

Appendix 3:
Quantitative Analysis of HSI Models and Associated Maps

Appendix 3.1:

HSI Models and Maps (North Region Snow Goose Habitat Suitability and South Region Snow Goose Habitat Suitability)

Quantitative Analysis of HSI Models – Comparison of Observed Distribution of Bird Observations by Habitat Suitability Category versus Expected Distribution*

*Expected distribution based on equal distribution of birds throughout the RSA

Snow Goose - All Observations N=3715				
	High	Moderate	Low	Nil
Area (km ²)	1,187	25,897	3,326	152
% RSA	3.9%	84.7%	10.9%	0.5%
Expected Distribution	145	3147	405	19
Observed Distribution	505	3199	11	0

Snow Goose - Nesting Observations N=233				
	High	Moderate	Low	Nil
Area (km ²)	1,187	25,897	3,326	152
% RSA	3.9%	84.7%	10.9%	0.5%
Expected Distribution	9	197	25	1
Observed Distribution	19	214	0	0

King Eider - All Observations N=300				
	High	Moderate	Low	Nil
Area (km ²)	20,284	920	9,263	94
% RSA	66.4%	3.0%	30.3%	0.3%
Expected Distribution	199	9	91	1
Observed Distribution	230	48	22	0

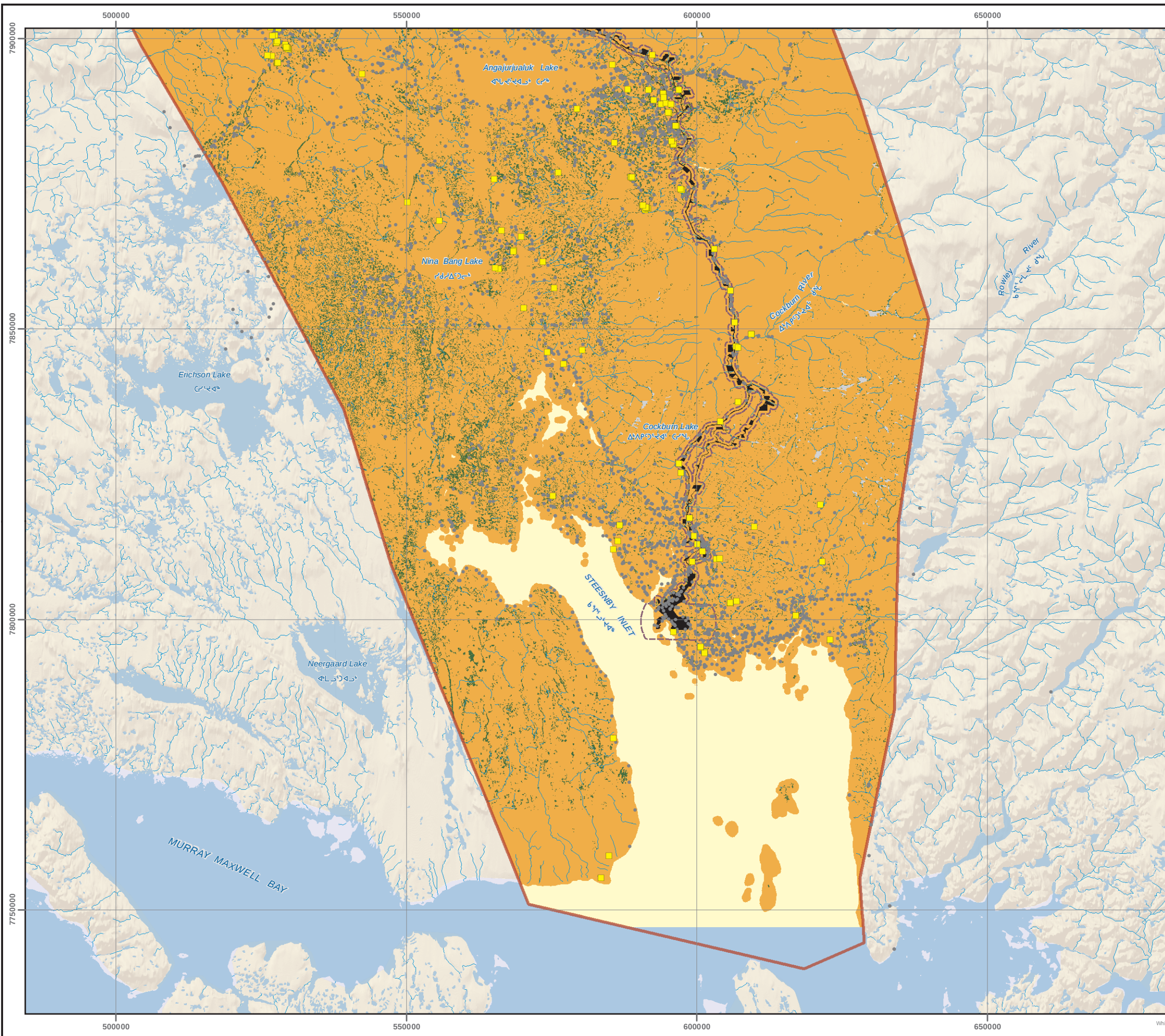
King Eider - Nesting Observations N=4				
	High	Moderate	Low	Nil
Area (km ²)	20,284	920	9,263	94
% RSA	66.4%	3.0%	30.3%	0.3%
Expected Distribution	3	0	1	0
Observed Distribution	3	1	0	0

Red-throated Loon - All Observations N=1904				
	High	Moderate	Low	Nil
Area (km ²)	5,893	1,546	9,187	13,935
% RSA	19.3%	5.1%	30.1%	45.6%
Expected Distribution	367	97	573	868
Observed Distribution	788	326	644	147

Red-throated Loon - Nesting Observations N=49				
	High	Moderate	Low	Nil
Area (km ²)	5,893	1,546	9,187	13,935
% RSA	19.3%	5.1%	30.1%	45.6%
Expected Distribution	9	2	15	22
Observed Distribution	33	5	9	2

Peregrine Falcon - Foraging N=142				
	High	Moderate	Low	Nil
Area (km ²)	5,486	13,683	5,145	0
% RSA	22.6%	56.3%	21.2%	0.0%
Expected Distribution	32	80	30	0
Observed Distribution	85	47	10	0

Peregrine Falcon - Nesting N=80				
	High	Moderate	Low	Nil
Area (km ²)	1,686	22,087	16	1
% RSA	7.1%	92.8%	0.1%	<0.1%
Expected Distribution	6	74	0	0
Observed Distribution	35	45	0	0



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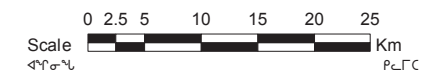
- Mary River Project ᐃᑭᑦᑕᑦ ᐃᑭᑦᑕᑦ
- Potential Disturbance Area ᐃᑭᑦᑕᑦ ᐃᑭᑦᑕᑦ ᐃᑭᑦᑕᑦ
- Terrestrial Regional Study Area
- Snow Goose Nest Location
- Snow Goose Observation
- Zone of Influence
- Snow Goose Habitat Suitability**
 - High Suitability
 - Moderate Suitability
 - Low Suitability
 - No Suitability

NOTES ᐃᑭᑦᑕᑦ

Map Projection: North American Datum UTM Zone 17N

Bird observations and habitat suitability data collected by M. Evans, 2006 – 2008.

This document is not an official land survey and the spatial data presented is subject to change without notice.



Mary River Project: South Region
Snow Goose Habitat Suitability



Date: 4/17/2012
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