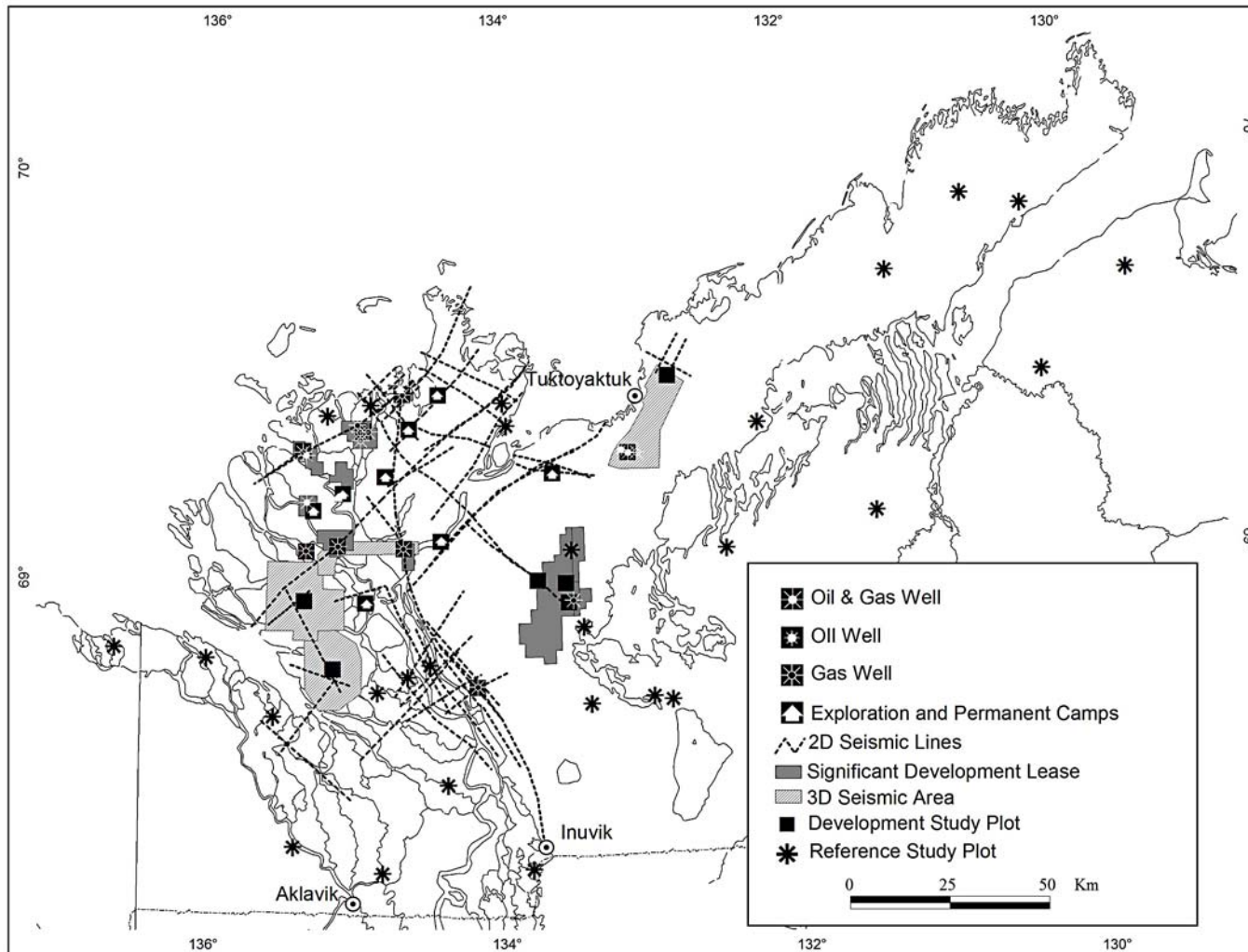


Appendix A. Criteria used in selecting development study plots in the Mackenzie Delta Region, 2001-03¹.

Plot ID #	Latitude (Decimal Minutes)	Longitude (Decimal Minutes)	Year Established	Significant Development Lease	Existing Gas Well	Active Drill Site	Proposed Drill Site	Historic Gas Well	Historic Oil Well	Proposed 3D Seismic Activity 2001	Proposed 2D Seismic Activity 2001	Permanent Exploration Camp	Seismic Exploration Camp
1	69 13.179	-135 4.315	2001									•	
2	69 10.689	-135 16.604	2001					•	•	•			
3	69 19.522	-135 20.795	2001	•				•	•		•		
4	69 22.386	-134 55.826	2001	•				•			•		
6	69 27.701	-134 39.715	2001					•	•		•		
7	69 27.596	-134 24.715	2001								•		•
10	69 22.596	-134 36.959	2001								•		•
11	69 15.703	-134 46.926	2001								•		•
12	69 15.91	-133 37.631	2001								•		•
13	69 18.763	-133 6.022	2001					•	•	•	•		
14	69 29.851	-132 48.507	2001							•	•		
23	68 56.93	-133 31.813	2001	•							•		
25	69 4.723	-135 19.26	2001			•				•	•		
26	69 5.504	-135 6.466	2001	•				•		•	•		
27	69 5.095	-134 39.266	2001	•				•			•		
28	69 6.114	-134 24.058	2001								•	•	
29	68 57.103	-134 55.121	2001								•		•
30	68 57.456	-135 20.111	2001							•	•		
33	68 47.431	-135 8.438	2001							•	•		
37	68 44.636	-134 9.658	2001		•						•		
48	69 0.174	-133 44.363	2003	•							•		
49	68 59.779	-133 32.925	2003	•			•						

¹Reference plot locations were chosen randomly (with the exception of plot # 47 which was specifically located within Kendall Island Migratory Bird Sanctuary).

Appendix B. Map of criteria used in selecting reference and development study plots for investigating cumulative impacts of natural gas development on Tundra Swans in the Mackenzie Delta Region, 2001-2003.



Appendix C. Results by plot type and year of Shapiro Wilk W Tests for the normality of swan count data in the Mackenzie Delta Region, 2001-03. P-values of 0.05 or less represent significant departures from a normal distribution. Tests for both untransformed (raw) and transformed (log+1) data are presented.

	2001				2002				2003			
	Reference		Development		Reference		Development		Reference		Development	
	Raw Data	Transformed Data	Raw Data	Transformed Data	Raw Data	Transformed Data	Raw Data	Transformed Data	Raw Data	Transformed Data	Raw Data	Transformed Data
June	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>
Total adults	0.13	0.38	0.00	0.11	0.00	0.16	0.00	0.09	0.00	0.58	0.00	0.24
Indicated pairs	0.01	0.36	0.47	0.29	0.00	0.46	0.12	0.49	0.00	0.97	0.01	0.72
Nests	0.00	0.08	0.00	0.15	0.00	0.09	0.01	0.34	0.00	0.13	0.00	0.41
Adults in flocks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
August												
Total adults	0.00	0.89	0.00	0.48	0.00	0.12	0.00	0.15	0.00	0.09	0.00	0.01
Indicated pairs	0.09	0.70	0.17	0.24	0.03	0.47	0.01	0.25	0.17	0.06	0.08	0.60
Broods	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total young	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Adults in flocks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Appendix D. Results of Levene's Test for homogeneity of variances of swan count data in the Mackenzie Delta Region, 2001-03. P-values of 0.05 or less indicate that variances of the six plot-year combinations considered were not all equal. Tests for both untransformed and transformed (log+1) data are presented.

Survey/variable	Untransformed Data		Transformed Data	
	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>
June				
Total adults	0.93	0.46	0.98	0.43
Indicated pairs	0.67	0.65	0.61	0.69
Nests	0.43	0.83	0.23	0.95
Adults in flocks	0.91	0.47	1.46	0.21
August				
Total adults	2.62	0.03	2.14	0.07
Indicated pairs	0.46	0.80	0.42	0.83
Broods	1.57	0.17	1.57	0.17
Total young	2.30	0.05	1.49	0.20
Adults in flocks	2.54	0.03	2.57	0.03