712			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Caribou	15	Foraging	N/A	700	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Muskox	8	Foraging	N/A	1000	162	East	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Caribou	15	Lying Down	N/A	2000	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:04:18 5:14 AM	Yes	Caribou	102	Walking	NE	500	177	West	No	-96.6085	65.3943			No	Exceeded	Road closed
Incidental	2023:04:18 11:37 AM	Yes	Caribou	24	Walking	SE	1500	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Caribou	15	Walking	NW	1800	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Caribou	28	Foraging	N/A	2000	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Caribou	13	Walking	NE	200	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Caribou	13	Walking	N/A	100	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Caribou	5	Standing	N/A	300	150	West	No	-96.4501	65.2302			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Caribou	13	Walking	SE	698	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Caribou	28	Walking	NW	600	138	West	No	-96.2602	65.2238			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Caribou	5	Walking	SE	500	125	West	No	-96.1079	65.1391			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Caribou	21	Walking	E	600	122	West	No	-96.0971	65.1148			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Muskox	3	Foraging	N/A	400	119	East	No	-96.0648	65.0932			No	Not Exceeded	
Incidental	2023:04:18 11:37 AM	Yes	Caribou	14	Walking	SW	800	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Incidental	2023:04:18 8:21 PM	Yes	Caribou	14	Foraging	N/A	500	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Incidental	2023:04:18 8:21 PM	Yes	Caribou	3	Walking	N	250	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:04:19 6:41 AM	Yes	Caribou	2	Alert	N/A	400	111	West	No	-96.0240	65.0481			No	Not Exceeded	
Road	2023:04:19 6:41 AM	Yes	Caribou	15	Foraging	N/A	650	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:04:19 6:41 AM	Yes	Caribou	4	Walking	SW	200	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:04:19 6:41 AM	Yes	Caribou	2	Running	N	400	158	West	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:04:19 6:41 AM	Yes	Caribou	32	Walking	NE	4000	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:04:19 6:41 AM	Yes	Caribou	4	Foraging	N/A	1300	175	East	No	-96.6024	65.3773			No	Not Exceeded	
Incidental	2023:04:19 9:49 AM	Yes	Caribou	7	Walking	W	1900	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Incidental	2023:04:19 9:49 AM	Yes	Caribou	7	Walking	SE	500	120	West	No	-96.0728	65.1002			No	Not Exceeded	
Incidental	2023:04:19 3:10 PM	Yes	Caribou	30	Walking	E	2000	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Incidental	2023:04:19 3:10 PM	Yes	Caribou	12	Walking	S	1000	112	West	No	-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:04:19 3:10 PM	Yes	Caribou	20	Walking	N	500	111	West	No	-96.0240	65.0481			No	Not Exceeded	
Road	2023:04:20 7:17 AM	Yes	Caribou	5	Walking	SE	400	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:04:21 9:15 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:04:21 1:44 PM	Yes	Caribou	6	Walking	SW	512	153	West	No	-96.4763	65.2482			No	Not Exceeded	
Incidental	2023:04:21 1:44 PM	Yes	Caribou	14	Walking	W	500	137	West	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:04:22 10:08 AM	Yes	Caribou	7	Walking	SE	400	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Road	2023:04:22 10:08 AM	Yes	Caribou	15	Walking	SE	1300	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Road	2023:04:22 10:08 AM	Yes	Caribou	22	Foraging	N/A	500	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:04:22 10:08 AM	Yes	Caribou	5	Walking	S	1500	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:04:22 10:08 AM	Yes	Caribou	167	Walking	E	300	157	West	No	-96.4158	65.2712			No	Exceeded	Road closed
Road	2023:04:22 10:08 AM	Yes	Caribou	8	Walking	E	50	157	East	Yes	-96.4158	65.2712			No	Not Exceeded	
Road	2023:04:22 10:08 AM	Yes	Caribou	10	Standing	N/A	500	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:04:22 10:08 AM	Yes	Caribou	75	Walking	NE	500	170	West	No	-96.5498	65.3466			No	Exceeded	Road closed
Road	2023:04:22 10:08 AM	Yes	Caribou	17	Walking	SW	800	172	West	No	-96.5867	65.3550			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:04:22 3:51 PM	Yes	Caribou	57	Walking	SE	25	172	West	No	-96.5867	65.3550			No	Exceeded	Road closed
Incidental	2023:04:22 3:51 PM	Yes	Caribou	26	Standing	N/A	200	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Incidental	2023:04:22 3:51 PM	Yes	Caribou	10	Standing	N/A	300	169	North,West	No	-96.5370	65.3400			No	Not Exceeded	
Incidental	2023:04:22 3:51 PM	Yes	Caribou	34	Standing	N/A	400	132	West	No	-96.1646	65.1940			No	Exceeded	Road closed
Incidental	2023:04:22 3:51 PM	Yes	Caribou	25	Standing	N/A	200	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Incidental	2023:04:22 3:51 PM	Yes	Caribou	38	Standing	N/A	100	162	West	No	-96.4168	65.3115			No	Exceeded	Road closed
Incidental	2023:04:22 3:51 PM	Yes	Caribou	44	Standing	N/A	200	161	West	No	-96.4121	65.3032			No	Exceeded	Road closed
Incidental	2023:04:22 3:51 PM	Yes	Caribou	72	Standing	N/A	100	160	West	No	-96.4136	65.2943			No	Exceeded	Road closed
Incidental	2023:04:22 3:51 PM	Yes	Caribou	2	Walking	N/A	100	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Incidental	2023:04:22 3:51 PM	Yes	Caribou	36	Standing	N/A	200	135	West	No	-96.2080	65.2089			No	Exceeded	Road closed
Incidental	2023:04:22 3:51 PM	Yes	Caribou	10	Walking	S	200	129	West	No	-96.1459	65.1690			No	Not Exceeded	
Incidental	2023:04:22 3:51 PM	Yes	Caribou	2	Walking	SE	300	128	West	No	-96.1358	65.1614			No	Not Exceeded	
Incidental	2023:04:22 3:51 PM	Yes	Caribou	2	Standing	N/A	200	120	West	No	-96.0728	65.1002			No	Not Exceeded	
Incidental	2023:04:22 3:51 PM	Yes	Caribou	12	Walking	SE	400	114	West	No	-96.0042	65.0668			No	Not Exceeded	
Incidental	2023:04:22 3:51 PM	Yes	Caribou	71	Walking	E	300	113	West	No	-95.9933	65.0588			No	Exceeded	Road closed
Road	2023:04:23 4:46 AM	Yes	Caribou	80	Foraging	E	1000	115	West	No	-96.0090	65.0711			No	Exceeded	Road closed
Road	2023:04:23 4:46 AM	Yes	Caribou	7	Walking	E	600	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Road	2023:04:23 4:46 AM	Yes	Caribou	14	Alert	E	400	129	West	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:04:23 4:46 AM	Yes	Caribou	150	Walking	W	100	150	West	No	-96.4501	65.2302			No	Exceeded	Road closed
Road	2023:04:23 4:46 AM	Yes	Caribou	153	Foraging	N/A	300	153	West	No	-96.4763	65.2482			No	Exceeded	Road closed
Road	2023:04:23 4:46 AM	Yes	Caribou	52	Walking	N	300	156	West	No	-96.4521	65.2622			No	Exceeded	Road closed
Road	2023:04:23 4:46 AM	Yes	Caribou	225	Foraging	N	250	159	West	No	-96.4089	65.2860			No	Exceeded	Road closed
Road	2023:04:23 4:46 AM	Yes	Caribou	155	Foraging	NE	300	160	West	No	-96.4136	65.2943			No	Exceeded	Road closed
Road	2023:04:23 4:46 AM	Yes	Caribou	63	Foraging	N/A	300	161	Both	No	-96.4121	65.3032			No	Exceeded	Road closed
Road	2023:04:23 4:46 AM	Yes	Caribou	110	Foraging	E	300	162	Both	No	-96.4168	65.3115			No	Exceeded	Road closed
Road	2023:04:23 4:46 AM	Yes	Caribou	5	Foraging	N/A	300	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	28	Walking	E	1300	113	East	No	-95.9933	65.0588			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	17	Foraging	N/A	25	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	36	Walking	SE	400	117	West	No	-96.0394	65.0837			No	Exceeded	Road closed
Road	2023:04:23 7:54 AM	Yes	Caribou	4	Walking	SE	700	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	73	Walking	E	0	112	Both	Yes	-96.0022	65.0511			No	Exceeded	Road closed
Road	2023:04:23 7:54 AM	Yes	Caribou	48	Walking	E	600	117	West	No	-96.0394	65.0837			No	Exceeded	Road closed
Road	2023:04:23 7:54 AM	Yes	Caribou	58	Foraging	N/A	75	119	West	No	-96.0648	65.0932			No	Exceeded	Road closed
Road	2023:04:23 7:54 AM	Yes	Caribou	32	Lying Down	N/A	1500	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	11	Walking	SE	300	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	59	Walking	NW	25	125	West	No	-96.1079	65.1391			No	Exceeded	Road closed
Road	2023:04:23 7:54 AM	Yes	Caribou	6	Walking	SE	1000	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	20	Walking	S	2000	134	West	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	9	Walking	SE	100	134	East	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	30	Walking	N	150	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	4	Walking	N	2000	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	24	Standing	N/A	1800	145	West	No	-96.3769	65.2242			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	56	Walking	SE	600	147	West	No	-96.4184	65.2279			No	Exceeded	Road closed
Road	2023:04:23 7:54 AM	Yes	Caribou	18	Foraging	N/A	600	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	17	Foraging	N/A	400	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	54	Walking	NE	300	153	West	No	-96.4763	65.2482			No	Exceeded	Road closed
Road	2023:04:23 7:54 AM	Yes	Caribou	224	Walking	NE	20	163	West	No	-96.4304	65.3174			No	Exceeded	Road closed
Road	2023:04:23 7:54 AM	Yes	Muskox	8	Foraging	N/A	500	162	East	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	280	Walking	NE	30	164	West	No	-96.4472	65.3226			No	Exceeded	Road closed
Road	2023:04:23 7:54 AM	Yes	Caribou	7	Standing	N/A	400	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:04:23 7:54 AM	Yes	Caribou	41	Standing	N/A	600	174	West	No	-96.6013	65.3683			No	Exceeded	Road closed
Road	2023:04:23 7:54 AM	Yes	Caribou	27	Foraging	N/A	1000	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Incidental	2023:04:23 4:07 PM	Yes	Caribou	37	Standing	N/A	400	139	West	No	-96.2800	65.2269			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	56	Lying Down	N/A	200	139	West	No	-96.2800	65.2269			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	8	Standing	N/A	100	138	East	No	-96.2602	65.2238			No	Not Exceeded	
Incidental	2023:04:23 4:07 PM	Yes	Caribou	100	Walking	SE	400	135	West	No	-96.2080	65.2089			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	12	Walking	S	500	134	West	No	-96.1929	65.2048			No	Not Exceeded	
Incidental	2023:04:23 4:07 PM	Yes	Caribou	37	Foraging	N/A	30	133	West	No	-96.1754	65.1992			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	3	Standing	N/A	100	132	East	No	-96.1646	65.1940			No	Not Exceeded	
Incidental	2023:04:23 4:07 PM	Yes	Caribou	31	Lying Down	N/A	300	132	West	No	-96.1646	65.1940			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:04:23 4:07 PM	Yes	Caribou	73	Foraging	N/A	57	130	West	No	-96.1528	65.1782			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	136	Running	SE	500	127	West	No	-96.1255	65.1538			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	34	Foraging	N/A	400	126	West	No	-96.1108	65.1482			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	17	Walking	SE	2300	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Incidental	2023:04:23 4:07 PM	Yes	Caribou	177	Walking	SE	50	121	West	No	-96.0864	65.1071			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	47	Walking	SE	500	120	West	No	-96.0728	65.1002			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	67	Walking	SE	50	117	West	No	-96.0394	65.0837			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	17	Walking	SE	800	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Incidental	2023:04:23 4:07 PM	Yes	Caribou	13	Walking	E	500	114	West	No	-96.0042	65.0668			No	Not Exceeded	
Incidental	2023:04:23 4:07 PM	Yes	Caribou	6	Walking	E	100	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Incidental	2023:04:23 4:07 PM	Yes	Caribou	129	Foraging	N/A	100	113	East	No	-95.9933	65.0588			No	Exceeded	Road closed
Incidental	2023:04:23 4:07 PM	Yes	Caribou	19	Walking	SE	100	113	West	No	-95.9933	65.0588			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	31	Feeding	N/A	800	111	West	No	-96.0240	65.0481			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	44	Feeding	N/A	200	113	West	No	-95.9933	65.0588			No	Exceeded	Road closed
Road	2023:04:24 4:27 AM	Yes	Wolf	4	Running	E	0	121	Both	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	12	Walking	S	100	123	Both	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	17	Walking	SE	100	125	West	No	-96.1079	65.1391			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	112	Walking	SE	200	126	West	No	-96.1108	65.1482			No	Exceeded	Road closed
Road	2023:04:24 4:27 AM	Yes	Caribou	26	Walking	SE	400	128	West	No	-96.1358	65.1614			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	18	Walking	SE	500	129	West	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	52	Feeding	SE	10	131	West	No	-96.1607	65.1855			No	Exceeded	Road closed
Road	2023:04:24 4:27 AM	Yes	Caribou	39	Feeding	SE	75	137	West	No	-96.2415	65.2194			No	Exceeded	Road closed
Road	2023:04:24 4:27 AM	Yes	Muskox	6	Feeding	N/A	50	142	East	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	72	Walking	SE	150	148	West	No	-96.4274	65.2205			No	Exceeded	Road closed
Road	2023:04:24 4:27 AM	Yes	Caribou	550	Feeding	N/A	20	151	West	No	-96.4662	65.2345			No	Exceeded	Road closed
Road	2023:04:24 4:27 AM	Yes	Caribou	18	Lying Down	N/A	200	156	West	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	10	Feeding	N/A	500	158	West	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	40	Feeding	N/A	100	159	Both	No	-96.4089	65.2860			No	Exceeded	Road closed
Road	2023:04:24 4:27 AM	Yes	Muskox	6	Feeding	N/A	150	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:04:24 4:27 AM	Yes	Caribou	330	Feeding	N/A	0	162	Both	Yes	-96.4168	65.3115			No	Exceeded	Road closed
Road	2023:04:24 4:27 AM	Yes	Caribou	67	Standing	N/A	0	164	Both	Yes	-96.4472	65.3226			No	Exceeded	Road closed
Road	2023:04:24 4:27 AM	Yes	Caribou	880	Walking	NE	0	168	Both	Yes	-96.5240	65.3335			No	Exceeded	Road closed
Incidental	2023:04:24 8:52 AM	Yes	Caribou	350	Foraging	N	20	167	West	No	-96.5061	65.3284			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	275	Foraging	E	0	170	West,East	Yes	-96.5498	65.3466			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	200	Walking	N	800	172	West	No	-96.5867	65.3550			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	57	Foraging	N/A	800	174	West	No	-96.6013	65.3683			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:04:24 8:52 AM	Yes	Caribou	168	Walking	N	750	175	West	No	-96.6024	65.3773			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	100	Foraging	N/A	1000	178	West	No	-96.6219	65.4009			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	45	Foraging	N/A	400	172	West	No	-96.5867	65.3550			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	150	Resting	N/A	100	165	West	No	-96.4678	65.3239			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	130	Foraging	N/A	400	163	West	No	-96.4304	65.3174			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	100	Foraging	N/A	100	162	East	No	-96.4168	65.3115			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	100	Foraging	N/A	100	161	West	No	-96.4121	65.3032			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	150	Foraging	N/A	500	160	West	No	-96.4136	65.2943			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	35	Resting	N/A	400	153	West	No	-96.4763	65.2482			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	30	Foraging	N/A	600	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Incidental	2023:04:24 8:52 AM	Yes	Caribou	100	Resting	N/A	350	151	West	No	-96.4662	65.2345			No	Exceeded	Road is closed to non essential traffic. Convoy is done for the bus and cube truck (kitchen)
Incidental	2023:04:24 8:52 AM	Yes	Caribou	7	Foraging	N/A	25	161	East	No	-96.4121	65.3032			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:04:25 3:57 AM	Yes	Caribou	24	Walking	S	500	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:04:25 3:57 AM	Yes	Caribou	24	Walking	S	1500	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:04:25 3:57 AM	Yes	Caribou	42	Walking	SE	100	125	Both	No	-96.1079	65.1391			No	Exceeded	Road closed
Road	2023:04:25 3:57 AM	Yes	Caribou	39	Walking	SE	50	127	West	No	-96.1255	65.1538			No	Exceeded	Road closed
Road	2023:04:25 3:57 AM	Yes	Caribou	11	Standing	N/A	50	134	West	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:04:25 3:57 AM	Yes	Caribou	102	Feeding	N/A	75	135	West	No	-96.2080	65.2089			No	Exceeded	Road closed
Road	2023:04:25 3:57 AM	Yes	Caribou	150	Feeding	NE	75	137	West	No	-96.2415	65.2194			No	Exceeded	Road closed
Road	2023:04:25 3:57 AM	Yes	Caribou	58	Walking	S	100	140	West	No	-96.2985	65.2220			No	Exceeded	Road closed
Road	2023:04:25 3:57 AM	Yes	Caribou	255	Walking	NE	0	142	Both	Yes	-96.3371	65.2222			No	Exceeded	Road closed
Road	2023:04:25 3:57 AM	Yes	Caribou	44	Standing	N/A	0	149	Both	Yes	-96.4426	65.2233			No	Exceeded	Road closed
Road	2023:04:25 3:57 AM	Yes	Caribou	27	Walking	NE	200	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:04:25 3:57 AM	Yes	Caribou	52	Feeding	N/A	80	155	Both	No	-96.4342	65.2676			No	Exceeded	Road closed
Road	2023:04:25 3:57 AM	Yes	Caribou	100	Resting	N/A	0	156	Both	Yes	-96.4521	65.2622			No	Exceeded	Road closed
Road	2023:04:25 3:57 AM	Yes	Caribou	26	Walking	NE	300	158	West	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:04:25 3:57 AM	Yes	Caribou	74	Standing	W	5	164	Both	No	-96.4472	65.3226			No	Exceeded	Road closed
Incidental	2023:04:25 8:44 AM	Yes	Caribou	28	Walking	E	0	164	West,East	Yes	-96.4472	65.3226			No	Not Exceeded	
Incidental	2023:04:25 8:44 AM	Yes	Caribou	65	Walking	N	65	164	West	No	-96.4472	65.3226			No	Exceeded	Road is closed to non essential traffic. Convoy is done for daily ride and cube truck(kitchen)
Incidental	2023:04:25 8:44 AM	Yes	Caribou	37	Walking	N	37	169	West	No	-96.5370	65.3400			No	Exceeded	Road is closed to non essential traffic. Convoy is done for daily ride and cube truck(kitchen)
Incidental	2023:04:25 8:44 AM	Yes	Caribou	49	Resting	N/A	300	170	West,East	No	-96.5498	65.3466			No	Exceeded	Road is closed to non essential traffic. Convoy is done for daily ride and cube truck(kitchen)
Incidental	2023:04:25 8:44 AM	Yes	Caribou	35	Foraging	N/A	300	171	West	No	-96.5686	65.3520			No	Exceeded	Road is closed to non essential traffic. Convoy is done for daily ride and cube truck(kitchen)
Incidental	2023:04:25 8:44 AM	Yes	Caribou	55	Foraging	N/A	100	175	West	No	-96.6024	65.3773			No	Exceeded	Road is closed to non essential traffic. Convoy is done for daily ride and cube truck(kitchen)
Incidental	2023:04:25 8:44 AM	Yes	Caribou	12	Foraging	N/A	20	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:04:25 10:12 AM	Yes	Caribou	500	Standing	SE	20	136	East	No	-96.2274	65.2131			No	Exceeded	Road closed
Incidental	2023:04:25 1:29 PM	Yes	Caribou	5	Walking	N	300	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:04:25 1:29 PM	Yes	Caribou	26	Resting	N/A	600	174	West	No	-96.6013	65.3683			No	Not Exceeded	
Incidental	2023:04:25 1:29 PM	Yes	Caribou	56	Foraging	N/A	200	170	West	No	-96.5498	65.3466			No	Exceeded	The road is closed to non essential traffic.
Incidental	2023:04:25 1:29 PM	Yes	Caribou	12	Foraging	N/A	75	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Incidental	2023:04:25 1:29 PM	Yes	Caribou	59	Walking	N	650	166	West	No	-96.4882	65.3253			No	Exceeded	The road is closed to non essential traffic.
Incidental	2023:04:25 1:29 PM	Yes	Caribou	100	Walking	N	500	165	West	No	-96.4678	65.3239			No	Exceeded	The road is closed to non essential traffic.

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:04:25 1:29 PM	Yes	Caribou	66	Foraging	N/A	400	163	West	No	-96.4304	65.3174			No	Exceeded	The road is closed to non essential traffic.
Incidental	2023:04:25 1:29 PM	Yes	Caribou	138	Foraging	N/A	150	161	West	No	-96.4121	65.3032			No	Exceeded	The road is closed to non essential traffic.
Incidental	2023:04:25 3:28 PM	Yes	Caribou	35	Foraging	N/A	1500	135	West	No	-96.2080	65.2089			No	Exceeded	Road closed
Incidental	2023:04:25 3:28 PM	Yes	Caribou	45	Walking	E	600	134	East	No	-96.1929	65.2048			No	Exceeded	Road closed
Incidental	2023:04:25 3:28 PM	Yes	Caribou	148	Feeding	N/A	100	133	West	No	-96.1754	65.1992			No	Exceeded	Road closed
Incidental	2023:04:25 3:28 PM	Yes	Caribou	132	Walking	E	350	127	West,East	No	-96.1255	65.1538			No	Exceeded	Road closed
Incidental	2023:04:25 3:28 PM	Yes	Caribou	114	Walking	E	500	124	West	No	-96.1081	65.1315			No	Exceeded	Road closed
Incidental	2023:04:25 3:28 PM	Yes	Caribou	73	Foraging	N/A	450	117	West	No	-96.0394	65.0837			No	Exceeded	Road closed
Incidental	2023:04:25 3:28 PM	Yes	Caribou	185	Walking	E	750	113	East	No	-96.0022	65.0511			No	Exceeded	Road closed
Road	2023:04:26 3:55 AM	Yes	Caribou	8	Walking	S	150	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	47	Feeding	SE	100	120	West	No	-96.0728	65.1002			No	Exceeded	Road closed
Road	2023:04:26 3:55 AM	Yes	Caribou	39	Standing	N/A	150	121	West	No	-96.0864	65.1071			No	Exceeded	Road closed
Road	2023:04:26 3:55 AM	Yes	Caribou	8	Feeding	N/A	200	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	6	Feeding	N/A	125	128	West	No	-96.1358	65.1614			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	72	Feeding	N/A	25	132	Both	No	-96.1646	65.1940			No	Exceeded	Road closed
Road	2023:04:26 3:55 AM	Yes	Caribou	12	Walking	SE	100	134	West	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	17	Lying Down	N/A	50	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	84	Standing	N/A	20	152	West	No	-96.4762	65.2418			No	Exceeded	Road closed
Road	2023:04:26 3:55 AM	Yes	Caribou	134	Lying Down	N/A	100	153	West	No	-96.4763	65.2482			No	Exceeded	Road closed
Road	2023:04:26 3:55 AM	Yes	Caribou	77	Standing	N/A	40	154	West	No	-96.4630	65.2546			No	Exceeded	Road closed
Road	2023:04:26 3:55 AM	Yes	Caribou	5	Feeding	N/A	30	155	East	No	-96.4342	65.2676			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	8	Resting	N/A	50	156	East	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Muskox	6	Standing	N/A	75	157	East	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	10	Alert	N/A	50	159	West	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	89	Walking	NE	200	160	West	No	-96.4136	65.2943			No	Exceeded	Road closed
Road	2023:04:26 3:55 AM	Yes	Caribou	24	Walking	NE	300	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	17	Feeding	N/A	150	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	9	Walking	NE	400	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	90	Walking	NE	20	168	Both	No	-96.5240	65.3335			No	Exceeded	Road closed
Road	2023:04:26 3:55 AM	Yes	Caribou	66	Resting	N/A	25	172	Both	No	-96.5867	65.3550			No	Exceeded	Road closed
Road	2023:04:26 3:55 AM	Yes	Caribou	10	Feeding	N/A	40	173	East	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:04:26 3:55 AM	Yes	Caribou	165	Standing	N/A	80	178	West	No	-96.6219	65.4009			No	Exceeded	Road closed
Road	2023:04:27 3:56 AM	Yes	Caribou	110	Walking	E	0	112	Both	Yes	-96.0022	65.0511			No	Exceeded	Road closed
Road	2023:04:27 3:56 AM	Yes	Caribou	9	Walking	SE	1000	114	West	No	-96.0042	65.0668			No	Not Exceeded	
Road	2023:04:27 3:56 AM	Yes	Caribou	11	Walking	S	400	127	West	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:04:27 3:56 AM	Yes	Caribou	18	Walking	S	40	134	West	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:04:27 3:56 AM	Yes	Caribou	19	Walking	NE	250	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:04:27 3:56 AM	Yes	Caribou	21	Feeding	N/A	20	137	West	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:04:27 3:56 AM	Yes	Caribou	18	Standing	S	1500	142	West	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:04:27 3:56 AM	Yes	Caribou	210	Running	W	75	151	West	No	-96.4662	65.2345			No	Exceeded	Road closed
Road	2023:04:27 3:56 AM	Yes	Wolf	2	Walking	SW	20	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:04:27 3:56 AM	Yes	Caribou	38	Walking	S	150	153	West	No	-96.4763	65.2482			No	Exceeded	Road closed
Road	2023:04:27 3:56 AM	Yes	Caribou	27	Standing	N/A	1700	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:04:27 3:56 AM	Yes	Caribou	78	Walking	NE	1500	155	West	No	-96.4342	65.2676			No	Exceeded	Road closed
Road	2023:04:27 3:56 AM	Yes	Caribou	92	Resting	N/A	15	159	Both	No	-96.4089	65.2860			No	Exceeded	Road closed
Road	2023:04:27 3:56 AM	Yes	Caribou	17	Walking	NE	1600	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:04:27 3:56 AM	Yes	Caribou	14	Walking	NE	100	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:04:27 3:56 AM	Yes	Caribou	310	Feeding	E	0	178	Both	Yes	-96.6219	65.4009			No	Exceeded	Road closed
Road	2023:04:28 3:58 AM	Yes	Caribou	3	Feeding	N/A	50	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:04:28 3:58 AM	Yes	Caribou	7	Walking	S	200	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:04:28 3:58 AM	Yes	Caribou	246	Walking	NE	300	136	West	No	-96.2274	65.2131			No	Exceeded	Road closed
Road	2023:04:28 3:58 AM	Yes	Caribou	39	Standing	N/A	75	138	West	No	-96.2602	65.2238			No	Exceeded	Road closed
Road	2023:04:28 3:58 AM	Yes	Caribou	24	Walking	NE	80	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:04:28 3:58 AM	Yes	Caribou	11	Feeding	N/A	100	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:04:28 3:58 AM	Yes	Caribou	3	Resting	E	150	157	East	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:04:28 3:58 AM	Yes	Caribou	5	Lying Down	N/A	10	169	East	No	-96.5370	65.3400			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:04:28 3:58 AM	Yes	Caribou	43	Walking	N	50	170	West	No	-96.5498	65.3466			No	Exceeded	Road closed
Road	2023:04:28 3:58 AM	Yes	Caribou	23	Running	NE	100	173	Both	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:04:28 3:58 AM	Yes	Caribou	16	Walking	NE	125	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:04:28 3:58 AM	Yes	Caribou	27	Feeding	N/A	100	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:04:28 3:58 AM	Yes	Caribou	110	Standing	E	75	178	Both	No	-96.6219	65.4009			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	124	Lying Down	N/A	1000	113	East	No	-95.9933	65.0588			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	180	Foraging	NE	0	116	Both	Yes	-96.0206	65.0803			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	30	Foraging	NE	1	120	Both	Yes	-96.0728	65.1002			No	Not Exceeded	
Road	2023:04:29 7:23 AM	Yes	Caribou	28	Foraging	NW	80	128	West	No	-96.1358	65.1614			No	Not Exceeded	
Road	2023:04:29 7:23 AM	Yes	Caribou	32	Foraging	E	500	134	Both	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:04:29 7:23 AM	Yes	Caribou	135	Foraging	NE	100	138	Both	No	-96.2602	65.2238			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	70	Foraging	E	290	140	West	No	-96.2985	65.2220			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	136	Foraging	E	0	141	Both	Yes	-96.3181	65.2237			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	30	Walking	NE	1	143	West	Yes	-96.3580	65.2237			No	Not Exceeded	
Road	2023:04:29 7:23 AM	Yes	Caribou	18	Resting	N/A	600	147	West	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:04:29 7:23 AM	Yes	Caribou	12	Resting	N/A	400	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:04:29 7:23 AM	Yes	Caribou	51	Resting	N/A	290	150	West	No	-96.4501	65.2302			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	10	Walking	E	310	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:04:29 7:23 AM	Yes	Caribou	40	Walking	E	0	152	Both	Yes	-96.4762	65.2418			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	317	Foraging	NE	400	154	Both	No	-96.4630	65.2546			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	27	Foraging	E	1	156	Both	Yes	-96.4521	65.2622			No	Not Exceeded	
Road	2023:04:29 7:23 AM	Yes	Caribou	39	Foraging	N/A	5	158	Both	No	-96.4047	65.2778			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	54	Resting	N/A	120	161	Both	No	-96.4121	65.3032			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	200	Walking	SE	400	166	West	No	-96.4882	65.3253			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	142	Walking	SE	300	169	West	No	-96.5370	65.3400			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	46	Foraging	N/A	900	175	Both	No	-96.6024	65.3773			No	Exceeded	Road closed
Road	2023:04:29 7:23 AM	Yes	Caribou	140	Foraging	N/A	50	177	Both	No	-96.6085	65.3943			No	Exceeded	Road closed
Incidental	2023:04:29 6:40 PM	Yes	Caribou	73	Walking	E	0	150	West	Yes	-96.4501	65.2302			No	Exceeded	Road closed
Incidental	2023:04:29 6:40 PM	Yes	Caribou	145	Foraging	NE	0	147	West	Yes	-96.4184	65.2279			No	Exceeded	Road closed
Incidental	2023:04:29 6:40 PM	Yes	Caribou	150	Foraging	N	0	146	West	Yes	-96.3980	65.2263			No	Exceeded	Road closed
Incidental	2023:04:29 6:40 PM	Yes	Caribou	250	Lying Down	N/A	300	144	West	No	-96.0022	65.0511			No	Exceeded	Road closed
Incidental	2023:04:29 6:40 PM	Yes	Caribou	300	Resting	N/A	230	142	West	No	-96.3371	65.2222			No	Exceeded	Road closed
Incidental	2023:04:29 6:40 PM	Yes	Caribou	245	Resting	N/A	600	138	West	No	-96.2602	65.2238			No	Exceeded	Road closed
Road	2023:04:30 4:02 AM	Yes	Caribou	10	Feeding	N/A	75	110	West	No	-96.0407	65.0414			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	10	Walking	S	150	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	9	Walking	NE	200	128	West	No	-96.1358	65.1614			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	6	Running	N	75	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	22	Feeding	N/A	100	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	74	Trotting/running	S	300	145	West	No	-96.3769	65.2242			No	Exceeded	Road closed
Road	2023:04:30 4:02 AM	Yes	Caribou	7	Walking	W	0	147	Both	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	11	Standing	N/A	50	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	18	Standing	E	60	151	East	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	12	Walking	NE	250	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	18	Walking	E	250	152	East	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	42	Walking	E	300	155	East	No	-96.4342	65.2676			No	Exceeded	Road closed
Road	2023:04:30 4:02 AM	Yes	Muskox	5	Lying Down	N/A	30	156	East	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	27	Feeding	E	0	157	Both	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	21	Feeding	N/A	75	158	Both	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	18	Feeding	N	50	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	14	Walking	NE	300	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	8	Walking	E	0	163	Both	Yes	-96.4304	65.3174			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	43	Feeding	E	0	164	Both	Yes	-96.4472	65.3226			No	Exceeded	Road closed
Road	2023:04:30 4:02 AM	Yes	Caribou	38	Standing	N/A	100	167	West	No	-96.5061	65.3284			No	Exceeded	Road closed
Road	2023:04:30 4:02 AM	Yes	Caribou	24	Resting	N/A	250	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:04:30 4:02 AM	Yes	Caribou	102	Standing	E	0	176	Both	No	-96.6038	65.3862			No	Exceeded	Road closed
Road	2023:04:30 4:02 AM	Yes	Caribou	40	Feeding	N/A	150	177	West	No	-96.6085	65.3943			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	111	Foraging	N/A	200	121	West	No	-96.0864	65.1071			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	200	Resting	N	2000	127	West	No	-96.1255	65.1538			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	127	Foraging	E	0	132	Both	Yes	-96.1646	65.1940			No	Exceeded	Road closed



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:05:01 12:35 PM	Yes	Caribou	54	Foraging	E	450	133	West	No	-96.1754	65.1992			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	112	Walking	E	0	135	Both	Yes	-96.2080	65.2089			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	55	Foraging	N/A	310	136	West	No	-96.2274	65.2131			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	370	Foraging	N/A	1	137	West	Yes	-96.2415	65.2194			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	160	Foraging	SE	1	145	West	No	-96.3769	65.2242			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	87	Walking	SE	990	147	West	No	-96.4184	65.2279			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	27	Foraging	N/A	60	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:05:01 12:35 PM	Yes	Caribou	23	Lying Down	N/A	26	157	East	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:05:01 12:35 PM	Yes	Caribou	49	Foraging	E	28	161	Both	No	-96.4121	65.3032			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	120	Foraging	NE	0	165	Both	Yes	-96.4678	65.3239			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	41	Foraging	SE	40	167	West	No	-96.5061	65.3284			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	121	Foraging	SE	60	168	West	No	-96.5240	65.3335			No	Exceeded	Road closed
Road	2023:05:01 12:35 PM	Yes	Caribou	29	Foraging	S	50	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:05:01 12:35 PM	Yes	Caribou	44	Foraging	N/A	300	176	West	No	-96.6038	65.3862			No	Exceeded	Road closed
Road	2023:05:02 7:12 AM	Yes	Caribou	10	Foraging	NE	120	129	West	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:05:02 7:12 AM	Yes	Caribou	25	Foraging	N/A	50	157	East	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:05:02 7:12 AM	Yes	Caribou	75	Walking	S	600	162	West	No	-96.4168	65.3115			No	Exceeded	Road closed
Road	2023:05:02 7:12 AM	Yes	Caribou	30	Feeding	N/A	100	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:05:02 7:12 AM	Yes	Caribou	9	Foraging	N/A	200	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:05:03 6:48 AM	Yes	Caribou	2	Foraging	N/A	200	119	East	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:05:03 6:48 AM	Yes	Caribou	3	Foraging	N/A	200	120	West	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:05:03 6:48 AM	Yes	Caribou	5	Walking	N	300	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:05:03 6:48 AM	Yes	Caribou	8	Walking	N/A	100	132	East	No	-96.1646	65.1940			No	Not Exceeded	
Road	2023:05:03 6:48 AM	Yes	Caribou	120	Resting	N/A	600	179	West	No	-96.0735	65.0212			No	Exceeded	The road is already closed due to caribou.
Road	2023:05:03 6:48 AM	Yes	Caribou	70	Foraging	N/A	100	134	West	No	-96.1929	65.2048			No	Exceeded	The road was already closed due to caribou
Road	2023:05:03 6:48 AM	Yes	Caribou	26	Walking	S	1200	134	West	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:05:03 6:48 AM	Yes	Caribou	5	Foraging	W	100	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:05:03 6:48 AM	Yes	Caribou	18	Resting	N/A	200	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:05:03 6:48 AM	Yes	Caribou	9	Standing	N/A	400	143	East	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:05:03 6:48 AM	Yes	Caribou	50	Walking	N	300	177	West	No	-96.6085	65.3943			No	Exceeded	The road is already closed due to caribou presence
Road	2023:05:03 6:48 AM	Yes	Caribou	5	Foraging	N/A	50	174	West	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:05:03 6:48 AM	Yes	Caribou	15	Walking	E	0	159	Both	Yes	-96.4089	65.2860			No	Not Exceeded	
Road	2023:05:04 12:35 PM	Yes	Caribou	5	Resting	W	1000	110	East	N/A	-96.0407	65.0414			No	Not Exceeded	
Road	2023:05:04 12:35 PM	Yes	Caribou	45	Walking	W	100	133	East	No	-96.1754	65.1992			No	Exceeded	Road closed
Road	2023:05:04 12:35 PM	Yes	Caribou	110	Walking	SW	2000	134	West	No	-96.1929	65.2048			No	Exceeded	Road closed
Road	2023:05:04 12:35 PM	Yes	Caribou	10	Trotting/running	SE	200	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:05:04 12:35 PM	Yes	Muskox	5	Feeding	N/A	300	140	East	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:05:04 12:35 PM	Yes	Caribou	50	Feeding	N/A	50	153	Both	No	-96.4763	65.2482			No	Exceeded	Road closed
Road	2023:05:04 12:35 PM	Yes	Caribou	14	Walking	S	20	155	Both	No	-96.4342	65.2676			No	Not Exceeded	
Road	2023:05:05 5:45 AM	Yes	Caribou	17	Standing	Not Recorded	75	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:05:05 5:45 AM	Yes	Caribou	46	Alert	N	350	170	West	No	-96.5498	65.3466			No	Exceeded	Road closed
Road	2023:05:05 5:45 AM	Yes	Caribou	14	Alert	W	300	168	West	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:05:05 5:45 AM	Yes	Caribou	41	Standing	N/A	100	163	West	No	-96.4304	65.3174			No	Exceeded	Road closed
Road	2023:05:05 5:45 AM	Yes	Caribou	19	Standing	S	500	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:05:05 5:45 AM	Yes	Caribou	7	Alert	S	50	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:05:05 5:45 AM	Yes	Caribou	37	Standing	S	50	157	Both	No	-96.4158	65.2712			No	Exceeded	Road closed
Road	2023:05:05 5:45 AM	Yes	Caribou	16	Lying Down	Not Recorded	100	156	East	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:05:05 5:45 AM	Yes	Caribou	3	Standing	E	50	151	East	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:05:05 6:00 AM	Yes	Caribou	3	Trotting/running	E	150	119	East	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:05:05 6:00 AM	Yes	Caribou	8	Foraging	N/A	300	122	West	No	-96.0971	65.1148			No	Not Exceeded	
Road	2023:05:05 6:00 AM	Yes	Caribou	17	Alert	SE	100	132	East	No	-96.1646	65.1940			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:05:05 6:00 AM	Yes	Caribou	10	Walking	S	200	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:05:05 6:00 AM	Yes	Muskox	4	Resting	N/A	75	141	East	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:05:05 6:00 AM	Yes	Caribou	9	Foraging	N/A	250	143	West	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:05:05 6:00 AM	Yes	Caribou	17	Foraging	SW	300	143	West	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:05:05 6:00 AM	Yes	Caribou	16	Resting	N/A	450	143	West	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:05:05 6:00 AM	Yes	Caribou	13	Alert	SE	50	146	West	Yes	-96.3980	65.2263			No	Not Exceeded	
Road	2023:05:05 6:00 AM	Yes	Wolf	1	Walking	S	400	147	West	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:05:05 6:00 AM	Yes	Caribou	31	Foraging	N/A	200	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:05:06 6:36 AM	Yes	Caribou	4	Foraging	N/A	400	113	West	No	-95.9933	65.0588			No	Not Exceeded	
Road	2023:05:06 6:36 AM	Yes	Caribou	28	Foraging	N/A	160	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:05:06 6:36 AM	Yes	Caribou	43	Foraging	S	300	123	West	No	-96.1044	65.1222			No	Exceeded	Road closed
Road	2023:05:06 6:36 AM	Yes	Caribou	14	Foraging	N/A	300	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:05:06 6:36 AM	Yes	Caribou	10	Foraging	N/A	500	143	West	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:05:06 6:36 AM	Yes	Caribou	6	Alert	N/A	240	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:05:06 6:36 AM	Yes	Caribou	24	Foraging	NE	300	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:05:06 6:36 AM	Yes	Caribou	96	Lying Down	N/A	450	173	West	No	-96.6030	65.3597			No	Exceeded	Road closed
Incidental	2023:05:06 12:05 PM	Yes	Caribou	110	Foraging	S	300	138	West	No	-96.2602	65.2238			No	Exceeded	Road closed
Incidental	2023:05:06 12:05 PM	Yes	Caribou	51	Foraging	N/A	270	130	West	No	-96.1528	65.1782			No	Exceeded	Road closed
Incidental	2023:05:06 12:05 PM	Yes	Caribou	57	Foraging	SW	300	125	West	No	-96.1079	65.1391			No	Exceeded	Road closed
Incidental	2023:05:06 12:05 PM	Yes	Caribou	99	Resting	N/A	2400	123	West,East	No	-96.1044	65.1222			No	Exceeded	Road closed
Incidental	2023:05:06 12:05 PM	Yes	Caribou	120	Foraging	N	350	113	West	No	-95.9933	65.0588			No	Exceeded	Road closed
Road	2023:05:07 6:43 AM	Yes	Caribou	131	Foraging	N/A	290	113	West	No	-95.9933	65.0588			No	Exceeded	Road closed
Road	2023:05:07 6:43 AM	Yes	Caribou	5	Walking	E	300	114	West	No	-96.0042	65.0668			No	Not Exceeded	
Road	2023:05:07 6:43 AM	Yes	Caribou	48	Foraging	N/A	290	115	West	No	-96.0090	65.0711			No	Exceeded	Road closed
Road	2023:05:07 6:43 AM	Yes	Caribou	60	Foraging	S	230	118	West	No	-96.0551	65.0865			No	Exceeded	Road closed
Road	2023:05:07 6:43 AM	Yes	Caribou	120	Running	W	700	120	West	No	-96.0728	65.1002			No	Exceeded	Road closed
Road	2023:05:07 6:43 AM	Yes	Wolf	2	Running	W	600	120	West	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:05:07 6:43 AM	Yes	Caribou	29	Lying Down	N/A	280	127	West	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:05:07 6:43 AM	Yes	Caribou	23	Foraging	N/A	250	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:05:07 6:43 AM	Yes	Caribou	25	Foraging	SE	230	138	West	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:05:07 6:43 AM	Yes	Wolverine	1	Walking	W	400	139	West	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:05:07 7:37 AM	Yes	Caribou	25	Foraging	N/A	2000	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:05:07 7:37 AM	Yes	Caribou	70	Walking	S	200	178	West	No	-96.6219	65.4009			No	Exceeded	Road closed
Road	2023:05:07 7:37 AM	Yes	Caribou	28	Foraging	N/A	800	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:05:07 7:37 AM	Yes	Caribou	3	Running	S	400	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:05:07 7:37 AM	Yes	Caribou	5	Foraging	N/A	300	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:05:07 7:37 AM	Yes	Caribou	17	Foraging	N/A	150	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:05:07 7:37 AM	Yes	Caribou	20	Foraging	N/A	200	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:05:07 7:37 AM	Yes	Caribou	80	Foraging	N/A	50	157	West	No	-96.4158	65.2712			No	Exceeded	Road closed
Road	2023:05:07 7:37 AM	Yes	Caribou	75	Lying Down	N/A	75	153	West	No	-96.4763	65.2482			No	Exceeded	Road closed
Road	2023:05:07 7:37 AM	Yes	Caribou	70	Walking	SW	1500	147	West	No	-96.4184	65.2279			No	Exceeded	Road closed
Road	2023:05:08 4:52 AM	Yes	Caribou	9	Foraging	N/A	300	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Road	2023:05:08 4:52 AM	Yes	Caribou	8	Foraging	E	400	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:05:08 4:52 AM	Yes	Caribou	21	Foraging	S	700	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:05:08 4:52 AM	Yes	Caribou	25	Walking	N	50	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Road	2023:05:08 4:52 AM	Yes	Caribou	47	Foraging	N/A	400	127	West	No	-96.1255	65.1538			No	Exceeded	Road already closed due to caribou
Road	2023:05:08 4:52 AM	Yes	Caribou	45	Foraging	N/A	250	128	West	No	-96.1358	65.1614			No	Exceeded	Road already closed due to caribou
Road	2023:05:08 4:52 AM	Yes	Caribou	12	Foraging	N/A	150	132	West	No	-96.1646	65.1940			No	Not Exceeded	
Road	2023:05:08 4:52 AM	Yes	Caribou	19	Resting	N/A	400	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:05:08 4:52 AM	Yes	Caribou	1	Alert	N	200	138	East	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:05:08 4:52 AM	Yes	Caribou	23	Foraging	N	200	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:05:08 6:05 AM	Yes	Caribou	5	Resting	N/A	200	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:05:08 6:05 AM	Yes	Caribou	16	Walking	SW	100	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:05:08 6:05 AM	Yes	Caribou	20	Foraging	N/A	100	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:05:08 6:05 AM	Yes	Caribou	50	Resting	N/A	1500	146	West	No	-96.3980	65.2263			No	Exceeded	Road closed



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:05:08 1:30 PM	Yes	Caribou	6	Standing	Not Recorded	250	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:05:08 1:30 PM	Yes	Caribou	2	Standing	Not Recorded	500	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:05:08 1:30 PM	Yes	Caribou	12	Foraging	Not Recorded	750	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:05:08 1:30 PM	Yes	Caribou	6	Resting	Not Recorded	1000	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:05:08 1:30 PM	Yes	Caribou	20	Standing	Not Recorded	1000	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:05:08 1:30 PM	Yes	Caribou	17	Running	N	500	134	West	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:05:08 1:30 PM	Yes	Caribou	22	Standing	Not Recorded	1000	137	West	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:05:08 1:30 PM	Yes	Caribou	25	Feeding	Not Recorded	1000	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:05:08 1:30 PM	Yes	Caribou	5	Trotting/running	W	500	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:05:08 1:30 PM	Yes	Caribou	23	Alert	Not Recorded	200	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Incidental	2023:05:08 4:12 PM	Yes	Falcon	1	Flying	N	0	175	East	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:05:08 6:13 PM	Yes	Caribou	5	Resting	Not Recorded	200	177	West	No	-96.6314	65.4038			No	Not Exceeded	
Road	2023:05:08 6:13 PM	Yes	Caribou	16	Walking	S	200	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:05:08 6:13 PM	Yes	Caribou	20	Foraging	Not Recorded	100	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:05:08 6:13 PM	Yes	Caribou	50	Resting	Not Recorded	1500	146	West	No	-96.3980	65.2263			No	Exceeded	Road closed
Road	2023:05:09 7:25 AM	Yes	Caribou	16	Resting	Not Recorded	750	159	West	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:05:09 8:20 AM	Yes	Caribou	29	Foraging	N/A	150	139	West	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:05:09 8:20 AM	Yes	Caribou	110	Walking	N	2000	134	West	No	-96.1929	65.2048			No	Exceeded	Road closed
Road	2023:05:09 8:20 AM	Yes	Caribou	29	Foraging	SE	270	127	West	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:05:09 3:59 PM	Yes	Caribou	13	Walking	S	350	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:05:09 3:59 PM	Yes	Caribou	6	Foraging	SE	600	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:05:09 3:59 PM	Yes	Caribou	36	Foraging	S	400	162	West	No	-96.4168	65.3115			No	Exceeded	Road closed
Road	2023:05:09 3:59 PM	Yes	Caribou	30	Foraging	S	200	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:05:09 3:59 PM	Yes	Caribou	5	Foraging	E	140	145	West	No	-96.3769	65.2242			No	Not Exceeded	
Road	2023:05:09 3:59 PM	Yes	Caribou	5	Lying Down	N/A	310	143	West	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:05:09 3:59 PM	Yes	Caribou	152	Foraging	NE	130	138	West	No	-96.2602	65.2238			No	Exceeded	Road closed
Road	2023:05:09 3:59 PM	Yes	Caribou	51	Lying Down	N/A	780	133	West	No	-96.1754	65.1992			No	Exceeded	Road closed
Road	2023:05:09 3:59 PM	Yes	Caribou	3	Foraging	N/A	70	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:05:09 3:59 PM	Yes	Caribou	43	Walking	S	200	119	West	No	-96.0648	65.0932			No	Exceeded	Road closed
Road	2023:05:10 5:04 AM	Yes	Caribou	39	Foraging	NW	0	116	West	Yes	-96.0206	65.0803			No	Exceeded	Road closed
Road	2023:05:10 5:04 AM	Yes	Caribou	2	Foraging	S	200	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:05:10 5:04 AM	Yes	Caribou	57	Foraging	E	0	125	Both	Yes	-96.1079	65.1391			No	Exceeded	Road closed
Road	2023:05:10 5:04 AM	Yes	Caribou	46	Foraging	N/A	150	126	West	No	-96.1108	65.1482			No	Exceeded	Road closed
Road	2023:05:10 5:04 AM	Yes	Caribou	15	Foraging	N	450	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:05:10 5:04 AM	Yes	Caribou	25	Foraging	N	500	136	East	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:05:10 5:04 AM	Yes	Caribou	42	Lying Down	N/A	580	138	West	No	-96.2602	65.2238			No	Exceeded	Road closed
Road	2023:05:10 5:04 AM	Yes	Caribou	35	Lying Down	N/A	400	142	West	No	-96.3371	65.2222			No	Exceeded	Road closed
Road	2023:05:10 5:04 AM	Yes	Caribou	19	Foraging	N/A	230	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:05:10 5:04 AM	Yes	Caribou	5	Foraging	N/A	220	153	West	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:05:10 5:04 AM	Yes	Caribou	39	Foraging	S	600	170	West	No	-96.5498	65.3466			No	Exceeded	Road closed
Road	2023:05:10 7:28 AM	Yes	Caribou	3	Foraging	N/A	100	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:05:10 7:28 AM	Yes	Caribou	7	Foraging	N/A	150	174	West	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:05:10 7:28 AM	Yes	Caribou	24	Standing	Not Recorded	1000	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:05:10 3:49 PM	Yes	Caribou	25	Foraging	N/A	800	177	West	No	-96.6085	65.3943			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:05:10 3:49 PM	Yes	Caribou	30	Foraging	SE	300	174	West	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:05:10 3:49 PM	Yes	Caribou	34	Walking	S	800	167	West	No	-96.5061	65.3284			No	Exceeded	Road closed
Road	2023:05:10 3:49 PM	Yes	Caribou	50	Foraging	SE	400	164	West	No	-96.4472	65.3226			No	Exceeded	Road closed
Road	2023:05:10 3:49 PM	Yes	Caribou	41	Walking	S	240	162	West	No	-96.4168	65.3115			No	Exceeded	Road closed
Road	2023:05:10 3:49 PM	Yes	Caribou	27	Foraging	S	800	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:05:10 3:49 PM	Yes	Caribou	10	Foraging	SE	300	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:05:10 3:49 PM	Yes	Caribou	19	Foraging	NE	120	146	West	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:05:10 3:49 PM	Yes	Caribou	54	Foraging	E	190	138	West	No	-96.2602	65.2238			No	Exceeded	Road closed
Road	2023:05:10 3:49 PM	Yes	Caribou	2	Foraging	SE	30	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:05:10 3:49 PM	Yes	Caribou	71	Foraging	N/A	560	118	West	No	-96.0551	65.0865			No	Exceeded	Road closed
Road	2023:05:11 7:34 AM	Yes	Caribou	27	Walking	NE	190	112	West	No	-96.0022	65.0511			No	Not Exceeded	
Road	2023:05:11 7:34 AM	Yes	Caribou	33	Foraging	S	600	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:05:11 7:35 AM	Yes	Caribou	4	Alert	N/A	500	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:05:11 7:35 AM	Yes	Caribou	15	Alert	N/A	100	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:05:11 7:35 AM	Yes	Caribou	107	Standing	E	100	169	Both	No	-96.5370	65.3400			No	Exceeded	Road closed
Road	2023:05:11 7:35 AM	Yes	Caribou	14	Running	W	40	150	West	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:05:11 7:35 AM	Yes	Caribou	15	Walking	S	1000	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:05:11 7:35 AM	Yes	Caribou	60	Running	S	150	140	West	No	-96.2985	65.2220			No	Exceeded	Road closed
Road	2023:05:12 7:28 AM	Yes	Caribou	25	Foraging	N/A	500	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:05:12 7:28 AM	Yes	Caribou	73	Foraging	N/A	300	127	West	No	-96.1255	65.1538			No	Exceeded	Road closed
Road	2023:05:12 7:28 AM	Yes	Caribou	43	Foraging	N/A	400	129	West	No	-96.1459	65.1690			No	Exceeded	Road closed
Road	2023:05:12 7:28 AM	Yes	Caribou	5	Foraging	N/A	500	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:05:12 7:28 AM	Yes	Caribou	17	Foraging	N/A	250	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:05:12 7:28 AM	Yes	Caribou	5	Walking	S	750	147	West	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:05:12 7:28 AM	Yes	Caribou	16	Walking	W	850	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:05:12 7:28 AM	Yes	Caribou	23	Foraging	N/A	800	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:05:12 7:28 AM	Yes	Caribou	75	Foraging	N/A	500	178	West	No	-96.6219	65.4009			No	Exceeded	Road closed
Road	2023:05:12 7:38 AM	Yes	Caribou	30	Alert	S	200	179	West	No	-96.6449	65.4052			No	Not Exceeded	
Road	2023:05:12 7:38 AM	Yes	Caribou	20	Alert	N/A	600	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:05:12 7:38 AM	Yes	Caribou	6	Running	W	150	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:05:12 7:38 AM	Yes	Caribou	8	Trotting/running	E	20	157	East	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:05:12 7:38 AM	Yes	Caribou	12	Running	W	2000	147	West	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:05:12 7:38 AM	Yes	Caribou	7	Running	S	2000	138	West	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:05:12 7:38 AM	Yes	Caribou	7	Walking	S	2000	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:05:12 7:38 AM	Yes	Caribou	51	Running	S	500	130	West	No	-96.1528	65.1782			No	Exceeded	Road closed
Road	2023:05:12 7:38 AM	Yes	Caribou	24	Alert	N/A	500	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:05:12 7:38 AM	Yes	Caribou	21	Resting	N/A	300	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Incidental	2023:05:12 11:28 AM	Yes	Caribou	4	Foraging	N/A	1000	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Incidental	2023:05:12 11:28 AM	Yes	Caribou	16	Foraging	N/A	350	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Incidental	2023:05:12 11:28 AM	Yes	Caribou	3	Foraging	N/A	300	125	West	No	-96.1079	65.1391			No	Not Exceeded	
Incidental	2023:05:12 11:28 AM	Yes	Caribou	23	Walking	E	300	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Incidental	2023:05:12 11:28 AM	Yes	Caribou	24	Walking	E	350	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Incidental	2023:05:12 11:28 AM	Yes	Caribou	7	Walking	E	750	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Incidental	2023:05:12 11:47 AM	Yes	Caribou	6	Foraging	N/A	650	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Incidental	2023:05:12 12:13 PM	Yes	Caribou	3	Walking	S	500	153	West	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	14	Alert	N/A	400	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	16	Walking	E	0	176	Both	Yes	-96.6038	65.3862			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	20	Foraging	E	50	174	West	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	12	Alert	W	200	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	2	Foraging	N/A	1500	158	East	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	9	Running	S	1000	156	West	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	6	Running	W	500	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	5	Alert	N/A	1000	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	10	Resting	N/A	700	129	West	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	1	Feeding	N/A	50	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:05:13 8:00 AM	Yes	Caribou	55	Resting	N/A	500	116	West	No	-96.0206	65.0803			No	Exceeded	Road closed
Road	2023:05:14 4:16 AM	Yes	Caribou	9	Walking	S	500	179	West	No	-96.6626	65.4029			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	6	Foraging	N/A	100	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	8	Resting	N/A	250	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	18	Resting	N/A	100	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	3	Foraging	N/A	350	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	13	Resting	N/A	600	161	West	No	-96.4121	65.3032			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:05:14 4:16 AM	Yes	Caribou	11	Foraging	N/A	150	159	West	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	8	Walking	S	200	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	2	Foraging	N/A	100	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	4	Walking	E	800	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	1	Foraging	E	500	137	East	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	4	Alert	N/A	300	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	5	Foraging	N/A	25	132	West	No	-96.1646	65.1940			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	6	Resting	N/A	150	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	3	Walking	S	200	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	12	Foraging	N/A	500	122	West	No	-96.0971	65.1148			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	18	Resting	N/A	500	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:05:14 4:16 AM	Yes	Caribou	32	Foraging	N/A	400	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Incidental	2023:05:14 12:48 PM	Yes	Caribou	3	Alert	N/A	500	125	West	No	-96.1079	65.1391			No	Not Exceeded	
Incidental	2023:05:14 12:48 PM	Yes	Caribou	2	Walking	N	200	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:05:15 5:57 AM	Yes	Caribou	19	Foraging	N/A	1000	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:05:15 5:57 AM	Yes	Caribou	25	Resting	N/A	1000	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:05:15 5:57 AM	Yes	Caribou	13	Walking	SE	0	138	Both	Yes	-96.2602	65.2238			No	Not Exceeded	
Road	2023:05:15 5:57 AM	Yes	Caribou	29	Foraging	N/A	450	112	West	No	-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:05:15 10:29 AM	Yes	Caribou	52	Walking	NE	500	113	West	No	-95.9933	65.0588			No	Exceeded	Road closed until caribou left the zone
Incidental	2023:05:15 10:29 AM	Yes	Caribou	10	Foraging	N/A	200	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Incidental	2023:05:15 10:29 AM	Yes	Caribou	54	Walking	E	0	112	West,East	Yes	-96.0022	65.0511			No	Exceeded	The Vault Road was closed to allow them to cross. Monitoring was done on the group until the vast majority crossed
Incidental	2023:05:15 10:29 AM	Yes	Caribou	3	Resting	N/A	300	123	East	No	-96.1044	65.1222			No	Not Exceeded	
Incidental	2023:05:15 10:29 AM	Yes	Muskox	6	Foraging	N/A	150	136	West,East	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:05:16 4:12 AM	Yes	Wolf	1	Trotting/running	E	0	134	Both	Yes	-96.1929	65.2048			No	Not Exceeded	
Road	2023:05:16 4:12 AM	Yes	Caribou	29	Foraging	N/A	450	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:05:16 4:12 AM	Yes	Caribou	7	Lying Down	N/A	600	117	West	No	-96.0394	65.0837			No	Not Exceeded	
Road	2023:05:16 4:12 AM	Yes	Caribou	27	Walking	NW	750	112	West	No	-96.0022	65.0511			No	Not Exceeded	
Road	2023:05:16 4:12 AM	Yes	Caribou	1	Walking	E	0	113	Both	Yes	-95.9933	65.0588			No	Not Exceeded	
Incidental	2023:05:16 7:18 AM	Yes	Caribou	9	Walking	S	700	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Incidental	2023:05:16 7:18 AM	Yes	Caribou	7	Foraging	N/A	300	143	West	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:05:17 4:16 AM	Yes	Caribou	14	Walking	S	200	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:05:17 4:16 AM	Yes	Caribou	3	Walking	NW	500	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:05:17 4:16 AM	Yes	Caribou	5	Foraging	N/A	500	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:05:17 4:16 AM	Yes	Caribou	2	Foraging	N/A	300	143	West	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:05:17 4:16 AM	Yes	Caribou	8	Foraging	N/A	500	137	West	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:05:17 4:16 AM	Yes	Caribou	2	Foraging	N/A	400	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:05:17 4:16 AM	Yes	Caribou	4	Walking	S	300	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:05:17 4:16 AM	Yes	Caribou	14	Walking	SE	450	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:05:17 4:16 AM	Yes	Caribou	22	Walking	E	200	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Incidental	2023:05:17 7:02 AM	Yes	Caribou	11	Foraging	N/A	400	117	West	No	-96.0394	65.0837			No	Not Exceeded	
Incidental	2023:05:17 7:02 AM	Yes	Muskox	4	Foraging	N/A	550	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Incidental	2023:05:17 7:02 AM	Yes	Caribou	11	Walking	S	300	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Incidental	2023:05:17 7:02 AM	Yes	Caribou	14	Foraging	N/A	150	133	West	No	-96.1754	65.1992			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:05:17 7:02 AM	Yes	Caribou	59	Foraging	N/A	200	177	West	No	-96.6085	65.3943			No	Exceeded	The road was closed to all traffic between AMQ and KM 170 to allow the caribou to cross. They got closed to the road before turning around and walking west. Monitoring was done on the group until they were 1500m away from the project. The road was reopened once the caribou were far away enough (1500+m)
Road	2023:05:18 7:42 AM	Yes	Caribou	2	Walking	S	250	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:05:18 7:42 AM	Yes	Caribou	20	Foraging	N/A	100	142	West	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:05:18 7:42 AM	Yes	Caribou	7	Foraging	S	300	129	West	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:05:18 7:42 AM	Yes	Caribou	17	Foraging	N/A	100	128	West	No	-96.1358	65.1614			No	Not Exceeded	
Road	2023:05:18 7:42 AM	Yes	Caribou	2	Foraging	N/A	200	127	West	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:05:18 7:42 AM	Yes	Caribou	20	Walking	SE	1000	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:05:18 7:42 AM	Yes	Caribou	3	Foraging	N/A	500	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Road	2023:05:18 7:42 AM	Yes	Caribou	9	Foraging	N/A	600	112	West	No	-96.0022	65.0511			No	Not Exceeded	
Road	2023:05:19 8:28 AM	Yes	Caribou	2	Foraging	N/A	250	141	East	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:05:19 8:28 AM	Yes	Caribou	3	Walking	S	400	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:05:19 8:28 AM	Yes	Caribou	5	Walking	S	500	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:05:19 8:28 AM	Yes	Caribou	29	Foraging	N/A	300	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Incidental	2023:05:19 2:48 PM	Yes	Caribou	38	Foraging	SW	500	130	West	No	-96.1528	65.1782			No	Exceeded	Road closed until caribou left the zone
Road	2023:05:20 9:26 AM	Yes	Caribou	1	Alert	N/A	500	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:05:20 9:26 AM	Yes	Muskox	1	Foraging	N/A	20	132	East	No	-96.1646	65.1940			No	Not Exceeded	
Incidental	2023:05:20 12:41 PM	Yes	Peregrine falcon	1	Flying	N/A	100	124	East	No	-96.1081	65.1315			No	Not Exceeded	
Incidental	2023:05:20 12:41 PM	Yes	Muskox	2	Lying Down	N/A	25	133	East	No	-96.1754	65.1992			No	Not Exceeded	
Incidental	2023:05:20 12:41 PM	Yes	Caribou	4	Lying Down	N/A	300	137	East	No	-96.2415	65.2194			No	Not Exceeded	
Incidental	2023:05:20 12:41 PM	Yes	Muskox	2	Standing	N/A	100	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:05:21 1:24 PM	Yes	Caribou	5	Foraging	S	100	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:05:21 1:24 PM	Yes	Caribou	4	Walking	W	70	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:05:21 1:24 PM	Yes	Caribou	4	Standing	N/A	300	127	West	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:05:21 1:24 PM	Yes	Caribou	4	Foraging	N/A	500	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:05:21 1:24 PM	Yes	Caribou	4	Walking	SE	200	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:05:21 1:24 PM	Yes	Caribou	3	Walking	N	1500	117	West	No	-96.0394	65.0837			No	Not Exceeded	
Road	2023:05:21 1:24 PM	Yes	Caribou	10	Foraging	W	250	117	West	No	-96.0394	65.0837			No	Not Exceeded	
Road	2023:05:21 1:24 PM	Yes	Caribou	8	Foraging	N/A	200	113	West	No	-95.9933	65.0588			No	Not Exceeded	
Incidental	2023:05:21 4:01 PM	Yes	Caribou	6	Lying Down	N/A	200	112	West	No	-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:05:21 4:01 PM	Yes	Muskox	2	Foraging	N/A	300	119	East	No	-96.0648	65.0932			No	Not Exceeded	
Incidental	2023:05:21 4:01 PM	Yes	Caribou	4	Foraging	N/A	200	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Incidental	2023:05:21 4:01 PM	Yes	Caribou	3	Foraging	N/A	200	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Incidental	2023:05:21 4:01 PM	Yes	Caribou	1	Walking	S	300	127	West	No	-96.1255	65.1538			No	Not Exceeded	
Incidental	2023:05:21 4:01 PM	Yes	Muskox	6	Foraging	N/A	75	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Incidental	2023:05:21 4:01 PM	Yes	Caribou	3	Foraging	N/A	175	157	West	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:05:22 8:41 AM	Yes	Caribou	6	Walking	E	0	171	Both	Yes	-96.5686	65.3520			No	Not Exceeded	
Road	2023:05:22 8:41 AM	Yes	Caribou	7	Lying Down	N/A	500	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:05:22 8:41 AM	Yes	Caribou	4	Foraging	N/A	500	159	East	No	-96.4089	65.2860			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:05:22 8:41 AM	Yes	Caribou	1	Standing	N/A	350	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:05:22 8:41 AM	Yes	Muskox	1	Foraging	N/A	10	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:05:22 8:41 AM	Yes	Caribou	14	Walking	E	800	117	West	No	-96.0394	65.0837			No	Not Exceeded	
Incidental	2023:05:22 3:16 PM	Yes	Caribou	1	Foraging	N/A	50	121	East	No	-96.0864	65.1071			No	Not Exceeded	
Incidental	2023:05:22 3:16 PM	Yes	Caribou	17	Walking	N	150	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Incidental	2023:05:22 3:16 PM	Yes	Caribou	2	Foraging	N/A	50	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Incidental	2023:05:22 3:16 PM	Yes	Caribou	9	Foraging	N/A	100	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Incidental	2023:05:22 3:16 PM	Yes	Caribou	3	Foraging	N/A	100	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:05:23 6:48 AM	Yes	Caribou	4	Foraging	N/A	300	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:05:23 6:48 AM	Yes	Caribou	2	Foraging	N/A	50	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:05:23 6:48 AM	Yes	Caribou	2	Walking	S	1000	147	West	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:05:23 6:48 AM	Yes	Wolf	1	Feeding	N/A	50	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Road	2023:05:23 6:48 AM	Yes	Caribou	1	Foraging	N/A	25	122	East	No	-96.0971	65.1148			No	Not Exceeded	
Road	2023:05:23 6:48 AM	Yes	Caribou	30	Resting	N/A	700	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Incidental	2023:05:23 10:13 AM	Yes	Caribou	30	Lying Down	N/A	400	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Incidental	2023:05:23 10:13 AM	Yes	Wolf	1	Walking	S	200	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Incidental	2023:05:23 10:13 AM	Yes	Muskox	5	Foraging	N/A	250	137	East	No	-96.2415	65.2194			No	Not Exceeded	
Incidental	2023:05:23 10:13 AM	Yes	Caribou	3	Foraging	N/A	75	159	West	No	-96.4089	65.2860			No	Not Exceeded	
Incidental	2023:05:23 10:13 AM	Yes	Caribou	6	Walking	S	200	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:05:23 10:13 AM	Yes	Caribou	15	Lying Down	N/A	200	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Incidental	2023:05:23 10:13 AM	Yes	Muskox	1	Foraging	N/A	300	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	4	Foraging	N/A	300	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Ptarmigan	3	Walking	N/A	50	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	3	Standing	N/A	250	168	West	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	5	Foraging	Not Recorded	250	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	7	Lying Down	N/A	400	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Ptarmigan	1	Standing	N/A	30	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Arctic hare	1	Foraging	N/A	30	150	West	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	2	Resting	N/A	250	144	East	No	-96.3801	65.2250			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Muskox	2	Feeding	N/A	75	135	East	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	1	Walking	S	100	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	4	Foraging	N/A	50	128	West	No	-96.1358	65.1614			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	7	Walking	N	900	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	23	Resting	N/A	900	125	West	No	-96.1079	65.1391			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	3	Walking	N	1200	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Muskox	2	Foraging	N/A	5	122	East	No	-96.0971	65.1148			No	Not Exceeded	
Road	2023:05:24 6:39 AM	Yes	Caribou	11	Walking	S	1800	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:05:25 7:00 AM	Yes	Muskox	1	Foraging	N/A	50	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:05:25 7:00 AM	Yes	Caribou	18	Lying Down	N/A	300	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:05:25 7:00 AM	Yes	Caribou	24	Foraging	N/A	100	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:05:25 7:00 AM	Yes	Caribou	3	Resting	N/A	500	131	West	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:05:25 7:00 AM	Yes	Caribou	26	Walking	N	200	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:05:25 7:00 AM	Yes	Caribou	3	Foraging	N/A	150	125	West	No	-96.1079	65.1391			No	Not Exceeded	
Road	2023:05:25 7:00 AM	Yes	Caribou	3	Standing	N/A	150	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:05:26 1:02 PM	Yes	Caribou	3	Foraging	N/A	100	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:05:26 1:02 PM	Yes	Caribou	2	Walking	S	150	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:05:26 1:02 PM	Yes	Caribou	2	Resting	N/A	800	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:05:26 1:02 PM	Yes	Muskox	1	Feeding	N/A	1200	137	East	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:05:26 1:02 PM	Yes	Caribou	15	Feeding	N/A	400	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:05:26 1:02 PM	Yes	Caribou	3	Feeding	N/A	700	129	West	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:05:26 1:02 PM	Yes	Caribou	19	Running	S	350	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Road	2023:05:26 1:02 PM	Yes	Caribou	18	Lying Down	N/A	800	120	West	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:05:26 1:02 PM	Yes	Caribou	14	Trotting/running	N	200	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Caribou	11	Feeding	N/A	275	111	West	No	-96.0240	65.0481			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Snow goose	53	Standing	N/A	700	125	West	No	-96.1079	65.1391			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:05:27 6:49 AM	Yes	Snow goose	110	Standing	N/A	600	129	Both	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Caribou	15	Feeding	NE	75	129	West	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Snow goose	150	Standing	N/A	20	137	East	N/A	-96.2415	65.2194			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Snow goose	90	Standing	N/A	100	139	East	N/A	-96.2800	65.2269			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Snow goose	40	Standing	N/A	1000	141	East	N/A	-96.3181	65.2237			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Caribou	3	Feeding	N/A	600	145	East	N/A	-96.3769	65.2242			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Snow goose	120	Standing	N/A	200	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Muskox	4	Standing	N/A	100	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Snow goose	90	Standing	N/A	50	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:05:27 6:49 AM	Yes	Arctic fox	1	Running	S	0	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Incidental	2023:05:27 9:54 AM	Yes	Caribou	10	Resting	N/A	400	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Incidental	2023:05:27 9:54 AM	Yes	Caribou	10	Feeding	N/A	1000	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Incidental	2023:05:27 9:54 AM	Yes	Caribou	2	Trotting/running	SE	35	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:05:28 8:04 AM	Yes	Muskox	2	Foraging	N/A	250	142	East	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:05:28 8:04 AM	Yes	Muskox	3	Foraging	NW	1000	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:05:28 8:04 AM	Yes	Caribou	12	Walking	N	500	127	West	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:05:28 8:04 AM	Yes	Caribou	4	Resting	N/A	500	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Road	2023:05:30 12:55 PM	Yes	Caribou	3	Walking	W	500	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:05:30 12:55 PM	Yes	Caribou	7	Walking	N	800	122	West	No	-96.0971	65.1148			No	Not Exceeded	
Road	2023:05:30 12:55 PM	Yes	Caribou	3	Walking	N	750	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Road	2023:05:31 7:07 AM	Yes	Caribou	1	Feeding	N/A	300	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:05:31 7:07 AM	Yes	Caribou	7	Walking	N/A	400	160	West	N/A	-96.4136	65.2943			No	Not Exceeded	
Road	2023:05:31 7:07 AM	Yes	Caribou	5	Feeding	N/A	600	129	West	N/A	-96.1459	65.1690			No	Not Exceeded	
Road	2023:05:31 7:07 AM	Yes	Sandhill crane	1	Standing	N/A	10	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:05:31 7:07 AM	Yes	Caribou	10	Standing	N/A	500	112	West	N/A	-96.0022	65.0511			No	Not Exceeded	
Road	2023:06:02 10:16 AM	Yes	Caribou	30	Lying Down	N/A	250	117	West	No	-96.0394	65.0837			No	Exceeded	Speed Restriction
Road	2023:06:02 10:16 AM	Yes	Caribou	4	Feeding	N/A	200	120	West	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:06:02 10:16 AM	Yes	Caribou	3	Feeding	N/A	50	127	East	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:06:02 10:16 AM	Yes	Muskox	4	Trotting/running	N/A	500	128	West	No	-96.1358	65.1614			No	Not Exceeded	
Road	2023:06:02 10:16 AM	Yes	Caribou	17	Feeding	N/A	1100	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:06:02 10:16 AM	Yes	Caribou	5	Lying Down	N/A	500	139	West	No	-96.2800	65.2269			No	Not Exceeded	
Incidental	2023:06:02 2:21 PM	Yes	Caribou	12	Feeding	N/A	250	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Incidental	2023:06:02 2:21 PM	Yes	Caribou	11	Foraging	N/A	1	140	West	No	-96.2985	65.2220			No	Not Exceeded	
Incidental	2023:06:02 2:21 PM	Yes	Caribou	12	Walking	SE	700	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Incidental	2023:06:02 2:21 PM	Yes	Caribou	17	Walking	NE	300	127	West	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:06:03 12:58 PM	Yes	Caribou	20	Lying Down	N/A	1100	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:06:03 12:58 PM	Yes	Muskox	1	Feeding	N/A	10	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:06:03 12:58 PM	Yes	Caribou	6	Walking	N	250	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:06:03 12:58 PM	Yes	Muskox	2	Feeding	SW	15	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:06:03 12:58 PM	Yes	Muskox	3	Feeding	N/A	200	141	East	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:06:03 12:58 PM	Yes	Peregrine falcon	1	Flying	W	15	153	East	Yes	-96.4763	65.2482			No	Not Exceeded	
Road	2023:06:03 12:58 PM	Yes	Muskox	1	Feeding	Not Recorded	160	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:06:03 5:08 PM	Yes	Caribou	16	Walking	NE	1100	125	West	No	-96.1079	65.1391			No	Not Exceeded	
Incidental	2023:06:03 5:08 PM	Yes	Caribou	3	Foraging	N/A	90	122	West	No	-96.0971	65.1148			No	Not Exceeded	
Incidental	2023:06:04 11:20 AM	Yes	Caribou	3	Feeding	N/A	300	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:06:06 9:28 AM	Yes	Muskox	1	Feeding	N/A	10	111	East	No	-96.0240	65.0481			No	Not Exceeded	
Road	2023:06:06 9:28 AM	Yes	Arctic fox	1	Running	N	1	120	East	Yes	-96.0728	65.1002			No	Not Exceeded	
Road	2023:06:06 9:28 AM	Yes	Caribou	1	Walking	W	700	125	West	No	-96.1079	65.1391			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:06:06 9:28 AM	Yes	Caribou	3	Feeding	N/A	10	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:06:06 9:28 AM	Yes	Caribou	16	Feeding	N	100	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:06:06 9:28 AM	Yes	Caribou	4	Feeding	N/A	200	142	West	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:06:06 9:28 AM	Yes	Ptarmigan	1	Nesting	N/A	100	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:06:06 9:28 AM	Yes	Muskox	1	Feeding	N/A	1500	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Incidental	2023:06:07 9:22 AM	Yes	Caribou	2	Standing	Not Recorded	750	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Incidental	2023:06:07 9:22 AM	Yes	Caribou	6	Standing	N/A	1000	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Incidental	2023:06:07 9:22 AM	Yes	Caribou	12	Resting	N/A	500	178	East	No	-96.6219	65.4009			No	Not Exceeded	
Incidental	2023:06:07 9:22 AM	Yes	Caribou	16	Standing	N/A	1000	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Mine & Pit	2023:06:08 4:52 PM	Yes	Muskox	1	Foraging	Not Recorded	50	110	East	No	-96.0445	65.0418			No	Not Exceeded	
Mine & Pit	2023:06:10 7:54 AM	Yes	Caribou	13	Feeding	S	50	113	East	No	-95.9933	65.0588			No	Not Exceeded	
Road	2023:06:10 9:14 AM	Yes	Caribou	6	Resting	N/A	700	179	West	No	-96.6663	65.4016			No	Not Exceeded	
Road	2023:06:10 9:14 AM	Yes	Caribou	12	Standing	E	500	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:06:10 9:14 AM	Yes	Muskox	1	Foraging	N/A	20	164	East	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:06:10 9:14 AM	Yes	Caribou	2	Foraging	N/A	500	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:06:10 9:14 AM	Yes	Caribou	1	Foraging	N/A	100	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:06:10 9:14 AM	Yes	Caribou	1	Standing	E	300	146	West	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:06:10 9:14 AM	Yes	Muskox	1	Foraging	N	20	135	East	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:06:10 9:14 AM	Yes	Caribou	6	Walking	N	1000	134	West	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:06:10 9:14 AM	Yes	Wolf	1	Foraging	N/A	800	129	West	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:06:10 9:14 AM	Yes	Caribou	3	Foraging	E	500	114	West	No	-96.0042	65.0668			No	Not Exceeded	
Road	2023:06:13 5:00 PM	Yes	Muskox	1	Foraging	N/A	20	143	East	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:06:13 5:00 PM	Yes	Caribou	4	Foraging	N/A	200	142	East	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:06:13 5:00 PM	Yes	Muskox	3	Foraging	N/A	50	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:06:13 5:00 PM	Yes	Caribou	4	Foraging	E	30	136	Both	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:06:13 5:00 PM	Yes	Caribou	18	Resting	N/A	75	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:06:13 5:00 PM	Yes	Muskox	1	Foraging	N/A	30	133	East	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:06:13 5:00 PM	Yes	Caribou	17	Walking	E	10	126	West	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:06:13 5:00 PM	Yes	Muskox	2	Foraging	N/A	20	113	East	No	-95.9933	65.0588			No	Not Exceeded	
Road	2023:06:14 9:27 AM	Yes	Caribou	18	Foraging	N/A	200	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:06:14 9:27 AM	Yes	Muskox	1	Foraging	N/A	100	150	East	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:06:14 9:27 AM	Yes	Muskox	1	Foraging	N/A	200	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:06:19 7:33 AM	Yes	Muskox	1	Foraging	N	5	111	East	No	-96.0240	65.0481			No	Not Exceeded	
Road	2023:06:19 7:33 AM	Yes	Muskox	2	Foraging	N/A	20	113	West	No	-95.9933	65.0588			No	Not Exceeded	
Road	2023:06:19 7:33 AM	Yes	Muskox	2	Foraging	N/A	10	115	West	No	-96.0090	65.0711			No	Not Exceeded	
Road	2023:06:19 7:33 AM	Yes	Muskox	1	Resting	N/A	10	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:06:19 7:33 AM	Yes	Caribou	7	Walking	S	700	130	West	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:06:19 7:33 AM	Yes	Caribou	2	Resting	N/A	500	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:06:19 7:33 AM	Yes	Caribou	1	Walking	E	15	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:06:19 7:33 AM	Yes	Muskox	1	Feeding	N/A	200	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:06:21 6:37 AM	Yes	Ptarmigan	1	Walking	Not Recorded	0	138	East	Yes	-96.2602	65.2238			No	Not Exceeded	
Road	2023:06:21 6:37 AM	Yes	Arctic hare	2	Standing	N/A	15	140	East	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:06:21 6:37 AM	Yes	Muskox	1	Feeding	N/A	300	142	East	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:06:21 6:37 AM	Yes	Unkown Bird	1	Flying	NE	800	146	East	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:06:21 6:37 AM	Yes	Caribou	23	Lying Down	N/A	200	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:06:21 6:37 AM	Yes	Passerine sp.	2	Flying	S	10	168	West	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:06:21 6:37 AM	Yes	Unkown Bird	1	Flying	W	20	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:06:21 6:20 PM	Yes	Muskox	3	Feeding	N/A	200	140	East	No	-96.2985	65.2220			No	Not Exceeded	
Incidental	2023:06:21 6:20 PM	Yes	Siksik	1	Standing	N/A	0	129	West	N/A	-96.1459	65.1690			No	Not Exceeded	
Incidental	2023:06:21 6:20 PM	Yes	Muskox	1	Walking	S	200	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Incidental	2023:06:21 6:20 PM	Yes	Muskox	1	Feeding	N/A	25	113	West	No	-95.9933	65.0588			No	Not Exceeded	
Road	2023:06:22 9:18 AM	Yes	Muskox	1	Feeding	N/A	75	114	West	No	-96.0042	65.0668			No	Not Exceeded	
Road	2023:06:22 9:18 AM	Yes	Caribou	5	Standing	N/A	700	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:06:22 9:18 AM	Yes	Muskox	1	Feeding	N/A	10	131	East	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:06:22 9:18 AM	Yes	Caribou	23	Walking	S	100	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:06:22 9:18 AM	Yes	Muskox	1	Resting	N/A	90	169	West	No	-96.5370	65.3400			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:06:27 9:08 AM	Yes	Muskox	2	Foraging	N/A	300	129	East	No	-96.1459	65.1690			No	Not Exceeded	
Road	2023:06:27 9:08 AM	Yes	Caribou	2	Foraging	N/A	300	132	West	No	-96.1646	65.1940			No	Not Exceeded	
Road	2023:06:27 9:08 AM	Yes	Muskox	1	Foraging	N/A	200	132	West	No	-96.1646	65.1940			No	Not Exceeded	
Road	2023:06:27 9:08 AM	Yes	Muskox	2	Resting	N/A	400	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:06:27 9:08 AM	Yes	Muskox	2	Foraging	N/A	150	150	East	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:06:27 9:08 AM	Yes	Wolf	2	Walking	N/A	300	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:06:27 9:08 AM	Yes	Caribou	1	Foraging	N/A	200	158	West	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:06:27 9:08 AM	Yes	Muskox	9	Foraging	N/A	0	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:06:27 9:08 AM	Yes	Wolf	2	Walking	N/A	700	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:07:04 9:06 AM	Yes	Muskox	1	Feeding	N/A	50	111	West	No	-96.0240	65.0481			No	Not Exceeded	
Road	2023:07:06 8:13 AM	Yes	Muskox	2	Foraging	N/A	50	111	West	No	-96.0240	65.0481			No	Not Exceeded	
Road	2023:07:06 8:13 AM	Yes	Muskox	16	Foraging	S	500	140	West	No	-96.2985	65.2220			No	Exceeded	Speed restriction from 139 bridge to 140 (30km/h)
Road	2023:07:11 7:49 AM	Yes	Muskox	7	Walking	E	2000	156	West	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:07:11 7:49 AM	Yes	Arctic fox	1	Feeding	E	0	142	Both	Yes	-96.3371	65.2222			No	Not Exceeded	
Road	2023:07:11 7:49 AM	Yes	Muskox	14	Walking	S	2000	138	West	No	-96.2602	65.2238			No	Exceeded	No because the heard is at 2km distance from the road traveling parallel to it and is seperated by a lake.
Road	2023:07:11 7:49 AM	Yes	Muskox	1	Foraging	N/A	0	120	East	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:07:11 7:49 AM	Yes	Muskox	2	Walking	W	250	113	West	No	-95.9933	65.0588			No	Not Exceeded	
Incidental	2023:07:13 10:26 AM	Yes	Wolf	1	Trotting/running	S	0	136	South	No	-96.2274	65.2131			No	Not Exceeded	
Incidental	2023:07:13 10:26 AM	Yes	Wolf	1	Trotting/running	S	0	132	South	No	-96.1646	65.1940			No	Not Exceeded	
Road	2023:07:18 7:09 AM	Yes	Muskox	1	Resting	N/A	25	116	East	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:07:18 7:09 AM	Yes	Muskox	1	Foraging	N	35	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Road	2023:07:18 7:09 AM	Yes	Siksik	1	Alert	N/A	1	124	West	No	-96.1081	65.1315			No	Not Exceeded	
Incidental	2023:07:21 10:22 AM	Yes	Wolf	2	Trotting/running	N	100	139	North	No	-96.2800	65.2269			No	Not Exceeded	
Incidental	2023:07:23 8:44 PM	Yes	Wolf	1	Walking	E	100	146	East	No	-96.3980	65.2263			No	Not Exceeded	
Incidental	2023:07:25 8:54 AM	Yes	Wolf	1	Trotting/running	S	0	136	East	No	-96.2274	65.2131			No	Not Exceeded	
Incidental	2023:07:25 10:30 AM	Yes	Wolf	1	Running	E	0	133	West	Yes	-96.1754	65.1992			No	Not Exceeded	
Road	2023:07:25 12:30 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:07:27 11:03 AM	Yes	Caribou	1	Feeding	Not Recorded	50	118	East	No	-96.0551	65.0865			No	Not Exceeded	
Incidental	2023:08:05 8:00 AM	Yes		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:08:05 11:30 AM	Yes	Muskox	23	Feeding	E	2000	123	East	No	-96.1044	65.1222			No	Exceeded	> 1.5Km from the road
Road	2023:08:05 1:57 PM	Yes	Muskox	1	Feeding	E	600	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:05 1:57 PM	Yes	Muskox	9	Lying Down	E	300	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:08:05 1:57 PM	Yes	Muskox	9	Feeding	W	400	150	East	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:08:07 7:54 AM	Yes	Muskox	5	Foraging	E	20	143	East	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:08:07 7:54 AM	Yes	Siksik	1	Running	E	0	131	Both	Yes	-96.1607	65.1855			No	Not Exceeded	
Road	2023:08:07 7:54 AM	Yes	Muskox	9	Walking	W	500	128	West	No	-96.1358	65.1614			No	Not Exceeded	
Road	2023:08:07 7:54 AM	Yes	Muskox	1	Lying Down	N/A	20	111	West	No	-96.0240	65.0481			No	Not Exceeded	
Road	2023:08:12 8:21 AM	Yes	Caribou	3	Walking	E	2000	170	East	No	-96.5498	65.3466			No	Not Exceeded	
Incidental	2023:08:13 8:36 AM	Yes	Caribou	57	Trotting/running	N	100	170	East	No	-96.5498	65.3466			No	Exceeded	Road closed
Road	2023:08:13 11:38 AM	Yes	Muskox	6	Foraging	N/A	500	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:13 11:38 AM	Yes	Caribou	7	Resting	N/A	250	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:13 11:38 AM	Yes	Caribou	120	Foraging	W	0	167	Both	Yes	-96.5061	65.3284			No	Exceeded	Road closed
Road	2023:08:13 11:38 AM	Yes	Caribou	10	Foraging	NE	100	170	East	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:08:13 11:38 AM	Yes	Caribou	12	Foraging	NE	50	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:13 11:38 AM	Yes	Caribou	2	Foraging	N/A	100	173	Both	No	-96.6030	65.3597			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:08:13 11:38 AM	Yes	Caribou	1	Foraging	N/A	200	175	East	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:08:13 11:38 AM	Yes	Caribou	2	Foraging	W	50	179	West	No	-96.6554	65.4044			No	Not Exceeded	
Road	2023:08:13 3:36 PM	Yes	Caribou	1	Walking	W	0	144	East	Yes	-96.4006	65.2264			No	Not Exceeded	
Road	2023:08:13 3:36 PM	Yes	Muskox	1	Lying Down	N/A	50	154	East	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:08:13 3:36 PM	Yes	Muskox	10	Lying Down	W	1000	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:13 3:36 PM	Yes	Caribou	1	Feeding	E	50	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Incidental	2023:08:13 7:56 PM	Yes	Caribou	25	Foraging	N/A	500	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Incidental	2023:08:13 7:56 PM	Yes	Caribou	3	Foraging	S	500	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Incidental	2023:08:13 7:56 PM	Yes	Caribou	5	Foraging	N/A	300	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Incidental	2023:08:13 7:56 PM	Yes	Caribou	6	Walking	W	0	166	East	Yes	-96.4882	65.3253			No	Not Exceeded	
Incidental	2023:08:13 7:56 PM	Yes	Caribou	10	Foraging	N/A	1000	166	East	No	-96.4882	65.3253			No	Not Exceeded	
Incidental	2023:08:13 7:56 PM	Yes	Caribou	10	Walking	NW	1500	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Incidental	2023:08:13 7:56 PM	Yes	Caribou	21	Foraging	N/A	2000	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Incidental	2023:08:13 7:56 PM	Yes	Caribou	25	Foraging	S	2000	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Incidental	2023:08:13 7:56 PM	Yes	Caribou	7	Foraging	S	400	170	East	No	-96.5498	65.3466			No	Not Exceeded	
Incidental	2023:08:13 7:56 PM	Yes	Caribou	36	Foraging	SW	20	171	East	No	-96.5686	65.3520			No	Exceeded	Road closed
Road	2023:08:14 8:07 AM	Yes	Muskox	6	Foraging	S	1000	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:08:14 8:07 AM	Yes	Caribou	17	Foraging	N	10	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:08:14 8:07 AM	Yes	Caribou	63	Foraging	S	300	172	East	No	-96.5867	65.3550			No	Exceeded	Road closed
Road	2023:08:14 8:07 AM	Yes	Caribou	6	Trotting/running	S	500	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:14 8:07 AM	Yes	Caribou	18	Walking	S	1000	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:08:14 8:07 AM	Yes	Caribou	6	Alert	N	400	163	East	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:08:14 8:07 AM	Yes	Muskox	3	Resting	N/A	50	142	West	No	-96.3371	65.2222			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Muskox	3	Resting	N/A	30	142	West	No	-96.3371	65.2222			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Caribou	36	Walking	S	400	162	East	No	-96.4168	65.3115			No	Exceeded	Road closed
Incidental	2023:08:14 12:04 PM	Yes	Caribou	1	Walking	S	600	163	East	No	-96.4304	65.3174			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Caribou	9	Alert	S	100	164	West,East	No	-96.4472	65.3226			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Caribou	52	Walking	W	0	169	West,East	No	-96.5370	65.3400			No	Exceeded	Road closed
Incidental	2023:08:14 12:04 PM	Yes	Caribou	12	Walking	N	30	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Caribou	27	Resting	N/A	10	170	East	No	-96.5498	65.3466			No	Exceeded	Road closed
Incidental	2023:08:14 12:04 PM	Yes	Caribou	10	Foraging	W	20	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Caribou	20	Foraging	SW	100	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Caribou	14	Foraging	E	500	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Caribou	12	Alert	SE	150	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Caribou	1	Resting	N/A	200	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Muskox	1	Resting	N/A	300	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:08:14 12:04 PM	Yes	Muskox	4	Foraging	E	1500	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	2	Foraging	N/A	200	176	East	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	90	Foraging	N/A	400	169	East	No	-96.5370	65.3400			No	Exceeded	The road is closed to all traffic.
Incidental	2023:08:15 7:27 AM	Yes	Caribou	41	Foraging	N/A	0	170	East	No	-96.5498	65.3466			No	Exceeded	Road closed
Incidental	2023:08:15 7:27 AM	Yes	Caribou	16	Walking	S	100	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	78	Foraging	N/A	50	171	East	N/A	-96.5686	65.3520			No	Exceeded	The road is closed to all traffic
Incidental	2023:08:15 7:27 AM	Yes	Caribou	12	Foraging	N/A	50	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	39	Walking	S	800	161	East	No	-96.4121	65.3032			No	Exceeded	Road closed
Incidental	2023:08:15 7:27 AM	Yes	Caribou	29	Walking	W	200	170	West	No	-96.5498	65.3466			No	Exceeded	The road is closed to all traffic
Incidental	2023:08:15 7:27 AM	Yes	Caribou	6	Trotting/running	E	450	177	East	No	-96.6085	65.3943			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	3	Walking	S	50	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	1	Foraging	N/A	200	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	31	Walking	S	250	172	East	No	-96.5867	65.3550			No	Exceeded	The road is closed to all traffic.
Incidental	2023:08:15 7:27 AM	Yes	Caribou	20	Foraging	S	50	170	East	No	-96.5498	65.3466			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	22	Foraging	S	100	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	2	Foraging	S	50	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	2	Standing	N/A	500	168	West	No	-96.5240	65.3335			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	6	Walking	SE	300	165	East	No	-96.4678	65.3239			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:08:15 7:27 AM	Yes	Caribou	46	Trotting/running	S	200	164	East	No	-96.4472	65.3226			No	Exceeded	The road is closed to all traffic
Incidental	2023:08:15 7:27 AM	Yes	Caribou	5	Walking	S	100	163	East	No	-96.4304	65.3174			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	8	Walking	S	200	162	East	No	-96.4168	65.3115			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	5	Foraging	N/A	50	176	East	N/A	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	1	Foraging	N/A	25	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	12	Foraging	N/A	250	175	East	No	-96.6024	65.3773			No	Not Exceeded	
Incidental	2023:08:15 7:27 AM	Yes	Caribou	4	Resting	N/A	150	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Red fox	1	Running	E	0	133	West	Yes	-96.1754	65.1992			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Red fox	1	Running	S	0	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Muskox	1	Feeding	N	200	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Muskox	1	Walking	E	0	169	West	Yes	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	6	Feeding	E	40	158	East	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	10	Feeding	S	60	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	22	Walking	S	1000	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	3	Walking	S	60	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Muskox	1	Standing	N/A	200	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	1	Walking	W	0	161	West	Yes	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	10	Walking	E	100	162	East	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	15	Walking	S	200	166	East	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	6	Walking	S	400	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	1	Lying Down	N/A	100	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	2	Walking	E	200	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	12	Walking	E	0	169	West	Yes	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	1	Walking	N	75	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	17	Feeding	SE	500	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	40	Walking	N	20	170	East	No	-96.5498	65.3466			No	Exceeded	Road closed
Road	2023:08:15 8:22 AM	Yes	Caribou	2	Feeding	SW	100	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	2	Feeding	W	100	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	17	Feeding	SE	75	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	7	Feeding	S	40	176	East	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	1	Feeding	S	5	179	East	No	-96.0735	65.0212			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	4	Alert	S	40	178	East	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	10	Feeding	S	50	176	East	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	17	Feeding	S	75	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Muskox	1	Standing	S	1000	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:15 8:22 AM	Yes	Caribou	10	Lying Down	N/A	100	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Arctic hare	1	Running	S	0	121	East	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Muskox	12	Feeding	N/A	20	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	25	Feeding	N/A	40	143	East	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	23	Alert	S	100	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	15	Walking	N	200	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	20	Walking	N	700	151	East	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	54	Walking	N	500	153	East	No	-96.4763	65.2482			No	Exceeded	Road is close. Convoy for essential needs and daily ride.
Road	2023:08:16 5:52 AM	Yes	Caribou	15	Foraging	N/A	100	154	East	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Muskox	12	Feeding	N/A	20	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Muskox	1	Standing	N/A	2000	166	East	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	1	Walking	S	30	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	3	Foraging	S	75	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	12	Walking	S	1000	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Muskox	8	Feeding	N/A	50	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	6	Feeding	S	1000	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	12	Standing	S	1500	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:08:16 5:52 AM	Yes	Caribou	40	Feeding	N	100	160	East	No	-96.4136	65.2943			No	Exceeded	Road is close. Convoy for daily ride and essential needs

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:08:16 5:52 AM	Yes	Caribou	30	Walking	S	100	154	East	No	-96.4630	65.2546			No	Exceeded	Road is close. Convoy for daily ride and essential needs
Road	2023:08:16 5:52 AM	Yes	Caribou	35	Walking	S	100	148	East	No	-96.4274	65.2205			No	Exceeded	Road is close. Convoy for daily ride and essential needs
Road	2023:08:16 5:52 AM	Yes	Caribou	70	Walking	SW	500	147	East	No	-96.4184	65.2279			No	Exceeded	Road is close. Convoy for daily ride and essential needs
Road	2023:08:16 5:52 AM	Yes	Caribou	50	Foraging	S	300	142	East	No	-96.3371	65.2222			No	Exceeded	Road is close. Convoy for daily ride and essential needs
Road	2023:08:17 7:14 AM	Yes	Caribou	16	Feeding	E	200	141	East	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	7	Feeding	N/A	300	143	East	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	2	Feeding	N/A	400	145	East	N/A	-96.3769	65.2242			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	9	Feeding	E	50	151	East	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	4	Feeding	E	100	156	East	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	4	Walking	E	50	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	8	Walking	W	50	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	16	Feeding	N/A	300	161	Both	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	2	Feeding	N/A	200	162	Both	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	6	Feeding	N/A	150	166	East	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	6	Resting	N/A	200	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	1	Walking	W	0	172	Both	Yes	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	2	Walking	N/A	0	174	Both	Yes	-96.6013	65.3683			No	Not Exceeded	
Road	2023:08:17 7:14 AM	Yes	Caribou	5	Feeding	N/A	50	177	Both	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:08:18 6:56 AM	Yes	Caribou	2	Foraging	N	100	111	West	No	-96.0240	65.0481			No	Not Exceeded	
Road	2023:08:18 6:56 AM	Yes	Caribou	200	Walking	NE	90	139	Both	Yes	-96.2800	65.2269			No	Exceeded	Road closed
Road	2023:08:18 6:56 AM	Yes	Caribou	76	Resting	N/A	180	148	West	No	-96.4274	65.2205			No	Exceeded	Road closed
Road	2023:08:18 6:56 AM	Yes	Caribou	15	Foraging	N/A	130	158	West	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:08:18 7:37 AM	Yes	Caribou	4	Foraging	N/A	20	179	East	No	-96.6505	65.4051			No	Not Exceeded	
Road	2023:08:18 7:37 AM	Yes	Caribou	3	Foraging	N/A	50	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:08:18 7:37 AM	Yes	Caribou	13	Foraging	N/A	50	172	Both	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:18 7:37 AM	Yes	Caribou	5	Foraging	N/A	50	168	West	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:08:18 7:37 AM	Yes	Caribou	12	Resting	N/A	100	159	West	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	2	Foraging	N/A	300	137	East	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	2	Foraging	N/A	290	139	West	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	10	Foraging	N	140	140	West	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	10	Foraging	N/A	30	141	West	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	29	Foraging	N/A	30	151	West	No	-96.4662	65.2345			No	Exceeded	Road closed
Road	2023:08:19 7:09 AM	Yes	Caribou	3	Foraging	S	350	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	3	Foraging	NW	1500	153	West	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	5	Foraging	NW	1	158	Both	Yes	-96.4047	65.2778			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	17	Foraging	N/A	30	165	Both	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	4	Foraging	NW	90	166	East	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	3	Foraging	N/A	80	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	2	Foraging	S	50	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	20	Foraging	N/A	30	171	Both	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	3	Foraging	N/A	500	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:08:19 7:09 AM	Yes	Caribou	6	Foraging	N/A	900	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Incidental	2023:08:19 12:54 PM	Yes	Caribou	2	Foraging	N/A	120	179	West	No	-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:08:19 12:54 PM	Yes	Caribou	2	Foraging	N/A	200	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Incidental	2023:08:19 12:54 PM	Yes	Caribou	2	Foraging	N/A	130	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Incidental	2023:08:19 12:54 PM	Yes	Caribou	6	Foraging	N/A	100	171	West,East	No	-96.5686	65.3520			No	Not Exceeded	
Incidental	2023:08:19 12:54 PM	Yes	Caribou	2	Foraging	N/A	140	168	West	No	-96.5240	65.3335			No	Not Exceeded	
Incidental	2023:08:19 12:54 PM	Yes	Caribou	4	Foraging	N/A	100	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Incidental	2023:08:19 12:54 PM	Yes	Caribou	9	Foraging	S	90	155	West	No	-96.4342	65.2676			No	Not Exceeded	
Incidental	2023:08:19 12:54 PM	Yes	Caribou	10	Foraging	N/A	100	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Incidental	2023:08:19 12:54 PM	Yes	Caribou	19	Foraging	E	90	149	East	No	-96.4426	65.2233			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:08:19 12:54 PM	Yes	Caribou	7	Foraging	E	100	144	West	No	-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:08:19 12:54 PM	Yes	Caribou	2	Foraging	E	200	140	West	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:08:20 8:15 AM	Yes	Caribou	6	Walking	N	100	141	East	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:08:20 8:15 AM	Yes	Caribou	5	Feeding	N/A	1000	152	East	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:08:20 8:15 AM	Yes	Caribou	11	Feeding	S	200	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:08:20 8:15 AM	Yes	Caribou	5	Feeding	N	400	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:20 8:15 AM	Yes	Caribou	2	Resting	N/A	30	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:20 8:15 AM	Yes	Caribou	9	Feeding	N/A	100	170	Both	Yes	-96.5498	65.3466			No	Not Exceeded	
Road	2023:08:20 8:15 AM	Yes	Caribou	2	Feeding	N/A	300	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:08:20 8:15 AM	Yes	Muskox	7	Feeding	N/A	100	178	East	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:08:20 8:15 AM	Yes	Caribou	3	Feeding	N/A	600	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Incidental	2023:08:20 11:41 AM	Yes	Muskox	14	Feeding	N/A	50	151	West	No	-96.4662	65.2345			No	Exceeded	Called dispatch for speed restriction.
Road	2023:08:21 7:33 AM	Yes	Caribou	3	Walking	SE	1	111	West	Yes	-96.0240	65.0481			No	Not Exceeded	
Road	2023:08:21 7:33 AM	Yes	Caribou	2	Foraging	N/A	100	139	West	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:08:21 7:33 AM	Yes	Muskox	15	Foraging	N/A	2400	140	West	No	-96.2985	65.2220			No	Exceeded	>1.5Km from the road
Road	2023:08:21 7:33 AM	Yes	Caribou	3	Foraging	NE	1300	142	East	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:08:21 7:33 AM	Yes	Caribou	2	Foraging	N/A	200	147	Both	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:08:21 7:33 AM	Yes	Caribou	1	Foraging	N/A	40	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:08:21 7:33 AM	Yes	Muskox	10	Foraging	N/A	400	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:21 7:33 AM	Yes	Caribou	15	Foraging	N/A	400	151	Both	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:08:21 7:33 AM	Yes	Caribou	5	Walking	SE	300	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:08:21 7:33 AM	Yes	Caribou	10	Lying Down	N/A	300	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:08:21 7:33 AM	Yes	Caribou	2	Foraging	NW	350	162	Both	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:08:21 7:33 AM	Yes	Caribou	29	Foraging	N/A	400	165	Both	No	-96.4678	65.3239			No	Exceeded	Road closed
Road	2023:08:21 7:33 AM	Yes	Caribou	8	Foraging	W	400	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:21 10:39 AM	Yes	Muskox	7	Foraging	N/A	400	179	East	No	-96.6266	65.4030			No	Not Exceeded	
Road	2023:08:21 10:39 AM	Yes	Caribou	2	Foraging	E	500	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:21 10:39 AM	Yes	Caribou	1	Foraging	N/A	900	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:08:21 10:39 AM	Yes	Caribou	1	Foraging	W	1000	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:21 10:39 AM	Yes	Caribou	17	Foraging	NW	600	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:08:22 7:36 AM	Yes	Caribou	3	Standing	N/A	100	141	West	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:08:22 7:36 AM	Yes	Caribou	4	Feeding	N/A	1000	142	East	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:08:22 7:36 AM	Yes	Caribou	6	Feeding	N/A	20	143	Both	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:08:22 7:36 AM	Yes	Muskox	13	Lying Down	N/A	1200	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:08:22 7:36 AM	Yes	Caribou	6	Feeding	N/A	20	150	West	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:08:22 7:36 AM	Yes	Caribou	5	Lying Down	N/A	1000	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:08:22 7:36 AM	Yes	Caribou	5	Foraging	N/A	50	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:22 7:36 AM	Yes	Caribou	3	Feeding	N/A	1000	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:22 7:36 AM	Yes	Caribou	10	Walking	N	400	170	Both	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:08:22 7:36 AM	Yes	Caribou	1	Feeding	N/A	500	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Incidental	2023:08:22 10:21 AM	Yes	Caribou	6	Feeding	N/A	250	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Incidental	2023:08:22 10:21 AM	Yes	Caribou	2	Feeding	N/A	20	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Incidental	2023:08:22 10:21 AM	Yes	Caribou	4	Feeding	N/A	100	171	West,East	No	-96.5686	65.3520			No	Not Exceeded	
Incidental	2023:08:22 10:21 AM	Yes	Caribou	2	Feeding	N/A	150	162	West,East	No	-96.4168	65.3115			No	Not Exceeded	
Incidental	2023:08:22 10:21 AM	Yes	Caribou	20	Feeding	E	100	160	West,East	Yes	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:08:22 10:21 AM	Yes	Caribou	20	Feeding	W	10	158	East	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:08:22 3:06 PM	Yes	Caribou	2	Resting	N/A	100	179	West	No	-96.6295	65.4035			No	Not Exceeded	
Road	2023:08:22 3:06 PM	Yes	Caribou	3	Foraging	N/A	20	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:08:22 3:06 PM	Yes	Caribou	3	Walking	E	200	175	East	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:08:22 3:06 PM	Yes	Caribou	2	Foraging	W	50	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:22 3:06 PM	Yes	Caribou	1	Foraging	N/A	50	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:22 3:06 PM	Yes	Caribou	2	Foraging	N/A	200	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	2	Feeding	N/A	600	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	6	Feeding	N/A	250	141	East	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	1	Feeding	N/A	300	146	West	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	7	Foraging	N	300	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	1	Foraging	N	300	151	East	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	8	Walking	N	300	159	West	No	-96.4089	65.2860			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:08:23 8:45 AM	Yes	Caribou	17	Feeding	N/A	500	160	Both	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	2	Feeding	N	50	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	7	Feeding	N/A	350	164	Both	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	8	Feeding	N/A	100	166	Both	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	2	Feeding	N/A	600	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	7	Feeding	N/A	500	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Muskox	13	Feeding	N/A	3000	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	4	Feeding	N/A	100	171	Both	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	5	Feeding	N/A	20	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	6	Feeding	N/A	100	177	West	N/A	-96.6085	65.3943			No	Not Exceeded	
Road	2023:08:23 8:45 AM	Yes	Caribou	2	Feeding	N/A	120	178	West	N/A	-96.6219	65.4009			No	Not Exceeded	
Road	2023:08:24 7:34 AM	Yes	Muskox	1	Feeding	N/A	600	123	East	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:08:24 7:34 AM	Yes	Caribou	6	Feeding	N/A	400	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:08:24 7:34 AM	Yes	Caribou	3	Feeding	N/A	300	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:08:24 7:34 AM	Yes	Caribou	3	Feeding	N/A	200	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:08:24 7:34 AM	Yes	Caribou	6	Feeding	N/A	350	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:24 7:34 AM	Yes	Caribou	4	Feeding	N/A	900	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:24 7:34 AM	Yes	Caribou	7	Feeding	N/A	300	170	Both	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:08:24 7:34 AM	Yes	Caribou	1	Feeding	N/A	50	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:24 7:34 AM	Yes	Caribou	1	Feeding	N/A	100	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Incidental	2023:08:24 10:18 AM	Yes	Caribou	8	Feeding	N/A	300	176	West,East	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:08:24 10:18 AM	Yes	Caribou	15	Feeding	N/A	200	15	West	No	-96.0525	64.4398			No	Not Exceeded	
Incidental	2023:08:24 10:18 AM	Yes	Caribou	8	Feeding	N/A	400	150	West	No	-96.4501	65.2302			No	Not Exceeded	
Incidental	2023:08:24 10:18 AM	Yes	Caribou	5	Feeding	N/A	500	143	West	No	-96.3580	65.2237			No	Not Exceeded	
Incidental	2023:08:24 10:18 AM	Yes	Caribou	8	Lying Down	N/A	290	140	West	No	-96.2985	65.2220			No	Not Exceeded	
Incidental	2023:08:24 10:18 AM	Yes	Caribou	1	Feeding	N/A	2000	130	East	No	-96.1528	65.1782			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Snow goose	39	Feeding	N/A	100	140	West	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Caribou	1	Feeding	N/A	50	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Caribou	5	Feeding	N/A	500	152	East	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Caribou	5	Feeding	N/A	1000	154	East	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Caribou	3	Feeding	S	100	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Caribou	1	Walking	NW	0	167	West	Yes	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Snow goose	35	Lying Down	N/A	300	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Caribou	12	Feeding	W	50	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Muskox	1	Feeding	N/A	600	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Caribou	7	Walking	N	250	175	East	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Caribou	4	Feeding	N/A	50	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:08:25 6:53 AM	Yes	Caribou	5	Walking	S	300	176	East	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:08:25 9:35 AM	Yes	Caribou	2	Feeding	S	100	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:08:25 9:35 AM	Yes	Caribou	2	Feeding	N	100	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Incidental	2023:08:25 9:35 AM	Yes	Caribou	14	Feeding	N/A	50	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Incidental	2023:08:25 9:35 AM	Yes	Caribou	2	Feeding	N	200	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Incidental	2023:08:25 9:35 AM	Yes	Caribou	1	Feeding	N/A	100	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Incidental	2023:08:25 9:35 AM	Yes	Caribou	11	Feeding	W	11	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Incidental	2023:08:25 9:35 AM	Yes	Caribou	6	Feeding	N/A	50	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Incidental	2023:08:25 9:35 AM	Yes	Caribou	2	Walking	S	500	156	West	No	-96.4521	65.2622			No	Not Exceeded	
Incidental	2023:08:25 9:35 AM	Yes	Caribou	8	Feeding	N/A	200	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Incidental	2023:08:25 9:35 AM	Yes	Caribou	1	Feeding	N/A	20	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	28	Feeding	N/A	50	140	East	No	-96.2985	65.2220			No	Exceeded	Speed resitriction: km 139-142; 30km/h
Road	2023:08:26 9:57 AM	Yes	Snow goose	30	Lying Down	N/A	300	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	7	Feeding	N/A	80	142	East	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	10	Walking	W	500	146	East	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	13	Feeding	N/A	200	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	5	Feeding	N/A	90	150	West	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	4	Feeding	N/A	20	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	5	Feeding	N/A	100	153	West	No	-96.4763	65.2482			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:08:26 9:57 AM	Yes	Muskox	21	Feeding	N/A	1500	154	West	No	-96.4630	65.2546			No	Exceeded	They are over 1000m from the road.
Road	2023:08:26 9:57 AM	Yes	Caribou	4	Feeding	N/A	70	158	Both	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	3	Feeding	N/A	900	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	4	Feeding	N/A	600	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	7	Feeding	N/A	50	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	1	Feeding	N/A	100	166	East	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	2	Feeding	N/A	5	167	Both	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Snow goose	30	Lying Down	N/A	500	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	14	Feeding	N/A	0	169	Both	Yes	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:26 9:57 AM	Yes	Caribou	15	Foraging	N/A	100	172	Both	No	-96.5867	65.3550			No	Not Exceeded	
Incidental	2023:08:26 12:39 PM	Yes	Caribou	7	Feeding	N	20	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Incidental	2023:08:26 12:39 PM	Yes	Caribou	1	Feeding	N/A	20	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Incidental	2023:08:26 12:39 PM	Yes	Caribou	9	Feeding	N/A	5	162	East	No	-96.4168	65.3115			No	Not Exceeded	
Incidental	2023:08:26 12:39 PM	Yes	Muskox	9	Feeding	N/A	1000	162	East	No	-96.4168	65.3115			No	Not Exceeded	
Incidental	2023:08:26 12:39 PM	Yes	Caribou	3	Walking	W	2000	158	East	No	-96.4047	65.2778			No	Not Exceeded	
Incidental	2023:08:26 12:39 PM	Yes	Caribou	5	Feeding	N/A	100	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:08:26 12:39 PM	Yes	Caribou	1	Feeding	N/A	120	157	East	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Muskox	1	Feeding	N/A	800	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Caribou	8	Feeding	N/A	250	136	East	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Snow goose	30	Lying Down	N/A	800	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Snow goose	100	Lying Down	N/A	400	143	East	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Caribou	7	Foraging	N/A	300	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Caribou	2	Feeding	N/A	400	150	Both	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Muskox	12	Lying Down	N/A	500	157	West	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Muskox	9	Feeding	N/A	300	158	East	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Caribou	5	Feeding	N/A	350	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Caribou	4	Feeding	N/A	100	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Caribou	4	Feeding	N/A	150	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Caribou	15	Foraging	N/A	120	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Caribou	3	Foraging	N/A	150	175	East	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:08:27 8:28 AM	Yes	Caribou	3	Feeding	N/A	500	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Incidental	2023:08:27 6:21 PM	Yes	Caribou	3	Feeding	N/A	250	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Incidental	2023:08:27 6:21 PM	Yes	Caribou	8	Feeding	N	15	169	East	Yes	-96.5370	65.3400			No	Not Exceeded	
Incidental	2023:08:27 6:21 PM	Yes	Caribou	3	Feeding	N/A	100	168	West	No	-96.5240	65.3335			No	Not Exceeded	
Incidental	2023:08:27 6:21 PM	Yes	Caribou	1	Feeding	N/A	100	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Incidental	2023:08:27 6:21 PM	Yes	Caribou	2	Feeding	N/A	150	150	West,East	No	-96.4501	65.2302			No	Not Exceeded	
Incidental	2023:08:27 6:21 PM	Yes	Caribou	15	Feeding	N/A	100	136	East	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Snow goose	30	Lying Down	N/A	700	131	East	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	8	Feeding	N/A	500	135	East	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	11	Lying Down	N/A	1000	136	East	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	1	Feeding	N/A	1000	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	2	Alert	S	50	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	4	Feeding	W	300	144	Both	No	-96.3714	65.2229			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	2	Foraging	N/A	15	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	8	Feeding	N/A	150	150	East	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Muskox	8	Feeding	N/A	500	157	East	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Muskox	16	Feeding	N/A	500	158	West	No	-96.4047	65.2778			No	Exceeded	Speed restriction: km 158-157; 30 km/h
Road	2023:08:28 8:45 AM	Yes	Caribou	16	Feeding	W	75	160	Both	N/A	-96.4136	65.2943			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	3	Lying Down	N/A	500	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	2	Feeding	N/A	700	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	2	Foraging	N/A	10	167	East	No	-96.5061	65.3284			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:08:28 8:45 AM	Yes	Caribou	9	Feeding	N/A	300	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	3	Feeding	N/A	400	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	4	Walking	W	700	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	1	Feeding	N/A	25	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	4	Lying Down	N/A	25	176	East	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:08:28 8:45 AM	Yes	Caribou	9	Feeding	N/A	400	178	Both	No	-96.6219	65.4009			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	1	Feeding	N/A	100	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	1	Feeding	N/A	100	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	10	Feeding	N/A	25	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	5	Feeding	N/A	25	162	West,East	No	-96.4168	65.3115			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	11	Walking	W	0	160	West,East	Yes	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	2	Walking	N/A	1000	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Muskox	11	Lying Down	N/A	500	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	3	Walking	E	25	150	East	No	-96.4501	65.2302			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	3	Feeding	N/A	10	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	2	Walking	S	100	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	9	Feeding	N/A	50	146	East	No	-96.3980	65.2263			No	Not Exceeded	
Incidental	2023:08:28 12:25 PM	Yes	Caribou	2	Feeding	N/A	50	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Caribou	3	Feeding	N/A	10	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Caribou	1	Feeding	N/A	600	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Caribou	3	Feeding	N/A	200	173	East	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Caribou	8	Feeding	N/A	100	169	Both	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Caribou	6	Walking	W	200	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Caribou	1	Feeding	N/A	100	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Caribou	5	Feeding	N/A	300	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Caribou	6	Feeding	N/A	50	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Caribou	8	Feeding	N/A	200	159	Both	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Muskox	16	Resting	N/A	300	158	West	No	-96.4047	65.2778			No	Exceeded	Speed restriction
Road	2023:08:29 7:14 AM	Yes	Caribou	3	Feeding	N/A	500	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:08:29 7:14 AM	Yes	Caribou	6	Feeding	N/A	100	133	East	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	3	Feeding	N/A	150	178	Both	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	2	Feeding	N/A	100	177	East	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	8	Lying Down	N/A	200	175	Both	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	3	Foraging	N/A	300	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	8	Feeding	N/A	10	174	Both	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	1	Walking	E	150	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Muskox	1	Feeding	N/A	200	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	4	Feeding	N/A	15	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Muskox	18	Lying Down	N/A	100	159	West	No	-96.4089	65.2860			No	Exceeded	Speed restriction: km 158-159; 30km/h
Road	2023:08:30 3:45 PM	Yes	Caribou	10	Feeding	N/A	100	152	Both	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	2	Feeding	N/A	400	150	East	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	2	Feeding	N/A	75	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	1	Feeding	N/A	300	139	West	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Caribou	1	Feeding	N/A	250	136	East	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:08:30 3:45 PM	Yes	Snow goose	25	Lying Down	N/A	100	110	West	No	-96.0407	65.0414			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Snow goose	50	Standing	N/A	250	113	East	No	-95.9933	65.0588			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Muskox	13	Foraging	N/A	1000	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Muskox	1	Trotting/running	N	2000	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	8	Foraging	N/A	200	138	East	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Standing	N/A	300	142	East	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Foraging	N/A	300	143	East	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Foraging	N/A	200	144	East	No	-96.4167	65.2277			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Foraging	N/A	5	145	West	No	-96.3769	65.2242			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	8	Foraging	N/A	5	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Foraging	N/A	30	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	2	Foraging	N/A	20	153	West	No	-96.4763	65.2482			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Foraging	N/A	1000	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Muskox	11	Resting	N/A	5	156	West	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Muskox	2	Resting	N/A	250	156	West	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	3	Foraging	N/A	100	159	West	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	5	Foraging	N/A	100	161	Both	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	3	Foraging	N/A	150	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Foraging	N/A	100	166	East	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Resting	N/A	200	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	2	Foraging	N/A	400	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	3	Foraging	N/A	500	170	East	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Foraging	N/A	200	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	5	Foraging	N/A	100	174	Both	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	3	Foraging	N/A	50	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	2	Foraging	N	50	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	4	Foraging	N/A	50	176	East	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Foraging	N/A	1000	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	6	Foraging	N/A	10	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	1	Foraging	N/A	100	178	East	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	2	Foraging	N/A	75	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:08:31 1:14 PM	Yes	Caribou	3	Foraging	N/A	15	179	West	No	-96.6600	65.4036			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	1	Foraging	N/A	300	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	8	Foraging	N/A	5	173	Both	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	5	Foraging	N/A	350	171	Both	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	1	Standing	N/A	250	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	2	Foraging	N/A	400	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	2	Foraging	N/A	300	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	3	Foraging	N/A	100	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	1	Foraging	N/A	300	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	4	Trotting/running	W	0	162	Both	Yes	-96.4168	65.3115			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	2	Foraging	N/A	400	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	7	Foraging	N/A	25	160	Both	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	3	Foraging	N/A	100	159	West	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	2	Foraging	N/A	100	157	West	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Muskox	19	Foraging	N/A	0	154	Both	Yes	-96.4630	65.2546			No	Exceeded	Speed restriction was put in place (speed of 30km/h, no beacon lights) at 11:30
Road	2023:09:01 10:08 AM	Yes	Caribou	3	Foraging	N/A	50	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	2	Foraging	N/A	100	150	East	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	1	Foraging	N/A	350	149	West	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:09:01 10:08 AM	Yes	Caribou	5	Foraging	N/A	250	148	Both	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Caribou	4	Foraging	N/A	5	175	East	No	-96.6024	65.3773			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Caribou	1	Foraging	N/A	5	173	East	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Caribou	2	Foraging	E	50	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Caribou	2	Foraging	N/A	200	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Caribou	6	Foraging	N/A	150	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Caribou	2	Foraging	N/A	30	159	West	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Muskox	1	Foraging	N/A	50	156	East	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Muskox	2	Resting	N/A	300	154	East	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Caribou	4	Foraging	N/A	50	144	East	No	-96.0022	65.0511			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Caribou	4	Standing	W	0	143	West	Yes	-96.3580	65.2237			No	Not Exceeded	
Road	2023:09:02 10:07 AM	Yes	Caribou	2	Standing	N/A	200	128	East	No	-96.1358	65.1614			No	Not Exceeded	
Incidental	2023:09:02 3:44 PM	Yes	Caribou	5	Trotting/running	N	50	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Incidental	2023:09:02 3:44 PM	Yes	Caribou	3	Foraging	N/A	50	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Incidental	2023:09:02 3:44 PM	Yes	Muskox	1	Foraging	N/A	200	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Incidental	2023:09:02 3:44 PM	Yes	Caribou	2	Foraging	N/A	100	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:09:02 3:44 PM	Yes	Caribou	1	Foraging	N/A	100	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Incidental	2023:09:02 3:44 PM	Yes	Caribou	3	Walking	E	25	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Incidental	2023:09:02 3:44 PM	Yes	Caribou	5	Trotting/running	W	5	169	West	No	-96.5370	65.3400			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:09:02 3:44 PM	Yes	Caribou	4	Foraging	N/A	25	173	East	No	-96.6030	65.3597			No	Not Exceeded	
Incidental	2023:09:02 3:44 PM	Yes	Caribou	3	Foraging	N/A	25	174	East	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:09:03 9:32 AM	Yes	Caribou	3	Foraging	N/A	10	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:09:03 9:32 AM	Yes	Caribou	2	Foraging	N/A	100	162	East	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:09:03 9:32 AM	Yes	Caribou	3	Foraging	N/A	100	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:09:03 9:32 AM	Yes	Caribou	3	Foraging	E	5	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:09:03 9:32 AM	Yes	Caribou	8	Foraging	N/A	200	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:09:03 9:32 AM	Yes	Arctic fox	1	Walking	E	0	135	East	Yes	-96.2080	65.2089			No	Not Exceeded	
Road	2023:09:03 9:32 AM	Yes	Caribou	12	Foraging	N/A	150	134	East	No	-96.1929	65.2048			No	Not Exceeded	
Incidental	2023:09:03 11:29 AM	Yes	Caribou	2	Walking	S	0	111	East	No	-96.0240	65.0481			No	Not Exceeded	
Incidental	2023:09:03 11:29 AM	Yes	Caribou	6	Foraging	N/A	100	140	West	No	-96.2985	65.2220			No	Not Exceeded	
Incidental	2023:09:03 11:29 AM	Yes	Muskox	3	Foraging	N/A	50	158	East	No	-96.4047	65.2778			No	Not Exceeded	
Incidental	2023:09:03 11:29 AM	Yes	Muskox	2	Foraging	N/A	25	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:09:03 11:29 AM	Yes	Caribou	5	Foraging	N/A	5	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:09:03 11:29 AM	Yes	Muskox	1	Foraging	N/A	200	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Incidental	2023:09:03 11:29 AM	Yes	Caribou	24	Walking	N	0	171	West,East	Yes	-96.5686	65.3520			No	Not Exceeded	
Incidental	2023:09:03 11:29 AM	Yes	Caribou	1	Foraging	N/A	100	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Incidental	2023:09:03 11:29 AM	Yes	Caribou	4	Foraging	N/A	100	173	East	No	-96.6030	65.3597			No	Not Exceeded	
Incidental	2023:09:03 11:29 AM	Yes	Caribou	1	Foraging	N/A	100	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Snow goose	25	Resting	N/A	150	121	East	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Wolf	1	Walking	N	100	140	West	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Caribou	9	Foraging	SE	200	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Caribou	2	Foraging	S	100	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Muskox	2	Foraging	SE	150	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Muskox	4	Foraging	N/A	300	154	East	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Muskox	12	Foraging	S	5	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Muskox	1	Resting	N/A	50	163	East	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Caribou	4	Walking	SW	50	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Caribou	5	Feeding	SW	50	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Caribou	2	Feeding	S	100	176	Both	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Caribou	2	Feeding	S	50	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:09:04 10:18 AM	Yes	Caribou	1	Feeding	S	75	179	West	No	-96.6644	65.4026			No	Not Exceeded	
Incidental	2023:09:04 2:16 PM	Yes	Muskox	10	Feeding	NW	150	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:09:05 7:42 AM	Yes	Caribou	2	Foraging	N/A	100	175	East	N/A	-96.6024	65.3773			No	Not Exceeded	
Road	2023:09:05 7:42 AM	Yes	Caribou	3	Walking	W	10	172	West	Yes	-96.5867	65.3550			No	Not Exceeded	
Road	2023:09:05 7:42 AM	Yes	Caribou	3	Foraging	N/A	100	167	East	N/A	-96.5061	65.3284			No	Not Exceeded	
Road	2023:09:05 7:42 AM	Yes	Caribou	5	Foraging	N/A	200	159	East	N/A	-96.4089	65.2860			No	Not Exceeded	
Road	2023:09:05 7:42 AM	Yes	Muskox	16	Resting	N/A	600	151	West	N/A	-96.4662	65.2345			No	Exceeded	N/A. Observed over 500m from the road.
Road	2023:09:05 7:42 AM	Yes	Caribou	3	Foraging	N/A	150	147	East	N/A	-96.4184	65.2279			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	5	Foraging	N/A	10	173	East	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	2	Foraging	E	30	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	2	Foraging	E	30	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	2	Foraging	N/A	100	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	2	Foraging	E	100	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	2	Foraging	E	80	163	West	No	-96.4304	65.3174			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	2	Foraging	N/A	50	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	6	Foraging	N/A	50	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	1	Foraging	E	50	157	East	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	1	Foraging	E	80	156	East	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	1	Foraging	E	100	152	East	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	1	Foraging	E	100	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Muskox	14	Foraging	N/A	10	148	West	No	-96.4274	65.2205			No	Exceeded	Speed Restriction on 147 to 149 road marking
Road	2023:09:06 1:16 PM	Yes	Caribou	2	Walking	S	100	144	East	No	-96.3571	65.2236			No	Not Exceeded	
Road	2023:09:06 1:16 PM	Yes	Caribou	2	Foraging	E	120	135	East	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Caribou	1	Alert	N/A	500	173	West	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Muskox	1	Foraging	W	300	174	West	No	-96.6013	65.3683			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Caribou	7	Foraging	E	10	160	Both	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Caribou	7	Foraging	N/A	500	159	East	No	-96.4089	65.2860			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:09:07 1:46 PM	Yes	Muskox	1	Foraging	W	150	157	East	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Wolf	3	Walking	E	0	156	Both	Yes	-96.4521	65.2622			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Caribou	2	Alert	W	500	156	West	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Caribou	3	Foraging	E	300	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Siksik	1	Running	E	0	154	Both	Yes	-96.4630	65.2546			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Muskox	1	Foraging	N/A	200	154	East	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Caribou	4	Foraging	W	600	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:09:07 1:46 PM	Yes	Muskox	21	Foraging	E	2	151	Both	No	-96.4662	65.2345			No	Exceeded	Speed restriction 30 km/h
Road	2023:09:07 1:46 PM	Yes	Caribou	2	Foraging	E	200	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:09:08 9:41 AM	Yes	Snow goose	6	Flying	W	20	112	Both	No	-96.0022	65.0511			No	Not Exceeded	
Road	2023:09:08 9:41 AM	Yes	Muskox	1	Standing	N/A	300	121	West	No	-96.0864	65.1071			No	Not Exceeded	
Road	2023:09:08 9:41 AM	Yes	Caribou	25	Foraging	W	25	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:09:08 9:41 AM	Yes	Caribou	7	Alert	W	100	149	Both	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:09:08 9:41 AM	Yes	Caribou	1	Resting	E	300	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:09:08 9:41 AM	Yes	Caribou	1	Walking	N	0	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:09:08 9:41 AM	Yes	Caribou	6	Foraging	N/A	500	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:09:08 9:41 AM	Yes	Caribou	3	Foraging	N/A	200	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:09:08 9:41 AM	Yes	Caribou	1	Walking	W	400	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:09:08 9:41 AM	Yes	Caribou	4	Foraging	N/A	200	174	West	No	-96.6013	65.3683			No	Not Exceeded	
Incidental	2023:09:08 1:45 PM	Yes	Muskox	8	Foraging	W	750	113	West	No	-95.9933	65.0588			No	Not Exceeded	
Incidental	2023:09:08 2:04 PM	Yes	Caribou	6	Foraging	N/A	500	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Incidental	2023:09:08 2:04 PM	Yes	Caribou	1	Foraging	N/A	500	173	East	No	-96.6030	65.3597			No	Not Exceeded	
Incidental	2023:09:08 2:04 PM	Yes	Caribou	2	Foraging	N/A	500	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Incidental	2023:09:08 2:04 PM	Yes	Caribou	1	Foraging	N/A	200	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Incidental	2023:09:08 2:04 PM	Yes	Caribou	4	Foraging	N/A	500	166	East	No	-96.4882	65.3253			No	Not Exceeded	
Incidental	2023:09:08 2:04 PM	Yes	Caribou	1	Foraging	N/A	800	162	East	No	-96.4168	65.3115			No	Not Exceeded	
Incidental	2023:09:08 2:04 PM	Yes	Muskox	1	Foraging	N/A	100	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:09:08 2:04 PM	Yes	Caribou	10	Foraging	N/A	250	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:09:08 2:04 PM	Yes	Caribou	4	Foraging	N/A	20	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Incidental	2023:09:08 2:04 PM	Yes	Muskox	1	Foraging	N/A	50	152	East	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:09:09 7:42 AM	Yes	Caribou	2	Foraging	SE	400	136	East	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:09:09 7:42 AM	Yes	Caribou	8	Feeding	SE	300	146	East	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:09:09 7:42 AM	Yes	Caribou	2	Feeding	NW	100	147	West	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:09:09 7:42 AM	Yes	Caribou	6	Feeding	SE	200	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:09:09 7:42 AM	Yes	Muskox	1	Resting	N/A	45	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:09:09 7:42 AM	Yes	Caribou	12	Walking	S	350	155	East	No	-96.4342	65.2676			No	Not Exceeded	
Road	2023:09:09 7:42 AM	Yes	Caribou	8	Resting	SE	400	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:09:09 7:42 AM	Yes	Caribou	1	Feeding	N/A	10	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:09:09 7:42 AM	Yes	Caribou	5	Feeding	S	150	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:09:09 7:42 AM	Yes	Caribou	2	Feeding	S	25	175	East	No	-96.6024	65.3773			No	Not Exceeded	
Incidental	2023:09:09 11:42 AM	Yes	Muskox	22	Walking	W	5	152	West	Yes	-96.4762	65.2418			No	Exceeded	Speed restriction 30km/h between 148 and 153. Env truck escorted LHTs through the sensitive zone.
Incidental	2023:09:09 11:42 AM	Yes	Caribou	35	Walking	SE	400	151	East	No	-96.4662	65.2345			No	Exceeded	Speed restriction 30 kms
Incidental	2023:09:09 11:42 AM	Yes	Caribou	10	Walking	SE	100	150	East	No	-96.4501	65.2302			No	Not Exceeded	
Incidental	2023:09:09 11:42 AM	Yes	Muskox	23	Foraging	NW	50	122	West	No	-96.0971	65.1148			No	Exceeded	Speed restriction 30 kms 121-122
Road	2023:09:10 7:20 AM	Yes	Muskox	1	Walking	SE	200	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:09:10 7:20 AM	Yes	Caribou	2	Feeding	N	50	138	East	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:09:10 7:20 AM	Yes	Caribou	1	Walking	NW	50	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:09:10 7:20 AM	Yes	Muskox	1	Foraging	N/A	500	154	East	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:09:10 7:20 AM	Yes	Muskox	17	Walking	E	10	158	Both	Yes	-96.4047	65.2778			No	Exceeded	Speed restriction 30 kms
Road	2023:09:10 7:20 AM	Yes	Caribou	2	Feeding	N/A	50	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:09:10 7:20 AM	Yes	Caribou	2	Feeding	N/A	15	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:09:10 7:20 AM	Yes	Caribou	9	Feeding	SE	150	171	East	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:09:10 7:20 AM	Yes	Caribou	1	Feeding	S	350	174	East	No	-96.6013	65.3683			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:09:10 12:35 PM	Yes	Muskox	17	Walking	N	1500	121	West	No	-96.0864	65.1071			No	Exceeded	Over a km away
Road	2023:09:11 7:00 AM	Yes	Caribou	6	Foraging	N/A	700	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:09:11 7:00 AM	Yes	Caribou	4	Foraging	W	1	167	Both	Yes	-96.5061	65.3284			No	Not Exceeded	
Road	2023:09:11 7:00 AM	Yes	Caribou	3	Foraging	N	1200	164	East	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:09:11 7:00 AM	Yes	Muskox	23	Foraging	N/A	2500	162	West	N/A	-96.4168	65.3115			No	Exceeded	Distance is 2.5 km from the road
Road	2023:09:11 7:00 AM	Yes	Muskox	3	Walking	N	200	161	Both	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:09:11 7:00 AM	Yes	Caribou	7	Foraging	N/A	15	160	Both	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:09:11 7:00 AM	Yes	Caribou	2	Foraging	N/A	1100	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:09:11 7:00 AM	Yes	Muskox	1	Standing	N/A	1000	156	West	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:09:11 7:00 AM	Yes	Caribou	2	Foraging	N/A	800	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:09:11 7:00 AM	Yes	Caribou	1	Running	W	10	149	Both	Yes	-96.4426	65.2233			No	Not Exceeded	
Road	2023:09:11 7:00 AM	Yes	Caribou	4	Foraging	W	150	141	West	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:09:11 7:00 AM	Yes	Muskox	1	Standing	N/A	150	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:09:12 7:06 AM	Yes	Caribou	8	Foraging	N/A	200	178	East	N/A	-96.6219	65.4009			No	Not Exceeded	
Road	2023:09:12 7:06 AM	Yes	Caribou	5	Foraging	N/A	300	169	East	N/A	-96.5370	65.3400			No	Not Exceeded	
Road	2023:09:12 7:06 AM	Yes	Muskox	9	Foraging	N/A	25	165	West	N/A	-96.4678	65.3239			No	Not Exceeded	
Road	2023:09:12 7:06 AM	Yes	Caribou	7	Foraging	N/A	200	159	East	N/A	-96.4089	65.2860			No	Not Exceeded	
Road	2023:09:13 6:40 AM	Yes	Muskox	1	Walking	S	300	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:09:13 6:40 AM	Yes	Caribou	2	Foraging	W	400	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:09:13 6:40 AM	Yes	Caribou	1	Foraging	N/A	200	141	East	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:09:13 6:40 AM	Yes	Caribou	3	Foraging	N/A	200	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:09:13 6:40 AM	Yes	Caribou	1	Foraging	N/A	200	161	West	No	-96.4121	65.3032			No	Not Exceeded	
Road	2023:09:13 6:40 AM	Yes	Muskox	20	Foraging	N	300	164	West	No	-96.4472	65.3226			No	Exceeded	Speed restriction of 30kmh between km164 and km165
Road	2023:09:13 6:40 AM	Yes	Caribou	1	Foraging	N	200	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:09:13 6:40 AM	Yes	Caribou	1	Foraging	W	200	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:09:13 6:40 AM	Yes	Caribou	4	Foraging	N/A	250	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Incidental	2023:09:13 11:40 AM	Yes	Caribou	3	Foraging	S	250	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Incidental	2023:09:13 11:40 AM	Yes	Muskox	10	Resting	N/A	300	147	West	No	-96.4184	65.2279			No	Not Exceeded	
Incidental	2023:09:13 4:01 PM	Yes	Muskox	17	Foraging	N/A	25	165	West	N/A	-96.4678	65.3239			No	Exceeded	Speed Restriction
Road	2023:09:14 8:49 AM	Yes	Caribou	1	Foraging	S	300	143	West	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:09:14 8:49 AM	Yes	Muskox	10	Foraging	N/A	200	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:09:14 8:49 AM	Yes	Caribou	8	Lying Down	N/A	200	152	West	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:09:14 8:49 AM	Yes	Caribou	1	Foraging	N/A	1750	169	East	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:09:14 8:49 AM	Yes	Caribou	5	Foraging	N/A	700	179	West	No	-96.6667	65.4014			No	Not Exceeded	
Incidental	2023:09:14 10:55 AM	Yes	Caribou	2	Foraging	N/A	200	175	West	No	-96.6024	65.3773			No	Not Exceeded	
Incidental	2023:09:14 10:55 AM	Yes	Caribou	1	Foraging	N/A	200	167	West	No	-96.5061	65.3284			No	Not Exceeded	
Incidental	2023:09:14 10:55 AM	Yes	Caribou	5	Foraging	W	100	125	East	Yes	-96.1079	65.1391			No	Not Exceeded	
Road	2023:09:17 6:38 AM	Yes	Muskox	14	Foraging	N/A	200	115	West	No	-96.0090	65.0711			No	Exceeded	Call dispatch, speed restriction of 30 km between km 113-114
Road	2023:09:17 6:38 AM	Yes	Caribou	1	Alert	N	75	140	East	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:09:17 6:38 AM	Yes	Caribou	3	Lying Down	N/A	75	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:09:17 6:38 AM	Yes	Caribou	2	Foraging	N/A	75	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:09:17 6:38 AM	Yes	Caribou	4	Foraging	N/A	50	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:09:17 11:18 AM	Yes	Muskox	1	Walking	S	75	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:09:17 11:18 AM	Yes	Muskox	6	Foraging	N	30	173	East	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:09:19 2:00 PM	Yes	Snow goose	6	Feeding	N/A	100	173	East	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:09:19 2:00 PM	Yes	Muskox	23	Feeding	N/A	300	169	West	No	-96.5370	65.3400			No	Exceeded	Speed restriction
Road	2023:09:19 2:00 PM	Yes	Snow goose	14	Foraging	N/A	100	165	West	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:09:19 2:00 PM	Yes	Snow goose	5	Feeding	N/A	100	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:09:19 2:00 PM	Yes	Snow goose	3	Foraging	N/A	200	155	West	No	-96.4342	65.2676			No	Not Exceeded	
Road	2023:09:19 2:00 PM	Yes	Muskox	19	Feeding	N/A	50	153	East	No	-96.4763	65.2482			No	Exceeded	Speed restriction



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:09:19 2:00 PM	Yes	Arctic fox	1	Running	S	150	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:09:20 3:02 PM	Yes	Snow goose	6	Standing	N/A	200	176	West	No	-96.6038	65.3862			No	Not Exceeded	
Road	2023:09:20 3:02 PM	Yes	Caribou	3	Foraging	N/A	50	168	West	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:09:20 3:02 PM	Yes	Snow goose	20	Standing	N/A	100	142	Both	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:09:20 3:02 PM	Yes	Muskox	2	Foraging	N/A	136	135	Both	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:09:20 3:02 PM	Yes	Snow goose	10	Standing	N/A	10	134	Both	No	-96.1929	65.2048			No	Not Exceeded	
Road	2023:09:20 3:02 PM	Yes	Snow goose	6	Standing	N/A	20	126	East	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:09:22 7:38 AM	Yes	Muskox	1	Foraging	N/A	50	135	East	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:09:22 7:38 AM	Yes	Caribou	12	Foraging	N/A	50	137	East	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:09:22 7:38 AM	Yes	Muskox	2	Lying Down	N/A	40	138	West	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:09:22 7:38 AM	Yes	Caribou	2	Foraging	NW	90	139	West	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:09:22 7:38 AM	Yes	Caribou	5	Walking	NE	100	152	East	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:09:22 7:38 AM	Yes	Muskox	1	Foraging	N/A	200	155	West	No	-96.4342	65.2676			No	Not Exceeded	
Road	2023:09:22 7:38 AM	Yes	Caribou	4	Running	N	60	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:09:23 9:29 AM	Yes	Caribou	2	Foraging	NE	10	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:09:23 9:29 AM	Yes	Muskox	16	Foraging	E	40	161	East	No	-96.4121	65.3032			No	Exceeded	Speed restriction 30km/hr km 160-162Dispatched notified
Road	2023:09:23 9:29 AM	Yes	Muskox	1	Foraging	N	400	172	West	No	-96.5867	65.3550			No	Not Exceeded	
Incidental	2023:09:23 2:05 PM	Yes	Muskox	3	Lying Down	N/A	50	135	East	No	-96.2080	65.2089			No	Not Exceeded	
Mine & Pit	2023:09:23 2:06 PM	Yes	Muskox	14	Foraging	N/A	900	110	East	No	-96.0445	65.0418			No	Exceeded	Speed restriction was implemented from km 111 to MBK.
Incidental	2023:09:24 4:05 PM	Yes	Grizzly bear	1	Walking	W	0	177	West,East	Yes	-96.6085	65.3943			No	Not Exceeded	
Road	2023:09:26 9:23 AM	Yes	Muskox	3	Resting	N/A	75	135	East	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:09:26 9:23 AM	Yes	Muskox	10	Walking	SW	750	110	East	No	-96.0407	65.0414			No	Not Exceeded	
Road	2023:09:29 1:41 PM	Yes	Muskox	8	Foraging	N/A	100	176	West	N/A	-96.6038	65.3862			No	Not Exceeded	
Road	2023:09:30 11:12 AM	Yes	Caribou	3	Walking	NW	10	170	West	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:09:30 11:12 AM	Yes	Muskox	7	Feeding	NW	10	140	West	No	-96.2985	65.2220			No	Not Exceeded	
Incidental	2023:10:01 8:23 AM	Yes	Muskox	19	Foraging	N/A	5	111	East	No	-96.0240	65.0481			No	Exceeded	Speed restriction put in place 30 km/h at km111
Road	2023:10:01 8:50 AM	Yes	Caribou	3	Foraging	N/A	100	169	West	N/A	-96.5370	65.3400			No	Not Exceeded	
Road	2023:10:01 8:50 AM	Yes	Muskox	14	Foraging	N/A	150	111	East	N/A	-96.0240	65.0481			No	Exceeded	Speed restriction 30km/h put in place km111
Incidental	2023:10:01 1:38 PM	Yes	Muskox	2	Foraging	N/A	200	120	West	N/A	-96.0728	65.1002			No	Not Exceeded	
Road	2023:10:03 8:15 AM	Yes	Muskox	2	Resting	N/A	300	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:10:03 8:15 AM	Yes	Muskox	3	Feeding	N/A	15	132	East	N/A	-96.1646	65.1940			No	Not Exceeded	
Road	2023:10:03 8:15 AM	Yes	Muskox	16	Feeding	E	250	148	East	No	-96.4274	65.2205			No	Exceeded	Road open - speed restriction put in place 30 km/h
Road	2023:10:03 8:15 AM	Yes	Caribou	5	Feeding	SE	250	170	East	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:10:05 7:55 AM	Yes	Muskox	3	Feeding	E	150	120	East	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:10:05 7:55 AM	Yes	Arctic hare	3	Feeding	N/A	200	135	West	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:10:05 7:55 AM	Yes	Muskox	3	Feeding	E	250	135	East	N/A	-96.2080	65.2089			No	Not Exceeded	
Road	2023:10:05 7:55 AM	Yes	Wolf	5	Walking	S	300	166	East	Yes	-96.4882	65.3253			No	Not Exceeded	
Road	2023:10:05 7:55 AM	Yes	Caribou	2	Feeding	N/A	400	166	East	N/A	-96.4882	65.3253			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:10:07 7:55 AM	Yes	Muskox	16	Foraging	E	0	111	East	No	-96.0240	65.0481			No	Exceeded	Speed restriction starting at 9:53 am from 110km to 111km .Speed restriction lifted at 10:40am
Road	2023:10:07 7:55 AM	Yes	Muskox	1	Foraging	N/A	5	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Road	2023:10:07 7:55 AM	Yes	Muskox	24	Foraging	E	5	159	East	No	-96.4089	65.2860			No	Exceeded	Speed restriction km158 -km160
Incidental	2023:10:07 10:33 AM	Yes	Muskox	1	Foraging	N/A	5	116	West	No	-96.0206	65.0803			No	Not Exceeded	
Incidental	2023:10:07 10:33 AM	Yes	Muskox	24	Foraging	N/A	5	159	East	No	-96.4089	65.2860			No	Exceeded	Speed restriction (30km/h) was put in place bewtween 160 and 158 to the road users for the remaning of the shift.
Road	2023:10:09 8:11 AM	Yes	Canada goose	3	Standing	N/A	100	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:10:09 8:11 AM	Yes	Muskox	17	Lying Down	N/A	1600	160	East	No	-96.4136	65.2943			No	Exceeded	> 1.5Km from the road
Road	2023:10:09 8:11 AM	Yes	Ptarmigan	4	Standing	N/A	5	156	East	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:10:09 8:11 AM	Yes	Muskox	8	Feeding	N/A	800	149	West	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:10:09 8:11 AM	Yes	Ptarmigan	28	Standing	N/A	30	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:10:09 8:11 AM	Yes	Caribou	27	Feeding	S	1100	145	East	No	-96.3769	65.2242			No	Not Exceeded	
Road	2023:10:09 8:11 AM	Yes	Caribou	31	Walking	S	500	142	East	No	-96.3371	65.2222			No	Not Exceeded	
Road	2023:10:09 8:11 AM	Yes	Muskox	3	Walking	N/A	800	138	East	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:10:09 8:11 AM	Yes	Ptarmigan	36	Flying	W	0	120	Both	Yes	-96.0728	65.1002			No	Not Exceeded	
Road	2023:10:11 6:45 PM	Yes	Muskox	3	Lying Down	N/A	300	160	West	No	-96.4136	65.2943			No	Not Exceeded	
Incidental	2023:10:13 2:27 PM	Yes	Muskox	23	Resting	N/A	20	151	East	No	-96.4662	65.2345			No	Exceeded	Speed restriction from 150 to 152
Incidental	2023:10:14 9:50 AM	Yes	Caribou	1	Foraging	E	400	146	East	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:10:14 12:32 PM	Yes	Muskox	2	Foraging	N/A	20	171	West	No	-96.5686	65.3520			No	Not Exceeded	
Road	2023:10:14 12:32 PM	Yes	Muskox	2	Resting	N/A	20	118	East	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:10:14 1:20 PM	Yes	Arctic fox	1	Walking	N	1	150	East	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:10:14 1:23 PM	Yes	Muskox	7	Lying Down	N/A	50	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:10:14 1:33 PM	Yes	Caribou	9	Foraging	N/A	100	146	East	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:10:14 2:16 PM	Yes	Caribou	1	Running	N	20	125	East	No	-96.1079	65.1391			No	Not Exceeded	
Road	2023:10:14 2:38 PM	Yes	Muskox	16	Foraging	N/A	5	109	East	No	-96.0421	65.0405			No	Exceeded	Speed restriction 20km/hrDispatch called
Incidental	2023:10:15 8:51 AM	Yes	Caribou	5	Foraging	N/A	75	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Incidental	2023:10:15 8:51 AM	Yes	Muskox	2	Walking	N	5	119	West	N/A	-96.0648	65.0932			No	Not Exceeded	
Incidental	2023:10:15 8:51 AM	Yes	Muskox	1	Foraging	N/A	10	118	East	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:10:16 9:00 AM	Yes	Muskox	2	Foraging	N/A	10	138	Both	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:10:18 8:06 AM	Yes	Caribou	14	Foraging	N/A	1200	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:10:18 8:06 AM	Yes	Caribou	7	Feeding	N/A	75	144	East	No	-96.3921	65.2258			No	Not Exceeded	
Road	2023:10:18 8:06 AM	Yes	Muskox	1	Foraging	N/A	800	138	West	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:10:18 8:06 AM	Yes	Muskox	3	Foraging	N/A	5	119	East	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:10:20 12:54 PM	Yes	Muskox	5	Feeding	N/A	50	123	West	No	-96.1044	65.1222			No	Not Exceeded	
Road	2023:10:20 12:54 PM	Yes	Muskox	7	Feeding	N/A	30	146	West	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:10:20 12:54 PM	Yes	Caribou	6	Feeding	N/A	900	147	West	No	-96.4184	65.2279			No	Not Exceeded	
Incidental	2023:10:21 11:01 AM	Yes	Muskox	6	Feeding	Not Recorded	50	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:10:21 11:04 AM	Yes	Muskox	5	Feeding	Not Recorded	500	120	East	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:10:21 11:04 AM	Yes	Caribou	9	Resting	Not Recorded	750	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Incidental	2023:10:22 9:17 AM	Yes	Muskox	1	Standing	Not Recorded	100	157	East	No	-96.4158	65.2712			No	Not Exceeded	



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:10:22 9:17 AM	Yes	Muskox	7	Feeding	N/A	200	146	East	No	-96.3980	65.2263			No	Not Exceeded	
Incidental	2023:10:22 9:17 AM	Yes	Muskox	2	Feeding	N/A	100	136	West	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:10:22 12:46 PM	Yes	Caribou	8	Feeding	Not Recorded	150	116	East	No	-96.0206	65.0803			No	Not Exceeded	
Incidental	2023:10:23 8:54 AM	Yes	Muskox	9	Feeding	Not Recorded	100	112	West	No	-96.0022	65.0511			No	Not Exceeded	
Road	2023:10:23 12:05 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:10:24 8:59 AM	Yes	Caribou	15	Feeding	Not Recorded	100	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Incidental	2023:10:24 8:59 AM	Yes	Muskox	7	Feeding	Not Recorded	750	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:10:24 12:42 PM	Yes	Caribou	2	Foraging	N/A	150	133	East	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:10:24 12:42 PM	Yes	Muskox	7	Lying Down	N/A	1500	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:10:24 12:42 PM	Yes	Muskox	6	Foraging	N/A	2000	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:10:24 12:42 PM	Yes	Muskox	11	Resting	N/A	2000	162	East	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:10:25 8:05 AM	Yes	Muskox	3	Feeding	N/A	100	135	East	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:10:26 8:30 AM	Yes	Muskox	3	Foraging	N/A	3000	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:10:26 8:30 AM	Yes	Caribou	17	Foraging	N/A	3000	166	East	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:10:26 8:30 AM	Yes	Caribou	150	Foraging	N/A	500	169	East	No	-96.5370	65.3400			No	Exceeded	Road closed
Road	2023:10:26 8:30 AM	Yes	Muskox	22	Foraging	N/A	50	159	East	No	-96.4089	65.2860			No	Exceeded	Road closed
Road	2023:10:26 8:30 AM	Yes	Muskox	8	Foraging	N/A	100	156	West	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:10:26 8:30 AM	Yes	Caribou	6	Foraging	N/A	500	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:10:26 8:30 AM	Yes	Muskox	3	Foraging	N/A	150	136	East	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:10:26 8:30 AM	Yes	Caribou	6	Foraging	N/A	2000	133	East	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:10:26 8:30 AM	Yes	Muskox	3	Foraging	N/A	100	120	Both	No	-96.0728	65.1002			No	Not Exceeded	
Incidental	2023:10:26 12:23 PM	Yes	Arctic fox	1	Running	W	0	126	West,East	Yes	-96.1108	65.1482			No	Not Exceeded	
Incidental	2023:10:26 12:23 PM	Yes	Caribou	14	Alert	N/A	100	143	East	No	-96.3580	65.2237			No	Not Exceeded	
Incidental	2023:10:26 12:23 PM	Yes	Caribou	8	Foraging	N/A	75	144	East	No	-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:10:26 12:23 PM	Yes	Muskox	7	Foraging	N/A	300	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Incidental	2023:10:26 12:23 PM	Yes	Muskox	10	Foraging	N/A	500	163	East	No	-96.4304	65.3174			No	Not Exceeded	
Incidental	2023:10:26 12:23 PM	Yes	Caribou	200	Foraging	S	100	166	East	No	-96.0022	65.0511			No	Exceeded	Road closed
Road	2023:10:27 7:45 AM	Yes	Caribou	14	Foraging	N/A	300	137	East	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:10:27 7:45 AM	Yes	Muskox	8	Foraging	N/A	1200	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:10:27 7:45 AM	Yes	Muskox	2	Foraging	N/A	1700	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:10:27 7:45 AM	Yes	Muskox	7	Foraging	N/A	250	156	West	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:10:27 7:45 AM	Yes	Muskox	10	Foraging	N/A	20	158	East	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:10:27 7:45 AM	Yes	Caribou	43	Alert	N/A	150	141	East	No	-96.3181	65.2237			No	Not Exceeded	
Road	2023:10:27 7:56 AM	Yes	Caribou	87	Feeding	N	100	172	East	No	-96.5867	65.3550			No	Not Exceeded	
Road	2023:10:27 7:56 AM	Yes	Caribou	52	Standing	Not Recorded	500	165	East	No	-96.4678	65.3239			No	Not Exceeded	
Road	2023:10:27 7:56 AM	Yes	Caribou	189	Feeding	N	20	165	East	No	-96.4678	65.3239			No	Exceeded	Road closed. Survey only done to KM 159 as the MBK team completed the other segment simultaneously.
Incidental	2023:10:27 9:42 AM	Yes	Caribou	7	Foraging	NW	300	140	East	No	-96.2985	65.2220			No	Not Exceeded	
Incidental	2023:10:27 9:42 AM	Yes	Muskox	6	Walking	N	200	138	East	No	-96.2602	65.2238			No	Not Exceeded	
Incidental	2023:10:27 9:42 AM	Yes	Caribou	1	Walking	W	350	133	East	No	-96.1754	65.1992			No	Not Exceeded	
Incidental	2023:10:27 1:45 PM	Yes	Caribou	10	Resting	N/A	500	140	East	No	-96.2985	65.2220			No	Not Exceeded	
Incidental	2023:10:27 1:45 PM	Yes	Caribou	6	Feeding	NW	500	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Incidental	2023:10:27 1:45 PM	Yes	Caribou	19	Feeding	N/A	1000	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Incidental	2023:10:27 1:45 PM	Yes	Muskox	26	Feeding	N/A	50	159	East	No	-96.4089	65.2860			No	Exceeded	Road closed
Incidental	2023:10:27 1:45 PM	Yes	Caribou	200	Standing	N/A	50	165	East	N/A	-96.4678	65.3239			No	Exceeded	Road closed
Incidental	2023:10:27 2:15 PM	Yes	Caribou	200	Foraging	Not Recorded	20	171	East	No	-96.5686	65.3520			No	Exceeded	Road closed. Behaviour monitoring completed.

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:10:28 8:26 AM	Yes	Caribou	261	Feeding	W	0	171	Both	Yes	-96.5686	65.3520			No	Exceeded	The road is closed to traffic. Waiting for the group to cross before going by slowly
Road	2023:10:28 8:26 AM	Yes	Caribou	5	Standing	N/A	150	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Caribou	3	Walking	W	100	166	West	No	-96.4882	65.3253			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Caribou	400	Walking	N	150	165	Both	Yes	-96.4678	65.3239			No	Exceeded	The road is closed to traffic. Waited for the caribou to cross before moving fowards
Road	2023:10:28 8:26 AM	Yes	Caribou	24	Walking	N	100	160	East	No	-96.4136	65.2943			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Muskox	28	Foraging	N/A	250	159	East	No	-96.4089	65.2860			No	Exceeded	Road closed
Road	2023:10:28 8:26 AM	Yes	Muskox	7	Foraging	N/A	10	157	Both	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Caribou	31	Foraging	N/A	1000	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Muskox	8	Foraging	N/A	1000	148	East	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Caribou	1	Alert	N/A	50	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Caribou	30	Foraging	N/A	300	140	East	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Caribou	6	Alert	S	100	138	East	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Caribou	5	Trotting/running	E	100	136	East	No	-96.2274	65.2131			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Caribou	9	Foraging	N/A	500	131	East	No	-96.1607	65.1855			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Caribou	3	Trotting/running	E	10	127	East	No	-96.1255	65.1538			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Muskox	1	Foraging	N/A	200	120	West	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:10:28 8:26 AM	Yes	Caribou	22	Walking	N	50	118	East	No	-96.0551	65.0865			No	Not Exceeded	
Incidental	2023:10:28 2:23 PM	Yes	Caribou	44	Lying Down	N/A	300	144	East	No	-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:10:28 2:23 PM	Yes	Caribou	39	Walking	N/A	0	137	West,East	No	-96.2415	65.2194			No	Not Exceeded	
Incidental	2023:10:28 2:23 PM	Yes	Caribou	10	Walking	S	10	137	East	No	-96.2415	65.2194			No	Not Exceeded	
Incidental	2023:10:28 2:23 PM	Yes	Caribou	4	Walking	N/A	250	151	West	No	-96.4662	65.2345			No	Not Exceeded	
Incidental	2023:10:28 2:23 PM	Yes	Caribou	41	Foraging	N/A	350	152	East	No	-96.4762	65.2418			No	Not Exceeded	
Road	2023:10:29 8:23 AM	Yes	Caribou	11	Walking	W	750	170	East	No	-96.5498	65.3466			No	Not Exceeded	
Road	2023:10:29 8:23 AM	Yes	Muskox	10	Foraging	N/A	100	159	East	No	-96.4089	65.2860			No	Not Exceeded	
Road	2023:10:29 8:23 AM	Yes	Caribou	8	Walking	S	500	154	East	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:10:29 8:23 AM	Yes	Muskox	5	Foraging	N/A	10	137	West	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:10:29 8:23 AM	Yes	Caribou	12	Feeding	S	1000	133	East	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:10:29 8:23 AM	Yes	Caribou	150	Foraging	SE	2000	132	East	No	-96.1646	65.1940			No	Exceeded	> than 1.5Km
Incidental	2023:10:29 2:51 PM	Yes	Muskox	5	Standing	Not Recorded	500	147	East	No	-96.4184	65.2279			No	Not Exceeded	
Incidental	2023:10:29 2:51 PM	Yes	Muskox	23	Foraging	Not Recorded	500	157	East	No	-96.4158	65.2712			No	Exceeded	Speed restriction applied
Incidental	2023:10:29 2:51 PM	Yes	Muskox	16	Foraging	NE	500	161	East	No	-96.4121	65.3032			No	Exceeded	Speed restriction applied
Road	2023:10:30 7:25 AM	Yes	Muskox	2	Foraging	N/A	350	164	West	No	-96.4472	65.3226			No	Not Exceeded	
Road	2023:10:30 7:25 AM	Yes	Muskox	26	Resting	N/A	100	156	West	No	-96.4521	65.2622			No	Exceeded	Speed restriction (30km/h) was put in place between km 156 and 157. Road users were made aware of it
Road	2023:10:30 7:25 AM	Yes	Muskox	7	Foraging	S	25	146	East	No	-96.3980	65.2263			No	Not Exceeded	
Road	2023:10:30 7:25 AM	Yes	Caribou	81	Walking	S	3000	133	East	No	-96.1754	65.1992			No	Not Exceeded	
Incidental	2023:10:30 1:43 PM	Yes	Muskox	5	Foraging	N/A	25	138	East	No	-96.2602	65.2238			No	Not Exceeded	
Incidental	2023:10:30 1:43 PM	Yes	Caribou	1	Foraging	N/A	300	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Road	2023:10:31 10:16 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:11:01 9:07 AM	Yes	Muskox	7	Foraging	N/A	100	143	East	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:11:01 9:07 AM	Yes	Caribou	105	Foraging	N/A	500	117	East	No	-96.0394	65.0837			No	Exceeded	Road closed
Incidental	2023:11:01 2:36 PM	Yes	Caribou	78	Walking	S	500	144	East	No	-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:11:01 2:36 PM	Yes	Caribou	1	Foraging	N/A	400	151	East	No	-96.4662	65.2345			No	Not Exceeded	
Road	2023:11:02 8:49 AM	Yes	Muskox	7	Foraging	N/A	100	146	East	No	-96.3980	65.2263			No	Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:11:03 9:38 AM	Yes	Muskox	2	Foraging	N/A	150	168	West	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:11:03 9:38 AM	Yes	Muskox	2	Foraging	N/A	250	162	West	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:11:03 9:38 AM	Yes	Muskox	18	Foraging	N/A	50	161	East	No	-96.4121	65.3032			No	Exceeded	Speed restricton 160 - 162
Incidental	2023:11:03 1:35 PM	Yes	Muskox	3	Foraging	N/A	10	137	West	No	-96.2415	65.2194			No	Not Exceeded	
Incidental	2023:11:03 1:35 PM	Yes	Caribou	1	Running	E	130	148	West	N/A	-96.4274	65.2205			No	Not Exceeded	
Incidental	2023:11:04 10:01 AM	Yes	Muskox	7	Foraging	N/A	50	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Incidental	2023:11:04 10:01 AM	Yes	Muskox	3	Foraging	N/A	150	139	East	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:11:04 4:39 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:11:05 8:37 AM	Yes	Arctic fox	1	Dead	N/A	0	153	West	N/A	-96.4763	65.2482		Project related	No	Not Exceeded	
Incidental	2023:11:05 8:37 AM	Yes	Arctic hare	1	Dead	N/A	0	153	West	No	-96.4763	65.2482		Project related	No	Not Exceeded	
Road	2023:11:05 8:38 AM	Yes	Arctic fox	1	Running	E	10	169	East	Yes	-96.5370	65.3400			No	Not Exceeded	
Road	2023:11:05 8:38 AM	Yes	Muskox	10	Lying Down	N/A	156	161	East	No	-96.4121	65.3032			No	Not Exceeded	
Incidental	2023:11:06 1:40 AM	Yes	Muskox	1	Dead	N/A	0	158	North	Yes	-96.4047	65.2778		Project related	No	Not Exceeded	
Road	2023:11:06 7:38 AM	Yes	Muskox	19	Resting	N/A	150	162	East	No	-96.4168	65.3115			No	Exceeded	Speed restriction 161 to 163
Road	2023:11:06 7:38 AM	Yes	Muskox	21	Foraging	N/A	500	157	East	N/A	-96.4158	65.2712			No	Exceeded	
Road	2023:11:06 7:38 AM	Yes	Muskox	7	Foraging	N/A	200	145	East	No	-96.3769	65.2242			No	Not Exceeded	Speed restriction
Road	2023:11:07 9:51 AM	Yes	Muskox	7	Foraging	N/A	200	145	East	No	-96.3769	65.2242			No	Not Exceeded	
Road	2023:11:07 9:51 AM	Yes	Ptarmigan	5	Flying	W	0	111	West	Yes	-96.0240	65.0481			No	Not Exceeded	
Incidental	2023:11:07 1:43 PM	Yes	Muskox	7	Foraging	N/A	1300	162	East	No	-96.4168	65.3115			No	Not Exceeded	
Road	2023:11:08 10:20 AM	Yes	Muskox	1	Foraging	SE	500	133	West	No	-96.1754	65.1992			No	Not Exceeded	
Road	2023:11:08 10:20 AM	Yes	Muskox	7	Foraging	N/A	500	144	East	No	-96.3923	65.2259			No	Not Exceeded	
Road	2023:11:08 10:20 AM	Yes	Muskox	1	Foraging	N/A	50	156	East	No	-96.4521	65.2622			No	Not Exceeded	
Road	2023:11:08 10:20 AM	Yes	Muskox	5	Foraging	N/A	200	120	East	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:11:09 7:43 AM	Yes	Muskox	7	Foraging	N/A	2000	154	East	N/A	-96.4630	65.2546			No	Not Exceeded	
Road	2023:11:10 8:22 AM	Yes	Muskox	6	Foraging	N/A	500	120	West	No	-96.0728	65.1002			No	Not Exceeded	
Road	2023:11:10 8:22 AM	Yes	Muskox	6	Foraging	N/A	600	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:11:10 8:22 AM	Yes	Muskox	4	Foraging	N/A	1500	158	West	No	-96.4047	65.2778			No	Not Exceeded	
Road	2023:11:10 8:22 AM	Yes	Muskox	2	Foraging	N/A	600	167	East	No	-96.5061	65.3284			No	Not Exceeded	
Road	2023:11:11 9:26 AM	Yes	Muskox	3	Foraging	N/A	500	139	West	No	-96.2800	65.2269			No	Not Exceeded	
Road	2023:11:11 9:26 AM	Yes	Muskox	7	Foraging	N/A	200	154	West	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:11:12 7:30 AM	Yes	Muskox	2	Foraging	N/A	150	168	East	No	-96.5240	65.3335			No	Not Exceeded	
Road	2023:11:12 7:30 AM	Yes	Muskox	7	Foraging	E	20	154	East	No	-96.4630	65.2546			No	Not Exceeded	
Road	2023:11:13 9:11 AM	Yes	Muskox	19	Lying Down	N/A	1000	153	East	No	-96.4763	65.2482			No	Exceeded	>500m from the road
Road	2023:11:13 9:11 AM	Yes	Muskox	3	Lying Down	N/A	50	119	West	No	-96.0648	65.0932			No	Not Exceeded	
Road	2023:11:14 8:43 AM	Yes	Caribou	6	Foraging	N/A	50	173	East	No	-96.6030	65.3597			No	Not Exceeded	
Road	2023:11:14 8:43 AM	Yes	Muskox	3	Foraging	N/A	75	154	East	No	-96.4630	65.2546			No	Not Exceeded	
Incidental	2023:11:14 3:55 PM	Yes	Caribou	30	Foraging	N/A	50	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Road	2023:11:15 10:25 AM	Yes	Muskox	2	Standing	N/A	800	177	West	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:11:16 12:49 PM	Yes	Muskox	3	Feeding	N/A	150	155	East	No	-96.4342	65.2676			No	Not Exceeded	
Road	2023:11:17 9:14 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:11:18 9:42 AM	Yes	Muskox	5	Foraging	N/A	100	153	East	No	-96.4763	65.2482			No	Not Exceeded	
Incidental	2023:11:18 9:42 AM	Yes	Muskox	3	Lying Down	NW	30	118	West	No	-96.0551	65.0865			No	Not Exceeded	
Road	2023:11:18 12:38 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:11:19 9:20 AM	Yes	Muskox	4	Lying Down	Not Recorded	30	137	West	No	-96.2415	65.2194			No	Not Exceeded	
Road	2023:11:19 10:19 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:11:20 9:15 AM	Yes	Muskox	4	Lying Down	Not Recorded	100	138	East	No	-96.2602	65.2238			No	Not Exceeded	
Road	2023:11:20 9:57 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:11:23 7:54 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:11:23 10:56 AM	Yes	Muskox	14	Milling	E	100	161	East	No	-96.4121	65.3032			No	Exceeded	Speed restriction applied from km 160-162

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:11:24 8:46 AM	Yes	Muskox	18	Standing	N/A	150	162	East	No	-96.4168	65.3115			No	Exceeded	Speed restriction was put in place (30km/h, no beacon)
Road	2023:11:24 8:46 AM	Yes	Muskox	2	Standing	N/A	500	150	East	No	-96.4501	65.2302			No	Not Exceeded	
Road	2023:11:24 8:46 AM	Yes	Wolverine	1	Running	E	100	117	East	No	-96.0394	65.0837			No	Not Exceeded	
Incidental	2023:11:24 1:35 PM	Yes	Muskox	22	Resting	N/A	700	156	East	No	-96.4521	65.2622			No	Exceeded	More than 500m from the road.
Road	2023:11:25 12:30 PM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:11:26 9:40 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:11:26 1:38 PM	Yes	Muskox	2	Foraging	N/A	150	149	East	No	-96.4426	65.2233			No	Not Exceeded	
Incidental	2023:11:26 1:38 PM	Yes	Muskox	19	Foraging	N/A	25	161	East	No	-96.4121	65.3032			No	Exceeded	Speed restriction was put in place between km 160 and 162 (30km/h)
Road	2023:11:28 8:22 AM	Yes	Muskox	4	Walking	W	1500	157	West	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:12:01 11:43 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:12:02 9:19 AM	Yes	Caribou	15	Foraging	N/A	200	143	East	No	-96.3580	65.2237			No	Not Exceeded	
Road	2023:12:02 10:35 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:12:04 11:16 AM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:12:05 10:11 AM	Yes	Muskox	29	Foraging	N/A	70	159	East	N/A	-96.4089	65.2860			No	Exceeded	Speed restriction
Incidental	2023:12:05 2:31 PM	Yes	Caribou	4	Foraging	N/A	500	145	East	No	-96.3769	65.2242			No	Not Exceeded	
Road	2023:12:06 8:50 AM	Yes	Muskox	4	Walking	W	3	157	West	No	-96.4158	65.2712			No	Not Exceeded	
Road	2023:12:06 8:50 AM	Yes	Caribou	1	Feeding	N/A	100	142	East	No	-96.3371	65.2222			No	Not Exceeded	
Incidental	2023:12:07 10:01 AM	Yes	Muskox	5	Foraging	N/A	1000	158	West	No	-96.4047	65.2778			No	Not Exceeded	
Incidental	2023:12:07 10:01 AM	Yes	Muskox	25	Foraging	N/A	20	156	West	No	-96.4521	65.2622			No	Exceeded	Speed restriction 155 to 157
Incidental	2023:12:07 10:01 AM	Yes	Muskox	3	Foraging	N/A	140	148	West	No	-96.4274	65.2205			No	Not Exceeded	
Road	2023:12:08 9:02 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:12:08 12:16 PM	Yes	Caribou	12	Foraging	N/A	200	126	East	N/A	-96.1108	65.1482			No	Not Exceeded	
Incidental	2023:12:09 9:14 AM	Yes	Caribou	15	Foraging	N/A	100	145	West	No	-96.3769	65.2242			No	Not Exceeded	
Incidental	2023:12:09 9:14 AM	Yes	Muskox	28	Lying Down	N/A	20	155	West	No	-96.4342	65.2676			No	Exceeded	Speed restriction already in place
Road	2023:12:09 9:20 AM	Yes	Muskox	30	Foraging	N/A	100	156	West	No	-96.4521	65.2622			No	Exceeded	Speed restriction, 155 to 157
Road	2023:12:09 9:20 AM	Yes	Caribou	1	Foraging	N/A	50	142	West	N/A	-96.3371	65.2222			No	Not Exceeded	
Road	2023:12:09 9:20 AM	Yes	Caribou	11	Foraging	N/A	1000	126	East	No	-96.1108	65.1482			No	Not Exceeded	
Road	2023:12:10 9:35 AM	Yes	Muskox	28	Foraging	N/A	20	155	West	N/A	-96.4342	65.2676			No	Exceeded	Speed restriction already in place
Road	2023:12:10 9:35 AM	Yes	Caribou	5	Foraging	N/A	500	145	East	N/A	-96.3769	65.2242			No	Not Exceeded	
Road	2023:12:10 9:35 AM	Yes	Caribou	15	Foraging	N/A	250	126	East	N/A	-96.1108	65.1482			No	Not Exceeded	
Incidental	2023:12:10 1:22 PM	Yes	Caribou	15	Foraging	N/A	300	126	East	N/A	-96.1108	65.1482			No	Not Exceeded	
Road	2023:12:11 7:49 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:12:12 10:01 AM	Yes	Muskox	17	Feeding	N/A	20	164	East	No	-96.4472	65.3226			No	Exceeded	Speed restriction put in place
Road	2023:12:12 1:00 PM	No		N/A			N/A	N/A			N/A	N/A					
Road	2023:12:13 8:53 AM	Yes	Muskox	17	Standing	N/A	100	164	East	No	-96.4472	65.3226			No	Exceeded	Speed restriction already in place 163-165
Road	2023:12:15 8:59 AM	Yes	Muskox	17	Foraging	N/A	150	164	East	N/A	-96.4472	65.3226			No	Exceeded	Speed restriction 30kmh 163-165
Road	2023:12:15 8:59 AM	Yes	Muskox	23	Foraging	N/A	200	159	West	No	-96.4089	65.2860			No	Exceeded	Speed restriction km158-160
Road	2023:12:15 8:59 AM	Yes	Caribou	1	Standing	N/A	600	135	East	No	-96.2080	65.2089			No	Not Exceeded	
Road	2023:12:17 9:30 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:12:18 8:55 AM	Yes	Muskox	17	Feeding	N/A	50	164	East	No	-96.4472	65.3226			No	Exceeded	Speed restriction 163-165
Incidental	2023:12:18 8:55 AM	Yes	Caribou	6	Standing	N/A	50	178	East	No	-96.6219	65.4009			No	Not Exceeded	
Incidental	2023:12:18 8:55 AM	Yes	Caribou	13	Foraging	N/A	300	177	East	No	-96.6085	65.3943			No	Not Exceeded	
Road	2023:12:18 10:37 AM	Yes	Muskox	17	Feeding	NW	100	164	East	No	-96.4472	65.3226			No	Exceeded	Speed restriction already in place 163 to 165

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Road	2023:12:19 9:33 AM	Yes	Caribou	5	Feeding	N/A	20	178	East	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:12:19 9:33 AM	Yes	Muskox	17	Foraging	NW	100	164	East	No	-96.4472	65.3226			No	Exceeded	Speed restriction already in place 165-163
Road	2023:12:20 12:09 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:12:20 3:04 PM	Yes	Arctic fox	1	Running	W	20	172	West	Yes	-96.5867	65.3550			No	Not Exceeded	
Road	2023:12:22 10:00 AM	Yes	Caribou	1	Foraging	N/A	400	178	West	No	-96.6219	65.4009			No	Not Exceeded	
Road	2023:12:22 10:00 AM	Yes	Arctic fox	1	Trotting/running	N	2	169	West	No	-96.5370	65.3400			No	Not Exceeded	
Road	2023:12:25 10:03 AM	Yes	Muskox	7	Foraging	N/A	150	140	East	No	-96.2985	65.2220			No	Not Exceeded	
Road	2023:12:28 9:20 AM	Yes	Muskox	3	Resting	N/A	300	161	East	N/A	-96.4121	65.3032			No	Not Exceeded	
Road	2023:12:28 9:20 AM	Yes	Muskox	5	Foraging	N/A	250	141	East	N/A	-96.3181	65.2237			No	Not Exceeded	
Road	2023:12:30 11:30 AM	No		N/A			N/A	N/A			N/A	N/A					
Viewshed	2023:11:01 1:39 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:01 1:39 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:01 1:39 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:01 1:39 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	176			-96.6038	65.3862					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:01 1:39 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:03 12:36 PM	Yes	Muskox	7	Standing	N/A	3000	144	East		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:11:03 12:36 PM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:03 12:36 PM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:03 12:36 PM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:03 12:36 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:04 12:40 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:04 12:40 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:04 12:40 PM	Yes	Muskox	3	Foraging	N/A	1500	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:11:04 12:40 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:04 12:40 PM	Yes	Muskox	1	Foraging	N/A	1000	160-161	East		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:11:04 12:40 PM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:04 12:40 PM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:04 12:40 PM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:04 12:40 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:05 8:12 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:05 8:12 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:05 8:12 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:05 8:12 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:05 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	154			-96.4630	65.2546					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:06 12:29 PM	Yes	Muskox	18	Foraging	N/A	100	156	East		-96.4521	65.2622				Exceeded	Speed Restriction
Viewshed	2023:11:06 12:29 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:06 12:29 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:06 12:29 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:06 12:29 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	166			-96.4882	65.3253					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:07 8:30 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:08 8:43 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:08 8:43 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:08 8:43 AM	Yes	Muskox	1	Walking	NE	500	133	West		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:11:08 8:43 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:08 8:43 AM	Yes	Muskox	7	Foraging	N/A	500	144	East		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:11:08 8:43 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:08 8:43 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:08 8:43 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:08 8:43 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:09 7:41 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:09 7:41 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:09 7:41 AM	Yes	Muskox	2	Standing	N/A	1800	121-122	West		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:11:09 7:41 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:09 7:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:10 8:20 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	138			-96.2602	65.2238					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:11 8:47 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:11 8:47 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:11 8:47 AM	Yes	Muskox	7	Foraging	N/A	200	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:11:11 8:47 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:11 8:47 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	156			-96.4521	65.2622					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:13 9:18 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	169			-96.5370	65.3400					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:16 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:18 8:35 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:18 8:35 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:18 8:35 AM	Yes	Muskox	3	Lying Down	Not Recorded	30	118	West		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:11:18 8:35 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:18 8:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:20 9:59 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:20 9:59 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:20 9:59 AM	No	-	N/A			N/A	116			-96.0206	65.0803					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:20 9:59 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:20 9:59 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	128			-96.1358	65.1614					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:25 8:52 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	138			-96.2602	65.2238					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:11:27 8:59 AM	Yes	Muskox	11	Foraging	Not Recorded	5000	144	East		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:11:27 8:59 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:27 8:59 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:27 8:59 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:11:27 8:59 AM	Yes	Muskox	19	Foraging	N/A	200	156	East		-96.4521	65.2622				Exceeded	Speed Restriction
Viewshed	2023:11:27 8:59 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:27 8:59 AM	Yes	Muskox	2	Foraging	N/A	5000	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:11:27 8:59 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:11:27 8:59 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	156			-96.4521	65.2622					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:01 1:04 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:02 10:36 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:02 10:36 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:02 10:36 AM	Yes	Muskox	5	Foraging	N/A	1500	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:12:02 10:36 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:02 10:36 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:02 10:36 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:02 10:36 AM	Yes	Muskox	9	Resting	N/A	2000	166	West		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:12:02 10:36 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	169			-96.5370	65.3400					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:02 10:36 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:04 9:34 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	116			-96.0206	65.0803					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:06 9:00 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:06 9:00 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:06 9:00 AM	Yes	Muskox	20	Foraging	N	50	156	West		-96.4521	65.2622				Exceeded	Speed Restriction
Viewshed	2023:12:06 9:00 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:06 9:00 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	128			-96.1358	65.1614					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:08 11:37 AM	Yes	Crow	1	Flying	SE	20	138	East		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:12:08 11:37 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:08 11:37 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:08 11:37 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:08 11:37 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:08 11:37 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:08 11:37 AM	Yes	Muskox	30	Foraging	N/A	2000	156	West		-96.4521	65.2622				Exceeded	More than 500m from the road
Viewshed	2023:12:08 11:37 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:08 11:37 AM	Yes	Caribou	5	Foraging	N/A	1000	169	East		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:12:08 11:37 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:08 11:37 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:08 11:37 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:08 11:37 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:09 9:12 AM			N/A			N/A				N/A	N/A					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	138			-96.2602	65.2238					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:10 12:37 PM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:10 12:37 PM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:10 12:37 PM	Yes	Muskox	28	Lying Down	N/A	20	154	West		-96.4630	65.2546				Exceeded	Speed Restriction
Viewshed	2023:12:10 12:37 PM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:10 12:37 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:10 12:37 PM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:10 12:37 PM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:10 12:37 PM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:10 12:37 PM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:12 9:14 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:12 9:14 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:12 9:14 AM	Yes	Crow	2	Flying	N	5	121-122	West		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:12:12 9:14 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:12 9:14 AM	Yes	Muskox	8	Standing	Not Recorded	1200	138	East		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:12:12 9:14 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:12 9:14 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:12 9:14 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	156			-96.4521	65.2622					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:12 9:14 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	166			-96.4882	65.3253					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:17 12:55 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:17 12:55 PM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:17 12:55 PM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:17 12:55 PM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:19 9:31 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	116			-96.0206	65.0803					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:25 12:50 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:25 12:50 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:25 12:50 PM	Yes	Muskox	18	Foraging	N/A	2500	156	West		-96.4521	65.2622				Exceeded	More than 500m from the road
Viewshed	2023:12:25 12:50 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:25 12:50 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	128			-96.1358	65.1614					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:28 12:27 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:12:30 8:02 AM	Yes	Arctic fox	1	Walking	N	0	154	East		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:12:30 8:02 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:30 8:02 AM	Yes	Muskox	5	Standing	N/A	500	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:12:30 8:02 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:12:30 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:05 1:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:22 2:06 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:01:22 2:06 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:01:22 2:06 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:01:22 2:06 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:22 2:06 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:22 2:06 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:22 2:06 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:22 2:06 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:22 2:06 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:22 2:06 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:22 2:06 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:22 2:06 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:22 2:06 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:22 2:06 AM		-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	116			-96.0206	65.0803					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:01:26 12:24 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	128			-96.1358	65.1614					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:01 10:19 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:01 10:19 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:01 10:19 AM	Yes	Muskox	9	Feeding	Not Recorded	20	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:02:01 10:19 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:01 10:19 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	138			-96.2602	65.2238					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:01 4:07 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:01 4:07 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:01 4:07 AM	Yes	Muskox	9	Feeding	Not Recorded	20	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:02:01 4:07 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:01 4:07 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	156			-96.4521	65.2622					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:08 1:10 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	169			-96.5370	65.3400					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:13 9:38 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:13 9:38 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:13 9:38 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:13 9:38 AM	Yes	Caribou	6	Feeding	N/A	1000	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:02:13 9:38 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:02:22 6:37 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:01 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:08 9:41 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:08 9:41 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:08 9:41 AM	Yes	Muskox	14	Foraging	N/A	100	156	West		-96.4521	65.2622				Exceeded	Speed Restriction
Viewshed	2023:03:08 9:41 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:08 9:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:15 1:12 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:15 1:12 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:15 1:12 AM	Yes	Common raven	1	Flying	O	0	138	West		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:03:15 1:12 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:15 1:12 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:15 1:12 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:15 1:12 AM	Yes	Muskox	25	Foraging	Not Recorded	25	156	West		-96.4521	65.2622				Exceeded	Speed Restriction
Viewshed	2023:03:15 1:12 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:15 1:12 AM	Yes	Arctic fox	1	Foraging	O	0	169	East		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:03:15 1:12 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:15 1:12 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:15 1:12 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:15 1:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	156			-96.4521	65.2622					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:03:21 8:07 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	169			-96.5370	65.3400					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:05 9:38 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:07 8:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:10 5:12 AM	Yes	Caribou	20	Walking	E	3000	116	West		-96.0206	65.0803				Not Exceeded	
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:10 5:12 AM	Yes	Caribou	150	Walking	E	1500	118	West		-96.0551	65.0865				Exceeded	Road closed
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:10 5:12 AM	Yes	Caribou	50	Feeding	N/A	3000	128	East		-96.1358	65.1614				Exceeded	Road closed
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:10 5:12 AM	Yes	Caribou	150	Standing	N/A	1500	138	West		-96.2602	65.2238				Exceeded	Road closed
Viewshed	2023:04:10 5:12 AM	Yes	Caribou	100	Walking	S	1500	138	West		-96.2602	65.2238				Exceeded	Road closed
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:10 5:12 AM	Yes	Caribou	20	Walking	N	1000	144	West		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:10 5:12 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:10 5:12 AM	Yes	Caribou	15	Standing	N/A	1500	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:10 5:12 AM	Yes	Caribou	150	Feeding	N/A	500	176	West		-96.6038	65.3862				Exceeded	Road closed
Viewshed	2023:04:10 5:12 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:12 9:37 AM	Yes	Muskox	8	Lying Down	N/A	1500	121-122	East		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:12 9:37 AM	Yes	Caribou	56	Walking	S	600	128	West		-96.1358	65.1614				Exceeded	Road Closed



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:12 9:37 AM	Yes	Caribou	55	Foraging	O	2000	133	East		-96.1754	65.1992				Exceeded	Road Closed
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:12 9:37 AM	Yes	Caribou	210	Walking	S	3000	138	East		-96.2602	65.2238				Exceeded	Road Closed
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:12 9:37 AM	Yes	Caribou	80	Walking	S	500	156	East		-96.4521	65.2622				Exceeded	Road Closed
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:12 9:37 AM	Yes	Caribou	80	Walking	S	500	156	East		-96.4521	65.2622				Exceeded	Road Closed
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:12 9:37 AM	Yes	Caribou	80	Walking	S	500	160-161	West		-96.4136	65.2943				Exceeded	Road Closed
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:12 9:37 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:12 9:37 AM	Yes	Caribou	40	Foraging	O	800	169	East		-96.5370	65.3400				Exceeded	Road Closed
Viewshed	2023:04:12 9:37 AM	Yes	Caribou	20	Foraging	NE	1000	169	East		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:12 9:37 AM	Yes	Caribou	15	Foraging	O	1	176	East		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:12 9:37 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:17 12:40 PM	Yes	Caribou	4	Walking	N	2500	121-122	West		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:17 12:40 PM	Yes	Caribou	29	Walking	S	3000	128	West		-96.1358	65.1614				Not Exceeded	
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:17 12:40 PM	Yes	Caribou	37	Walking	SE	2000	133	West		-96.1754	65.1992				Exceeded	Road Closed
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:17 12:40 PM	Yes	Caribou	13	Walking	SE	1500	138	West		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	138			-96.2602	65.2238					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:17 12:40 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:17 12:40 PM	Yes	Caribou	20	Foraging	N/A	1500	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:04:17 12:40 PM	Yes	Caribou	3	Foraging	N/A	1000	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:17 12:40 PM	Yes	Caribou	20	Foraging	N/A	2500	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:17 12:40 PM	Yes	Wolf	1	Walking	E	2000	160-161	West		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:17 12:40 PM	Yes	Caribou	19	Walking	O	150	166	West		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:17 12:40 PM	Yes	Caribou	11	Walking	E	1500	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:17 12:40 PM	Yes	Caribou	49	Foraging	N/A	1000	176	West		-96.6038	65.3862				Exceeded	Road Closed
Viewshed	2023:04:17 12:40 PM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:19 8:49 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:19 8:49 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:19 8:49 AM	Yes	Caribou	7	Walking	O	1900	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:04:19 8:49 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	156			-96.4521	65.2622					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:19 8:49 AM	Yes	Muskox	8	Foraging	N/A	2200	169	East		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:04:19 8:49 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:19 8:49 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:19 8:49 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:19 8:49 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:21 1:02 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:21 1:02 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:21 1:02 AM	Yes	Caribou	14	Walking	S	3000	121-122	West		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:04:21 1:02 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:21 1:02 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:21 1:02 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:21 1:02 AM	Yes	Caribou	15	Walking	S	2000	128	West		-96.1358	65.1614				Not Exceeded	
Viewshed	2023:04:21 1:02 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:21 1:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	42	Running	E	800	116	West		-96.0206	65.0803				Exceeded	Road closed
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	6	Walking	E	20	121-122	East		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	2	Walking	E	5	121-122	East		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	2	Walking	E	5	121-122	West		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	8	Standing	N/A	10	133	West		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	40	Standing	N/A	1400	138	West		-96.2602	65.2238				Exceeded	Road closed
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	12	Foraging	N/A	400	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	650	Lying Down	N/A	20	156	West		-96.4521	65.2622				Exceeded	Road closed
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	25	Foraging	N/A	10	160-161	East		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	100	Foraging	N/A	50	160-161	West		-96.4136	65.2943				Exceeded	Road closed
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	25	Standing	N/A	500	166	West		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:23 8:59 AM	Yes	Caribou	91	Standing	N/A	300	169	West		-96.5370	65.3400				Exceeded	Road closed
Viewshed	2023:04:23 8:59 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:23 8:59 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:27 8:07 AM	Yes	Caribou	54	Walking	SE	800	116	West		-96.0206	65.0803				Exceeded	Road closed
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:27 8:07 AM	Yes	Caribou	10	Standing	N/A	100	138	West		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:27 8:07 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:27 8:07 AM	Yes	Caribou	3	Walking	NE	2500	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:27 8:07 AM	Yes	Muskox	3	Feeding	N/A	80	160-161	East		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:27 8:07 AM	Yes	Caribou	3	Walking	NE	2000	160-161	West		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:27 8:07 AM	Yes	Caribou	33	Walking	N	400	166	West		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:04:27 8:07 AM	Yes	Caribou	14	Resting	N/A	30	166	West		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:27 8:07 AM	Yes	Caribou	1	Running	SE	900	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:27 8:07 AM	Yes	Caribou	8	Walking	NE	1000	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:04:27 8:07 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	90	Walking	NE	0	116	East		-96.0206	65.0803				Exceeded	Road closed
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	70	Walking	NE	0	116	West		-96.0206	65.0803				Exceeded	Road closed
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	2	Walking	NE	250	118	East		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	111	Walking	NE	800	121-122	West		-96.0864	65.1071				Exceeded	Road closed
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	28	Walking	N	80	128	West		-96.1358	65.1614				Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	6	Foraging	E	133	133	East		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	26	Foraging	E	590	133	West		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	10	Foraging	N/A	100	138	East		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	125	Foraging	NE	100	138	West		-96.2602	65.2238				Exceeded	Road closed
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	9	Walking	E	990	144	East		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	20	Walking	N	890	144	West		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	13	Foraging	N/A	400	154	East		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	296	Foraging	NE	790	154	West		-96.4630	65.2546				Exceeded	Road closed
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	12	Foraging	N/A	5	156	East		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	15	Foraging	N/A	5	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	20	Foraging	N/A	110	160-161	East		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	3	Resting	N/A	161	160-161	West		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	200	Walking	SE	400	166	West		-96.4882	65.3253				Exceeded	Road closed
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	142	Walking	SE	300	169	West		-96.5370	65.3400				Exceeded	Road closed
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	6	Foraging	N/A	500	176	East		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:04:29 7:22 AM	Yes	Caribou	40	Foraging	E	900	176	West		-96.6038	65.3862				Exceeded	Road closed
Viewshed	2023:04:29 7:22 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:12 10:08 AM	Yes	Caribou	17	Walking	E	750	118	West		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	144			-96.3580	65.2237					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:12 10:08 AM	Yes	Caribou	3	Walking	S	850	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:12 10:08 AM	Yes	Caribou	6	Foraging	N/A	650	160-161	West		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:12 10:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:12 10:08 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:12 10:08 AM	Yes	Caribou	12	Foraging	N/A	1500	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:05:12 10:08 AM	Yes	Caribou	3	Foraging	N	2000	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:15 1:36 AM	Yes	Caribou	5	Walking	E	1500	116	West		-96.0206	65.0803				Not Exceeded	
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:15 1:36 AM	Yes	Caribou	8	Foraging	Not Recorded	500	138	East		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:15 1:36 AM	Yes	Caribou	1	Foraging	Not Recorded	1500	156	West		-96.4521	65.2622				Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:15 1:36 AM	Yes	Caribou	7	Walking	S	2000	166	West		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:05:15 1:36 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:15 1:36 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:18 12:55 PM	Yes	Caribou	13	Foraging	N/A	1000	116	West		-96.0206	65.0803				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:18 12:55 PM	Yes	Muskox	4	Feeding	N/A	500	118	East		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:18 12:55 PM	Yes	Muskox	0	Walking	N	500	118	West		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	Caribou	8	Foraging	N/A	500	118	West		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:18 12:55 PM	Yes	Caribou	19	Walking	N	1500	121-122	West		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:18 12:55 PM	Yes	Caribou	4	Alert	N	400	128	West		-96.1358	65.1614				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:18 12:55 PM	Yes	Caribou	12	Walking	N	1000	133	West		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:18 12:55 PM	Yes	Caribou	9	Walking	N	1000	138	West		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	Caribou	14	Feeding	N/A	800	138	West		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:18 12:55 PM	Yes	Caribou	8	Walking	N	500	144	West		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	169			-96.5370	65.3400					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:18 12:55 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:18 12:55 PM	Yes	Muskox	1	Resting	N/A	1000	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:05:18 12:55 PM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:22 11:21 AM	Yes	Caribou	17	Walking	N	400	128	West		-96.1358	65.1614				Not Exceeded	
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:22 11:21 AM	Yes	Caribou	5	Walking	S	1500	144	West		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:05:22 11:21 AM	Yes	Caribou	2	Foraging	N/A	500	144	West		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:22 11:21 AM	Yes	Caribou	2	Walking	S	700	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:22 11:21 AM	Yes	Caribou	3	Walking	N	700	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:05:22 11:21 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:22 11:21 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	118			-96.0551	65.0865					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:25 9:09 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:25 9:09 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:25 9:09 AM	Yes	Caribou	25	Resting	N/A	1000	128	West		-96.1358	65.1614				Not Exceeded	
Viewshed	2023:05:25 9:09 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:25 9:09 AM	Yes	Muskox	2	Feeding	N/A	200	166	East		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:05:25 9:09 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:25 9:09 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:25 9:09 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:25 9:09 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	128			-96.1358	65.1614					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:05:31 9:20 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:03 3:50 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:06:03 3:50 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:06:03 3:50 AM	Yes	Caribou	3	Feeding	N/A	20	121-122	West		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:06:03 3:50 AM	Yes	Muskox	1	Feeding	N/A	8	121-122	West		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:06:03 3:50 AM	Yes	Muskox	2	Feeding	N/A	20	128	East		-96.1358	65.1614				Not Exceeded	
Viewshed	2023:06:03 3:50 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:03 3:50 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:03 3:50 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:03 3:50 AM	Yes	Caribou	6	Feeding	N/A	1000	133	East		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:06:03 3:50 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:06:03 3:50 AM	Yes	Caribou	6	Feeding	N/A	1200	133	West		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:06:03 3:50 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	144			-96.3580	65.2237					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:06:03 3:50 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:22 1:18 AM	Yes	Muskox	1	Feeding	N/A	20	169	East		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:06:22 1:18 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:06:22 1:18 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:06:22 1:18 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:06:22 1:18 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:06:27 10:13 AM	Yes	Muskox	3	Foraging	N/A	1600	160-161	East		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:06:27 10:13 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:06:27 10:13 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:06:27 10:13 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	176			-96.6038	65.3862					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:06:27 10:13 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:04 12:50 PM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:04 12:50 PM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:04 12:50 PM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:04 12:50 PM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:04 12:50 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:07:11 7:48 AM	Yes	Rough-legged-Hawk	1	Flying	N/A	1000	118	West		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:11 7:48 AM	Yes	Canada goose	13	Walking	N/A	400	133	West		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:11 7:48 AM	Yes	Muskox	14	Walking	S	2000	138	West		-96.2602	65.2238				Exceeded	>1.5Km from the Road
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:11 7:48 AM	Yes	Duck	1	Flying	NE	300	144	East		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:07:11 7:48 AM	Yes	Crow	1	Flying	S	0	144	East		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:11 7:48 AM	Yes	Muskox	7	Walking	E	2000	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:07:11 7:48 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:11 7:48 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:21 12:41 PM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:21 12:41 PM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:21 12:41 PM	Yes	Canada goose	6	Feeding	N/A	200	116	West		-96.0206	65.0803				Not Exceeded	
Viewshed	2023:07:21 12:41 PM	Yes	Muskox	1	Lying Down	N/A	250	116	West		-96.0206	65.0803				Not Exceeded	
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:21 12:41 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:07:25 7:33 AM	Yes	Wolf	1	Walking	E	0	133	East		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:07:25 7:33 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:25 7:33 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:25 7:33 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	138			-96.2602	65.2238					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:07:25 7:33 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:03 7:48 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:03 7:48 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:03 7:48 AM	Yes	Muskox	1	Foraging	O	100	118	West		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:08:03 7:48 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	156			-96.4521	65.2622					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:03 7:48 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:10 7:23 AM	Yes	Arctic fox	1	Running	N	0	128	East		-96.1358	65.1614				Not Exceeded	
Viewshed	2023:08:10 7:23 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:10 7:23 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:10 7:23 AM	Yes	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:10 7:23 AM	No	-	N/A			N/A	166			-96.4882	65.3253					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:08:10 7:23 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:10 7:23 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:10 7:23 AM	Yes	Muskox	3	Foraging	O	1200	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:08:10 7:23 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:10 7:23 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:10 7:23 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:10 7:23 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:10 7:23 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:19 7:08 AM	Yes	Caribou	2	Foraging	N/A	300	138	East		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:19 7:08 AM	Yes	Caribou	10	Foraging	N/A	30	144	East		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:19 7:08 AM	Yes	Caribou	3	Foraging	Not Recorded	1500	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:19 7:08 AM	Yes	Caribou	5	Foraging	N/A	300	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:19 7:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:19 7:08 AM	Yes	Caribou	4	Foraging	N	90	166	East		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:19 7:08 AM	Yes	Caribou	2	Foraging	SO	50	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:19 7:08 AM	Yes	Caribou	3	Foraging	N/A	500	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:08:19 7:08 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:24 7:35 AM	Yes	Caribou	6	Feeding	N/A	400	154	East		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:24 7:35 AM	Yes	Caribou	3	Feeding	N/A	300	156	East		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:24 7:35 AM	Yes	Caribou	3	Feeding	N/A	200	160-161	West		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:24 7:35 AM	Yes	Caribou	4	Feeding	N/A	900	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:08:24 7:35 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:24 7:35 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:31 1:15 AM	Yes	Muskox	13	Foraging	N/A	1000	118	West		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	128			-96.1358	65.1614					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:31 1:15 AM	Yes	Muskox	1	Trotting/runni ng	N	2000	133	West		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:08:31 1:15 AM	Yes	Caribou	8	Foraging	N/A	300	138	East		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:08:31 1:15 AM	Yes	Caribou	1	Foraging	N/A	200	144	East		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:31 1:15 AM	Yes	Caribou	1	Foraging	N/A	1000	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:31 1:15 AM	Yes	Muskox	12	Resting	Not Recorded	5	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:08:31 1:15 AM	Yes	Caribou	1	Walking	N	150	160-161	East		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:31 1:15 AM	Yes	Caribou	4	Foraging	N/A	100	160-161	West		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:31 1:15 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:31 1:15 AM	Yes	Caribou	2	Foraging	N/A	400	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:08:31 1:15 AM	Yes	Caribou	4	Foraging	N/A	50	176	East		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:08:31 1:15 AM	Yes	Caribou	1	Foraging	N/A	1000	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:08:31 1:15 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:07 7:51 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:07 7:51 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:07 7:51 AM	Yes	Snow goose	8	Foraging	N/A	500	116	West		-96.0206	65.0803				Not Exceeded	
Viewshed	2023:09:07 7:51 AM	Yes	Snow goose	14	Foraging	N/A	1000	116	West		-96.0206	65.0803				Not Exceeded	
Viewshed	2023:09:07 7:51 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:07 7:51 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:07 7:51 AM	Yes	Muskox	3	Walking	N	700	118	West		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:09:07 7:51 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	133			-96.1754	65.1992					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:07 7:51 AM	Yes	Caribou	3	Walking	O	0	160-161	East		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:09:07 7:51 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:07 7:51 AM	Yes	Caribou	5	Foraging	O	0	160-161	West		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:09:07 7:51 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:07 7:51 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:07 7:51 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:07 7:51 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:07 7:51 AM	Yes	Caribou	4	Foraging	N/A	50	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:09:07 7:51 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:14 7:13 AM	Yes	Snow goose	12	Foraging	N/A	50	121-122	West		-96.0864	65.1071				Not Exceeded	
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:09:14 7:13 AM	Yes	Snow goose	2	Standing	N/A	500	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:14 7:13 AM	Yes	Snow goose	4	Standing	N/A	1500	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:14 7:13 AM	Yes	Caribou	1	Foraging	N/A	1750	169	East		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:14 7:13 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:14 7:13 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:20 2:48 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:20 2:48 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:20 2:48 AM	Yes	Snow goose	8	Lying Down	N/A	600	138	West		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:09:20 2:48 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:20 2:48 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:20 2:48 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:20 2:48 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:20 2:48 AM	Yes	Snow goose	6	Standing	N/A	200	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:09:20 2:48 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:26 1:08 AM	Yes	Muskox	2	Resting	N/A	100	133	East		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:26 1:08 AM	Yes	Muskox	7	Resting	N/A	200	144	West		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:26 1:08 AM	Yes	Muskox	6	Lying Down	N/A	2500	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:26 1:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:26 1:08 AM	Yes	Arctic fox	1	Resting	N/A	2000	176	West		-96.6038	65.3862				Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:09:26 1:08 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:09:30 6:31 AM	Yes	Muskox	2	Feeding	NE	25	118	East		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:09:30 6:31 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:30 6:31 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:30 6:31 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:09:30 6:31 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:30 6:31 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:30 6:31 AM	Yes	Muskox	4	Walking	E	1000	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:09:30 6:31 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:09:30 6:31 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:02 1:10 AM	Yes	Muskox	3	Feeding	N	250	118	West		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:02 1:10 AM	Yes	Muskox	3	Feeding	SE	75	133	East		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:02 1:10 AM	Yes	Muskox	1	Feeding	NE	250	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:02 1:10 AM	Yes	Arctic fox	1	Walking	N	160	160-161	East		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:02 1:10 AM	Yes	Caribou	7	Feeding	S	250	169	East		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:02 1:10 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:02 1:10 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:05 10:08 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:05 10:08 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:05 10:08 AM	Yes	Muskox	1	Resting	N/A	40	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:10:05 10:08 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:05 10:08 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:07 10:29 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	156			-96.4521	65.2622					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:07 10:29 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:09 8:44 AM	Yes	Muskox	1	Standing	N/A	600	116	East		-96.0206	65.0803				Not Exceeded	
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:09 8:44 AM	Yes	Muskox	3	Walking	S	600	138	East		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:09 8:44 AM	Yes	Muskox	2	Standing	N/A	3000	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:09 8:44 AM	Yes	Muskox	17	Lying Down	Not Recorded	1500	160-161	East		-96.4136	65.2943				Exceeded	>1.5Km from the road
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:09 8:44 AM	Yes	Canada goose	13	Standing	Not Recorded	700	166	West		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:10:09 8:44 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	169			-96.5370	65.3400					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:09 8:44 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:11 8:46 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:11 8:46 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:11 8:46 AM	Yes	Muskox	2	Feeding	N/A	2000	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:10:11 8:46 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:11 8:46 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:11 8:46 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:11 8:46 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:11 8:46 AM	Yes	Muskox	2	Feeding	N/A	1200	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:10:11 8:46 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:11 8:46 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:11 8:46 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:11 8:46 AM	Yes	Caribou	6	Feeding	O	800	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:10:11 8:46 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	116			-96.0206	65.0803					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:13 8:02 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:14 12:18 PM	Yes	Muskox	2	Foraging	NE	20	118	East		-96.0551	65.0865				Not Exceeded	
Viewshed	2023:10:14 12:18 PM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:14 12:18 PM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:14 12:18 PM	Yes	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	128			-96.1358	65.1614					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:14 12:18 PM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:16 8:02 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	144			-96.3580	65.2237					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:16 8:02 AM		-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:18 8:05 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:18 8:05 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:18 8:05 AM	Yes	Muskox	1	Feeding	N/A	800	138	West		-96.2602	65.2238				Not Exceeded	
Viewshed	2023:10:18 8:05 AM	Yes	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:18 8:05 AM	Yes	Caribou	7	Foraging	N/A	75	144	East		-96.3580	65.2237				Not Exceeded	
Viewshed	2023:10:18 8:05 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:18 8:05 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:18 8:05 AM	Yes	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:18 8:05 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	118			-96.0551	65.0865					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:20 8:24 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:22 8:21 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:22 8:21 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:22 8:21 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:22 8:21 AM		-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:22 8:21 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:22 8:21 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:22 8:21 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:22 8:21 AM		-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	128			-96.1358	65.1614					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:22 8:21 AM	Yes	Caribou	2	Lying Down	N/A	2000	133	East		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:10:22 8:21 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:22 8:21 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:22 8:21 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:22 8:21 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:22 8:21 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:22 8:21 AM	Yes	Muskox	7	Standing	Not Recorded	1500	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:10:22 8:21 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:22 8:21 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					



Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:24 8:41 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:24 8:41 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:24 8:41 AM	Yes	Muskox	7	Feeding	N/A	1500	154	West		-96.4630	65.2546				Not Exceeded	
Viewshed	2023:10:24 8:41 AM	Yes	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:24 8:41 AM	Yes	Caribou	1	Walking	N	1500	166	East		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:10:24 8:41 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:24 8:41 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:24 8:41 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:24 8:41 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:26 8:12 AM	Yes	Caribou	6	Foraging	N/A	2000	133	East		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:26 8:12 AM	Yes	Muskox	22	Foraging	N/A	25	156	East		-96.4521	65.2622				Exceeded	Road closed
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:26 8:12 AM	Yes	Caribou	17	Foraging	N/A	3000	166	East		-96.4882	65.3253				Not Exceeded	
Viewshed	2023:10:26 8:12 AM	Yes	Caribou	150	Foraging	N/A	500	166	East		-96.4882	65.3253				Exceeded	Road closed
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:26 8:12 AM	Yes	Muskox	3	Foraging	N/A	3000	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:10:26 8:12 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:26 8:12 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:28 1:14 AM	Yes	Muskox	10	Foraging	N/A	2000	156	East		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:10:28 1:14 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:28 1:14 AM	Yes	Caribou	5	Foraging	N/A	2000	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:10:28 1:14 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:28 1:14 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:28 1:14 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:28 1:14 AM	Yes	Muskox	2	Foraging	N/A	1000	160-161	West		-96.4136	65.2943				Not Exceeded	
Viewshed	2023:10:28 1:14 AM	Yes	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:28 1:14 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:28 1:14 AM	Yes	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:28 1:14 AM	Yes	Caribou	1	Walking	O	0	169	West		-96.5370	65.3400				Not Exceeded	

Table A-2: Wildlife Observations along the Whale Tail Haul Road in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Viewshed	2023:10:28 1:14 AM	Yes	Caribou	25	Walking	O	1500	169	West		-96.5370	65.3400				Not Exceeded	
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:28 1:14 AM	No	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	116			-96.0206	65.0803					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	118			-96.0551	65.0865					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	121-122			-96.0864	65.1071					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	128			-96.1358	65.1614					
Viewshed	2023:10:30 9:26 AM	Yes	Caribou	81	Walking	S	3000	133	East		-96.1754	65.1992				Not Exceeded	
Viewshed	2023:10:30 9:26 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:30 9:26 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:30 9:26 AM	Yes	-	N/A			N/A	133			-96.1754	65.1992					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	138			-96.2602	65.2238					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	144			-96.3580	65.2237					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	154			-96.4630	65.2546					
Viewshed	2023:10:30 9:26 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:30 9:26 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:30 9:26 AM	Yes	Muskox	3	Foraging	N/A	1500	156	West		-96.4521	65.2622				Not Exceeded	
Viewshed	2023:10:30 9:26 AM	Yes	-	N/A			N/A	156			-96.4521	65.2622					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	160-161			-96.4136	65.2943					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	166			-96.4882	65.3253					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:30 9:26 AM	No	-	N/A			N/A	169			-96.5370	65.3400					
Viewshed	2023:10:30 9:26 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:30 9:26 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					
Viewshed	2023:10:30 9:26 AM	Yes	Gyr Falcon	1	Flying	E	0	176	West		-96.6038	65.3862				Not Exceeded	
Viewshed	2023:10:30 9:26 AM	Yes	-	N/A			N/A	176			-96.6038	65.3862					

Table A-3: Wildlife Observations at Meadowbank Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:01:02 8:00 AM	Yes	Wolverine	1	Walking	N/A	N/A	N/A			-96.0675	65.0161			No	Not Exceeded	
Incidental	2023:01:03 1:28 PM	Yes	Wolverine	1	Walking	NW	N/A	N/A			-96.0675	65.0161	Successful deterrence		No	Not Exceeded	
Mine & Pit	2023:01:03 1:42 PM	Yes	Wolverine	1	Walking	W	15	N/A	West	No	-96.0675	65.0161	Successful deterrence		No	Not Exceeded	
Mine & Pit	2023:01:03 1:42 PM	Yes	Arctic fox	1	Walking	W	15	N/A	West	No	-96.0675	65.0161			No	Not Exceeded	
Incidental	2023:01:05 9:06 AM	Yes	Wolverine	2	Walking	SW	N/A	N/A	West		-96.0675	65.0161	Successful deterrence		No	Not Exceeded	
Incidental	2023:01:05 9:06 AM	Yes	Wolverine	1	Walking	SW	N/A	N/A			-96.0675	65.0161			No	Not Exceeded	
Incidental	2023:01:05 9:06 AM	Yes	Wolverine	1	Walking	N/A	N/A	N/A			-96.0675	65.0161			No	Not Exceeded	
Incidental	2023:01:06 7:41 AM	Yes	Wolverine	1	Foraging	NW	N/A	N/A	West		-96.0675	65.0161	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:06 7:41 AM	Yes	Wolverine	1	Foraging	NW	N/A	N/A	West		-96.0675	65.0161	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Mine & Pit	2023:01:07 3:11 PM	Yes	Wolverine	1	Walking	W	100	N/A	West	Yes	-96.0725	65.0250	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:08 2:53 PM	Yes	Wolverine	1	Walking	W	N/A	N/A	South,North,West,East		-96.0650	65.0156	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:10 9:00 AM	Yes	Wolverine	1	Hiding	N/A	N/A	N/A	West		-96.0544	65.0333			Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:11 7:46 AM	Yes	Wolverine	1	Walking	N	N/A	N/A	West		-96.0675	65.0161	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:11 7:46 AM	Yes	Wolf	1	Walking	S	N/A	N/A	South,North,West,East		-96.0022	65.0511	Successful deterrence		No	Not Exceeded	
Incidental	2023:01:11 7:46 AM	Yes	Wolverine	1	Walking	N/A	N/A	N/A	South,North,West,East		-96.0650	65.0156	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:11 3:00 PM	Yes	Wolverine	1	Walking	N	2	N/A	West	Yes	-96.0675	65.0161	Successful deterrence		No	Not Exceeded	
Incidental	2023:01:12 6:57 AM	Yes	Wolverine	1	Walking	N/A	N/A	N/A	South,North,West,East		-96.0913	65.0543	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:12 6:57 AM	Yes	Wolf	1	Walking	N/A	N/A	N/A	South,North,West,East		-96.0022	65.0511	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:14 10:05 AM	Yes	Wolverine	1	Walking	N/A	N/A	N/A	South,North,West,East		-96.0675	65.0161	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:14 10:05 AM	Yes	Wolverine	1	Walking	N/A	N/A	N/A	South,North,West,East		-96.0675	65.0161	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:14 10:05 AM	Yes	Wolf	2	Foraging	N/A	N/A	N/A	West		-96.0544	65.0333	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:14 10:05 AM	Yes	Wolverine	1	Walking	N/A	N/A	N/A	South,North,West,East		-96.0675	65.0161	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Mine & Pit	2023:01:14 2:20 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:01:15 7:00 AM	Yes	Wolf	1	Foraging	N/A	N/A	N/A	South,North,West,East		-96.0544	65.0333	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:15 7:00 AM	Yes	Wolverine	2	Foraging	N/A	N/A	N/A	North,West,East		-96.0544	65.0333	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:15 7:00 AM	Yes	Wolf	1	Walking	N/A	N/A	N/A	South,North,West,East		-96.0669	65.0219	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:15 7:00 AM	Yes	Wolf	1	Walking	NE	N/A	N/A	West		-96.0675	65.0161	Successful deterrence		Yes - Repeating observation despite deterrence effort	Not Exceeded	
Incidental	2023:01:16 4:00 PM	Yes	Wolf	1	Walking	N/A	N/A	N/A	South		-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:01:16 4:33 PM	Yes	Wolverine	1	Running	E	N/A	N/A	East		-96.0675	65.0161			No	Not Exceeded	
Incidental	2023:01:18 4:38 PM	Yes	Wolf	1	Running	E	N/A	N/A	North,East		-96.0544	65.0333			No	Not Exceeded	

Table A-3: Wildlife Observations at Meadowbank Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:01:18 4:38 PM	Yes	Wolverine	1	Walking	E	N/A	N/A	North		-96.0675	65.0161			No	Not Exceeded	
Incidental	2023:01:19 6:30 AM	Yes	Wolverine	1	Dead	E	N/A	N/A	North		-96.0675	65.0161	Deterrents did not succeed	Project related	No	Not Exceeded	
Incidental	2023:01:19 7:02 AM	Yes	Wolverine	1	Walking	E	N/A	N/A	North		-96.0675	65.0161			No	Not Exceeded	
Incidental	2023:01:19 2:07 PM	Yes	Wolf	1	Not recorded	N/A	N/A	N/A	South		-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:01:19 2:07 PM	Yes	Wolf	1	Walking	N	N/A	N/A	East		-96.0544	65.0333			No	Not Exceeded	
Incidental	2023:01:21 9:41 AM	Yes	Wolf	1	Walking	E	N/A	N/A	North		-96.0544	65.0333			No	Not Exceeded	
Incidental	2023:01:21 9:41 AM	Yes	Wolf	1	Walking	E	N/A	N/A	North		-96.0544	65.0333	Successful deterrence		No	Not Exceeded	
Incidental	2023:01:21 9:58 AM	Yes	Wolf	1	Walking	N	N/A	N/A	North		-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:01:21 9:58 AM	Yes	Wolf	1	Walking	Not Recorded	N/A	N/A	South		-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:01:21 11:05 AM	Yes	Wolf	2	Foraging	E	N/A	N/A	East		-96.0544	65.0333	Successful deterrence		No	Not Exceeded	
Mine & Pit	2023:01:21 1:40 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:01:22 1:00 AM	Yes	Wolverine	1	Walking	S	N/A	N/A			-96.0700	65.0214			No	Not Exceeded	
Incidental	2023:01:22 1:00 AM	Yes	Wolf	1	Walking	S	N/A	N/A			-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:01:22 1:00 AM	Yes	Wolf	1	Alert	Not Recorded	N/A	N/A			-96.0022	65.0511			No	Not Exceeded	
Incidental	2023:01:22 1:00 AM	Yes	Wolverine	1	Walking	E	N/A	N/A			-96.0675	65.0161			No	Not Exceeded	
Incidental	2023:01:22 9:00 AM	Yes	Wolf	1	Walking	SE	N/A	N/A	West		-96.0544	65.0333	Successful deterrence		No	Not Exceeded	
Incidental	2023:01:22 9:00 AM	Yes	Wolf	1	Walking	N/A	N/A	N/A	South		-96.0669	65.0219			No	Not Exceeded	
Incidental	2023:01:22 9:00 AM	Yes	Wolf	1	Walking	N/A	N/A	N/A	West		-96.0639	65.0150			No	Not Exceeded	
Incidental	2023:01:24 2:45 AM	Yes	Wolf	1	Walking	N/A	N/A	N/A	West,East		-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:01:24 2:45 AM	Yes	Wolverine	1	Foraging	N/A	N/A	N/A	North		-96.0675	65.0161	Deterrents did not succeed		No	Not Exceeded	
Incidental	2023:01:24 2:45 AM	Yes	Wolf	1	Foraging	S	N/A	N/A	East		-96.0544	65.0333			No	Not Exceeded	
Incidental	2023:01:24 2:45 AM	Yes	Wolverine	1	Foraging	E	N/A	N/A	West		-96.0675	65.0161	Successful deterrence		No	Not Exceeded	
Incidental	2023:01:24 6:30 PM	Yes	Wolverine	1	Walking	Not Recorded	N/A	N/A			-96.0675	65.0161	Successful deterrence		No	Not Exceeded	
Incidental	2023:01:25 5:45 AM	Yes	Wolf	1	Dead	N/A	0	N/A	west	N/A	-96.0675	65.0161	Deterrents did not succeed	Project related	No	Not Exceeded	
Incidental	2023:01:30 7:57 AM	Yes	Wolf	2	Lying Down	Not Recorded	N/A	N/A			-96.0544	65.0333			No	Not Exceeded	
Incidental	2023:01:30 7:57 AM	Yes	Wolf	1	Walking	NW	N/A	N/A			-96.0675	65.0161	Successful deterrence		No	Not Exceeded	
Incidental	2023:01:30 7:57 AM	Yes	Wolf	1	Walking	N	N/A	N/A			-96.0578	65.0328	Deterrents did not succeed		No	Not Exceeded	
Incidental	2023:01:30 7:57 AM	Yes	Wolf	1	Walking		N/A	N/A			-96.0700	65.0214			No	Not Exceeded	
Incidental	2023:01:31 10:16 AM	Yes	Wolf	1	Walking	SW	N/A	N/A			-96.0569	65.0053	Successful deterrence		No	Not Exceeded	
Incidental	2023:02:02 2:22 PM	Yes	Wolf	2	Lying Down	Not Recorded	N/A	N/A	West		-96.0544	65.0333			Yes - A male and a cub	Not Exceeded	
Mine & Pit	2023:02:03 10:00 AM	Yes	Wolf	1	Resting	N/A	5	N/A	North,South,East,West	No	-96.0544	65.0333			Yes - Seen him all run last run and still there.....	Not Exceeded	
	2023:02:04 12:00 AM	Yes	Wolf	1	Dead		N/A	N/A			N/A	N/A	Deterrents did not succeed	Project related		Not Exceeded	
Incidental	2023:02:04 7:15 AM	Yes	Wolf	1	Dead	N/A	0	N/A		No	-96.0544	65.0333		Project related	No	Not Exceeded	
Incidental	2023:02:05 1:15 PM	Yes	Wolverine	1	Dead	N	0	N/A		N/A	-96.0544	65.0333		Project related	No	Not Exceeded	
Mine & Pit	2023:02:05 3:30 PM	Yes	Wolverine	1	Running	E	300	N/A	East	No	-96.0483	65.0108			No	Not Exceeded	
	2023:02:06 12:00 AM	Yes	Wolverine	1	Dead		N/A	N/A			N/A	N/A	Deterrents did not succeed	Project related		Not Exceeded	
Mine & Pit	2023:02:16 3:24 PM	Yes	Arctic fox	1	Walking	N/A	0	N/A	North,South,East,West	N/A	-96.0650	65.0156			No	Not Exceeded	
Mine & Pit	2023:02:18 8:45 AM	Yes	Arctic fox	1	Feeding	N/A	0	N/A	North,South,East,West	N/A	-96.0675	65.0161			No	Not Exceeded	
Incidental	2023:02:18 9:30 AM	Yes	Wolf	1	Walking	SE	800	N/A	East	No	-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:02:24 7:32 AM	Yes	Wolverine	1	Fleeing	W	N/A	N/A	East		-96.0544	65.0333			No	Not Exceeded	
Mine & Pit	2023:02:24 1:31 PM	Yes	Wolf	1	Walking	E	0	N/A		Yes	-96.0544	65.0333	Deterrents did not succeed		No	Not Exceeded	
Mine & Pit	2023:02:25 12:36 PM	Yes	Wolf	1	Walking	E	0	N/A		Yes	-96.0767	65.0392			No	Not Exceeded	
Mine & Pit	2023:02:25 12:36 PM	Yes	Arctic fox	1	Walking	N/A	15	N/A	East	No	-96.0483	65.0108			No	Not Exceeded	
Mine & Pit	2023:02:25 12:36 PM	Yes	Wolf	1	Alert	N/A	0	N/A	West	N/A	-96.0675	65.0161	Deterrents did not succeed		No	Not Exceeded	
Mine & Pit	2023:02:25 12:36 PM	Yes	Arctic fox	1	Dead	N/A	30	N/A	East	No	-96.0569	65.0053		Project non-related	No	Not Exceeded	
Incidental	2023:02:26 11:25 AM	Yes	Wolverine	1	Walking	W	N/A	N/A	West		-96.0578	65.0328	Successful deterrence		No	Not Exceeded	
Incidental	2023:02:26 2:08 PM	Yes	Wolf	1	Walking	S	N/A	N/A	East		-96.0675	65.0161	Successful deterrence		No	Not Exceeded	

Table A-3: Wildlife Observations at Meadowbank Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:02:27 11:22 AM	Yes	Wolf	1	Walking	E	N/A	N/A			-96.0700	65.0214			No	Not Exceeded	
Mine & Pit	2023:02:27 2:12 PM	Yes	Wolf	1	Walking	S	30	N/A	South	No	-96.0497	65.0147	Successful deterrence		No	Not Exceeded	
Incidental	2023:02:28 12:10 PM	Yes	Caribou	2	Walking	W	N/A	N/A	East		-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:02:28 2:40 PM	Yes	Wolf	1	Walking	S	N/A	N/A	East		-96.0675	65.0161	Successful deterrence		No	Not Exceeded	
Incidental	2023:02:28 3:21 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:03:02 9:53 AM	Yes	Wolverine	1	Running	N	N/A	N/A	West		-96.0544	65.0333			No	Not Exceeded	
Incidental	2023:03:02 9:53 AM	Yes	Arctic fox	1	Walking	W	N/A	N/A	West		-96.0700	65.0214			No	Not Exceeded	
Incidental	2023:03:02 11:28 AM	Yes	Wolf	1	Walking	E	N/A	N/A	East		-96.0544	65.0333	Successful deterrence		No	Not Exceeded	
Incidental	2023:03:02 5:09 PM	Yes	Wolverine	1	Walking	W	N/A	N/A	East		-96.0675	65.0161	Successful deterrence		No	Not Exceeded	
Mine & Pit	2023:03:03 7:36 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:03:03 3:56 PM	Yes	Wolf	1	Walking	S	N/A	N/A	South		-96.0022	65.0511	Deterrents did not succeed		No	Not Exceeded	
Mine & Pit	2023:03:04 8:50 AM	No		N/A			N/A	N/A			N/A	N/A					
	2023:03:07 12:00 AM	Yes	Wolf	1	Dead		N/A	N/A			N/A	N/A	Deterrents did not succeed	Project related		Not Exceeded	
Mine & Pit	2023:03:07 2:14 PM	Yes	Wolf	1	Walking	N	0	N/A		N/A	-96.0611	65.0311			No	Not Exceeded	
Incidental	2023:03:07 3:10 PM	Yes	Wolf	1	Dead	N/A	0	N/A	North	Yes	-96.0544	65.0333		Project related	No	Not Exceeded	
	2023:03:10 12:00 AM	Yes	Wolverine	1	Dead		N/A	N/A			N/A	N/A	Deterrents did not succeed	Project related		Not Exceeded	
Incidental	2023:03:10 1:35 PM	Yes	Wolverine	1	Dead		N/A	N/A			-96.0578	65.0328		Project related	No	Not Exceeded	
Mine & Pit	2023:03:12 5:54 PM	Yes	Caribou	2	Walking	E	4000	N/A	South	No	-96.0445	65.0418			No	Not Exceeded	
Road	2023:03:13 10:00 AM	Yes	Caribou	4	Walking	E	0	95	West	Yes	-96.1952	65.0129			No	Not Exceeded	
Mine & Pit	2023:03:18 4:22 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:03:22 8:54 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:03:25 1:52 PM	Yes	Red fox	1	Walking	E	1	N/A	West	No	-96.0544	65.0333			No	Not Exceeded	
Mine & Pit	2023:03:25 1:52 PM	Yes	Arctic fox	1	Walking	Not Recorded	50	N/A	West	No	-96.0544	65.0333			No	Not Exceeded	
Incidental	2023:03:27 7:37 AM	Yes	Wolverine	1	Trotting/running	S	N/A	N/A	East		-96.0675	65.0161			No	Not Exceeded	
Mine & Pit	2023:04:02 8:57 AM	Yes	Arctic fox	3	Alert	N/A	0	N/A	North	N/A	-96.0544	65.0333			No	Not Exceeded	
Mine & Pit	2023:04:09 1:00 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:04:15 4:01 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:04:22 10:06 AM	Yes	Caribou	16	Foraging	W	N/A	N/A	East		-96.0445	65.0418			No	Not Exceeded	
Mine & Pit	2023:04:28 3:51 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:05:03 9:00 AM	Yes	Caribou	5	Foraging	N/A	400	N/A	West	No	-96.0036	65.0750			No	Not Exceeded	
Mine & Pit	2023:05:13 7:15 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:05:20 9:41 AM	Yes	Arctic fox	1	Walking	W	100	N/A	West	N/A	-96.0675	65.0161			No	Not Exceeded	
Mine & Pit	2023:05:21 6:54 AM	Yes	Arctic fox	1	Walking	W	10	N/A	West	No	-96.0675	65.0161			No	Not Exceeded	
Mine & Pit	2023:06:05 12:47 PM	Yes	Caribou	1	Walking	E	150	N/A	South	No	-96.0675	65.0161			No	Not Exceeded	
Mine & Pit	2023:06:05 12:47 PM	Yes	Caribou	2	Foraging	N/A	500	N/A	East	No	-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:06:08 9:44 AM	Yes	Caribou	7	Foraging	N/A	N/A	N/A	North		-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Mine & Pit	2023:06:10 8:51 AM	Yes	Arctic fox	1	Walking		N/A	N/A			-95.9933	65.0588				Not Exceeded	
Incidental	2023:06:12 10:00 AM	Yes	Caribou	7	Foraging	N/A	N/A	N/A			-96.0725	65.0250			No	Not Exceeded	
Incidental	2023:06:15 7:51 AM	Yes	Muskox	2	Foraging	N/A	N/A	N/A	South,North		-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Incidental	2023:06:19 12:21 PM	Yes	Caribou	4	Foraging	S	N/A	N/A	South		-96.0725	65.0250			Yes - They have been hanging around for over 1 week	Not Exceeded	
Incidental	2023:06:20 5:45 PM	Yes	Caribou	4	Running	E	N/A	N/A	South		-96.0725	65.0250			No	Not Exceeded	
Mine & Pit	2023:06:24 8:42 AM	Yes	Muskox	1	Foraging	N/A	10	N/A	East	No	-96.0036	65.0750			No	Not Exceeded	
Mine & Pit	2023:06:24 8:42 AM	Yes	Muskox	1	Foraging	N/A	10	N/A	East	No	-96.0445	65.0418			No	Not Exceeded	
Mine & Pit	2023:06:24 8:42 AM	Yes	Muskox	2	Resting	N/A	70	N/A	West	No	-96.0569	65.0053			No	Not Exceeded	
Incidental	2023:06:25 3:34 PM	Yes	Muskox	3	Feeding		N/A	N/A	East		-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Mine & Pit	2023:06:28 10:38 AM	Yes	Caribou	2	Walking	W	0	N/A	North,South,East,West	Yes	-96.0675	65.0161			No	Not Exceeded	
Mine & Pit	2023:06:28 10:38 AM	Yes	Muskox	4	Foraging	NW	10	N/A	East,West	Yes	-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Incidental	2023:06:30 6:42 AM	Yes	Muskox	2	Foraging	NW	N/A	N/A	West,East		-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Incidental	2023:06:30 6:42 AM	Yes	Caribou	1	Walking	N	N/A	N/A	South,North,West,East		-96.0675	65.0161	Successful deterrence		No	Not Exceeded	
Incidental	2023:07:01 6:37 AM	Yes	Muskox	4	Resting	N	N/A	N/A	West,East		-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Mine & Pit	2023:07:01 9:34 AM	Yes	Muskox	1	Foraging	N/A	15	N/A	East	No	-96.0445	65.0418			No	Not Exceeded	
Mine & Pit	2023:07:01 9:34 AM	Yes	Caribou	2	Foraging	N/A	40	N/A	West	No	-96.0725	65.0250			No	Not Exceeded	

Table A-3: Wildlife Observations at Meadowbank Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Mine & Pit	2023:07:01 9:34 AM	Yes	Muskox	2	Foraging	N/A	50	N/A	East	No	-96.0725	65.0250			No	Not Exceeded	
Incidental	2023:07:05 11:00 AM	Yes	Caribou	2	Foraging	N/A	N/A	N/A	East		-96.0700	65.0200			No	Not Exceeded	
Incidental	2023:07:05 6:03 PM	Yes	Muskox	1	Resting	N	N/A	N/A	West		-96.0814	65.0183			Yes - Been there all week	Not Exceeded	
Incidental	2023:07:06 9:30 AM	Yes	Muskox	1	Foraging	S	N/A	N/A	North		-96.0725	65.0250			No	Not Exceeded	
Incidental	2023:07:07 9:45 AM	Yes	Muskox	2	Foraging	N/A	150	N/A	North	No	-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Mine & Pit	2023:07:09 5:38 PM	Yes	Muskox	1	Foraging	N/A	50	N/A	South	No	-96.0725	65.0250			No	Not Exceeded	
Mine & Pit	2023:07:09 5:38 PM	Yes	Muskox	2	Foraging	N/A	200	N/A		No	-96.0767	65.0392			No	Not Exceeded	
Incidental	2023:07:11 9:45 AM	Yes	Muskox	1	Lying Down	N/A	N/A	N/A	South		-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:07:11 9:45 AM	Yes	Caribou	1	Lying Down	N/A	N/A	N/A	South		-96.0700	65.0214			No	Not Exceeded	
Incidental	2023:07:11 9:45 AM	Yes	Muskox	1	Feeding	N/A	N/A	N/A	South		-96.0736	65.0217			No	Not Exceeded	
Incidental	2023:07:12 10:33 AM	Yes	Muskox	1	Foraging	N	N/A	N/A	North		-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Incidental	2023:07:13 10:11 AM	Yes	Muskox	1	Foraging	N/A	N/A	N/A	West		-96.0700	65.0200			No	Not Exceeded	
Incidental	2023:07:13 10:11 AM	Yes	Caribou	1	Foraging	N/A	N/A	N/A	East		-96.0814	65.0183			No	Not Exceeded	
Incidental	2023:07:13 1:30 PM	Yes	Muskox	2	Feeding	N	N/A	N/A	South		-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:07:14 8:30 AM	Yes	Caribou	1	Lying Down	N/A	N/A	N/A	East		-96.0611	65.0311			No	Not Exceeded	
Incidental	2023:07:14 9:15 AM	Yes	Muskox	2	Feeding	S	N/A	N/A	North		-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Mine & Pit	2023:07:14 10:45 AM	Yes	Muskox	1	Feeding	W	25	N/A	East	No	-96.0700	65.0200			No	Not Exceeded	
Incidental	2023:07:14 4:00 PM	Yes	Muskox	3	Feeding	S	N/A	N/A	South		-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Incidental	2023:07:15 4:40 PM	Yes	Muskox	2	Foraging	S	N/A	N/A	North		-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Incidental	2023:07:15 4:40 PM	Yes	Caribou	2	Foraging	S	N/A	N/A			-96.0725	65.0250	Successful deterrence		No	Not Exceeded	
Incidental	2023:07:29 10:30 AM	Yes	Caribou	1	Walking	S	N/A	N/A	North		-96.0650	65.0156			No	Not Exceeded	
Mine & Pit	2023:07:29 4:00 PM	Yes	Caribou	2	Walking	E	0	N/A	North	No	-96.0736	65.0217			No	Not Exceeded	
Incidental	2023:07:31 8:30 AM	Yes	Caribou	1	Trotting/running	N/A	N/A	N/A	East		-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:07:31 8:30 AM	Yes	Caribou	1	Trotting/running	N/A	N/A	N/A	North		-96.0725	65.0250			No	Not Exceeded	
Incidental	2023:08:01 6:44 AM	Yes	Caribou	1	Trotting/running	N	N/A	N/A	South		-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:08:01 3:00 PM	Yes	Caribou	1	Lying Down	N/A	N/A	N/A	East		-96.0700	65.0214			No	Not Exceeded	
Incidental	2023:08:03 12:40 PM	Yes	Caribou	1	Walking	S	N/A	N/A	South		-96.0736	65.0217			No	Not Exceeded	
Mine & Pit	2023:08:04 5:00 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:08:13 9:30 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:08:18 8:41 AM	Yes	Canada goose	16	Alert	S	20	N/A	North	No	-96.0445	65.0418			No	Not Exceeded	
Mine & Pit	2023:08:18 8:41 AM	Yes	Caribou	1	Feeding	N/A	15	N/A	North	No	-96.0445	65.0418			No	Not Exceeded	
Mine & Pit	2023:08:18 8:41 AM	Yes	Canada goose	19	Feeding	N/A	100	N/A	West	No	-96.0036	65.0750			No	Not Exceeded	
Mine & Pit	2023:08:18 8:41 AM	Yes	Muskox	28	Feeding	N/A	4000	N/A	South	No	-96.0445	65.0418			No	Exceeded	None. They are not close to any road. In tundra, behind a lake.
Mine & Pit	2023:08:26 2:41 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:09:01 5:03 PM	Yes	Canada goose	50	Resting	S	350	N/A	West	No	-96.0814	65.0183			No	Not Exceeded	
Mine & Pit	2023:09:01 5:03 PM	Yes	Canada goose	80	Resting	N/A	15	N/A	West	No	-96.0814	65.0183			No	Not Exceeded	
Mine & Pit	2023:09:01 5:03 PM	Yes	Snow goose	60	Resting	N/A	250	N/A	North	No	-96.0767	65.0392			No	Not Exceeded	
Mine & Pit	2023:09:09 5:18 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:09:16 1:04 PM	Yes	Muskox	6	Foraging	NW	200	N/A	West	No	-96.0036	65.0750			No	Not Exceeded	
Mine & Pit	2023:09:30 5:55 PM	Yes	Arctic fox	1	Running	S	0	N/A		Yes	-96.0700	65.0214			No	Not Exceeded	
Mine & Pit	2023:09:30 5:55 PM	Yes	Arctic hare	1	Foraging	S	100	N/A	East	No	-96.0445	65.0418			No	Not Exceeded	
Mine & Pit	2023:10:02 1:00 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:10:05 1:00 PM	Yes	Muskox	1	Walking	N	N/A	N/A	North		-96.0725	65.0250			No	Not Exceeded	
Mine & Pit	2023:10:07 8:59 AM	Yes	Arctic fox	2	Running	N	500	N/A	East	No	-96.0445	65.0418			No	Not Exceeded	
Incidental	2023:10:10 2:52 PM	Yes	Muskox	15	Fighting	N/A	N/A	N/A	South,North		-96.0767	65.0392			No	Exceeded	The muskox were over 2km from the road by the north cell diversion ditches.
Mine & Pit	2023:10:14 5:15 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:10:19 8:15 AM	Yes	Wolverine	1	Foraging	N	N/A	N/A	North		-96.0544	65.0333	Successful deterrence		No	Not Exceeded	
Mine & Pit	2023:10:22 2:00 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:10:28 8:50 AM	Yes	Arctic fox	1	Walking	E	10	N/A	West	No	-96.0767	65.0392			No	Not Exceeded	
Mine & Pit	2023:11:01 3:31 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:11:04 1:00 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:11:12 7:18 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:11:17 10:18 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:11:25 2:56 PM	No		N/A			N/A	N/A			N/A	N/A					

Table A-3: Wildlife Observations at Meadowbank Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Mine & Pit	2023:12:18 10:26 AM	Yes	Crow	6	Flying	N/A	0	N/A	South	No	-96.0544	65.0333			No	Not Exceeded	
Mine & Pit	2023:12:23 1:00 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:12:30 2:30 PM	Yes	Arctic fox	1	Running	W	0	N/A	East	Yes	-96.0445	65.0418			No	Not Exceeded	

Table A-4: Wildlife Observations at Whale Tail Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:01:04 2:20 PM	Yes	Arctic fox	1	Trotting/running	E	N/A	N/A	North		-96.6973	65.4037			No	Not Exceeded	
Mine & Pit	2023:01:07 2:30 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:01:11 10:00 AM	Yes	Caribou	12	Foraging	Not Recorded	N/A	N/A	South		-96.6692	65.4119			No	Not Exceeded	
Incidental	2023:01:13 12:38 PM	Yes	Red fox	1	Walking		N/A	N/A	South		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:01:15 5:20 PM	Yes	Wolverine	1	Trotting/running	N	N/A	N/A	North,East		-96.7082	65.4075	Successful deterrence		No	Not Exceeded	
Incidental	2023:01:19 11:30 AM	Yes	Wolverine	1	Walking	W	N/A	N/A	West		-96.6692	65.4119			No	Not Exceeded	
Incidental	2023:01:20 9:50 AM	Yes	Arctic fox	1	Walking	W	N/A	N/A	South		-96.7053	65.4039			No	Not Exceeded	
Incidental	2023:01:20 9:50 AM	Yes	Red fox	1	Lying Down	N/A	N/A	N/A	South		-96.6894	65.4023			No	Not Exceeded	
Incidental	2023:01:20 4:40 PM	Yes	Wolverine	1	Trotting/running	W	N/A	N/A	South		-96.6915	65.4147			No	Not Exceeded	
Mine & Pit	2023:01:21 2:59 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:01:22 10:09 AM	Yes	Arctic fox	1	Feeding	N	N/A	N/A	South		-96.7053	65.4039			No	Not Exceeded	
Incidental	2023:01:22 10:09 AM	Yes	Red fox	1	Trotting/running	S	N/A	N/A	West		-96.6915	65.4147			No	Not Exceeded	
Incidental	2023:01:23 12:57 PM	Yes	Red fox	1	Trotting/running	N	N/A	N/A	South		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:01:24 10:07 AM	Yes	Red fox	1	Walking	E	N/A	N/A	South		-96.6973	65.4037			Yes - There's only one red fox around here	Not Exceeded	
Mine & Pit	2023:01:24 10:52 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:01:24 11:43 AM	Yes	Red fox	1	Trotting/running	SE	N/A	N/A	East		-96.6692	65.4119			Yes - Only red fox around site and was spotted/reported for a week now	Not Exceeded	
Mine & Pit	2023:01:25 10:20 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:01:26 12:25 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:01:27 2:51 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:01:28 12:08 PM	Yes	Red fox	1	Hunting	N/A	N/A	N/A	South		-96.6973	65.4037			Yes - Only one red fox has been seen for a couple of weeks now around site	Not Exceeded	
Incidental	2023:01:28 12:08 PM	Yes	Wolverine	1	Trotting/running	S	N/A	N/A	West		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:01:29 11:00 AM	Yes	Red fox	1	Feeding	N/A	N/A	N/A	South		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:01:29 4:10 PM	Yes	Arctic fox	1	Dead	N/A	N/A	N/A	South		-96.6973	65.4037		Project non-related	No	Not Exceeded	
Mine & Pit	2023:01:31 9:34 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:02:03 10:07 AM	Yes	Red fox	1	Trotting/running	Not Recorded	N/A	N/A	South		-96.6973	65.4037			No	Not Exceeded	
Mine & Pit	2023:02:06 3:45 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:02:08 10:45 AM	Yes	Red fox	1	Trotting/running	S	N/A	N/A	West		-96.6973	65.4037			No	Not Exceeded	
Mine & Pit	2023:02:11 12:55 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:02:12 2:15 PM	Yes	Red fox	1	Trotting/running	N/A	N/A	N/A	East		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:02:13 7:35 AM	Yes	Wolverine	1	Trotting/running	N	N/A	N/A	South		-96.6731	65.4009			No	Not Exceeded	
Incidental	2023:02:13 1:23 PM	Yes	Red fox	1	Trotting/running	E	N/A	N/A	South		-96.7023	65.4039			No	Not Exceeded	
Incidental	2023:02:13 1:23 PM	Yes	Red fox	1	Trotting/running	E	N/A	N/A	South		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:02:13 3:00 PM	Yes	Red fox	1	Trotting/running	NW	N/A	N/A			-96.7053	65.4039			No	Not Exceeded	
Mine & Pit	2023:02:16 9:22 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:02:17 9:15 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:02:18 1:47 PM	Yes	Common raven	2	Flying	S	0	N/A	East	No	-96.6732	65.4062			No	Not Exceeded	

Table A-4: Wildlife Observations at Whale Tail Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:02:21 4:24 PM	Yes	Red fox	1	Trotting/running	S	N/A	N/A	West,East		-96.7053	65.4039			Yes - Its here since a month now	Not Exceeded	
Mine & Pit	2023:02:25 9:20 AM	Yes	Common raven	2	Lying Down	N/A	0	N/A	South	No	-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:02:26 12:16 PM	Yes	Red fox	1	Foraging	N/A	N/A	N/A	South		-96.6973	65.4037			Yes - Same fox that was seen around for a couple of months now	Not Exceeded	
Mine & Pit	2023:03:14 3:45 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:03:18 4:38 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:03:19 12:53 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:03:21 9:11 AM	Yes	Red fox	1	Trotting/running	E	0	N/A	South	Yes	-96.7053	65.4039			No	Not Exceeded	
Mine & Pit	2023:03:25 2:35 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:04:01 4:40 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:04:08 9:00 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:04:22 1:20 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:04:29 3:45 PM	Yes	Caribou	15	Foraging	N/A	500	N/A	South	No	-96.7334	65.3953			No	Not Exceeded	
Mine & Pit	2023:04:29 3:45 PM	Yes	Arctic hare	3	Feeding	N/A	30	N/A	North	No	-96.7334	65.3953			No	Not Exceeded	
Mine & Pit	2023:04:29 3:45 PM	Yes	Caribou	54	Resting	N/A	1000	N/A	West	No	-96.6973	65.4037			No	Exceeded	Road is closed and scheduled blast was postponed.
Incidental	2023:05:05 2:57 PM	Yes	Arctic fox	2	Resting	N/A	N/A	N/A	North		-96.6887	65.4169			No	Not Exceeded	
Mine & Pit	2023:05:06 4:01 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:05:10 3:15 PM	Yes	Falcon	1	Flying	N	N/A	N/A	West		-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:05:13 12:43 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:05:21 9:57 AM	Yes	Caribou	4	Foraging	N/A	300	N/A	East	No	-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:05:27 1:30 PM	Yes	Arctic hare	1	Resting	N/A	1	N/A	West	No	-96.6887	65.4169			No	Not Exceeded	
Incidental	2023:05:31 3:00 PM	Yes	Arctic fox	1	Dead	N/A	N/A	N/A	West		-96.7279	65.4093		Project non-related	No	Not Exceeded	
Mine & Pit	2023:06:03 10:45 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:06:10 2:17 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:06:17 9:58 AM	Yes	Canada goose	2	Flying	N	10	N/A	East	No	-96.6862	65.3957			No	Not Exceeded	
Mine & Pit	2023:06:24 8:45 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:07:01 3:51 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:07:08 11:00 AM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:07:08 3:09 PM	Yes	Caribou	1	Foraging	N/A	N/A	N/A	West		-96.7053	65.4039			No	Not Exceeded	
Incidental	2023:07:11 9:40 AM	Yes	Caribou	1	Milling	W	N/A	N/A	North		-96.6863	65.4051			No	Not Exceeded	
Incidental	2023:07:11 11:45 AM	Yes	Caribou	1	Walking		N/A	N/A			-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:07:14 6:26 AM	Yes	Caribou	1	Walking	N/A	N/A	N/A	South		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:07:15 6:54 AM	Yes	Caribou	1	Alert	N/A	N/A	N/A	East		-96.7053	65.4039			No	Not Exceeded	
Mine & Pit	2023:07:15 4:32 PM	No		N/A			N/A	N/A			N/A	N/A					
Incidental	2023:07:17 9:07 AM	Yes	Caribou	1	Walking	S	N/A	N/A	West		-96.7053	65.4039			No	Not Exceeded	
Incidental	2023:07:18 1:55 PM	Yes	Caribou	1	Running	N	N/A	N/A	North		-96.7053	65.4039			No	Not Exceeded	
Incidental	2023:07:23 3:00 PM	Yes	Caribou	1	Walking	S	N/A	N/A	South		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:07:25 12:45 PM	Yes	Caribou	1	Standing	E	N/A	N/A	East		-96.6692	65.4119	Successful deterrence		No	Not Exceeded	
Incidental	2023:07:28 11:10 AM	Yes	Caribou	1	Standing	N/A	N/A	N/A	East		-96.6692	65.4119	Successful deterrence		No	Not Exceeded	
Incidental	2023:07:28 11:10 AM	Yes	Caribou	1	Walking	E	N/A	N/A	North		-96.6863	65.4051			No	Not Exceeded	
Incidental	2023:07:28 11:10 AM	Yes	Caribou	1	Walking	Not Recorded	N/A	N/A	South		-96.7053	65.4039			No	Not Exceeded	
Incidental	2023:07:29 6:55 AM	Yes	Caribou	1	Walking	E	N/A	N/A	East		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:07:29 6:55 AM	Yes	Caribou	1	Walking	Not Recorded	N/A	N/A			-96.7053	65.4039			No	Not Exceeded	



Table A-4: Wildlife Observations at Whale Tail Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:07:29 6:55 AM	Yes	Caribou	1	Walking	Not Recorded	N/A	N/A	North		-96.6915	65.4147			No	Not Exceeded	
Incidental	2023:07:29 6:55 AM	Yes	Caribou	1	Walking	N/A	N/A	N/A	West		-96.7053	65.4039			No	Not Exceeded	
Incidental	2023:07:29 6:55 AM	Yes	Caribou	1	Injured	Not Recorded	N/A	N/A	East		-96.7279	65.4093			No	Not Exceeded	
Incidental	2023:07:29 6:55 AM	Yes	Muskox	1	Walking	W	N/A	N/A			-96.6887	65.4169			No	Not Exceeded	
Mine & Pit	2023:07:29 8:30 AM	Yes	Caribou	1	Standing	N/A	50	N/A	West	No	-96.7053	65.4039			No	Not Exceeded	
Mine & Pit	2023:07:29 8:30 AM	Yes	Arctic fox	1	Walking	S	25	N/A		No	-96.6887	65.4169			No	Not Exceeded	
Mine & Pit	2023:07:29 8:30 AM	Yes	Arctic fox	1	Trotting/running	N	100	N/A	South	No	-96.6731	65.4009			No	Not Exceeded	
Incidental	2023:07:30 11:29 AM	Yes	Caribou	1	Standing	Not Recorded	N/A	N/A	North		-96.7279	65.4093			No	Not Exceeded	
Incidental	2023:07:31 8:21 AM	Yes	Caribou	2	Walking	W	N/A	N/A	North		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:08:01 12:01 AM	Yes	Caribou	2	Resting	Not Recorded	N/A	N/A	North		-96.7334	65.3953			No	Not Exceeded	
Incidental	2023:08:01 12:01 AM	Yes	Caribou	2	Walking	E	N/A	N/A	South		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:08:03 6:15 AM	Yes	Caribou	3	Walking	W	N/A	N/A	East		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:08:03 6:15 AM	Yes	Caribou	1	Walking	S	N/A	N/A	West		-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:08:04 8:02 AM	Yes	Caribou	2	Lying Down	N/A	0	N/A	North	N/A	-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:08:04 8:02 AM	Yes	Arctic hare	2	Running	W	0	N/A	South	Yes	-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:08:04 8:02 AM	Yes	Caribou	1	Resting	N/A	10	N/A	East	No	-96.7279	65.4093			No	Not Exceeded	
Incidental	2023:08:07 1:06 PM	Yes	Caribou	1	Walking	N/A	N/A	N/A	West		-96.7053	65.4039			No	Not Exceeded	
Incidental	2023:08:07 1:06 PM	Yes	Caribou	1	Standing	N/A	N/A	N/A	West		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:08:08 11:20 AM	Yes	Caribou	1	Walking	S	N/A	N/A	West		-96.6903	65.4118			No	Not Exceeded	
Incidental	2023:08:08 11:20 AM	Yes	Caribou	1	Walking	E	N/A	N/A	West		-96.6903	65.4118			No	Not Exceeded	
Incidental	2023:08:08 11:20 AM	Yes	Caribou	2	Trotting/running	S	N/A	N/A	North		-96.6903	65.4118			No	Not Exceeded	
Incidental	2023:08:09 3:04 PM	Yes	Caribou	1	Walking	W	N/A	N/A	South		-96.7279	65.4093			No	Not Exceeded	
Incidental	2023:08:09 3:04 PM	Yes	Caribou	1	Walking	S	N/A	N/A	South		-96.7334	65.3953			No	Not Exceeded	
Incidental	2023:08:09 3:04 PM	Yes	Caribou	3	Alert	N/A	N/A	N/A	South		-96.6973	65.4037			No	Not Exceeded	
Incidental	2023:08:11 12:04 PM	Yes	Caribou	11	Foraging	N/A	N/A	N/A	West,East		-96.6887	65.4169			No	Not Exceeded	
Mine & Pit	2023:08:12 3:24 PM	Yes	Caribou	1	Foraging	E	10	N/A	East	No	-96.7053	65.4039			No	Not Exceeded	
Mine & Pit	2023:08:12 3:24 PM	Yes	Caribou	1	Foraging	N/A	25	N/A	West	No	-96.7334	65.3953			No	Not Exceeded	
Mine & Pit	2023:08:12 3:24 PM	Yes	Caribou	1	Standing	N/A	25	N/A	East	No	-96.7334	65.3953			No	Not Exceeded	
Mine & Pit	2023:08:12 3:24 PM	Yes	Caribou	2	Standing	N/A	30	N/A	East	No	-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:08:12 3:24 PM	Yes	Caribou	1	Running	W	0	N/A	East	Yes	-96.7053	65.4039			No	Not Exceeded	
Mine & Pit	2023:08:19 9:00 AM	Yes	Caribou	1	Foraging	N/A	500	N/A	South	No	-96.7334	65.3953			No	Not Exceeded	
Mine & Pit	2023:08:19 9:00 AM	Yes	Caribou	1	Foraging	N/A	300	N/A	South	No	-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:08:19 9:00 AM	Yes	Caribou	1	Foraging	N/A	100	N/A	North,South	N/A	-96.7279	65.4093			No	Not Exceeded	
Incidental	2023:08:23 9:00 AM	Yes	Grizzly bear	1	Walking	N	N/A	N/A	West		-96.7053	65.4039			No	Not Exceeded	
Mine & Pit	2023:08:26 1:05 PM	Yes	Muskox	7	Lying Down	N/A	100	N/A	North	No	-96.6887	65.4169			No	Not Exceeded	
Incidental	2023:08:28 2:51 PM	Yes	Caribou	3	Lying Down	Not Recorded	N/A	N/A			-96.7334	65.3953			No	Not Exceeded	
Incidental	2023:08:31 2:44 PM	Yes	Caribou	1	Walking	E	N/A	N/A	North		-96.7082	65.4075			No	Not Exceeded	
Incidental	2023:08:31 2:44 PM	Yes	Caribou	1	Trotting/running	NW	N/A	N/A			-96.6610	65.4170			No	Not Exceeded	
Mine & Pit	2023:09:02 7:27 AM	Yes	Muskox	7	Feeding	Not Recorded	10	N/A	South	No	-96.7334	65.3953			No	Not Exceeded	
Mine & Pit	2023:09:02 7:27 AM	Yes	Caribou	2	Feeding	Not Recorded	30	N/A	South	No	-96.7334	65.3953			No	Not Exceeded	
Mine & Pit	2023:09:17 1:36 PM	Yes	Caribou	2	Walking	N/A	0	N/A	North	N/A	-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:09:23 9:13 AM	Yes	Caribou	3	Walking	N	0	N/A		Yes	-96.6894	65.4023			No	Not Exceeded	
Incidental	2023:09:25 9:45 AM	Yes	Wolf	1	Walking	N	N/A	N/A	North		-96.6791	65.4062			No	Not Exceeded	
Incidental	2023:09:25 9:45 AM	Yes	Caribou	1	Walking	S	N/A	N/A	North		-96.6863	65.4051			No	Not Exceeded	
Mine & Pit	2023:09:30 8:30 AM	Yes	Caribou	6	Walking	N	0	N/A		Yes	-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:09:30 8:30 AM	Yes	Arctic hare	1	Resting	N/A	25	N/A	North	No	-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:10:07 4:00 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:10:17 3:38 PM	Yes	Arctic hare	1	Resting	N/A	10	N/A	North	No	-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:10:21 3:02 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:10:28 4:14 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:11:04 12:25 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:11:05 2:02 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:11:11 2:36 PM	Yes	Arctic fox	1	Trotting/running	E	0	N/A	East	Yes	-96.6863	65.4051			No	Not Exceeded	
Mine & Pit	2023:11:18 3:08 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:11:25 10:58 AM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:12:02 2:03 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:12:09 1:00 PM	No		N/A			N/A	N/A			N/A	N/A					
Mine & Pit	2023:12:16 10:15 AM	Yes	Arctic fox	1	Trotting/running	N	0	N/A	North	Yes	-96.6732	65.4062			No	Not Exceeded	



Table A-4: Wildlife Observations at Whale Tail Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Incidental	2023:12:17 11:45 AM	Yes	Arctic fox	1	Milling	W	N/A	N/A	East		-96.7053	65.4039			No	Not Exceeded	
Mine & Pit	2023:12:23 10:44 AM	Yes	Arctic fox	1	Trotting/running	W	0	N/A	East,West	Yes	-96.6973	65.4037			No	Not Exceeded	
Mine & Pit	2023:12:23 10:44 AM	Yes	Arctic fox	2	Foraging	N/A	0	N/A	East	No	-96.7279	65.4093			No	Not Exceeded	
Mine & Pit	2023:12:31 9:30 AM	No		N/A			N/A	N/A			N/A	N/A					
Blast	2023:01:02 2:18 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:03 2:56 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:04 2:40 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:06 5:49 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:07 3:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:07 5:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:12 3:15 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:13 2:20 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:14 2:40 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:15 2:40 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:09 3:02 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:10 3:50 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:11 3:49 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:22 2:43 AM	Wildlife observed	Arctic fox	2	Trotting/running	N/A	N/A	N/A	N/A	N/A	-96.6679	65.4028	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:01:27 3:10 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:28 3:54 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:29 3:16 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:30 3:48 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:01 4:10 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:04 4:19 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:05 3:56 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:06 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:07 4:13 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:09 3:50 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:10 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:11 2:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:14 3:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:16 3:34 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:17 3:12 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:19 2:45 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:01:20 2:45 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:19 3:23 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:20 3:26 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:21 3:44 AM	Wildlife observed	Red fox	1	Trotting/running	N/A	N/A	N/A	N/A	N/A	-96.6666	65.4014	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:02:23 3:06 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:24 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:25 3:39 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:27 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:02:28 4:32 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:06 4:07 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:07 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:08 3:33 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:10 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:11 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:16 4:52 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:17 5:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:18 4:40 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:13 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:14 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:15 4:12 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:19 4:54 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:20 4:29 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:21 4:34 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA



Table A-4: Wildlife Observations at Whale Tail Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Blast	2023:03:22 5:08 AM	Wildlife observed	Arctic fox	1	Trotting/running	N/A	N/A	N/A	N/A	N/A	-96.6886	65.4170	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:03:22 5:08 AM	Wildlife observed	Arctic fox	1	Running	N/A	N/A	N/A	N/A	N/A	-96.6886	65.4170	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:03:24 5:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:25 4:41 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:27 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:28 5:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:29 5:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:31 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:01 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:03:27 4:45 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:03 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:04 3:40 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:06 4:10 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:07 4:05 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:08 4:25 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:09 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:10 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:11 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:12 5:15 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:14 4:45 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:16 5:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:17 4:42 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:18 4:30 AM	Wildlife observed	Caribou	42	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6334	65.4042	N/A	N/A	N/A	Exceeded	NA. Blast cancelled.
Blast	2023:04:18 4:30 AM	Wildlife observed	Caribou	24	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6334	65.4042	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:04:19 5:07 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:20 4:44 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:21 4:41 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:23 5:27 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:26 4:45 AM	Wildlife observed	Caribou	175	Resting	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4017	N/A	N/A	N/A	Exceeded	NA. Blast cancelled.
Blast	2023:04:26 5:15 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:27 4:32 AM	Wildlife observed	Caribou	150	Resting	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4017	N/A	N/A	N/A	Exceeded	NA. Blast cancelled.
Blast	2023:04:28 4:45 AM	Wildlife observed	Caribou	44	Resting	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4017	N/A	N/A	N/A	Exceeded	NA. Blast cancelled.
Blast	2023:04:28 4:00 AM	Wildlife observed	Caribou	175	Feeding	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4017	N/A	N/A	N/A	Exceeded	NA. Blast cancelled.
Blast	2023:04:29 4:40 AM	Wildlife observed	Caribou	48	Resting	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4017	N/A	N/A	N/A	Exceeded	NA. Blast cancelled.
Blast	2023:04:29 4:43 AM	Wildlife observed	Caribou	15	Feeding	N/A	N/A	N/A	N/A	N/A	-96.6664	65.4017	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:04:29 4:43 AM	Wildlife observed	Caribou	3	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6664	65.4017	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:04:29 4:43 AM	Wildlife observed	Caribou	54	Resting	N/A	N/A	N/A	N/A	N/A	-96.6664	65.4017	N/A	N/A	N/A	Exceeded	NA. Blast cancelled.
Blast	2023:05:06 3:50 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:04:30 4:00 AM	Wildlife observed	Caribou	6	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6645	65.4024	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:04:30 4:00 AM	Wildlife observed	Caribou	12	Feeding	N/A	N/A	N/A	N/A	N/A	-96.6645	65.4024	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:04:30 3:45 AM	Wildlife observed	Caribou	25	Feeding	N/A	N/A	N/A	N/A	N/A	-96.6642	65.4027	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:04:30 3:45 AM	Wildlife observed	Caribou	5	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6642	65.4027	N/A	N/A	N/A	Not Exceeded	NA



Table A-4: Wildlife Observations at Whale Tail Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Blast	2023:04:30 3:45 AM	Wildlife observed	Caribou	12	Feeding	N/A	N/A	N/A	N/A	N/A	-96.6642	65.4027	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:05:01 5:00 AM	Wildlife observed	Caribou	5	Walking	N/A	N/A	N/A	N/A	N/A	-96.6561	65.4034	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:05:01 5:00 AM	Wildlife observed	Caribou	28	Resting	N/A	N/A	N/A	N/A	N/A	-96.6561	65.4034	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:05:01 5:00 AM	Wildlife observed	Caribou	30	Walking	N/A	N/A	N/A	N/A	N/A	-96.6561	65.4034	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:05:12 3:53 AM	Wildlife observed	Caribou	2	Walking	N/A	N/A	N/A	N/A	N/A	-96.6666	65.4017	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:05:12 3:53 AM	Wildlife observed	Arctic fox	1	Trotting/running	N/A	N/A	N/A	N/A	N/A	-96.6666	65.4017	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:05:15 11:47 AM	Wildlife observed	Caribou	10	Walking	N/A	N/A	N/A	N/A	N/A	-96.0659	65.0939	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:05:15 11:47 AM	Wildlife observed	Caribou	54	Walking	N/A	N/A	N/A	N/A	N/A	-96.0659	65.0939	N/A	N/A	N/A	Exceeded	NA. Blast Postponed.
Blast	2023:05:19 4:51 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:05:20 4:27 AM	Wildlife observed	Caribou	4	Foraging	N/A	N/A	N/A	N/A	N/A	-96.7307	65.4131	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:05:22 5:05 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:05:29 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:05:31 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:04 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:05 3:03 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:07 7:44 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:08 4:36 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:09 4:19 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:10 3:46 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:05:11 4:40 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:05:14 3:55 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:05:15 3:48 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:15 4:10 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:16 4:27 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:17 4:28 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:19 4:35 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:21 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:22 3:45 AM	Wildlife observed	Muskox	8	Resting	N/A	N/A	N/A	N/A	N/A	-96.6669	65.4003	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:06:23 5:47 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:24 3:54 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:26 4:27 AM	Wildlife observed	Muskox	10	Feeding	N/A	N/A	N/A	N/A	N/A	-96.7448	65.4089	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:06:26 4:27 AM	Wildlife observed	Muskox	2	Feeding	N/A	N/A	N/A	N/A	N/A	-96.7448	65.4089	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:06:27 5:12 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:29 3:48 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:18 4:31 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:06:20 4:31 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:02 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:03 3:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:04 4:11 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:07 5:56 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:08 4:30 AM	Wildlife observed	Caribou	1	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6666	65.4014	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:07:19 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:21 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:22 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:16 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:18 5:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA



Table A-4: Wildlife Observations at Whale Tail Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Blast	2023:07:13 3:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:14 5:20 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:15 4:02 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:25 4:40 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:26 4:15 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:27 5:15 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:28 4:09 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:01 2:25 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:09 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:07:31 4:32 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:02 3:20 AM	Wildlife observed	Caribou	1	Standing	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4017	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:04 3:35 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:05 4:02 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:14 4:44 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:15 3:02 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:17 4:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:18 5:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:19 5:39 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:07 3:58 AM	Wildlife observed	Caribou	1	Walking	N/A	N/A	N/A	N/A	N/A	0.0000	65.4014	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:07 4:10 AM	Wildlife observed	Caribou	4	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6666	65.4014	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:08 4:11 AM	Wildlife observed	Caribou	1	Walking	N/A	N/A	N/A	N/A	N/A	0.0000	65.4014	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:08 4:11 AM	Wildlife observed	Caribou	1	Trotting/running	N/A	N/A	N/A	N/A	N/A	0.0000	65.4014	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:11 3:50 AM	Wildlife observed	Caribou	10	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6666	65.4014	N/A	N/A	N/A	Not Exceeded	NA. Blast cancelled.
Blast	2023:08:12 4:07 AM	Wildlife observed	Caribou	1	Walking	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4014	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:12 4:07 AM	Wildlife observed	Caribou	2	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4014	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:12 4:07 AM	Wildlife observed	Caribou	2	Trotting/running	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4014	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:20 5:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:22 4:28 AM	Wildlife observed	Caribou	5	Walking	N/A	N/A	N/A	N/A	N/A	-96.7088	65.4003	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:23 3:43 AM	Wildlife observed	Caribou	1	Feeding	N/A	N/A	N/A	N/A	N/A	-96.6919	65.4169	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:23 3:43 AM	Wildlife observed	Muskox	6	Feeding	N/A	N/A	N/A	N/A	N/A	-96.6919	65.4169	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:23 3:43 AM	Wildlife observed	Caribou	4	Walking	N/A	N/A	N/A	N/A	N/A	-96.6919	65.4169	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:28 5:22 AM	Wildlife observed	Caribou	2	Feeding	N/A	N/A	N/A	N/A	N/A	-96.6666	65.4017	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:08:29 5:20 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:08:31 5:29 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:01 4:22 AM	Wildlife observed	Caribou	3	Foraging	N/A	N/A	N/A	N/A	N/A	-96.7288	65.3976	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:01 4:22 AM	Wildlife observed	Caribou	6	Foraging	N/A	N/A	N/A	N/A	N/A	-96.7288	65.3976	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:01 4:22 AM	Wildlife observed	Caribou	2	Foraging	N/A	N/A	N/A	N/A	N/A	-96.7288	65.3976	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:11 4:53 AM	Wildlife observed	Caribou	5	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4015	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:11 4:53 AM	Wildlife observed	Muskox	7	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6665	65.4015	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:12 4:59 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA



Table A-4: Wildlife Observations at Whale Tail Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Blast	2023:09:14 4:45 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:15 5:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:16 4:45 AM	Wildlife observed	Caribou	10	Feeding	N/A	N/A	N/A	N/A	N/A	-96.7144	65.3995	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:03 3:03 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:04 2:38 AM	Wildlife observed	Caribou	8	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6649	65.4007	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:04 2:38 AM	Wildlife observed	Caribou	1	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6649	65.4007	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:04 2:38 AM	Wildlife observed	Caribou	4	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6649	65.4007	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:04 2:38 AM	Wildlife observed	Caribou	1	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6649	65.4007	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:04 2:38 AM	Wildlife observed	Caribou	1	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6649	65.4007	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:06 5:30 AM	Wildlife observed	Caribou	1	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6671	65.4020	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:08 4:26 AM	Wildlife observed	Muskox	7	Resting	N/A	N/A	N/A	N/A	N/A	-96.6667	65.4018	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:08 4:26 AM	Wildlife observed	Caribou	7	Resting	N/A	N/A	N/A	N/A	N/A	-96.6667	65.4018	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:09 4:49 AM	Wildlife observed	Caribou	1	Trotting/running	N/A	N/A	N/A	N/A	N/A	-96.6924	65.4033	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:09 4:49 AM	Wildlife observed	Caribou	2	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6924	65.4033	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:17 4:45 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:18 5:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:19 5:00 AM	Wildlife observed	Caribou	2	Foraging	N/A	N/A	N/A	N/A	N/A	-96.6666	65.4018	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:20 4:45 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:22 4:24 AM	Wildlife observed	Caribou	2	Foraging	N/A	N/A	N/A	N/A	N/A	-96.7338	65.3951	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:09:23 4:24 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:24 3:57 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:26 4:08 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:27 3:52 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:09:30 4:29 AM	Wildlife observed	Caribou	9	Resting	N/A	N/A	N/A	N/A	N/A	-96.6666	65.4017	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:10:01 4:10 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:03 3:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:06 2:28 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:07 3:53 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:15 4:26 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:19 4:12 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:20 4:08 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:21 4:17 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:22 3:04 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:24 3:46 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:27 3:27 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:23 5:34 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:28 4:03 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:30 3:40 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:08 4:08 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:09 4:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:10 4:15 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:11 4:23 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:12 2:01 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:10:14 3:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:11:01 3:48 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA



Table A-4: Wildlife Observations at Whale Tail Mine in 2023

Survey Type	Date/Time	Wildlife Observation	Species	Number	Behavior	Travel Direction	Distance	KM Marker	Side of Rd	Crossing	x coord	y coord	Deterrence	Project Related Mortality	Tolerance	Group Threshold	Mitigation
Blast	2023:11:03 3:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:11:05 3:00 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:11:06 3:58 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:11:08 3:10 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:11:11 2:38 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:11:12 4:34 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:11:13 3:02 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:11:17 5:19 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:11:18 3:02 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:11:26 2:21 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:12:15 3:20 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:12:17 3:29 AM	Wildlife observed	Arctic fox	1	Trotting/running	N/A	N/A	N/A	N/A	N/A	-96.6666	65.4014	N/A	N/A	N/A	Not Exceeded	NA
Blast	2023:12:22 4:55 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:12:23 1:40 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:12:24 2:04 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:12:28 4:18 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:12:29 5:05 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA
Blast	2023:12:31 3:30 AM	None		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		NA

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-01-01	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-02	Closed (< 24 hour)	5.5	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-01-03	Closed (< 24 hour)	13.5	Weather	N/A	N/A	N/A	Survey	N/A	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-01-04	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-05	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-06	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-07	Open	0.0	NA	Muskox	11	990	Survey	N/A	1	Y		
2023-01-08	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-09	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-10	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-11	Closed (< 24 hour)	22.6	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-01-12	Closed (< 24 hour)	9.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-01-13	Open	0.0	NA	Wolverine	1	0	Survey	N/A	1	Y		
2023-01-14	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-15	Closed (< 24 hour)	8.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-01-16	Closed (< 24 hour)	12.9	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-01-17	Open	0.0	NA	Muskox	9	990	Survey	N/A	1	Y		
2023-01-18	Closed (< 24 hour)	20.3	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-01-19	Closed (< 24 hour)	3.1	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-01-20	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-01-21	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-01-22	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-01-23	Closed (< 24 hour)	2.1	Weather	Muskox	2	100	Survey	N/A	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-01-24	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-25	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-26	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-01-27	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-01-28	Closed (< 24 hour)	18.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-01-29	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-01-30	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-01-31	Closed (< 24 hour)	10.7	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-02-01	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-02	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-03	Open	0.0	NA	Muskox	10	20	HTO Observation	N/A	0	Y		
2023-02-04	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-05	Open	0.0	NA	Muskox	8	300	Survey	N/A	1	Y		
2023-02-06	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-07	Open	0.0	NA	Muskox	8	1200	Survey	N/A	1	Y		
2023-02-08	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-09	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-10	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-02-11	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-12	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-13	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-14	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-02-15	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-16	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-17	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-02-18	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-19	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-20	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-21	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-02-22	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-23	Closed (< 24 hour)	15.0	Weather	Caribou	13	70	HTO Observation	N/A	1	Y		Road closed
2023-02-24	Closed (< 24 hour)	11.8	Weather	N/A	N/A	N/A	Survey	N/A	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-02-25	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-02-26	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-27	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-02-28	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-03-01	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-02	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-03	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-03-04	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-05	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-03-06	Open	0.0	NA	Muskox	35	2000	Survey	N/A	1	Y		
2023-03-07	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-08	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-09	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-10	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-03-11	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-12	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-13	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-14	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-15	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-16	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-17	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-03-18	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	N		
2023-03-19	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-03-20	Open	0.0	NA	Caribou	9	500	Survey	N/A	1	Y		
2023-03-21	Speed Restriction	0.0	Caribou	Caribou	5	80	Incidental	N/A	1	Y		
2023-03-22	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-03-23	Speed restriction	0.0	Caribou	Caribou	45	250	Incidental	N/A	1	Y		
2023-03-24	Speed Restriction	0.0	Caribou	Caribou	50	N/A	Road User	N/A	1	Y		
2023-03-25	Speed Restriction	0.0	Caribou	Caribou	45	700	Survey	N/A	1	Y		
2023-03-26	Speed Restriction	0.0	Caribou	Caribou	26	200	Survey	N/A	1	Y		
2023-03-27	Speed Restriction	0.0	Caribou	Caribou	24	300	Incidental	N/A	1	Y		
2023-03-28	Closed (< 24 hour)	19.5	Weather	Caribou	50	500	Incidental	N/A	0	Y		Road closed
2023-03-29	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-03-30	Closed (< 24 hour)	20.0	Caribou	Caribou	146	2	Survey	N/A	1	Y	Weather Improvement	None - Road closed for weather condition before being closed again for caribou above GST
2023-03-31	Closed	24.0	Caribou	Caribou	65	1000	Survey	N/A	1	Y		Road closed
2023-04-01	Closed (< 24 hour)	14.2	Caribou	Caribou	170	1000	Incidental	N/A	1	Y	Weather Improvement	Road closed
2023-04-02	Closed	24.0	Caribou	Caribou	290	80	Survey	N/A	1	Y		Road closed
2023-04-03	Closed	24.0	Caribou	Caribou	300	600	Survey	N/A	1	Y		Road closed
2023-04-04	Closed	24.0	Caribou	Caribou	650	450	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-04-05	Closed	24.0	Caribou	Caribou	700	500	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-04-06	Closed	24.0	Caribou	Caribou	800	0	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-04-07	Closed	24.0	Caribou	Caribou	900	0	Survey	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call.

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-04-08	Closed	24.0	Caribou	Caribou	1100	1	Survey	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call. Discussion with Baker Lake HTO monitors regarding convoy of essential needs. Convoy approved.
2023-04-09	Closed	24.0	Caribou	Caribou	400	100	Survey	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-04-10	Closed	24.0	Caribou	Caribou	380	390	Survey	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-04-11	Closed	24.0	Caribou	Caribou	280	250	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors & KIA regarding observation via radio call
2023-04-12	Closed	24.0	Caribou	Caribou	433	80	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors & KIA regarding observation via radio call. Following days crew change was planned with KIA and HTO.
2023-04-13	Closed	24.0	Caribou	Caribou	400	400	HTO Observation	N/A	0	Y		Communication with KIA regarding observation via radio call
2023-04-14	Closed	24.0	Caribou	Caribou	302	120	Incidental	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-04-15	Closed	24.0	Caribou	Caribou	120	200	Incidental	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-04-16	Closed	24.0	Caribou	Caribou	204	1100	Incidental	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-04-17	Closed	24.0	Caribou	Caribou	200	300	Incidental	N/A	1	Y		Communication with Baker Lake HTO monitors & KIA representatives. Following days crew change was planned with KIA and HTO. Agnico, Baker Lake HTO, KIA and Agnico to escort convoy.
2023-04-18	Closed	24.0	Caribou	Caribou	202	0	Incidental	N/A	1	Y		Communication with Baker Lake HTO monitors & KIA regarding observation via radio call
2023-04-19	Closed	24.0	Caribou	Caribou	340	650	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors & KIA representatives. Following days crew change was planned with KIA and HTO. Baker Lake HTO and KIA to escort convoy.

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-04-20	Closed	24.0	Caribou	Caribou	82	800	Road	N/A	1	Y		Communication with Baker Lake HTO monitors & KIA regarding observation via radio call
2023-04-21	Closed	24.0	Caribou	Caribou	166	300	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-04-22	Closed	24.0	Caribou	Caribou	107	300	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-04-23	Closed	24.0	Caribou	Caribou	284	50	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-04-24	Closed	24.0	Caribou	Caribou	493	100	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors & KIA representatives. Following days crew change was planned with KIA and HTO. Baker Lake HTO and KIA to escort convoy.
2023-04-25	Closed	24.0	Caribou	Caribou	143	900	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors & KIA representatives regarding convoy status. Convoy cancelled. Following days convoy to be led by Baker Lake HTO & KIA
2023-04-26	Closed	24.0	Caribou	Caribou	171	150	Road	N/A	1	Y		Communication with Baker Lake HTO monitors & KIA representatives. Following days crew change was planned with KIA and HTO. Baker Lake HTO to escort convoy.
2023-04-27	Closed	24.0	Caribou	Caribou	379	300	Incidental	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-04-28	Closed	24.0	Caribou	Caribou	450	800	Road	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-04-29	Closed	24.0	Caribou	Caribou	525	0	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-04-30	Closed	24.0	Caribou	Caribou	300	700	Incidental	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-05-01	Closed	24.0	Caribou	Caribou	124	250	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-05-02	Closed	24.0	Caribou	Caribou	58	300	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-05-03	Closed	24.0	Caribou	Caribou	180	400	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-05-04	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed for weather conditions. Convoy rescheduled to following day.
2023-05-05	Closed	24.0	Caribou	Caribou	50	600	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-06	Closed	24.0	Caribou	Caribou	160	300	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-07	Closed	24.0	Caribou	Caribou	600	0	HTO Observation	N/A	0	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-08	Closed	24.0	Caribou	Caribou	200	N/A	HTO Observation	N/A	0	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-09	Closed	24.0	Caribou	Caribou	300	100	HTO Observation	N/A	0	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-10	Closed	24.0	Caribou	Caribou	300	100	HTO Observation	N/A	0	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-11	Closed	24.0	Caribou	Caribou	350	500	HTO Observation	N/A	0	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-05-12	Closed	24.0	Caribou	Caribou	400	0	HTO Observation	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Convoy planned with Baker Lake HTO escort for after the weekend. Agnico to escort during the weekend.
2023-05-13	Closed	24.0	Caribou	Caribou	210	600	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-05-14	Closed	24.0	Caribou	Caribou	120	150	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-05-15	Closed	24.0	Caribou	Caribou	117	290	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-16	Closed	24.0	Caribou	Caribou	87	N/A	HTO Observation	N/A	0	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-17	Closed	24.0	Caribou	Caribou	200	N/A	HTO Observation	N/A	0	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-18	Closed	24.0	Caribou	Caribou	60	800	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-19	Closed (< 24 hour)	16.8	Caribou	Caribou	42	500	Survey	N/A	1	Y	Caribou below GST	Communication with Baker Lake HTO monitors regarding observation via radio call. Decision to reopen the road due to no groups above GST.
2023-05-20	Open	0.0	NA	Caribou	32	1000	Incidental	N/A	1	Y		
2023-05-21	Open	0.0	NA	Caribou	31	450	Incidental	N/A	1	Y		
2023-05-22	Closed (< 24 hour)	16.5	Caribou	Caribou	38	1000	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Following Days convoy planned with Baker Lake HTO escort.
2023-05-23	Closed	24.0	Caribou	Caribou	46	800	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-05-24	Closed (< 24 hour)	15.5	Caribou	Caribou	41	30	Incidental	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Decision to reopen the road due to no groups above GST in the morning. Decision to close the road in the afternoon when group appeared.
2023-05-25	Closed (< 24 hour)	16.2	Caribou	Caribou	47	800	Incidental	N/A	1	Y	Caribou below GST	Communication with Baker Lake HTO monitors regarding observation via radio call. Decision to reopen the road due to no groups above GST.

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-05-26	Closed (< 24 hour)	8.5	Caribou	Caribou	113	100	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-05-27	Closed	24.0	Caribou	Caribou	63	230	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-05-28	Closed (< 24 hour)	18.0	Caribou	Caribou	43	120	Survey	N/A	1	Y	Caribou below GST	Discussions with HTO/KIA to allow NS operations of road maintenance & 2 tankers
2023-05-29	Closed (< 24 hour)	12.5	Caribou	Caribou	29	60	Survey	N/A	1	Y	Caribou below GST	Communication with Baker Lake HTO monitors regarding observation via radio call. Decision to reopen the road due to no groups above GST.
2023-05-30	Closed (< 24 hour)	8.0	Caribou	Caribou	52	300	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-05-31	Closed (< 24 hour)	6.8	Caribou	Caribou	18	200	Incidental	N/A	1	Y	Caribou below GST	Communication with Baker Lake HTO monitors regarding observation via radio call. Decision to reopen the road due to no groups above GST.
2023-06-01	Speed Restriction	0.0	Caribou	Caribou	26	250	Survey	N/A	1	Y		
2023-06-02	Open	0.0	NA	Caribou	18	250	Incidental	N/A	1	Y		
2023-06-03	Closed (< 24 hour)	4.2	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-06-04	Speed Restriction	0.0	Muskox	Muskox	14	1500	Survey	N/A	1	Y		
2023-06-05	Speed Restriction	0.0	Caribou	Caribou	30	250	Survey	N/A	1	Y		
2023-06-06	Open	0.0	NA	Caribou	14	800	Survey	N/A	1	Y		
2023-06-07	Speed Restriction	0.0	Muskox	Muskox	20	700	Incidental	N/A	1	Y		
2023-06-08	Open	0.0	NA	Caribou	7	400	HTO Observation	N/A	0	Y		
2023-06-09	Speed Restriction	0.0	Caribou	Caribou	37	600	Survey	N/A	1	Y		
2023-06-10	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-11	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-12	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-13	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-14	Open	0.0	NA	Caribou	7	50	Survey	N/A	1	Y		
2023-06-15	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-16	Open	0.0	NA	Muskox	1	75	Survey	N/A	1	Y		
2023-06-17	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-18	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-19	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-20	Open	0.0	NA	Muskox	32	1000	Survey	N/A	1	Y		
2023-06-21	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-22	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-23	Open	0.0	NA	Muskox	3	150	Survey	N/A	1	y		
2023-06-24	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-25	Speed Restriction	0.0	Muskox	Muskox	20	110	Survey	N/A	1	y		
2023-06-26	Open	0.0	NA	Muskox	20	1500	Survey	N/A	1	y		
2023-06-27	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-28	Open	0.0	NA	Muskox	20	800	HTO Observation	N/A	0	Y		
2023-06-29	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-06-30	Open	0.0	NA	Muskox	11	600	Survey	N/A	1	Y		
2023-07-01	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-02	Open	0.0	NA	Muskox	5	900	Survey	N/A	1	Y		
2023-07-03	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-04	Open	0.0	NA	Muskox	2	30	Survey	N/A	1	Y		

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-07-05	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-06	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-07	Speed Restriction	0.0	Muskox	Muskox	14	150	Incidental	N/A	1	Y		
2023-07-08	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-09	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-10	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-11	Open	0.0	NA	Muskox	2	5	Survey	N/A	1	Y		
2023-07-12	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-13	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-14	Speed Restriction	0.0	Muskox	Muskox	17	75	Survey	N/A	1	Y		
2023-07-15	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-16	Open	0.0	NA	Muskox	4	750	Survey	N/A	1	Y		
2023-07-17	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-18	Open	0.0	NA	Muskox	4	200	Survey	N/A	1	Y		
2023-07-19	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-20	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-21	Speed Restriction	0.0	Muskox	Muskox	15	350	Survey	N/A	1	Y		
2023-07-22	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-23	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-24	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-25	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-26	Open	0.0	NA	Muskox	3	280	Survey	N/A	1	Y		
2023-07-27	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-07-28	Open	0.0	NA	Artic Hare	1	0	Incidental	N/A	0	Y		
2023-07-29	Open	0.0	NA	Caribou	2	300	Incidental	N/A	0	Y		
2023-07-30	Open	0.0	NA	Wolf	1	50	Incidental	N/A	0	Y		
2023-07-31	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-01	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-08-02	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-03	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-04	Open	0.0	NA	SikSik	1	0	Survey	N/A	1	Y		
2023-08-05	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-06	Open	0.0	NA	Muskox	9	800	Survey	N/A	1	Y		
2023-08-07	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-08	Open	0.0	NA	Muskox	11	100	Survey	N/A	1	Y		
2023-08-09	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-10	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-11	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-12	Open	0.0	NA	Muskox	1	15	Survey	N/A	1	Y		
2023-08-13	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-14	Open	0.0	NA	Muskox	1	100	Survey	N/A	1	Y		
2023-08-15	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-16	Open	0.0	NA	Muskox	1	350	Survey	N/A	1	Y		
2023-08-17	Open	0.0	NA	Muskox	1	800	Survey	N/A	1	Y		
2023-08-18	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-19	Open	0.0	NA	Caribou	1	100	Survey	N/A	1	Y		
2023-08-20	Open	0.0	NA	Muskox	33	1900	Survey	N/A	1	Y		
2023-08-21	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-22	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-23	Open	0.0	NA	Muskox	1	100	Survey	N/A	1	Y		
2023-08-24	Open	0.0	NA	Sandhill crane	2	300	Survey	N/A	1	Y		
2023-08-25	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-08-26	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-27	Open	0.0	NA	Snow goose	150	30	Survey	N/A	1	Y		
2023-08-28	Open	0.0	NA	Muskox	6	1700	Survey	N/A	1	Y		
2023-08-29	Open	0.0	NA	Bald eagle	1	300	Survey	N/A	1	Y		
2023-08-30	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-08-31	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-01	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-02	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-03	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-04	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-05	Speed Restriction	0.0	Muskox	Muskox	21	1000	Incidental	N/A	1	Y		

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-09-06	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-07	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-08	Speed Restriction	0.0	Muskox	Muskox	20	500	Incidental	N/A	0	Y		
2023-09-09	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-10	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-11	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-12	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-13	Open	0.0	NA	Muskok	6	100	Survey	N/A	1	Y		
2023-09-14	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-15	Open	0.0	NA	Muskox	1	200	Incidental	N/A	1	Y		
2023-09-16	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-17	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-18	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-19	Open	0.0	NA	Caribou	2	400	HTO Observation	N/A	0	Y		
2023-09-20	Closed (< 24 hour)	5.0	Weather	Muskox	5	200	Survey	N/A	1	Y		Road closed
2023-09-21	Closed (< 24 hour)	10.0	Weather	Muskox	5	50	Survey	N/A	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-09-22	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-23	Open	0.0	NA	Muskox	1	50	Survey	N/A	1	Y		
2023-09-24	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-09-25	Closed (< 24 hour)	6.5	Cyanide Convoy	Muskox	2	10	Survey	N/A	1	Y	Cyanide Convoy Concluded	None - Bake Lake community advised of closure and reopening of the road
2023-09-26	Closed (< 24 hour)	6.5	Cyanide Convoy	Muskox	7	150	Survey	N/A	1	Y	Cyanide Convoy Concluded	None - Bake Lake community advised of closure and reopening of the road
2023-09-27	Closed (< 24 hour)	6.0	Cyanide Convoy	Muskox	1	20	Survey	N/A	1	Y	Cyanide Convoy Concluded	None - Bake Lake community advised of closure and reopening of the road
2023-09-28	Closed (< 24 hour)	7.8	Cyanide Convoy	Muskox	10	1000	Survey	N/A	1	Y	Cyanide Convoy Concluded	None - Bake Lake community advised of closure and reopening of the road
2023-09-29	Closed (< 24 hour)	7.0	Cyanide Convoy	Caribou	4	200	Survey	N/A	1	Y	Cyanide Convoy Concluded	None - Bake Lake community advised of closure and reopening of the road
2023-09-30	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-10-01	Open	0.0	NA	Muskox	1	10	Survey	N/A	1	Y		
2023-10-02	Open	0.0	NA	Muskox	1	150	Incidental	N/A	0	Y		
2023-10-03	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-10-04	Closed (< 24 hour)	6.8	Weather	Muskox	1	30	Survey	N/A	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-10-05	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-10-06	Open	0.0	NA	Muskox	2	25	Survey	N/A	1	y		
2023-10-07	Open	0.0	NA	Arctic Fox	1	100	Survey	N/A	1	Y		
2023-10-08	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-10-09	Open	0.0	NA	Muskox	3	12	Survey	N/A	1	Y		
2023-10-10	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-10-11	Open	0.0	NA	Muskox	1	10	Survey	N/A	1	Y		
2023-10-12	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-10-13	Closed (< 24 hour)	4.0	Weather	Muskox	22	2500	Survey	N/A	1	N	Weather Improvement	Road closed
2023-10-14	Closed (< 24 hour)	9.3	Weather	Caribou	29	2900	Survey	N/A	1	Y	Weather Improvement	Road closed
2023-10-15	Closed (< 24 hour)	6.1	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-10-16	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-10-17	Open	0.0	NA	Muskox	1	20	Incidental	N/A	0	N		
2023-10-18	Open	0.0	NA	Muskox	40	2300	Survey	N/A	1	Y		
2023-10-19	Open	0.0	NA	N/A	N/A	N/A	N/A	N/A	0	Y		
2023-10-20	Open	0.0	NA	Muskox	10	1900	Survey	N/A	1	Y		

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-10-21	Open	0.0	NA	Muskox	2	10	Survey	N/A	1	Y		
2023-10-22	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	N		
2023-10-23	Open	0.0	NA	Muskox	2	10	Survey	N/A	1	Y		
2023-10-24	Open	0.0	NA	N/A	N/A	N/A	Survey	N/A	1	Y		
2023-10-25	Open	0.0	NA	Muskox	2	100	Survey	N/A	1	Y		
2023-10-26	Closed (< 24 hour)	12.7	Caribou	Caribou	102	2000	Survey	N/A	1	Y		Baker Lake HTO Reported large group above GST. Road was closed and agreement was made to keep the road closed until tomorrow morning.
2023-10-27	Closed	24.0	Caribou	Caribou	382	1250	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-10-28	Closed	24.0	Caribou	Caribou	500+	5	Incidental	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-10-29	Closed	24.0	Caribou	Caribou	1200	1000	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Baker Lake HTO authorized fuel truck to refuel genset at km 37 and escorted through sensitive zones.
2023-10-30	Closed	24.0	Caribou	Caribou	2500	75	Incidental	N/A	1	Y		Communication with Baker Lake HTO and KIA monitors regarding observation via radio call. Recurrent meeting - planning for Oct 31 crew change.
2023-10-31	Closed	24.0	Caribou	Caribou	100	300	Survey	N/A	1	Y		Communication with Baker Lake HTO and KIA monitors regarding observation via radio call. Crew change postponed.
2023-11-01	Closed	24.0	Caribou	Caribou	250	500	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Crew change postponed
2023-11-02	Closed	24.0	Caribou	Caribou	230	100	Survey	N/A	1	Y		Communication with Baker Lake HTO and KIA monitors regarding observation via radio call. Crew change completed lead by HTO.
2023-11-03	Closed	24.0	Caribou	Caribou	130	100	Survey	N/A	1	Y		Communication with Baker Lake HTO and KIA monitors regarding observation via radio call.
2023-11-04	Closed	24.0	Caribou	Caribou	280	200	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-11-05	Closed	24.0	Caribou	Caribou	200	350	Incidental	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-11-06	Closed (< 24 hour)	12.0	Caribou	Caribou	227	1850	Incidental	N/A	1	Y	Caribou below GST	Communication with Baker Lake HTO monitors regarding observation via radio call. Following discussions with KIA and HTO road was opened.
2023-11-07	Closed (< 24 hour)	14.2	Caribou	Caribou	296	300	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Recurrent meeting - update provided to all stakeholders
2023-11-08	Closed	24.0	Caribou	Caribou	350	100	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call.
2023-11-09	Closed	24.0	Caribou	Caribou	255	500	Incidental	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. Recurrent meeting - update provided to GN.
2023-11-10	Closed	24.0	Caribou	Caribou	600	1000	Survey	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status.
2023-11-11	Closed	24.0	Caribou	Caribou	120	300	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-11-12	Closed	24.0	Caribou	Caribou	285	300	Incidental	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-11-13	Closed	24.0	Caribou	Caribou	250	320	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-11-14	Closed	24.0	Caribou	Caribou	290	10	Survey	N/A	1	Y		Communication with Baker Lake HTO and KIA monitors regarding observation via radio call. Recurrent meeting - agreement for crew change convoy to be lead by KIA and HTO with a grader due to poor road conditions (freezing rain)
2023-11-15	Closed	24.0	Caribou	Caribou	127	1600	HTO Observation	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-11-16	Closed	24.0	Caribou	Caribou	180	30	Survey	N/A	1	N		Communication with Baker Lake HTO and KIA monitors regarding observation via radio call & Recurrent Meeting - Baker Lake crew change to commence with Baker Lake HTO escort.

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-11-17	Closed	24.0	Caribou	Caribou	260	400	Survey	N/A	1	N		Communication with Baker Lake HTO and KIA monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status.
2023-11-18	Closed	24.0	Caribou	Caribou	290	290	Survey	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-11-19	Closed	24.0	Caribou	Caribou	105	330	Survey	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call
2023-11-20	Closed	24.0	Caribou	Caribou	120	190	Survey	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status.
2023-11-21	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	N		Road status was communicated to Stakeholders via email with observations
2023-11-22	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	N		Road status was communicated to Stakeholders via email with observations
2023-11-23	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	N		Recurrent Meeting - update on fuel and road status - road maintenance after blizzard to secure road conditions for monitoring
2023-11-24	Closed	24.0	Caribou	Caribou	220	130	Incidental	N/A	1	Y		Recurrent Meeting - update on fuel and road status - crew change convoy planning - pending observations. Request for tankers to join convoy made by Agnico.
2023-11-25	Closed	24.0	Caribou	Caribou	500	10	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call. No tanker allowed due to number of caribou groups observed.
2023-11-26	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road status was communicated to Stakeholders via email with observations & Closed for weather
2023-11-27	Closed	24.0	Caribou	Caribou	450	500	Incidental	N/A	1	Y		Recurrent Meeting - update on fuel and road status - crew change convoy planning - pending observations. Request for tankers to join convoy made by Agnico. Tankers approved to join convoys.

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-11-28	Closed	24.0	Caribou	Caribou	170	250	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status.
2023-11-29	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Recurrent Meeting - update on fuel and road status.
2023-11-30	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Recurrent Meeting - update on fuel and road status.
2023-12-01	Closed	24.0	Caribou	Caribou	190	2000	Incidental	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status.
2023-12-02	Closed	24.0	Caribou	Caribou	135	300	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status.
2023-12-03	Closed	24.0	Weather	Muskox	2	100	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status.
2023-12-04	Closed	24.0	Weather	Muskox	34	1000	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status.
2023-12-05	Closed (< 24 hour)	12.3	Caribou	Caribou	19	2000	Incidental	N/A	1	Y	Caribou below GST	Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status.
2023-12-06	Closed (< 24 hour)	11.7	Caribou	Caribou	200	200	Survey	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status.
2023-12-07	Closed	24.0	Caribou	Caribou	250	1000	Survey	N/A	1	N		Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status. Convoy to occur for crew change
2023-12-08	Closed (< 24 hour)	14.0	Caribou	Caribou	37	800	Survey	N/A	1	Y	Caribou below GST	Communication with Baker Lake HTO monitors regarding observation via radio call & Recurrent Meeting - update on fuel and road status. Road restricted to only road maintenance and Tankers
2023-12-09	Open	0.0	NA	Muskix	14	2000	Survey	N/A	1	Y		
2023-12-10	Open	0.0	NA	Caribou	27	900	Survey	N/A	1	Y		

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-Opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-12-11	Open	0.0	NA	Muskox	8	150	Survey	N/A	1	Y		
2023-12-12	Open	0.0	NA	Caribou	24	200	Survey	N/A	1	Y		
2023-12-13	Closed (< 24 hour)	13.3	Weather	N/A	N/A	N/A	Survey	N/A	1	Y		Road closed
2023-12-14	Closed	24.0	Weather	N/A	N/A	N/A	Survey	N/A	0	Y		Road closed
2023-12-15	Closed (< 24 hour)	16.8	Weather	Caribou	12	2000	Survey	N/A	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-12-16	Open	0.0	NA	Caribou	21	2000	Incidental	N/A	1	Y		
2023-12-17	Restricted Access	0.0	Caribou	Caribou	43	1000	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-12-18	Closed (< 24 hour)	12.5	Caribou	Caribou	187	800	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio
2023-12-19	Closed (< 24 hour)	12.0	Caribou	Caribou	34	800	Incidental	N/A	1	Y	Status changed to restricted	After discussion with the HTO monitors on the road, the road was re-open with restrictions to limited traffic.
2023-12-20	Closed (< 24 hour)	1.3	Caribou	Caribou	200	200	Survey	N/A	1	Y	Status changed to restricted	Communication with Baker Lake HTO monitors regarding observation via radio
2023-12-21	Closed (< 24 hour)	19.2	Weather	N/A	N/A	N/A	N/A	N/A	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-12-22	Restricted Access	0.0	Caribou	Caribou	78	750	Survey	N/A	1	Y		Communication with Baker Lake HTO monitors regarding observation via radio
2023-12-23	Closed (< 24 hour)	13.4	Caribou	Caribou	200	500	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-12-24	Closed	24.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road status was communicated to Stakeholders via email with observations
2023-12-25	Closed	24.0	Caribou	Caribou	250	1250	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-12-26	Closed (< 24 hour)	11.9	Caribou	Caribou	52	800	Survey	N/A	1	Y	Status changed to restricted	Road status was communicated to Stakeholders via email with observations
2023-12-27	Closed (< 24 hour)	22.0	Weather	N/A	N/A	N/A	N/A	N/A	0	Y		Road closed
2023-12-28	Closed (< 24 hour)	15.6	Caribou	Caribou	88	750	Survey	N/A	1	Y	Status changed to restricted	Road status was communicated to Stakeholders via email with observations
2023-12-29	Closed (< 24 hour)	6.5	Caribou	Caribou	200	1000	Survey	N/A	1	Y	Status changed to restricted	Road status was communicated to Stakeholders via email with observations
2023-12-30	Closed (< 24 hour)	10.2	Caribou	Caribou	200	750	Survey	N/A	1	Y		Road status was communicated to Stakeholders via email with observations
2023-12-31	Closed (< 24 hour)	12.3	Caribou	Caribou	50	2000	Survey	N/A	1	Y	Status changed to restricted	Road status was communicated to Stakeholders via email with observations

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-01-01	Speed Restriction	0.0	Muskox	Muskox	25	25	Incidental	0	0	Y		
2023-01-02	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-03	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-04	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-05	Speed Restriction	0.0	Muskox	Muskox	21	150	Survey	1	1	Y		
2023-01-06	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-07	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-08	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-09	Open	0.0	NA	Caribou	4	100	Survey	0	1	Y		
2023-01-10	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-11	Closed (< 24 hour)	15.5	Weather	N/A	N/A	N/A	Survey	0	1	Y		None - Road closed for weather conditions
2023-01-12	Closed (< 24 hour)	10.0	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-01-13	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-14	Open	0.0	NA	Muskox	12	300	Survey	0	1	Y		
2023-01-15	Closed (< 24 hour)	8.0	Weather	N/A	N/A	N/A	N/A	0	0	Y		Road closed
2023-01-16	Closed (< 24 hour)	14.7	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-01-17	Open	0.0	NA	Caribou	7	500	Incidental	0	0	Y		
2023-01-18	Closed (< 24 hour)	21.0	Weather	N/A	N/A	N/A	N/A	0	0	Y		Road closed
2023-01-19	Closed (< 24 hour)	3.2	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-01-20	Closed	24.0	Weather	N/A	N/A	N/A	N/A	0	0	Y		Road closed
2023-01-21	Closed (< 24 hour)	21.9	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-01-22	Speed Restriction	0.0	Muskox	Muskox	37	150	Incidental	0	1	Y		
2023-01-23	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-24	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-25	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-26	Open	0.0	NA	N/A	N/A	N/A	Survey / Viewshed	1	1	Y		
2023-01-27	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-28	Closed (< 24 hour)	18.0	Weather	N/A	N/A	N/A	N/A	0	0	Y		Road closed
2023-01-29	Closed (< 24 hour)	1.9	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-01-30	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-01-31	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	N		
2023-02-01	Open	0.0	NA	Muskox	9	29	Survey	1	1	Y		
2023-02-02	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-03	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-04	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-05	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-06	Open	0.0	NA	Muskox	5	1000	Survey	0	1	Y		
2023-02-07	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-08	Open	0.0	NA	Caribou	15	1500	Incidental	1	1	Y		
2023-02-09	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-10	Open	0.0	NA	Caribou	1	10	Incidental	0	0	Y		
2023-02-11	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-12	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-13	Open	0.0	NA	Caribou	6	1000	Viewshed	1	0	Y		
2023-02-14	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-15	Open	0.0	NA	N/A	N/A	N/A	Survey	0	1	Y		
2023-02-16	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-17	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-18	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-19	Open	0.0	NA	Caribou	1	1	Survey	0	1	Y		
2023-02-20	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-21	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-22	Open	0.0	NA	N/A	N/A	N/A	Survey / Viewshed	1	1	Y		
2023-02-23	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-24	Closed (< 24 hour)	5.2	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-02-25	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-02-26	Open	0.0	NA	Red Fox	1	400	Incidental	0	1	Y		
2023-02-27	Open	0.0	NA	N/A	N/A	N/A	Survey	0	1	Y		
2023-02-28	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-01	Open	0.0	NA	N/A	N/A	N/A	Survey / Viewshed	1	1	Y		
2023-03-02	Speed Restriction	0.0	Muskox	Muskox	28	2000	Survey	0	1	Y		
2023-03-03	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-04	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-05	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-03-06	Speed Restriction	0.0	Muskox	Muskox	22	80	Survey	0	1	Y		
2023-03-07	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-08	Closed (< 24 hour)	4.0	Weather	Muskox	14	100	Viewshed	1	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-03-09	Speed Restriction	0.0	Muskox	Muskox	20	50	Survey	0	1	Y		
2023-03-10	Speed Restriction	0.0	Muskox	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-11	Speed Restriction	0.0	Muskox	Muskox	21	800	Survey	0	1	Y		
2023-03-12	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-13	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-14	Speed Restriction	0.0	Muskox	Muskox	21	60	Survey	0	1	Y		
2023-03-15	Speed Restriction	0.0	Muskox	Muskox	25	25	Survey	1	1	Y		
2023-03-16	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-17	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-18	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-19	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-20	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-21	Open	0.0	NA	N/A	N/A	N/A	Viewshed	1	0	Y		
2023-03-22	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-23	Open	0.0	NA	N/A	N/A	N/A	Survey	0	1	Y		
2023-03-24	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-25	Open	0.0	NA	Common Raven	1	50	Survey	0	1	Y		
2023-03-26	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-03-27	Speed Restriction	0.0	Caribou	Caribou	30	150	Survey	0	1	Y		
2023-03-28	Speed Restriction	0.0	Caribou	Caribou	2	50	Incidental	0	1	Y		
2023-03-29	Open	0.0	NA	N/A	N/A	N/A	Survey	0	1	Y		
2023-03-30	Speed Restriction	0.0	Caribou	Caribou	25	500	Incidental	0	1	Y		
2023-03-31	Closed (< 24 hour)	10.5	Caribou	Caribou	200	600	Incidental	0	1	Y		Road Closed
2023-04-01	Closed	24.0	Caribou	Caribou	400	150	Incidental	0	1	Y		Road Closed
2023-04-02	Closed	24.0	Caribou	Caribou	187	0	Incidental	0	1	Y		Road Closed
2023-04-03	Closed (< 24 hour)	13.7	Caribou	Caribou	500	500	Survey	0	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-04-04	Open	0.0	NA	N/A	N/A	N/A	Survey	0	1	Y		
2023-04-05	Open	0.0	NA	Caribou	2	600	Survey	1	1	Y		
2023-04-06	Open	0.0	NA	MuskOx	10	2000	Survey	0	1	Y		
2023-04-07	Closed (< 24 hour)	8.3	Caribou	Caribou	160	200	Incidental	1	1	Y		Road Closed
2023-04-08	Closed (< 24 hour)	20.0	Caribou	Caribou	120	200	Survey	0	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-04-09	Closed (< 24 hour)	14.2	Caribou	Caribou	130	200	Survey	0	1	Y		Road Closed
2023-04-10	Closed	24.0	Caribou	Caribou	250	200	Survey	1	1	N		Road Closed
2023-04-11	Closed	24.0	Caribou	Caribou	340	500	Incidental	0	1	Y		Road Closed
2023-04-12	Closed	24.0	Caribou	Caribou	500	50	Survey	1	1	Y		Road Closed
2023-04-13	Closed	24.0	Caribou	Caribou	204	700	Incidental	0	1	Y		Road Closed
2023-04-14	Closed	24.0	Caribou	Caribou	532	0	Incidental	0	1	Y		Road Closed
2023-04-15	Closed	24.0	Caribou	Caribou	450	0	Survey	0	2	Y		Road Closed
2023-04-16	Closed	24.0	Caribou	Caribou	365	100	Survey	0	2	Y		Road Closed
2023-04-17	Closed	24.0	Caribou	Caribou	117	50	Survey	1	1	Y		Road Closed
2023-04-18	Closed (< 24 hour)	22.0	Caribou	Caribou	102	500	Survey	0	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-04-19	Speed Restriction	0.0	Caribou	Caribou	32	4000	Survey	1	1	Y		
2023-04-20	Open	0.0	NA	Caribou	5	400	Survey	0	1	Y		
2023-04-21	Speed Restriction	0.0	Caribou	Caribou	14	500	Incidental	1	1	Y		
2023-04-22	Closed (< 24 hour)	12.2	Caribou	Caribou	167	300	Survey	0	1	Y		Road Closed
2023-04-23	Closed	24.0	Caribou	Caribou	>600	20	Viewshed	1	1	Y		Road Closed
2023-04-24	Closed	24.0	Caribou	Caribou	880	0	Survey	0	1	Y		Road Closed
2023-04-25	Closed	24.0	Caribou	Caribou	500+	20	Incidental	0	1	Y		Road Closed
2023-04-26	Closed	24.0	Caribou	Caribou	165	80	Survey	0	1	Y		Road Closed
2023-04-27	Closed	24.0	Caribou	Caribou	310	0	Survey	1	1	Y		Road Closed
2023-04-28	Closed	24.0	Caribou	Caribou	246	300	Survey	0	1	Y		Road Closed
2023-04-29	Closed	24.0	Caribou	Caribou	317	400	Survey	1	1	Y		Road Closed
2023-04-30	Closed	24.0	Caribou	Caribou	102	0	Survey	0	1	Y		Road Closed
2023-05-01	Closed	24.0	Caribou	Caribou	370	1	Survey	0	1	Y		Road Closed
2023-05-02	Closed	24.0	Caribou	Caribou	75	600	Survey	0	1	Y		Road Closed
2023-05-03	Closed	24.0	Caribou	Caribou	120	600	Survey	0	1	Y		Road Closed
2023-05-04	Closed	24.0	Caribou	Caribou	50	50	Survey	0	1	Y		Road Closed
2023-05-05	Closed	24.0	Caribou	Caribou	46	350	Survey	0	1	Y		Road Closed

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-05-06	Closed	24.0	Caribou	Caribou	120	350	Incidental	0	1	Y		Road Closed
2023-05-07	Closed	24.0	Caribou	Caribou	131	290	Survey	0	1	Y		Road Closed
2023-05-08	Closed (< 24 hour)	17.0	Caribou	Caribou	50	1500	Survey	0	1	Y	Caribou below GST	Discussion with Baker Lake HTO road monitors at 17:00 when no groups were observed above the GST. Concensus was the road was opened with speed restrictions of 20km/hr and no road maintenance in areas where caribou were observed/are present
2023-05-09	Closed (< 24 hour)	10.0	Caribou	Caribou	152	130	Survey	0	1	Y		Road Closed
2023-05-10	Closed	24.0	Caribou	Caribou	71	560	Survey	0	1	Y		Road Closed
2023-05-11	Closed	24.0	Caribou	Caribou	107	100	Survey	0	1	Y		Road Closed
2023-05-12	Closed	24.0	Caribou	Caribou	75	500	Survey	1	1	Y		Road Closed
2023-05-13	Closed	24.0	Caribou	Caribou	55	500	Survey	0	1	Y		Road Closed
2023-05-14	Closed (< 24 hour)	7.0	Caribou	Caribou	32	400	Survey	0	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-05-15	Closed (< 24 hour)	1.0	Caribou	Caribou	54	0	Incidental	1	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-05-16	Open	0.0	NA	Caribou	29	450	Survey	0	1	Y		
2023-05-17	Closed (< 24 hour)	1.5	Caribou	Caribou	59	200	Incidental	0	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-05-18	Open	0.0	NA	Caribou	20	100	Survey	1	1	Y		
2023-05-19	Closed (< 24 hour)	2.0	Caribou	Caribou	38	500	Incidental	0	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-05-20	Open	0.0	NA	Caribou	4	300	Incidental	0	1	Y		
2023-05-21	Open	0.0	NA	Caribou	10	250	Survey	0	1	Y		
2023-05-22	Closed (< 24 hour)	3.0	Caribou	Caribou	47	400	Incidental	1	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-05-23	Speed Restriction	0.0	Caribou	Caribou	30	400	Incidental	0	1	Y		
2023-05-24	Open	0.0	NA	Caribou	23	900	Survey	0	1	Y		
2023-05-25	Open	0.0	NA	Caribou	26	200	Survey	1	1	Y		
2023-05-26	Closed (< 24 hour)	1.8	Emergency	Caribou	19	350	survey	0	1	Y	Code 1 Stand Down	None - Emergency (Code 1)
2023-05-27	Open	0.0	NA	Caribou	15	75	Survey	0	1	Y		
2023-05-28	Open	0.0	NA	Caribou	12	500	Survey	0	1	Y		
2023-05-29	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-05-30	Open	0.0	NA	Caribou	7	800	Survey	0	1	Y		
2023-05-31	Open	0.0	NA	Caribou	10	500	Survey	1	1	Y		
2023-06-01	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-02	Speed Restriction	0.0	Caribou	Caribou	30	250	Survey	0	1	Y		
2023-06-03	Closed (< 24 hour)	4.7	Weather	Caribou	20	1100	Survey	1	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-06-04	Open	0.0	NA	Caribou	3	300	Incidental	0	0	Y		
2023-06-05	Open	0.0	NA	Caribou	16	100	Incidental	0	0	Y		
2023-06-06	Open	0.0	NA	Caribou	16	100	Survey	0	1	Y		
2023-06-07	Open	0.0	NA	Caribou	16	1000	Incidental	0	0	Y		
2023-06-08	Open	0.0	NA	Caribou	9	400	Incidental	0	0	Y		
2023-06-09	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-10	Open	0.0	NA	Caribou	12	500	Survey	0	1	Y		
2023-06-11	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-12	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-13	Open	0.0	NA	Caribou	18	75	Survey	0	1	Y		
2023-06-14	Open	0.0	NA	Caribou	18	200	Survey	0	1	Y		
2023-06-15	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-16	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-17	Open	0.0	NA	Caribou	16	100	Incidental	0	0	Y		
2023-06-18	Open	0.0	NA	Caribou	N/A	N/A	N/A	0	0	Y		
2023-06-19	Open	0.0	NA	Caribou	7	700	Survey	0	1	Y		
2023-06-20	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-06-21	Speed Restriction	0.0	Caribou	Caribou	23	200	Survey	0	1	Y		
2023-06-22	Speed Restriction	0.0	Caribou	Caribou	23	100	Survey	1	1	Y		
2023-06-23	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-24	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-25	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-26	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-27	Speed Restriction	0.0	Muskox	Muskox	9	0	Survey	1	1	Y		
2023-06-28	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-29	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-06-30	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-01	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-02	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-03	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-04	Open	0.0	NA	Muskox	1	50	Survey	1	1	Y		
2023-07-05	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-06	Speed Restriction	0.0	Muskox	Muskox	16	500	Survey	0	1	Y		
2023-07-07	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-08	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-09	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-10	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-11	Open	0.0	NA	MuskOx	14	2000	Viewshed	1	1	Y		
2023-07-12	Closed (< 24 hour)	11.0	Weather	N/A	N/A	N/A	N/A	0	0	Y		Road Closed
2023-07-13	Closed (< 24 hour)	8.0	Weather	Wolf	1	0	Incidental	0	0	Y	Weather Improvement	None - Road closed for road conditions/weather
2023-07-14	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-15	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-16	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-17	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-18	Open	0.0	NA	MuskOx	1	25	Survey	0	1	Y		
2023-07-19	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-20	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-21	Open	0.0	NA	MuskOx	1	250	Viewshed	1	0	Y		
2023-07-22	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-23	Open	0.0	NA	Wolf	1	100	Incidental	0	0	Y		
2023-07-24	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-25	Open	0.0	NA	Wolf	1	0	Incidental	1	1	Y		
2023-07-26	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-27	Open	0.0	NA	Caribou	1	50	Incidental	0	0	Y		
2023-07-28	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-29	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-30	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-07-31	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-08-01	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-08-02	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-08-03	Open	0.0	NA	Muskox	1	100	Viewshed	1	0	Y		
2023-08-04	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-08-05	Open	0.0	NA	Muskox	23	2000	Incidental	0	1	Y		
2023-08-06	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-08-07	Open	0.0	NA	Muskox	9	500	Survey	0	1	Y		
2023-08-08	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-08-09	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-08-10	Open	0.0	NA	Muskox	3	1200	Viewshed	1	0	Y		
2023-08-11	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-08-12	Open	0.0	NA	Caribou	3	2000	Survey	0	1	Y		
2023-08-13	Closed (< 24 hour)	13.8	Caribou	Caribou	120	0	Road	0	1	Y		Road status was communicated to Stakeholders via email with observations
2023-08-14	Closed	24.0	Caribou	Caribou	63	300	Survey	0	1	Y		Road Closed
2023-08-15	Closed	24.0	Caribou	Caribou	90	400	Survey	0	1	Y		Road Closed
2023-08-16	Closed	24.0	Caribou	Caribou	70	500	Survey	0	1	Y		Road Closed
2023-08-17	Closed (< 24 hour)	17.3	Caribou	Caribou	16	200	Survey	0	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-08-18	Closed (< 24 hour)	19.0	Caribou	caribou	200	90	survey	0	1	Y		Road Closed
2023-08-19	Closed (< 24 hour)	15.5	Caribou	Caribou	29	30	Survey	1	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-08-20	Speed Restriction	0.0	Muskox	Muskox	14	50	Incidental	0	1	Y		

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-08-21	Closed (< 24 hour)	1.0	Caribou	Caribou	29	400	survey	0	2	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-08-22	Closed (< 24 hour)	1.0	Caribou	Caribou	40	10	Survey	0	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-08-23	Speed Restriction	0.0	Caribou	Caribou	17	500	Survey	0	1	Y		
2023-08-24	Open	0.0	NA	Caribou	15	200	Incidental	1	1	Y		
2023-08-25	Closed (< 24 hour)	8.1	Weather	Caribou	14	50	Incidental	0	1	Y		
2023-08-26	Closed (< 24 hour)	6.0	Weather	Caribou	28	50	Survey	0	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-08-27	Open	0.0	NA	Caribou	15	120	Survey	0	1	Y		
2023-08-28	Speed Restriction	0.0	Muskox	Muskox	16	500	Survey	0	1	Y		
2023-08-29	Speed Restriction	0.0	Muskox	Muskox	16	300	Survey	0	1	Y		
2023-08-30	Speed Restriction	0.0	Muskox	Muskox	18	100	Survey	0	1	Y		
2023-08-31	Speed Restriction	0.0	Muskox	Muskox	13	1000	Survey	1	1	Y		
2023-09-01	Speed Restriction	0.0	Muskox	Muskox	19	0	Survey	0	1	Y		
2023-09-02	Open	0.0	NA	Caribou	6	150	Survey	0	1	Y		
2023-09-03	Open	0.0	NA	Caribou	24	0	Incidental	0	1	Y		
2023-09-04	Open	0.0	NA	Muskox	12	5	Survey	0	1	Y		
2023-09-05	Open	0.0	NA	Muskox	16	600	Survey	0	1	Y		
2023-09-06	Speed Restriction	0.0	Muskox	Muskox	14	10	Survey	0	1	Y		
2023-09-07	Speed Restriction	0.0	Muskox	Muskox	21	2	survey	1	1	Y		
2023-09-08	Open	0.0	NA	Caribou	25	25	Survey	0	1	Y		
2023-09-09	Speed Restriction	0.0	Caribou	Caribou	35	400	Incidental	0	1	Y		
2023-09-10	Closed (< 24 hour)	0.3	Muskox	Muskox	17	10	Survey	0	1	Y	Muskox Moved	N/A
2023-09-11	Open	0.0	NA	Caribou	4	1	Survey	0	1	Y		
2023-09-12	Open	0.0	NA	Muskox	9	25	Survey	0	1	Y		
2023-09-13	Speed Restriction	0.0	Muskox	Muskox	20	300	Survey	0	1	Y		
2023-09-14	Open	0.0	NA	Muskox	10	200	Survey	1	1	Y		
2023-09-15	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-09-16	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-09-17	Speed Restriction	0.0	Muskox	Muskox	14	200	Survey	0	1	Y		
2023-09-18	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-09-19	Speed Restriction	0.0	Muskox	Muskox	23	300	Survey	0	1	Y		
2023-09-20	Closed (< 24 hour)	5.0	Weather	Caribou	3	50	Survey	1	1	Y	Weather Improvement	
2023-09-21	Closed (< 24 hour)	9.3	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-09-22	Open	0.0	NA	Caribou	12	50	Survey	0	1	Y		
2023-09-23	Speed Restriction	0.0	Muskox	Muskox	16	40	Survey	0	1	Y		
2023-09-24	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-09-25	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-09-26	Open	0.0	NA	Muskox	10	750	Road	1	1	Y		
2023-09-27	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-09-28	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-09-29	Open	0.0	NA	Muskox	8	100	Survey	0	1	Y		
2023-09-30	Open	0.0	NA	Muskox	7	10	Survey	1	1	Y		
2023-10-01	Speed Restriction	0.0	Muskox	Muskox	19	5	Incidental	0	1	Y		
2023-10-02	Open	0.0	NA	Caribou	7	250	Viewshed	1	0	Y		
2023-10-03	Speed Restriction	0.0	Muskox	Muskox	16	250	Survey	0	1	Y		
2023-10-04	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-10-05	Open	0.0	NA	Caribou	2	400	Survey	1	1	Y		
2023-10-06	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-10-07	Speed Restriction	0.0	Muskox	Muskox	24	5	Incidental	1	1	Y		
2023-10-08	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-10-09	Open	0.0	NA	Caribou	31	500	Survey	1	1	Y		
2023-10-10	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-10-11	Open	0.0	NA	Caribou	6	800	Viewshed	1	1	Y		
2023-10-12	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-10-13	Closed (< 24 hour)	2.0	Weather	muskox	23	20	Incidental	1	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-10-14	Closed (< 24 hour)	1.5	Weather	Muskox	16	5	Survey	1	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-10-15	Closed (< 24 hour)	2.2	Weather	Caribou	5	75	Incidental	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-10-16	Closed (< 24 hour)	19.4	Weather	muskox	2	10	survey	1	1	Y	Weather Improvement	Road Closed
2023-10-17	Closed (< 24 hour)	0.7	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather improvement	None - Road closed for weather conditions
2023-10-18	Speed Restriction	0.0	Muskox	Muskox	3	5	Survey	1	1	Y		

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Observed	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-10-19	Closed (< 24 hour)	8.1	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather improvement	None - Road closed for weather conditions
2023-10-20	Open	0.0	NA	muskox	7	30	Survey	1	1	Y		
2023-10-21	Open	0.0	NA	Caribou	9	750	Survey	0	1	Y		
2023-10-22	Open	0.0	NA	Caribou	8	150	Survey	1	1	Y		
2023-10-23	Open	0.0	NA	muskox	9	100	Incidental	0	1	Y		
2023-10-24	Open	0.0	NA	caribou	15	100	Incidental	1	1	Y		
2023-10-25	Open	0.0	NA	muskox	3	100	Survey	0	1	Y		
2023-10-26	Closed (< 24 hour)	14.0	Caribou	Caribou	200	100	Incidental	1	1	Y		Road Closed
2023-10-27	Closed	24.0	Caribou	Caribou	200	50	Incidental	0	1	Y		Road Closed
2023-10-28	Closed (< 24 hour)	16.3	Caribou	Caribou	400	150	Survey	1	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-10-29	Speed Restriction	0.0	Caribou/Muskox	Muskox	23	500	Incidental	0	1	Y		
2023-10-30	Speed Restriction	0.0	Caribou/Muskox	Muskox	26	100	Survey	1	1	Y		
2023-10-31	Closed (< 24 hour)	3.6	Weather	N/A	N/A	N/A	N/A	0	1	Y	Weather Improvement	Road closed
2023-11-01	Closed (< 24 hour)	5.5	Caribou	Caribou	105	500	Survey	1	1	Y	Caribou below GST	Road status was communicated to Stakeholders via email with observations
2023-11-02	Closed (< 24 hour)	10.2	Weather	Muskox	7	100	Survey	0	1	Y		Road closed
2023-11-03	Closed (< 24 hour)	0.4	Weather	Muskox	18	50	Survey	1	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-11-04	Open	0.0	NA	Muskox	7	50	Incidental	1	1	Y		
2023-11-05	Speed Restriction	0.0	Muskox	Muskox	10	156	Survey	1	1	Y		
2023-11-06	Speed Restriction	0.0	Muskox	Muskox	21	500	Survey	1	1	Y		
2023-11-07	Open	0.0	NA	Muskox	7	200	Survey	1	1	Y		
2023-11-08	Speed Restriction	0.0	Muskox	Muskox	7	500	Survey	1	1	Y		
2023-11-09	Open	0.0	NA	Muskox	7	2000	Survey	1	1	Y		
2023-11-10	Open	0.0	NA	Muskox	6	500	Survey	1	1	Y		
2023-11-11	Speed Restriction	0.0	Muskox	Muskox	7	200	Survey	1	1	Y		
2023-11-12	Speed Restriction	0.0	Muskox	Muskox	7	20	Survey	0	1	Y		
2023-11-13	Speed Restriction	0.0	Muskox	Muskox	19	1000	Survey	1	1	Y		
2023-11-14	Speed Restriction	0.0	Muskox	caribou	30	50	Incidental	0	1	Y		
2023-11-15	Open	0.0	NA	MuskOx	2	800	survey	0	1	Y		
2023-11-16	Open	0.0	NA	MuskOx	3	150	survey	1	1	Y		
2023-11-17	Open	0.0	NA	N/A	N/A	N/A	Survey	0	1	Y		
2023-11-18	Open	0.0	NA	Muskox	5	100	Incidental	1	1	Y		
2023-11-19	Open	0.0	NA	Muskox	4	30	Incidental	0	1	Y		
2023-11-20	Closed (< 24 hour)	11.4	Weather	Muskox	4	100	Incidental	1	1	Y		Road closed
2023-11-21	Closed	24.0	Weather	N/A	N/A	N/A	N/A	0	0	Y		Road closed
2023-11-22	Closed	24.0	Weather	N/A	N/A	N/A	N/A	0	0	Y		Road closed
2023-11-23	Closed (< 24 hour)	7.5	Weather	Muskox	14	100	Incidental	0	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-11-24	Speed Restriction	0.0	Muskox	Muskox	22	700	Incidental	0	1	Y		
2023-11-25	Closed (< 24 hour)	4.8	Weather	N/A	N/A	N/A	Survey / Viewshed	1	1	Y		Road closed
2023-11-26	Closed (< 24 hour)	9.0	Weather	Muskox	19	25	Incidental	0	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-11-27	Speed Restriction	0.0	Muskox	Muskox	19	200	Viewshed	1	1	Y		
2023-11-28	Open	0.0	NA	Muskox	4	1500	Survey	0	1	Y		
2023-11-29	Closed (< 24 hour)	20.9	Weather	N/A	N/A	N/A	N/A	0	0	Y		Road closed
2023-11-30	Closed (< 24 hour)	17.2	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-12-01	Open	0.0	NA	N/A	N/A	N/A	Survey / Viewshed	1	1	Y		
2023-12-02	Open	0.0	NA	Caribou	15	200	Incidental	1	1	Y		
2023-12-03	Open	0.0	NA	N/A	N/A	N/A	Survey	0	1	Y		
2023-12-04	Open	0.0	NA	N/A	N/A	N/A	Survey / Viewshed	1	1	Y		
2023-12-05	Speed Restriction	0.0	Muskox	Muskox	29	70	Survey	0	1	Y		
2023-12-06	Speed Restriction	0.0	Muskox	Muskox	20	50	Viewshed	1	1	Y		
2023-12-07	Speed Restriction	0.0	Muskox	Muskox	25	20	Incidental	0	1	Y		
2023-12-08	Speed Restriction	0.0	Caribou	Caribou	12	200	Incidental	1	1	Y		
2023-12-09	Speed Restriction	0.0	Muskox	Muskox	30	100	Survey	0	1	Y		
2023-12-10	Speed Restriction	0.0	Muskox	Muskox	28	20	Survey	1	1	Y		
2023-12-11	Open	0.0	NA	N/A	N/A	N/A	Survey	0	1	Y		
2023-12-12	Speed Restriction	0.0	Muskox	Muskox	17	20	Incidental	1	1	Y		
2023-12-13	Closed (< 24 hour)	13.3	Weather	Muskox	17	100	Survey	0	1	Y		Road closed
2023-12-14	Closed	24.0	Weather	N/A	N/A	N/A	N/A	0	0	Y		Road closed
2023-12-15	Closed (< 24 hour)	7.5	Weather	Muskox	23	200	survey	0	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-12-16	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		

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, 2023

Date	Closure Status	Closure Hours	Cause for Closure	Wildlife Obseved	Number of Individuals Observed	Distance from Road	Monitoring Method	Monitoring Conducted			Reason for Re-opening	Consultation for Re-opening
								Viewshed Surveys	Road Surveys	Collaring Data Reviewed		
2023-12-17	Open	0.0	NA	N/A	N/A	N/A	Survey / Viewshed	1	1	Y		
2023-12-18	Speed Restriction	0.0	Muskox	Muskox	17	50	Incidental	0	1	Y		
2023-12-19	Speed Restriction	0.0	Muskox	Muskox	17	100	Survey	1	1	Y		
2023-12-20	Open	0.0	NA	Arctic Fox	1	20	Incidental	0	1	Y		
2023-12-21	Closed (< 24 hour)	9.5	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-12-22	Open	0.0	NA	Caribou	1	400	Survey	0	1	Y		
2023-12-23	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-12-24	Closed (< 24 hour)	12.5	Weather	N/A	N/A	N/A	N/A	0	0	Y	Weather Improvement	None - Road closed for weather conditions
2023-12-25	Speed Restriction	0.0	Muskox	Muskox	18	2500	Viewshed	1	1	Y		
2023-12-26	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-12-27	Closed (< 24 hour)	20.9	Weather	N/A	N/A	N/A	N/A	0	0	Y		Road closed
2023-12-28	Closed (< 24 hour)	9.5	Weather	Muskox	5	250	Survey	1	1	Y	Weather Improvement	None - Road closed for weather conditions
2023-12-29	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-12-30	Open	0.0	NA	Muskox	5	500	Viewshed	1	1	Y		
2023-12-31	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		
2023-12-31	Open	0.0	NA	N/A	N/A	N/A	N/A	0	0	Y		

APPENDIX C

Wildlife Mortalities

Wildlife Incident Report Form

Date:	2023-01-19	Time:	6:30
Individuals involved:	Louis Dubois		
	Derek Nateela		
Species:	Wolverine		
Number, gender, age:	1, Male		
Location (description):	Incinerator		
Location (UTM):	N 65°00'56.4" S 96°04'02.8"		
Digital photo numbers:	Photo 1	Photo 2	Photo 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>On January 19, 2023 - Environment started performing a wildlife survey around the site at 6h00. At 6h25, fresh wolverine tracks were observed near the incinerator. Environment patrolled the area on foot and observed the wolverine at the northwest corner of the incinerator building.</p> <p>In previous days, the wolverine was observed numerous times near the incinerator, assay lab, core shacks and at the landfill. Attempts to deter the wolverine away from the site were unsuccessful as the wolverine had become habituated to the site.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>Frequent reports/observations of the wolverine continued between January 01 and January 18, 2023.</p> <p>Two 12 g slugs were used to dispatch the Wolverine.</p>			
Describe any communication with GN-DOE:			
<p>Environment department provided GN-DOE the wildlife reports regarding our monitoring and deterring efforts related to the Wolverine observations.</p> <p>On January 16th 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 brought to the GN office in Baker Lake on 2023-01-19 by HTO.</p>			
What measures are recommended to prevent future occurrences?			
<p>A general reminder to all site personnel regarding food waste, cigarette butts, proper waste segregation, closing sea ca doors, and ensuring work areas are clean to avoid attracting wildlife on the site.</p>			
Report prepared by:	Louis Dubois	Reviewed by:	Tom Thomson

Photo 1



Photo 2



Wildlife Incident Report Form

Date:	2023-01-25	Time:	5:45	
Individuals involved:	Louis Dubois			
	Samuel Tapp			
Species:	Wolf			
Number, gender, age:	1, Female			
Location (description):	Incinerator			
Location (UTM):	N 65°00'56.4" S 96°04'02.8"			
Digital photo numbers:	Photo 1	Photo 2	Photo 3	Photo 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>On January 25, 2023 - Environment started performing a wildlife survey around the site at 5h00. At 5h45, a wolf was observed near the incinerator.</p> <p>In previous weeks, the wolf was observed numerous times near the incinerator, winter parking, fountain tire shop, cat dome, maintenance shop and at the landfill. Attempts to deter the wolf away from the site were unsuccessful as the wolf had become habituated to the site and several close encounters with employee were reported.</p>				
Describe any use of wildlife deterrents: Describe any wildlife mortality:				
<p>Previously rubber slugs were used as a deterrent but has been proven to be unsuccessful. One .223 bullet was used to dispatch the Wolf at the incinerator.</p>				
Describe any communication with GN-DOE:				
<p>On January 22nd, environment department provided GN-DOE the wildlife reports regarding our monitoring and deterring efforts related to the wolf observations.</p> <p>On January 22nd 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 Wolf carcass will be picked up and brought to the GN office in Baker Lake on January 25th by HTO.</p>				
What measures are recommended to prevent future occurrences?				
<p>A general reminder to all site personnel and toolbox meetings regarding food waste, cigarette butts, proper waste segregation, closing sea can doors, and ensuring work areas are clean to avoid attracting wildlife on the site was enforce.</p>				
Report prepared by:	Louis Dubois	Reviewed by:	Samuel Tapp	

Photo 1



Photo 2



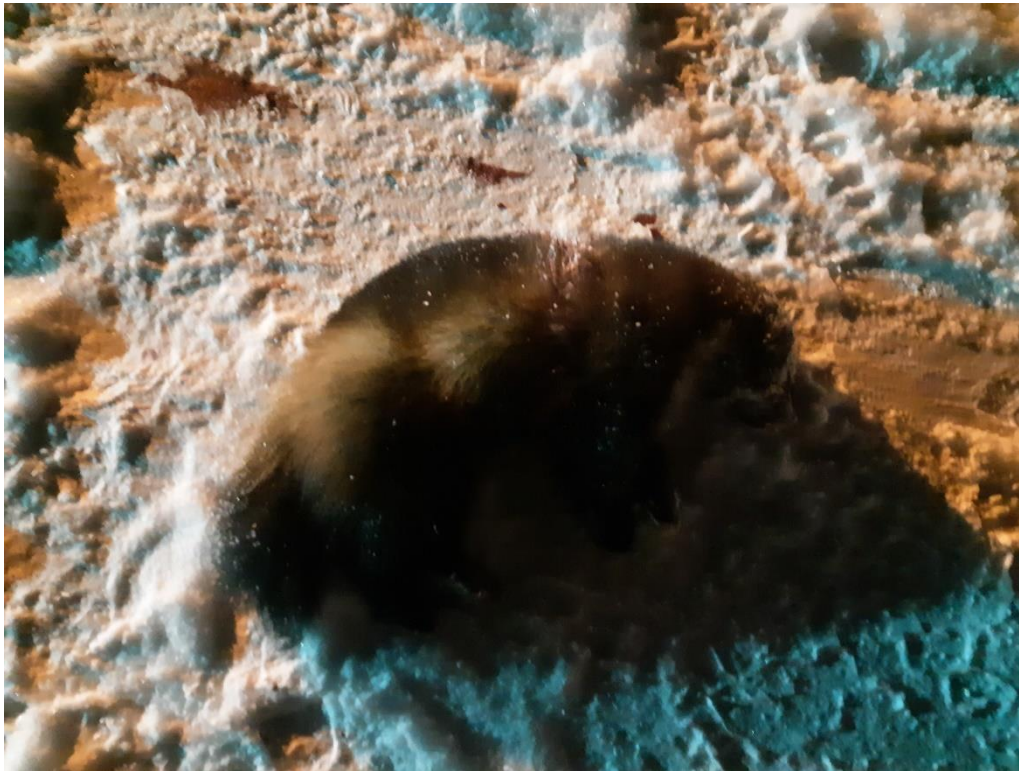
Photo 3



Photo 4



Photo 3



Wildlife Incident Report Form

Date:	2023-0-2-04	Time:	07:15
Individuals involved:	Tom Thomson		
	Derek Nateela		
Species:	Wolf		
Number, gender, age:	Adult Male		
Location (description):	Meadowbank Landfill		
Location (UTM):	14W 0638643 7215504		
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>On February 3, 2023 at 18:15 Environment responded to a report of a wolf observation near the front desk at Meadowbank. Environment patrolled the area without observation. On February 4, 2023 at 6:30am, Environment responded to a report of a wolf observation near the incinerator. Environment patrolled the area without observation. At 7:10 the wolf was observed by Environment at the landfill.</p> <p>Previous attempts to deter the wolf away from the site were unsuccessful as the wolf had become habituated to the site and several close encounters with employees were reported.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>AEM Environment approached the wolf via pick-up truck. At 7:15 from approximately 25m away from the wolf, one 12g slug was fired. The wolf was hit with the slug but began to slowly move away and a second 12g slug was fired.</p> <p>AEM monitored the area, waiting for daylight. At 8:30 – AEM Environment picked up a faint blood trail and followed it to East side of the landfill. The wolf was observed moving his head but in area where shooting access was limited. 4 Bangers were fired to encourage the wolf to move into an open area but failed. One .223 bullet was fired to ensure the animal was dispatched.</p>			
Describe any communication with GN-DOE:			
<p>GN Conservation officer provided a wildlife destruction permit for the problematic wolves on January 22, 2023.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>AEM Environment restricted vehicles from entering the landfill until the animal was dispatched.</p> <p>The carcass was picked up and will be delivered to the GN office in Baker Lake during the week of February 5th, 2023.</p>			
What measures are recommended to prevent future occurrences?			
<p>A general reminder to all site personnel regarding food waste, cigarette butts, proper waste segregation, closing sea can doors, and ensuring work areas are clean to avoid attracting wildlife on the site was sent via the daily communicator and through tool boxes.</p>			



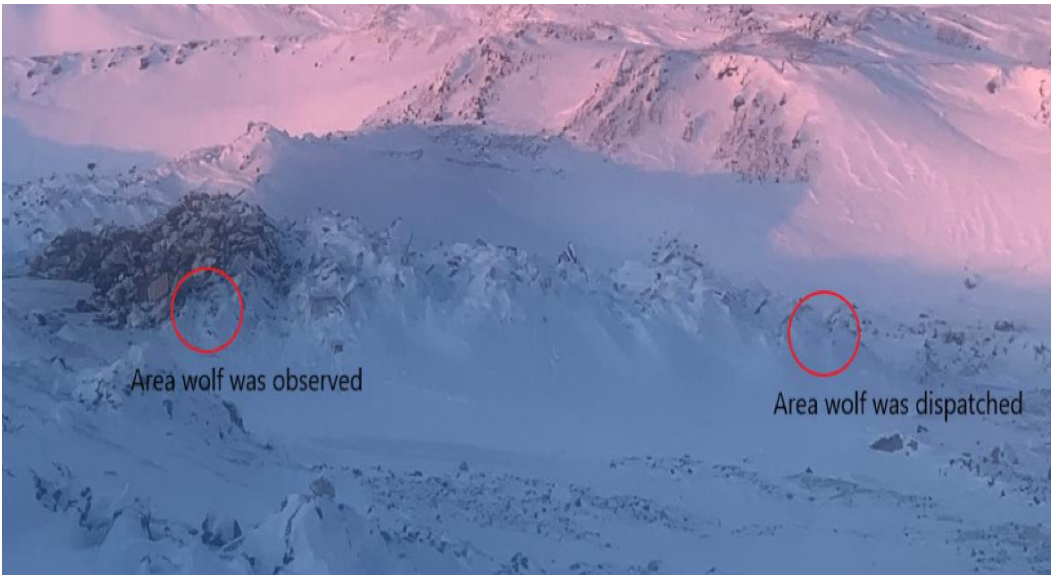
2023-02-04 (1)



2023-02-04 (2)



2023-02-04 (3)



2023-02-04 (4)

Report prepared by:	Tom Thomson	Reviewed by:	
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Wildlife Incident Report Form

Date:	2023-02-05	Time:	13:15
Individuals involved:	Tom Thomson		
	Derek Nateela		
	Felix Quessy Savard		
Species:	Wolverine		
Number, gender, age:	Male		
Location (description):	Meadowbank Landfill		
Location (UTM):	14W 0638579 7215599		
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>On February 6, 2023 at 13:00 during a routine inspection, Environment observed a wolverine at the Meadowbank landfill. Environment had responded to a report of a wolverine near the incinerator earlier in the day, but the animal was not observed.</p> <p>Previous attempts to deter the wolverine away from the site were unsuccessful as the animal had become habituated to the site and several close encounters with employees were reported.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>AEM Environment was parked near the entrance to the Meadowbank landfill. As the AEM pick up truck entered the landfill area, the wolverine began to run North towards the waste rock pile. The wolverine stopped at the crest of a berm and at 13:15 from approximately 150m away from the wolverine was dispatched with a .223 bullet.</p> <p>.</p>			
Describe any communication with GN-DOE:			
<p>GN Conservation officer provided a wildlife destruction permit for the problematic wolverines on January 16, 2023.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>The carcass was picked up and will be delivered to the GN office in Baker Lake during the week of February 5th, 2023.</p>			
What measures are recommended to prevent future occurrences?			
<p>A general reminder to all site personnel regarding food waste, cigarette butts, proper waste segregation, closing sea can doors, and ensuring work areas are clean to avoid attracting wildlife on the site was sent via the daily communicator and through tool boxes.</p>			



2023-02-05 (1)



2023-02-05 (2)



2023-02-05 (3)

Report prepared by:	Tom Thomson	Reviewed by:	
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Wildlife Incident Report Form

Date:	2023-03-07	Time:	15:10
Individuals involved:	Tom Thomson	Derek Nateela	Felix Quessy-Savard
Species:	Wolf		
Number, gender, age:	Adult Male		
Location (description):	Meadowbank Landfill		
Location (UTM):	14W 0638557 7215575		
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>On March 7, 2023, at 14:30 a wolf was reported between the South Cell tailings area and the Meadowbank landfill. Environment responded to the call and observed the wolf lie down on top of a berm at the edge of the road. Environment workers attempted to deter the wolf away with the horn of the pick-up. The wolf did not respond at first but slowly moved towards the East side of the landfill and laid down.</p> <p>Previous attempts to deter the wolf away from the site were unsuccessful as the wolf had become habituated to the site and several close encounters with employees were reported.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>AEM Environment approached the landfill via pick-up truck. As the Environment workers moved away from the vehicle, the wolf began to walk North and away from them. At 15:10 from approximately 75m away from the wolf, a .223 rifle bullet was fired. The wolf was hit near the hind quarter but slowly got up. A second .223 bullet was fired from the same location and dispatched the animal.</p>			
Describe any communication with GN-DOE:			
<p>GN Conservation officer provided a wildlife destruction permit for the problematic wolves on January 22, 2023.</p> <p>At 16:30 AEM Environment advised GN Conservation officers via phone.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>AEM Environment restricted vehicles from entering the landfill until the animal was dispatched.</p> <p>The carcass was picked up and will be delivered to the GN office in Baker Lake during the week of March 5th, 2023.</p>			
What measures are recommended to prevent future occurrences?			
<p>A general reminder to all site personnel regarding food waste, cigarette butts, proper waste segregation, closing sea can doors, and ensuring work areas are clean to avoid attracting wildlife on the site was sent via the daily communicator and through tool boxes.</p>			

Wildlife Incident Report Form

Date:	2023-03-10	Time:	13:35
Individuals involved:	Louis Dubois	Wammy Kreelak	Felix Tutanuq
Species:	Wolverine		
Number, gender, age:	Adult Male		
Location (description):	Meadowbank Landfarm		
Location (UTM):	14W 638530 7215213		
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>On March 10, 2023, at 13:30 while performing wildlife monitoring, a wolverine was observed by HTO and AEM environment at the bottom of the South Cell tailings ramp near the Meadowbank landfarm. Environment had responded to a report of a wolverine on the airstrip earlier in the day.</p> <p>Previous attempts to deter the wolverine away from the site were unsuccessful as the animal had become habituated to the site and several encounters with employees were reported.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>HTO and Environment approached the bottom of the ramp via pick-up truck. The wolverine was standing at the bottom of the ramp observing the vehicle. At 13h35, from approximately 50 m away from the wolverine, a rifle bullet was fired by HTO. The wolverine was hit and staggered but continued to move away. A second bullet was fired from the same location and the wolverine went down. While approaching the wolverine, the leg was still moving, so a third and final bullet was fired to dispatch the animal.</p>			
Describe any communication with GN-DOE:			
<p>GN Conservation officer provided a wildlife destruction authorization to HTO for problematic wildlife February 24, 2023.</p> <p>At 15:30 on March 10, 2023 - AEM Environment advised GN Conservation officers via email.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>The carcass was picked up and delivered to the GN office in Baker Lake on March 10th by HTO members.</p>			
What measures are recommended to prevent future occurrences?			
<p>A general reminder to all site personnel regarding food waste, cigarette butts, proper waste segregation, closing sea can doors, and ensuring work areas are clean to avoid attracting wildlife on the site was sent via the daily communicator and through tool boxes.</p>			



Report prepared by: Louis Dubois

Reviewed by: Tom Thomson



2023-03-07

Report prepared by:	Tom Thomson	Reviewed by:	
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Wildlife Incident Report Form

Date:	2023/05/12	Time:	8:55
Individuals involved:	Brandon Ipkarnerk	Kathleen Newberry	
Species:	Sik sik		
Number, gender, age:	N/A		
Location (description):	AWAR (KM98)		
Location (UTM):	14W 633636.33 m E 7214836.35 m N		
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 disposed of at the Meadowbank site.			
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:	2023-07-28	Time:	8:32
Individuals involved:	Derek Nateela		
Species:	Arctic Hare		
Number, gender, age:	Adult		
Location (description):	AWAR KM 73		
Location (UTM):	N/A		
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 AWAR an environmental employee 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:			
<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 composter.</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:	Kathleen Newberry	Reviewed by:	

Wildlife Incident Report Form

Date:	2023-11-05	Time:	08:37
Individuals involved:	Kate Walker	Felix Quessy-Savard	
Species:	Arctic Fox		
Number, gender, age:	1, Adult		
Location (description):	Whale Tail Haul Road km153		
Location (UTM):	14W 0617879 7238478		
Digital photo numbers:	Picture 1	Picture 2	
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>On 5th November 2023 Environmental team was conducting a view sheds survey along the whale tail haul road when they observed an arctic fox and an arctic hare lying on the haul road. The carcasses appeared to have been struck by a vehicle.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
No wildlife deterrents were used			
Describe any communication with GN-DOE:			
GN-DOE was notified via a phone call on Nov.6 th around 9:10AM with and via an email report.			
What immediate measures were taken to reduce risk or harm?			
The carcass was collected to reduce the risk of scavenging. Small parts of the carcass were disposed of at the MBK Composter. The area was then scrapped with a grader to remove any additional attractant for wildlife.			
What measures are recommended to prevent future occurrences?			
A reminder to all Road users to be alert and cautious of wildlife presence along the road and to slow down when an animal has been sighted in the area.			
Report prepared by:	Kate Walker	Reviewed by:	Rowan Woodall



Picture 1 – Arctic Hare at KM153



Picture 2– Arctic Fox at KM153

Wildlife Incident Report Form

Date:	2023-11-05	Time:	08:37
Individuals involved:	Kate Walker	Felix Quessy-Savard	
Species:	Arctic Hare		
Number, gender, age:	1, Adult		
Location (description):	Whale Tail Haul Road km153		
Location (UTM):	14W 0617879 7238478		
Digital photo numbers:	Picture 1	Picture 2	
Describe the incident or accident that occurred. Was there a threat to wildlife or human safety? What was the situation that caused it?			
<p>On 5th November 2023 Environmental team was conducting view sheds along the whale tail haul road when they observed an arctic fox and an arctic hare lying on the haul road. The carcasses appeared to have been struck by a vehicle.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
No wildlife deterrents were used			
Describe any communication with GN-DOE:			
GN-DOE was notified via a phone call on Nov.6 th around 9:10AM with and via an email report.			
What immediate measures were taken to reduce risk or harm?			
The carcass was collected to reduce the risk of scavenging. Small parts of the carcass were disposed of at the MBK Composter. The area was then scrapped with a grader to remove any additional attractant for wildlife.			
What measures are recommended to prevent future occurrences?			
Road users are reminded to be alert and cautious of wildlife presence along the road and to slow down when an animal has been sighted in the area.			
Report prepared by:	Kate Walker	Reviewed by:	Rowan Woodall



Picture 1 – Arctic Hare at KM153



Picture 2– Arctic Fox at KM153

Wildlife Incident Report Form

Date:	2023-11-06	Time:	1:40AM
Individuals involved:	Felix Quessy-Savard (AEM Environment)		
Species:	Muskox		
Number, gender, age:	1, Adult		
Location (description):	Whale Tail Haul Road km158		
Location (UTM):	14W 0620856 7242566		
Digital photo numbers:	Picture 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>On November 6th, 2023, while travelling Northbound along the Whale Tail Haul Road a long haul truck inadvertently struck and killed a muskox that was onto the road.</p>			
Describe any use of wildlife deterrents: Describe any wildlife mortality:			
<p>No wildlife deterrents were used</p>			
Describe any communication with GN-DOE:			
<p>GN-DOE was notified via a phone call on Nov.6th around 9:10AM with and via an email report.</p>			
What immediate measures were taken to reduce risk or harm?			
<p>The carcass was collected to reduce the risk of scavenging and brought to Baker Lake by the HTO monitors.</p>			
What measures are recommended to prevent future occurrences?			
<p>Road users are reminded to be alert and cautious of wildlife presence along the road and to slow down when an animal has been sighted in the area. An investigation is being conducted to determine the root cause.</p>			
Report prepared by:	Rowan Woodall	Reviewed by:	Rowan Woodall



Picture 1 – Muskox carcass at KM158



2023-11-06 Muskox Mortality KM158 WTHR

Please find the following information as a follow up to the report submitted November 6th, 2023, by Agnico Eagle Meadowbank division.

Incident Description

On Nov. 6th at ~1:40am an unloaded long haul truck (LHT) was travelling northbound along the Whale Tail Haul Road at a rate of 50km/hr. As the driver of the LHT was driving along the haul road a muskox ran onto the road from the shoulder directly into the path of the vehicle. The driver did not have time to react and inadvertently struck and killed the muskox. There were reports of poor visibility in areas along the Whale Tail Haul Road throughout the night. Agnico Environment responded to the scene of the incident to collect the carcass. Agnico Environment notified the conservation officer as soon as possible and made arrangements with HTO to bring the carcass to Government of Nunavut office in Baker Lake.



Incident Location: 14W 0620856 7242566 (KM158)

Personnel Involved:

Felix Quessy-Savard: Agnico Eagle – Environmental Lead Technician: Notified the conservation officer of the incident via phone call and responded on scene to collect the carcass

Russel Toolooktook: Government of Nunavut – Conservation Officer: Was the conservation officer working & received the notification via phone call by Agnico.

Felix Tutanuaq & Wamy Kreelak: HTO – Environmental Monitors: Facilitated the transfer of the carcass from Meadowbank to Baker Lake.

Martin Rousseau: Agnico Eagle – LHT Driver – Driver that was involved in the incident

Facts

- Reports of freezing fog and poor visibility areas throughout the night were reported to the dispatch.
- LHT Driver was not travelling at excessive speeds throughout the duration of their shift.
- LHT Driver is on their regular rotation and was not working overtime.
- Road conditions were compliant.
- Speed restriction was in place at KM151 to KM153 due to Muskox near the road.
- A group of 10 Muskox were observed near the road at KM161 but ~160m away from the road laying down during the morning wildlife survey by AEM Environment.
- Stopping distance of an unloaded LHT is ~50m when traveling 50km/hr

Corrective measures

The carcass was moved into a near by quarry but the road crew until AEM Environment could collect it. As a result of this incident Environment Standdown's will be taking place with all LHT Crews to review the incident. All road users were reminded to be alert and cautious of wildlife's presence along the road. The dispatch will be increasing the frequency of announcements of wildlife along the roadways during Nightshift & Low visibility operations. In addition, periodic validations of the wildlife's locations will be conducted by the road maintenance team during nightshift operations to ensure dispatch and road users are updated on wildlife locations along the road.



Closure






We trust that the above details described appropriately the wildlife mortality that occurred along the Whale Tail Haul Road on Nov. 6th, 2023. Please contact the undersigned should you have any questions.



Rowan Woodall | Environmental Coordinator

rowan.woodall@agnicoeagle.com | Direct 819.759.3555 | 4606744

Agnico Eagle Mines Limited - Meadowbank Division, Suite 540 - Baker Lake, Nunavut, Canada X0C 0A0

agnicoeagle.com     

APPENDIX D

Exemption Permits



1(867) 975-7782
 1(867) 979-8809
 www.gov.nu.ca



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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, Brad McInnes, a Conservation Officer in Nunavut, authorize Meadow Bank Environment Division of Agnico Eagle Gold mine in Nunavut, Canada.

(Name of Person)

(Address of Person)

to destroy the following wildlife:

Species: 3 Wolves

Location: MeadowBank Mine site

Reason wildlife is to be destroyed: Problem Wildlife

Equipment to be used to destroy the wildlife: Rifle or shot gun

Officer Signature

Conservation Officer III
Position

January 22 2023

Date _____

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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, Brad McInnes, a Conservation Officer in Nunavut, authorize Meadowbank Environment Division of Agnico Eagle Gold mine in Nunavut, Canada.

(Name of Person)

(Address of Person)

to destroy the following wildlife:

Species: 2 Wolverines

Location: Meadowbank Mine site

Reason wildlife is to be destroyed: Problem Wildlife

Equipment to be used to destroy the wildlife: Rifle or shot gun

Officer Signature

Position

Date _____

APPENDIX E

Helicopter Flights

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Short-Range	Spring	UIT	2023-04-04	320134	1	CrewChg	Passenger	No	Yes		276.7
Short-Range	Spring	UIT	2023-04-05	320452	1	CrewChg	Passenger	No	No		337.6
Short-Range	Spring	UIT	2023-04-05	320452	2	CrewChg	Passenger	No	Yes		105.7
Short-Range	Spring	UIT	2023-04-06	320857	1	CrewChg	Passenger	No	No		355.0
Short-Range	Spring	UIT	2023-04-07	321142	1	CrewChg	Passenger	No	No		466.6
Short-Range	Spring	UIT	2023-04-07	321142	11	DrillServ	Slinging	Yes	No	Slinging	352.6
Short-Range	Spring	UIT	2023-04-07	321142	12	CrewChg	Passenger	No	No		446.2
Short-Range	Spring	UIT	2023-04-07	321142	2	Core	Slinging	Yes	No	Slinging	361.0
Short-Range	Spring	UIT	2023-04-07	321142	4	PaxLoc	Passenger	No	No		446.3
Short-Range	Spring	UIT	2023-04-07	321142	6	PaxLoc	Passenger	No	No		512.0
Short-Range	Spring	UIT	2023-04-07	321142	8	PaxLoc	Passenger	No	No		432.6
Short-Range	Spring	UIT	2023-04-07	321142	9	PaxLoc	Passenger	No	No		490.6
Short-Range	Spring	UIT	2023-04-08	321271	1	CrewChg	Passenger	No	No		439.3
Short-Range	Spring	UIT	2023-04-08	321271	3	CrewChg	Passenger	No	No		483.2
Short-Range	Spring	UIT	2023-04-10	321928	2	Wildlife	Wildlife	Yes	No	Environmental Survey	930.7
Short-Range	Spring	UIT	2023-04-10	321928	3	CrewChg	Passenger	No	No		404.2
Short-Range	Spring	UIT	2023-04-11	322369	1	CrewChg	Passenger	No	No		479.8
Short-Range	Spring	UIT	2023-04-11	322369	3	CrewChg	Passenger	No	No		441.8
Short-Range	Spring	UIT	2023-04-12	322846	1	CrewChg	Passenger	No	No		507.0
Short-Range	Spring	UIT	2023-04-12	322846	3	CrewChg	Passenger	No	No		502.1
Short-Range	Spring	UIT	2023-04-12	322846	2	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Spring	UIT	2023-04-13	323314	1	CrewChg	Passenger	No	No		522.9
Short-Range	Spring	UIT	2023-04-13	323314	3	CrewChg	Passenger	No	No		459.0
Short-Range	Spring	UIT	2023-04-14	323728	1	CrewChg	Passenger	No	No		448.0
Short-Range	Spring	UIT	2023-04-14	323728	3	PaxLoc	Passenger	No	No		635.0
Short-Range	Spring	UIT	2023-04-14	323728	4	PaxLoc	Passenger	No	No		641.9
Short-Range	Spring	UIT	2023-04-14	323728	5	CrewChg	Passenger	No	No		644.7
Short-Range	Spring	UIT	2023-04-14	323728	6	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Spring	UIT	2023-04-15	323977	1	CrewChg	Passenger	No	No		533.5
Short-Range	Spring	UIT	2023-04-15	323977	3	CrewChg	Passenger	No	No		549.3
Short-Range	Spring	UIT	2023-04-16	324244	1	CrewChg	Passenger	No	No		556.0
Short-Range	Spring	UIT	2023-04-16	324244	2	CrewChg	Passenger	No	No		570.8
Short-Range	Spring	UIT	2023-04-17	324613	1	CrewChg	Passenger	No	No		567.3
Short-Range	Spring	UIT	2023-04-17	324613	3	CrewChg	Passenger	No	No		495.0
Short-Range	Spring	UIT	2023-04-18	324997	1	CrewChg	Passenger	No	No		488.6
Short-Range	Spring	UIT	2023-04-18	324997	2	CrewChg	Passenger	No	No		514.2
Short-Range	Spring	UIT	2023-04-19	325363	1	CrewChg	Passenger	No	No		474.2
Short-Range	Spring	UIT	2023-04-19	325363	2	CrewChg	Passenger	No	Yes		186.8
Short-Range	Spring	UIT	2023-04-20	325813	1	CrewChg	Passenger	No	Yes		218.1
Short-Range	Spring	UIT	2023-04-20	325813	2	Medevac	Medevac	Yes	Yes		234.7
Short-Range	Spring	UIT	2023-04-20	325813	3	Medevac	Medevac	Yes	Yes		234.0
Short-Range	Spring	UIT	2023-04-20	325813	4	CrewChg	Passenger	No	No		464.2
Short-Range	Spring	UIT	2023-04-21	326209	1	CrewChg	Passenger	No	No		457.0
Short-Range	Spring	UIT	2023-04-21	326209	3	CrewChg	Passenger	No	Yes		80.6
Short-Range	Spring	UIT	2023-04-22	326410	1	CrewChg	Passenger	No	No		509.8
Short-Range	Spring	UIT	2023-04-23	326590	1	CrewChg	Passenger	No	No		488.8
Short-Range	Spring	UIT	2023-04-23	326590	2	CrewChg	Passenger	No	No		532.5
Short-Range	Spring	UIT	2023-04-24	326995	1	CrewChg	Passenger	No	Yes		274.7
Short-Range	Spring	UIT	2023-04-24	326995	2	CrewChg	Passenger	No	No		445.8
Short-Range	Spring	UIT	2023-04-24	326995	3	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Spring	UIT	2023-04-25	327367	1	CrewChg	Passenger	No	No		417.3
Short-Range	Spring	UIT	2023-04-25	327367	3	CrewChg	Passenger	No	No		454.6
Short-Range	Spring	UIT	2023-04-25	327367	4	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing