

Appendix 55

Marine mammal and seabirds observer (MMSO)



NUQSANA GOLDER
ENGINEERING AND ENVIRONMENTAL INC.

REPORT

Marine Mammal and Seabird Observer (MMSO) Report 2018 Shipping Season

Amaruq - Whale Tail, Baker Lake, Nunavut

Submitted to:

Agnico Eagle Mines Limited

Submitted by:

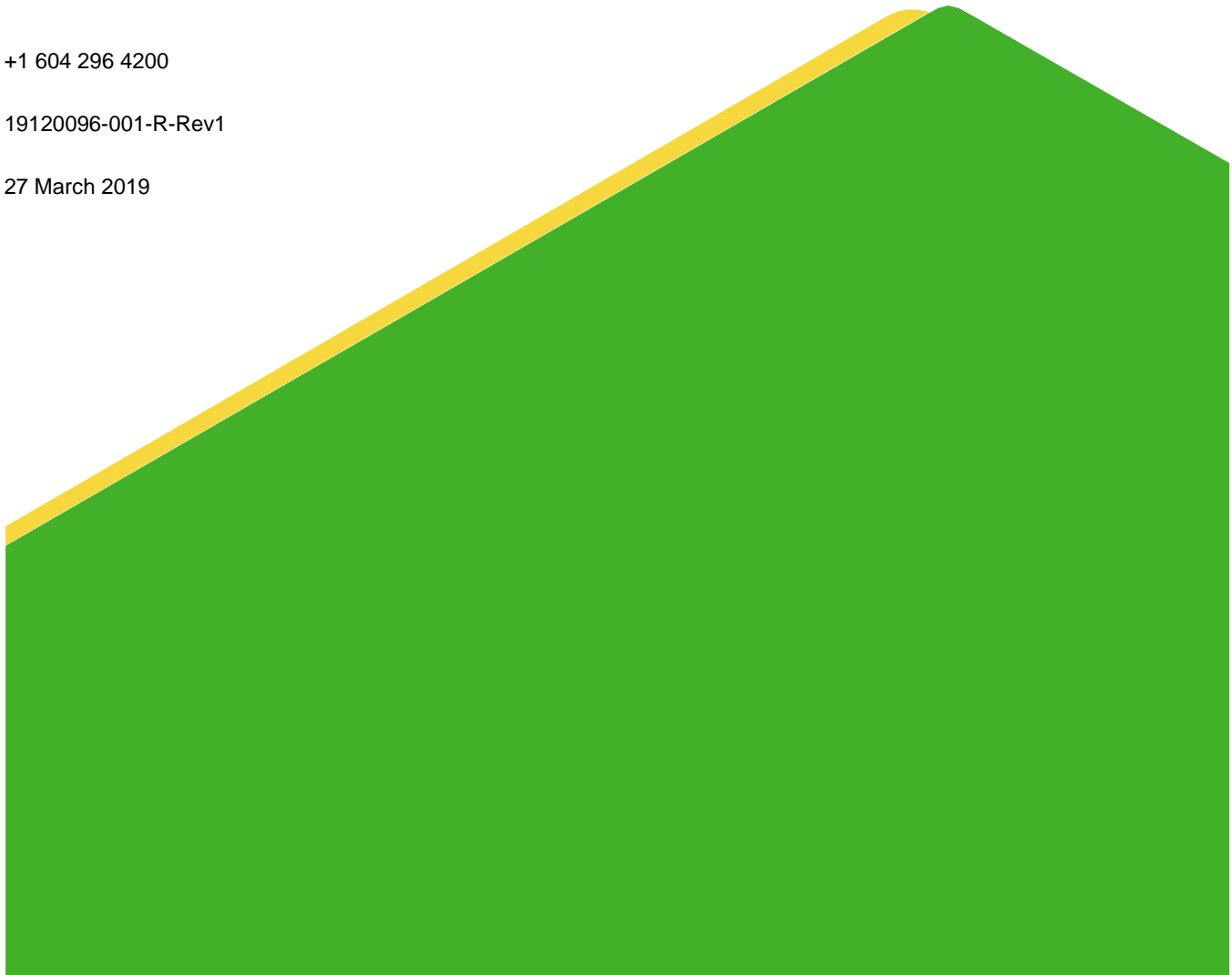
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27 March 2019



Distribution List

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Executive Summary

Agnico Eagle Mines Limited (Agnico Eagle) – Meadowbank Division operates the Meadowbank Mine and Amaruq - Whale Tail Pit (the Project). A total of approximately 60,000 tonnes of dry cargo and 66.8 million litres of diesel fuel are required annually for the operations of the Project. To meet these needs, a total of three to eight vessels annually deliver dry goods, and two to three tankers annually deliver diesel fuel for the Project. Shipping is to be carried out during the open water season (typically from July to late October) and follow recommended shipping routes that are presently in use for the annual sea lift to Chesterfield Inlet, Baker Lake and other communities. The shipping route extends through Hudson Strait and across Hudson Bay to Chesterfield Inlet and the Hamlet of Baker Lake (Figure 1).

The Mine's Shipping Management Plan (SMP) outlines a Marine Mammal and Seabird Observer (MMSO) program that is to be implemented by Project shipping contractors. The purpose of the MMSO program is to mitigate interactions between marine mammals and seabirds and Project vessels and to collect information on marine wildlife presence along the shipping route.

This report presents a summary of the MMSO data collected by Transport Desgagnés and by local community members onboard Transport Desgagnés vessels during the 2018 MMSO program to provide information to support Agnico Eagle's 2018 annual report to the Nunavut Impact Review Board (NIRB). It is assumed that the 2018 MMSO programs were conducted in accordance with the methods outlined in the SMP (Agnico Eagle 2018).

Environmental conditions were recorded for weather, visibility, sea state, glare and ice conditions and were variable throughout the 2018 MMSO program. In general, weather was predominantly < 50% cloud cover with no fog, rain, or snow, with an average visibility of 26 km, sea states of 4 (1.2 to 2.4 m waves, moderate waves, some spray), and no glare (rated as 0 = none).

Marine mammal observations were completed between 22 July to 21 September 2018. Dedicated marine mammal observer effort recorded on the MMSO datasheets included 29 hours and approximately 1,155 km. No marine mammal sightings or marine mammal-vessel interactions (e.g., strikes) were recorded in 2018.

Seabird monitoring was conducted for 26 days between 30 June and 23 October 2018. A total of 738 individual seabirds were observed during seabird survey. A total of 15 identified and 4 unidentified seabird species were recorded. Dedicated seabird monitoring effort recorded on the MMSO datasheets was approximately 1,834 km over 102.5 hours during moving platform surveys. Thick-billed murre's were the most abundant seabird observed. Two ivory gulls listed as Endangered on Schedule 1 of the *Species at Risk Act* (SARA; Government of Canada 2019), were observed. No interactions between vessels and seabirds were recorded during the MMSO program in or 2018.

Study Limitations

Nuqsana Golder Engineering and Environmental Consulting Inc. (Nuqsana Golder) has prepared this Marine Mammal and Seabird Observer (MMSO) Report for the 2018 Shipping Season for Agnico Eagle Mines Limited (Agnico Eagle), Meadowbank Division in Baker Lake, Nunavut.

This report was prepared, based on information obtained from Transport Desgagnés and local community members through Agnico Eagle. In preparing the report, Nuqsana Golder has relied in good faith on information provided. We accept no responsibility for any deficiency or inaccuracy contained in this report because of our reliance on the aforementioned information.

The findings and conclusions in this report have been prepared for the specific application to this Project and have been developed in a manner consistent with the level of care normally exercised by environmental professionals currently practicing under similar conditions in the jurisdiction.

With respect to regulatory compliance issues, regulatory statutes are subject to interpretation. These interpretations may change over time and should be reviewed regularly.

If new information is discovered during future work, the conclusions of this report should be re-evaluated, and the report amended, as required, prior to any reliance upon the information presented herein.

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Table A-2: Marine Mammal Sightings and Environmental Variables Recorded during 2018 MMSO Program

Table A-3: Incidental Wildlife Sightings Recorded during 2018 MMSO Program

APPENDIX B: MMSO datasheets for the 2018 MMSO program

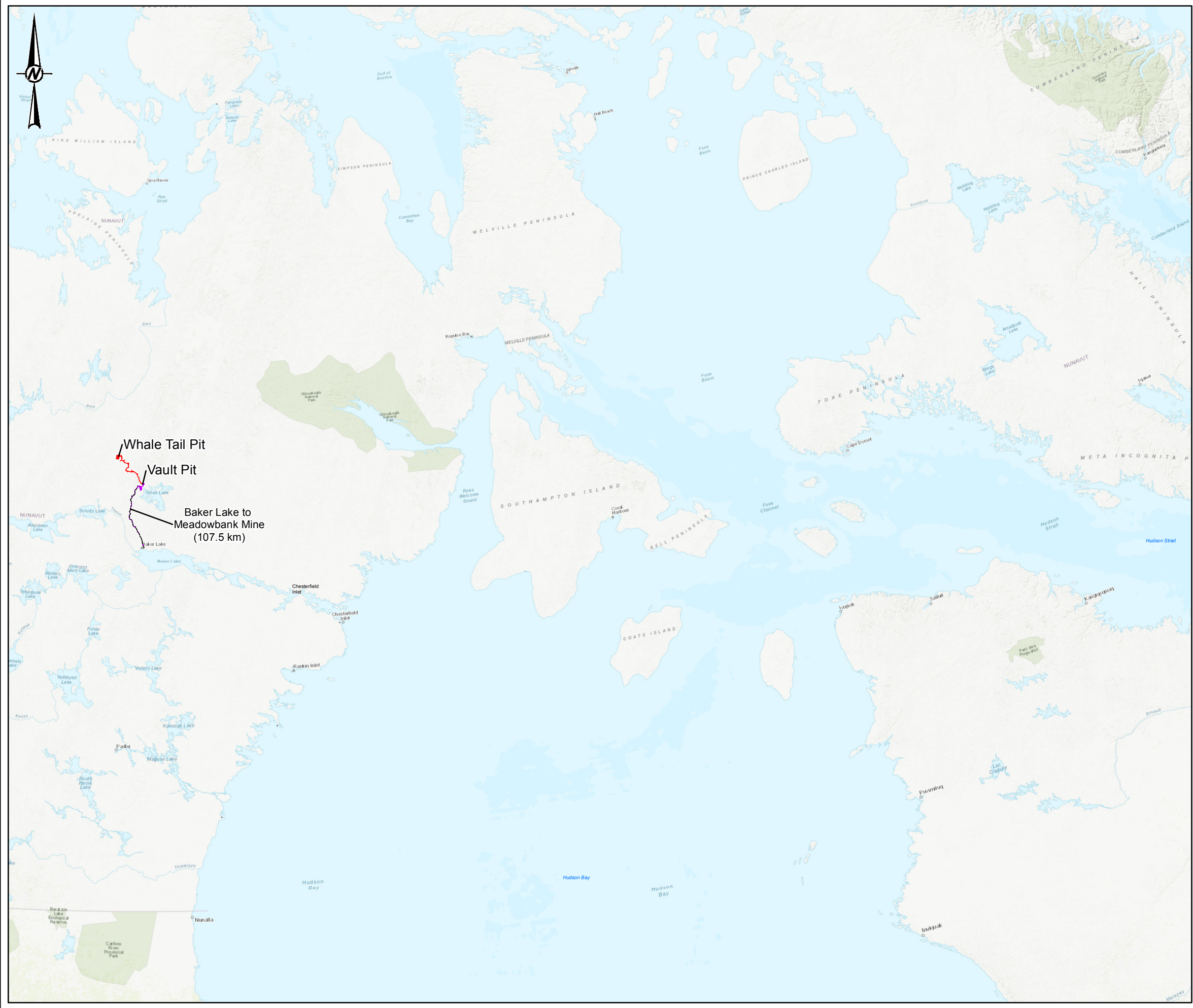
1.0 INTRODUCTION

Agnico Eagle Mines Limited (Agnico Eagle) – Meadowbank Division operates the Meadowbank Mine and Amaruq-Whale Tail Pit (the Project). A total of approximately 60,000 tonnes of dry cargo and 66.8 million litres of diesel fuel are required annually for the operations of the Project (Figure 1). To meet these needs, a total of three to eight vessels annually deliver dry goods, and two to three tankers annually deliver diesel fuel for the Project. Shipping is to be carried out during the open water season (typically from July to late October) and follow recommended shipping routes that are presently in use for the annual sea lift to Chesterfield Inlet, Baker Lake and other communities. The shipping route extends through Hudson Strait and across Hudson Bay to Chesterfield Inlet and the Hamlet of Baker Lake Figure 2.

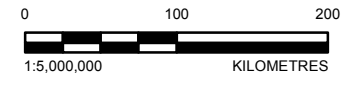
The Mine's Shipping Management Plan (SMP) outlines a Marine Mammal and Seabird Observer (MMSO) program that is to be implemented by Project shipping contractors. The purpose of the MMSO program is to mitigate interactions between marine mammals and seabirds and Project vessels and to collect information on marine wildlife presence along the shipping route.

This report presents a summary of the MMSO data collected by Transport Desgagnés and by local community members onboard Transport Desgagnés vessels during the 2018 MMSO program to provide information to support Agnico Eagle's 2018 annual report to the Nunavut Impact Review Board (NIRB). It is assumed that the 2018 MMSO programs were conducted in accordance with the methods outlined in the SMP (Agnico Eagle 2018).

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- LEGEND**
- COMMUNITY
 - ALL WEATHER ROAD
 - █ WHALE TAIL PIT
 - █ MEADOWBANK OPERATION AND INFRASTRUCTURE
 - █ WATERBODY



REFERENCE(S)

1. HAUL ROAD OBTAINED FROM AGNICO EAGLE MINES LIMITED.
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3. INSET MAP DATA OBTAINED FROM ESRI.

COORDINATE SYSTEM: CANADA LAMBERT CONFORMAL CONIC

CLIENT **AGNICO EAGLE MINES LIMITED**

AGNICO EAGLE
 PROJECT
AMARUQ – WHALE TAIL NUNAVUT

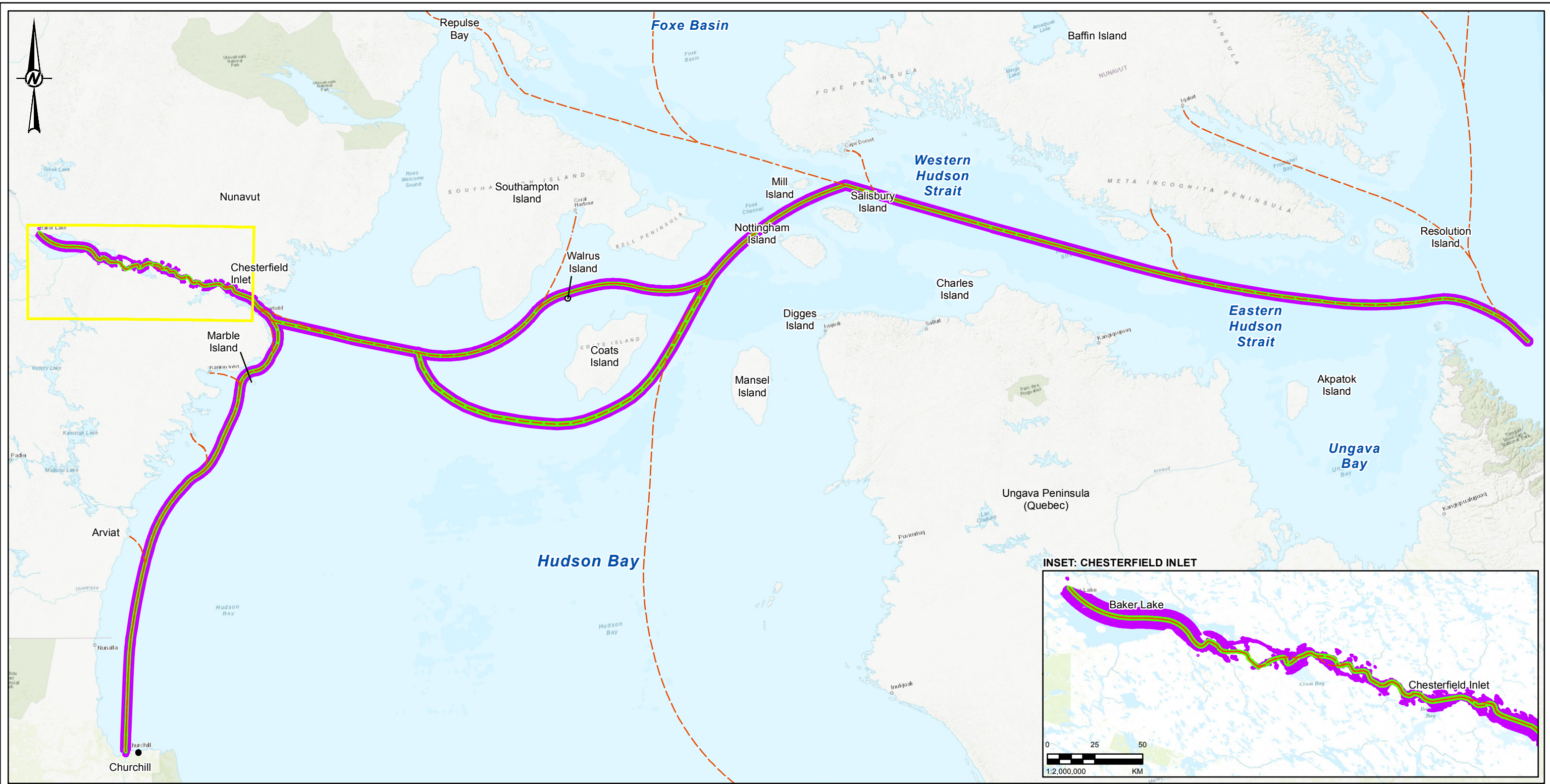
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CONSULTANT	YYYY-MM-DD	2019-03-26
	DESIGNED	JR
	PREPARED	CDB
	REVIEWED	KZ
	APPROVED	IJ



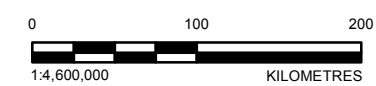
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- LEGEND**
- SHIPPING ROUTE (APPROXIMATE)
 - LOCAL STUDY AREA (LSA)
 - REGIONAL STUDY AREA (RSA)
 - WATERBODY

- NOTES**
1. SPECIES LOCATIONS ARE ANNOTATED WITH THE SURVEY COUNT.
- REFERENCES**
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CLIENT
AGNICO EAGLE MINES LIMITED

PROJECT
AMARUQ – WHALE TAIL NUNAVUT

CONSULTANT

YYYY-MM-DD 2019-03-26

TITLE
MARINE LOCAL STUDY AREA (LSA) AND REGIONAL STUDY AREA (RSA) FOR THE AMARUQ - WHALE TAIL PROJECT



DESIGNED	DC
PREPARED	CC/CDB
REVIEWED	KZ
APPROVED	IJ

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2.0 METHODS

Nuqsana Golder has assumed that the 2018 MMSO programs were conducted by Transport Desgagnés and local community members in accordance with the methods outlined in the SMP (Agnico Eagle 2018). MMSO data is summarized in Table A-1 presented in Appendix A and datasheets used by Transport Desgagnés and local community members and provided by Agnico Eagle are provided in Appendix B.

2.1 Observations

MMSO datasheets were reviewed and entered in to an electronic spreadsheet, which was subsequently queried for observation data. MMSO datasheets are provided in Appendix B. GPS coordinates recorded for survey transects were used to display corresponding seabird observations on Figure 3.

2.2 Temporal and Spatial Observation Effort

Temporal (hours) and spatial (km) marine mammal observation effort was defined as the effort dedicated to marine mammal observations as recorded on the MMSO datasheets (Appendix B). Marine mammal spatial effort was calculated as linear kilometres using GPS coordinates recorded at the start and end of each observation. Start and end times recorded on the MMSO datasheets were used to determine temporal effort (i.e., time spent completing marine mammal observations).

According to seabird protocols (Agnico Eagle 2018), surveys from moving and stationary platforms are completed in 5-minute intervals. The number of hours and kilometres dedicated to seabird observations were used as indices of temporal and spatial effort, respectively, for seabird observation. Spatial effort was calculated as linear kilometres using GPS coordinates recorded at the start and end of each 5-minute interval. Start and end times recorded on the MMSO datasheets (Appendix B) were used to determine temporal effort (i.e., time spent completing seabird surveys).

2.3 Environmental Variables

The environmental variables of ice cover (percent), wind speed and direction, sea state (Beaufort scale), weather (e.g., precipitation and cloud conditions), visibility, sun glare and sightability (combination of weather, glare, and sea state) were recorded on the MMSO datasheets (Appendix B) and were summarized as a percentages of observation effort.

3.0 RESULTS

3.1 Marine Mammals

This section summarizes the environmental conditions, observer effort, and marine mammal observations recorded by Transport Desgagnés during the 2018 MMSO program.

3.1.1 Marine Mammal Observations

Dedicated marine mammal observations were conducted from the Acadia Desgagnés and incidental observations from the Dara Desgagnés. Marine mammal observations were completed between 22 July to 21 September 2018. No marine mammal sightings or marine mammal-vessel interactions (e.g., strikes) were recorded in 2018. Data sheets for marine mammal monitoring are provided in Appendix B.

3.1.2 Survey Effort

Dedicated marine mammal observer effort included 29 hours and 1,155.7 km in 2018 onboard the Acadia Desgagnés. An additional 153 hours of incidental marine mammal observations were collected onboard the Dara Desgagnés (see Table A-3, Appendix A). Spatial effort could not be calculated for the incidental effort because start and end coordinates were not recorded.

3.2 Seabirds

This section summarizes the environmental conditions, observer effort, and seabird observations recorded by Transport Desgagnés and local community members during the 2018 MMSO program. Data sheets for seabird monitoring are provided in Appendix B.

3.2.1 Seabird Observations

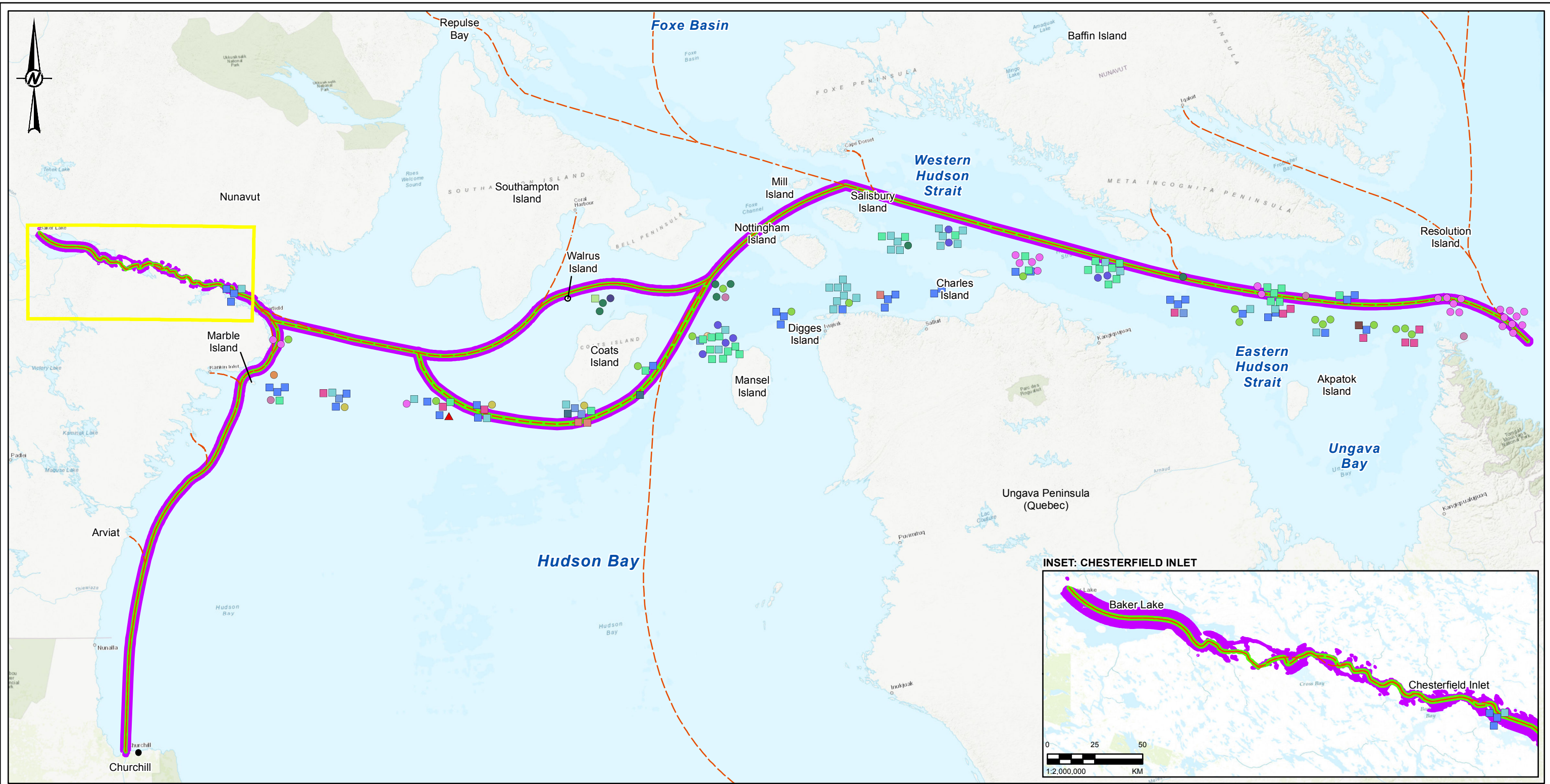
Dedicated seabird observations were conducted from the Acadia Desgagnés and Nordika Desgagnés, and incidental observations from the Dara Desgagnés. Dedicated seabird surveys were completed daily on 26 days: 30 June, 17 to 18 July, 22 July to 27 July, 1 to 4 August, 11 to 21 September, 20 and 23 October 2018.

A total of 738 individuals comprised of 15 identified species and 4 unidentified species of seabirds were recorded during dedicated seabird monitoring (Table 1). The most common species identified during the surveys in 2018 were thick-billed murre (*Uria lomvia*), black guillemot (*Cephus grylle*), glaucous gull (*Larus hyperboreus*), iceland gull (*Larus glaucoides*) and dovekie (*Alle alle*). Two ivory gulls (*Pagophila eburnea*), listed as Endangered on Schedule 1 of the Species at Risk Act (SARA) (Government of Canada 2019), were observed during the surveys in 2018. Seabirds were recorded throughout the shipping route with no apparent areas of concentration (Figure 3). No seabird interactions (e.g., strikes) with vessels were recorded in 2018.

Table 1: Seabirds Observed During Surveys in 2018

Common Name	Scientific Name	Number observed
Black guillemot	<i>Cepphus grylle</i>	137
Common eider	<i>Somateria mollissima</i>	4
Common loon	<i>Gavia immer</i>	1
Dovekie	<i>Alle</i>	76
Glaucous gull	<i>Larus hyperboreus</i>	91
Harlequin duck	<i>Histrionicus histrionicus</i>	10
Iceland gull	<i>Larus glaucoides</i>	78
Ivory gull	<i>Pagophila eburnea</i>	2
Long-tailed duck	<i>Clangula hyemalis</i>	3
Long-tailed jaegar	<i>Stercorarius longicaudus</i>	1
Northern fulmar	<i>Fulmarus glacialis</i>	43
Pomarine jaeger	<i>Stercorarius pomarinus</i>	1
Sabine's gull	<i>Xema sabini</i>	3
Thick-billed murre	<i>Uria lomvia</i>	141
Wilson's storm-petrel	<i>Oceanites oceanicus</i>	23
Unidentified duck species	n/a	27
Unidentified gull species	n/a	34
Unidentified sandpiper species	n/a	6
Unidentified bird species	n/a	57
Total	n/a	738

Notes: n/a – not applicable

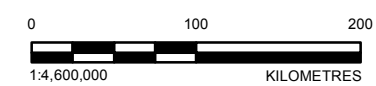


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LEGEND			
SPECIES			
●	BLACK GUILLEMOT	▲	IVORY GULL
■	COMMON EIDER	■	LONG-TAILED DUCK
●	COMMON LOON	■	LONG-TAILED JAEGER
■	DOVEKIE	■	NORTHERN FULMAR
●	DUCK SP.	■	POMARINE JAEGER
■	GLAUCOUS GULL	■	SABINE'S GULL
●	GULL SP.	●	SANDPIPER SP.
■	HARLEQUIN DUCK	■	THICK-BILLED MURRE
●	ICELAND GULL	■	WILSON'S STORM-PETREL
		●	UNIDENTIFIED SEABIRD
			SHIPPING ROUTE (APPROXIMATE)
			LOCAL STUDY AREA (LSA)
			REGIONAL STUDY AREA (RSA)
			WATERBODY

NOTES
 1. SPECIES LOCATIONS ARE ANNOTATED WITH THE SURVEY COUNT.

REFERENCES
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CLIENT
 AGNICO EAGLE MINES LIMITED

CONSULTANT
 GOLDER

YYYY-MM-DD	2019-03-26
DESIGNED	DC
PREPARED	CC/CDB
REVIEWED	KZ
APPROVED	IJ

PROJECT
 AMARUQ – WHALE TAIL NUNAVUT

TITLE
SEABIRDS SIGHTINGS OBSERVED DURING THE 2018 MMSO PROGRAM

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3.2.2 Survey Effort

Dedicated seabird monitoring effort resulted in 1,833.6 km surveyed over 102.5 hours using moving platform surveys. Several moving platform survey datasheets lacked GPS coordinates, therefore spatial effort may be greater than presented in this report. No stationary platform surveys were recorded in 2018. An additional 153 hours of incidental seabird observations were collected onboard the *Dara Desgagnés*, however no seabirds were observed during this time. Spatial effort could not be calculated for the incidental effort because start and end coordinates were not recorded.

3.3 Environmental Variables and Sighting Conditions

A summary of the environmental variables during the 2018 MMSO program is discussed below and is provided in Table A-1 and A-2 in Appendix A.

Weather

Weather conditions during the 2018 MMSO program ranged from 0 (< 50% cloud cover [with no fog, rain, or snow]) to 2 (patchy fog), > 50% cloud cover with no fog, rain, or snow were recorded most frequently (41% of survey effort) closely followed by < 50% cloud cover with no fog, rain, or snow (40% of survey effort) and then patchy fog (19%; Figure 4).

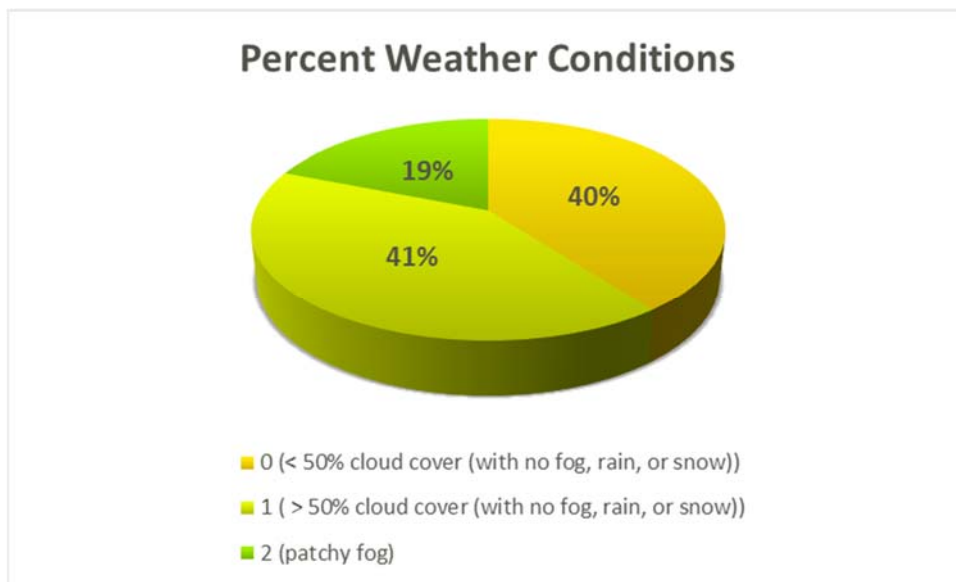


Figure 4: Percent Weather Conditions during the 2018 MMSO Program

Visibility

Visibility during the 2018 MMSO program ranged from 10 to 75 km with an average of 26 km.

Sea State

Sea state during the 2018 MMSO program ranged from 0 (no waves, glassy) to 4 (1.2 to 2.4 m waves, moderate waves, some spray). Sea state conditions were recorded most frequently as 4 (1.2 to 2.4 m waves, moderate waves, some spray; 29% of survey effort), followed by 3 (0.5 to 1.2 m waves, slight; small white caps; 24% of survey effort), 0 (no waves, glassy; 21% of survey effort), 2 (0.1 to 0.5 m waves, smooth wavelets; 19% of survey effort), and 1 (0 to 0.1 m waves, small wavelets; 7% of survey effort; Figure 5).

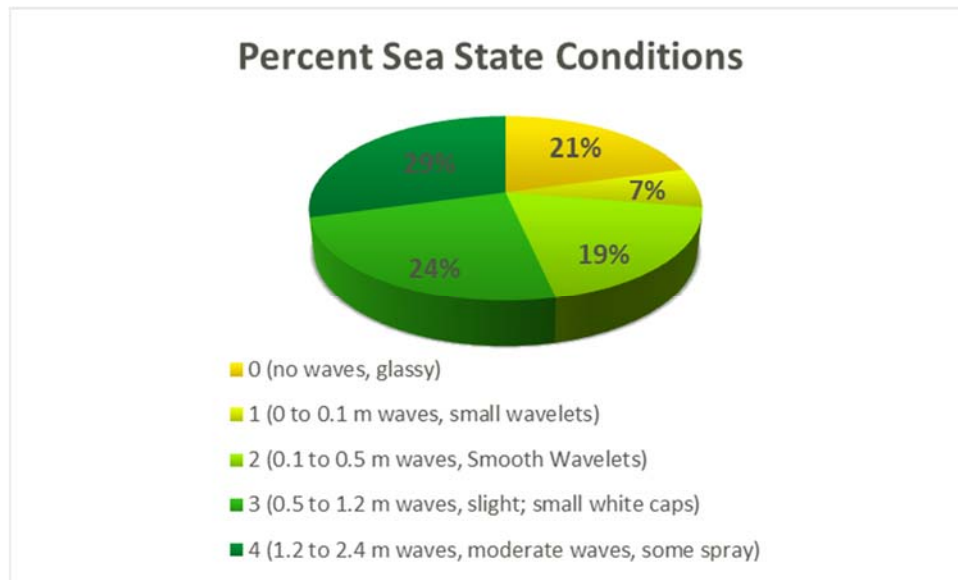


Figure 5: Percent Sea State Conditions during the 2018 MMSO Program

Glare Conditions

Glare conditions during the 2018 MMSO program ranged from 0 (none) to 3 (bright and forward of vessel). Glare conditions were recorded most frequently as 0 (none; 54% of survey effort), followed by 1 (slight/grey; 41% of survey effort), 2 (bright on the observer's side of the vessel; 3% of survey effort), and 3 (bright and forward of vessel; 2% of survey effort; Figure 6).



Figure 6: Glare Conditions during the 2018 MMSO Program

4.0 SUMMARY

Dedicated marine mammal observer effort included 29 hours and 1,155.7 km. No marine mammal sightings were recorded in 2018. An additional 153 hours of incidental marine mammal and seabird observations were collected onboard the *Dara Desgagnés*.

Seabird surveys were conducted over 26 days between 30 June and 23 October 2018. A total of 738 individuals comprised of 15 identified and 4 unidentified seabird species were recorded. Dedicated seabird survey effort resulted in 1,833.6 km of moving surveys over 102.5 hours. Thick-billed murre's were the most abundant seabird observed. Two ivory gulls, which are listed as Endangered on Schedule 1 of the SARA were also observed (Government of Canada 2019).

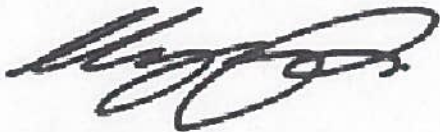
Environmental variables of weather conditions, visibility, sea state, glare and ice conditions were recorded during the 2018 MMSO program. Environmental conditions were variable as might be expected considering the seasonality of the surveys. Predominant conditions were recorded as < 50% cloud cover with no fog, rain, or snow, sea states of 1.2 to 2.4 m waves, moderate waves, some spray, and no glare with average visibility of 26 km.

No marine mammal-vessel or seabird-vessel interactions (e.g., strikes) were recorded during the 2018 MMSO program.

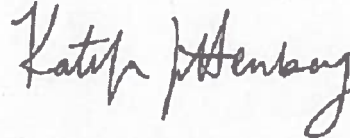
5.0 CLOSURE

We trust this information is sufficient for your needs at this time. Should you have any questions or concerns, please do not hesitate to contact the undersigned at 604-296-4200.

Golder Associates Ltd.

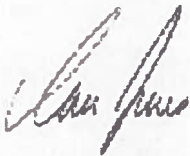


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Agnico Eagle (Agnico Eagle Mines Limited). 2018. Meadowbank Division – Whale Tail Pit Shipping Management Plan. Version 2, April 2018.

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<https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry.html#summary-details0>.

APPENDIX A

Summary of Seabirds, Marine
Mammals and Environmental
Variables Recorded during the
2018 MMSO Program

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2018 MMSO Program

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort (hrs)	Zone	UTM Starting		UTM Ending		Platform Activity	Visibility (km)	Weather	Weather Code	Glare Conditions	Glare Code	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type	Ice Type Code	Ice Concentration	Ice Concentration Code	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors	Species	Count	Fly or Water	In Transect	Distance	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
									Easting	Northing	Easting	Northing																																	
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	22:00	22:30	0.5	19	647172	6752836	657330	6748438	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	7	northwest	n/a	n/a	one tenth	0	14.2	115	Starboard	22	Indoors	gull sp.	3	fly	Yes	0-50	A	With observation platform	18	Pattering	39	east	Immature	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	22:00	22:30	0.5	19	647172	6752836	657330	6748438	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	7	northwest	n/a	n/a	one tenth	0	14.2	115	Starboard	22	Indoors	long-tailed duck	3	water	Yes	0-50	A	n/a	n/a	Resting or sleeping	60	n/a	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	22:00	22:30	0.5	19	647172	6752836	657330	6748438	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	7	northwest	n/a	n/a	one tenth	0	14.2	115	Starboard	22	Indoors	glaucous gull	2	fly	Yes	0-50	A	n/a	n/a	Pattering	39	north	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	22:00	22:30	0.5	19	647172	6752836	657330	6748438	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	7	northwest	n/a	n/a	one tenth	0	14.2	115	Starboard	22	Indoors	northern fulmar	4	fly	Yes	0-50	A	n/a	n/a	Pattering	39	south	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	17:00	17:30	0.5	17	363459	6875995	353321	6878091	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	3	2	17	southwest	n/a	n/a	one tenth	0	11.3	278	Starboard	22	Indoors	Wilson's storm-petrel	2	fly	Yes	51-100	B	n/a	n/a	Aerial	36	north	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	17:00	17:30	0.5	17	363459	6875995	353321	6878091	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	3	2	17	southwest	n/a	n/a	one tenth	0	11.3	278	Starboard	22	Indoors	Sabine's gull	1	fly	Yes	0-50	A	Approaching observation platform	20	Aerial	36	south	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	17:00	17:30	0.5	19	539578	6802368	549364	6797480	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright on the observer's side of vessel	2	2	2	12	northwest	n/a	n/a	one tenth	0	12.8	118	Starboard	22	Indoors	glaucous gull	4	fly	Yes	51-100	B	n/a	n/a	Aerial	36	south	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	17:00	17:30	0.5	19	539578	6802368	549364	6797480	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright on the observer's side of vessel	2	2	2	12	northwest	n/a	n/a	one tenth	0	12.8	118	Starboard	22	Indoors	glaucous gull	1	fly	Yes	0-50	A	Approaching observation platform	20	Pattering	39	east	Immature	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	12:30	13:00	0.5	19	442141	6849789	451658	6844813	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	20	west	n/a	n/a	one tenth	0	12.7	115	Starboard	22	Indoors	glaucous gull	3	fly	Yes	0-50	A	n/a	n/a	Pattering	39	north	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	12:30	13:00	0.5	19	442141	6849789	451658	6844813	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	20	west	n/a	n/a	one tenth	0	12.7	115	Starboard	22	Indoors	glaucous gull	2	fly	Yes	0-50	A	n/a	n/a	Pattering	39	north	Immature	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	12:30	13:00	0.5	19	442141	6849789	451658	6844813	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	20	west	n/a	n/a	one tenth	0	12.7	115	Starboard	22	Indoors	glaucous gull	4	fly	Yes	0-50	A	With observation platform	18	Pattering	39	west	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	12:30	13:00	0.5	19	442141	6849789	451658	6844813	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	20	west	n/a	n/a	one tenth	0	12.7	115	Starboard	22	Indoors	Wilson's storm-petrel	13	fly	Yes	51-100	B	n/a	n/a	Actively searching	49	south	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	12:30	13:00	0.5	19	442141	6849789	451658	6844813	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	20	west	n/a	n/a	one tenth	0	12.7	115	Starboard	22	Indoors	northern fulmar	2	fly	Yes	0-50	A	n/a	n/a	Pattering	39	west	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	22:00	22:30	0.5	18	425580	6942974	435822	6941645	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	18	northwest	n/a	n/a	one tenth	0	13.6	95	Starboard	22	Indoors	glaucous gull	1	fly	Yes	51-100	B	n/a	n/a	Actively searching	49	north	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	22:00	22:30	0.5	18	425580	6942974	435822	6941645	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	18	northwest	n/a	n/a	one tenth	0	13.6	95	Starboard	22	Indoors	Sabine's gull	1	fly	Yes	0-50	A	n/a	n/a	Actively searching	49	west	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	22:00	22:30	0.5	18	425580	6942974	435822	6941645	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	18	northwest	n/a	n/a	one tenth	0	13.6	95	Starboard	22	Indoors	glaucous gull	2	fly	Yes	0-50	A	n/a	n/a	Pattering	39	south	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	22:00	22:30	0.5	18	425580	6942974	435822	6941645	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	18	northwest	n/a	n/a	one tenth	0	13.6	95	Starboard	22	Indoors	glaucous gull	5	fly	Yes	0-50	A	n/a	n/a	Pattering	39	west	Immature	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	17:00	17:30	0.5	17	608726	6948754	619431	6950611	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	15	northwest	n/a	n/a	one tenth	0	12.2	85	Starboard	22	Indoors	gull sp.	1	water	Yes	51-100	B	With seaweed	17	Surface pecking	44	n/a	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	17:00	17:30	0.5	17	608726	6948754	619431	6950611	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	15	northwest	n/a	n/a	one tenth	0	12.2	85	Starboard	22	Indoors	glaucous gull	3	fly	Yes	0-50	A	n/a	n/a	Pattering	39	west	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	17:00	17:30	0.5	17	608726	6948754	619431	6950611	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	15	northwest	n/a	n/a	one tenth	0	12.2	85	Starboard	22	Indoors	glaucous gull	2	fly	Yes	0-50	A	n/a	n/a	Pattering	39	west	Immature	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	17:00	17:30	0.5	17	608726	6948754	619431	6950611	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	15	northwest	n/a	n/a	one tenth	0	12.2	85	Starboard	22	Indoors	glaucous gull	2	fly	Yes	0-50	A	n/a	n/a	Actively searching	49	east	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	12:30	13:00	0.5	17	506255	6936944	517043	6938468	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	1	1	6	northwest	n/a	n/a	one tenth	0	12.8	78	Starboard	22	Indoors	pomarine jaeger	1	fly	Yes	0-50	A	n/a	n/a	Actively searching	49	south	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	12:30	13:00	0.5	17	506255	6936944	517043	6938468	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	1	1	6	northwest	n/a	n/a	one tenth	0	12.8	78	Starboard	22	Indoors	gull sp.	1	fly	Yes	51-100	B	n/a	n/a	Pattering	39	west	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	12:30	13:00	0.5	17	506255	6936944	517043	6938468	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	1	1	6	northwest	n/a	n/a	one tenth	0	12.8	78	Starboard	22	Indoors	Wilson's storm-petrel	3	fly	Yes	0-50	A	n/a	n/a	Actively searching	49	south	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/19	Transect	17:00	17:30	0.5	16	383156	6926917	394179	6924506	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright on the observer's side of vessel	2	3	1	17	west	n/a	n/a	one tenth	0	13.2	100	Starboard	22	Indoors	glaucous gull	8	fly	Yes	51-100	B	n/a	n/a	Pattering	39	south	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/19	Transect	17:00	17:30	0.5	16	383156	6926917	394179	6924506	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright on the observer's side of vessel	2	3	1	17	west	n/a	n/a	one tenth	0	13.2	100	Starboard	22	Indoors	glaucous gull	2	fly	Yes	51-100	B	n/a	n/a	Pattering	39	south	Immature	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/19	Transect	17:00	17:30	0.5	16	383156	6926917	394179	6924506	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright on the observer's side of vessel	2	3	1	17	west	n/a	n/a	one tenth	0	13.2	100	Starboard	22	Indoors	northern fulmar	2	fly	Yes	0-50	A	n/a	n/a	Actively searching	49	south	Adult	Non-breeding	Male
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/19	Transect	17:00	17:30	0.5	16	383156	6926917	394179	6924506	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright on the observer's side of vessel	2	3	1																									

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort (hrs)	Zone	UTM Starting		UTM Ending		Platform Activity	Visibility (km)	Weather	Weather Code	Glare Conditions	Glare Code	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type	Ice Type Code	Ice Concentration	Ice Concentration Code	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors	Species	Count	Fly or Water	In Transect	Distance	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
									Easting	Northing	Easting	Northing																																	
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	22:00	22:30	0.5	16	564059	6893913	552923	6895391	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	2	2	13	south	n/a	n/a	one tenth	0	12.8	279	Starboard	22	Indoors	glaucous gull	1	fly	Yes	0-50	A	n/a	n/a	Pattering	39	east	Immature	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	17:00	17:30	0.5	17	363459	6875995	353321	6878091	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	3	2	17	southwest	n/a	n/a	one tenth	0	11.3	278	Starboard	22	Indoors	Wilson's storm-petrel	2	fly	Yes	51-100	B	n/a	n/a	Aerial	36	north	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	17:00	17:30	0.5	17	363459	6875995	353321	6878091	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	3	2	17	southwest	n/a	n/a	one tenth	0	11.3	278	Starboard	22	Indoors	Sabine's gull	1	fly	Yes	0-50	A	Approaching observation platform	20	Aerial	36	south	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	12:00	12:30	0.5	17	445535	6917885	438674	6910390	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	20	southwest	n/a	n/a	one tenth	0	11.5	223	Starboard	22	Indoors	glaucous gull	1	fly	Yes	0-50	A	n/a	n/a	Actively searching	49	west	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	12:00	12:30	0.5	17	445535	6917885	438674	6910390	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	20	southwest	n/a	n/a	one tenth	0	11.5	223	Starboard	22	Indoors	gull sp.	1	fly	Yes	51-100	B	n/a	n/a	Aerial	36	north	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	12:00	12:30	0.5	17	445535	6917885	438674	6910390	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	20	southwest	n/a	n/a	one tenth	0	11.5	223	Starboard	22	Indoors	dovekie	12	fly	Yes	0-50	A	n/a	n/a	Aerial	36	west	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/12	Transect	12:30	13:00	0.5	18	596660	6928686	587694	6932896	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	22	southeast	n/a	n/a	one tenth	0	11.1	297	Starboard	22	Indoors	glaucous gull	2	fly	Yes	0-50	A	n/a	n/a	Aerial	36	north	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/12	Transect	12:30	13:00	0.5	18	596660	6928686	587694	6932896	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	22	southeast	n/a	n/a	one tenth	0	11.1	297	Starboard	22	Indoors	glaucous gull	1	fly	Yes	0-50	A	n/a	n/a	Aerial	36	north	Immature	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/12	Transect	12:30	13:00	0.5	18	596660	6928686	587694	6932896	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	22	southeast	n/a	n/a	one tenth	0	11.1	297	Starboard	22	Indoors	gull sp.	1	fly	Yes	0-50	A	n/a	n/a	Aerial	36	east	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	22:00	22:30	0.5	19	521698	6810566	511988	6815532	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright and forward of vessel	3	2	1	10	northwest	n/a	n/a	one tenth	0	12.5	298	Starboard	22	Indoors	thick-billed murre	1	water	Yes	51-100	B	n/a	n/a	Resting or sleeping	60	n/a	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	22:00	22:30	0.5	19	521698	6810566	511988	6815532	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright and forward of vessel	3	2	1	10	northwest	n/a	n/a	one tenth	0	12.5	298	Starboard	22	Indoors	gull sp.	6	water	Yes	0-50	A	n/a	n/a	Resting or sleeping	60	n/a	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	22:00	22:30	0.5	19	521698	6810566	511988	6815532	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright and forward of vessel	3	2	1	10	northwest	n/a	n/a	one tenth	0	12.5	298	Starboard	22	Indoors	glaucous gull	1	fly	Yes	0-50	A	n/a	n/a	Pattering	39	north	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	22:00	22:30	0.5	19	521698	6810566	511988	6815532	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright and forward of vessel	3	2	1	10	northwest	n/a	n/a	one tenth	0	12.5	298	Starboard	22	Indoors	gull sp.	1	fly	Yes	51-100	B	n/a	n/a	Actively searching	49	south	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	12:30	13:00	0.5	20	379189	6723606	370046	6728197	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	2	2	6	235	n/a	n/a	one tenth	0	12.6	297	Starboard	22	Indoors	northern fulmar	6	fly	Yes	0-50	A	n/a	n/a	Pattering	39	west	Juvenile	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	12:30	13:00	0.5	20	379189	6723606	370046	6728197	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	2	2	6	235	n/a	n/a	one tenth	0	12.6	297	Starboard	22	Indoors	northern fulmar	1	fly	Yes	0-50	A	n/a	n/a	Pattering	39	west	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	12:30	13:00	0.5	20	379189	6723606	370046	6728197	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	2	2	6	235	n/a	n/a	one tenth	0	12.6	297	Starboard	22	Indoors	gull sp.	2	fly	Yes	0-50	A	n/a	n/a	Pattering	39	south	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	12:30	13:00	0.5	20	379189	6723606	370046	6728197	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	2	2	6	235	n/a	n/a	one tenth	0	12.6	297	Starboard	22	Indoors	gull sp.	1	fly	Yes	0-50	A	n/a	n/a	Aerial	36	north	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	12:30	13:00	0.5	20	379189	6723606	370046	6728197	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	2	2	6	235	n/a	n/a	one tenth	0	12.6	297	Starboard	22	Indoors	northern fulmar	15	fly	Yes	0-50	A	n/a	n/a	Pattering	39	west	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	12:30	13:00	0.5	20	379189	6723606	370046	6728197	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	2	2	6	235	n/a	n/a	one tenth	0	12.6	297	Starboard	22	Indoors	gull sp.	8	water	Yes	0-50	A	n/a	n/a	Resting or sleeping	60	n/a	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	17:30	18:00	0.5	19	609508	6770424	599317	6774209	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	1	1	6	0	n/a	n/a	one tenth	0	11.7	297	Starboard	22	Indoors	gull sp.	3	fly	Yes	0-50	A	n/a	n/a	Pattering	39	north	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	17:30	18:00	0.5	19	609508	6770424	599317	6774209	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	1	1	6	0	n/a	n/a	one tenth	0	11.7	297	Starboard	22	Indoors	gull sp.	1	water	Yes	0-50	A	n/a	n/a	Preening or bathing	66	n/a	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	17:30	18:00	0.5	19	609508	6770424	599317	6774209	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	1	1	6	0	n/a	n/a	one tenth	0	11.7	297	Starboard	22	Indoors	gull sp.	1	fly	Yes	0-50	A	Approaching observation platform	20	Aerial	36	west	Immature	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	17:30	18:00	0.5	19	609508	6770424	599317	6774209	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	1	1	6	0	n/a	n/a	one tenth	0	11.7	297	Starboard	22	Indoors	glaucous gull	6	water	Yes	0-50	A	n/a	n/a	Resting or sleeping	60	n/a	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	17:30	18:00	0.5	19	609508	6770424	599317	6774209	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	1	1	6	0	n/a	n/a	one tenth	0	11.7	297	Starboard	22	Indoors	thick-billed murre	4	water	Yes	0-50	A	n/a	n/a	Resting or sleeping	60	n/a	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/12	Transect	17:00	17:30	0.5	18	491256	6935094	479264	6936632	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	7	130	n/a	n/a	one tenth	0	14.3	279	Starboard	22	Indoors	glaucous gull	2	water	Yes	101-200	C	n/a	n/a	Preening or bathing	66	n/a	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/12	Transect	17:00	17:30	0.5	18	491256	6935094	479264	6936632	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	7	130	n/a	n/a	one tenth	0	14.3	279	Starboard	22	Indoors	glaucous gull	1	fly	Yes	0-50	A	n/a	n/a	Aerial	36	west	Adult	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/12	Transect	22:00	22:30	0.5	18	379956	6947845	372569	6949237	Travelling	12	patchy fog	2	slight/grey	1	4	2	28	315	n/a	n/a	one tenth	0	9.2	280	Starboard	22	Indoors	gull sp.	1	fly	Yes	0-50	A	n/a	n/a	Actively searching	49	west	Immature	Non-breeding	Male
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/12	Transect	22:00	22:30	0.5	18	379956	6947845	372569	6949237	Travelling	12	patchy fog	2	slight/grey	1	4	2	28	315	n/a	n/a	one tenth	0	9.2	280	Starboard	22	Indoors	glaucous gull	1	fly	Yes	0-50	A	n/a	n/a	Escape from ship (by flying)	71	north			

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort (hrs)	Zone	UTM Starting		UTM Ending		Platform Activity	Visibility (km)	Weather	Weather Code	Glare Conditions	Glare Code	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type	Ice Type Code	Ice Concentration	Ice Concentration Code	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors	Species	Count	Fly or Water	In Transect	Distance	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex		
									Easting	Northing	Easting	Northing																																			
n/a	Acadia Desgagnes	Michael Galarneau	2018/07/22	Transect	14:40	15:10	0.5	19	646337	6791328	635200	6791848	Travelling	20	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	3	270	Ice Cake	3	four tenths	2	7	276	Starboard	16	Indoors	glaucous gull	4	fly	Yes	51-100	B	With observation platform	18	Aerial	36	west	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	9:15	9:45	0.5	19	385962	6912549	n/a	n/a	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.5	300	Starboard	16	Indoors	dovekie	2	water	No	51-100	B	With front	13	Scavenging	40	n/a	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	9:15	9:45	0.5	19	385962	6912549	n/a	n/a	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.5	300	Starboard	16	Indoors	dovekie	3	water	No	51-100	B	With front	13	Scavenging	40	n/a	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	9:15	9:45	0.5	19	385962	6912549	n/a	n/a	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.5	300	Starboard	16	Indoors	black guillemot	30	fly	No	101-200	C	Approaching observation platform	20	n/a	n/a	n/a	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	9:15	9:45	0.5	19	385962	6912549	n/a	n/a	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.5	300	Starboard	16	Indoors	black guillemot	15	fly	Yes	201-300	D	Approaching observation platform	20	n/a	n/a	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	9:15	9:45	0.5	19	385962	6912549	n/a	n/a	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.5	300	Starboard	16	Indoors	thick-billed murre	1	fly	Yes	within 300 m but no distance recorded	3	With observation platform	18	n/a	n/a	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	9:15	9:45	0.5	19	385962	6912549	n/a	n/a	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.5	300	Starboard	16	Indoors	thick-billed murre	1	fly	Yes	within 300 m but no distance recorded	3	With observation platform	18	n/a	n/a	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	9:15	9:45	0.5	19	385962	6912549	n/a	n/a	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.5	300	Starboard	16	Indoors	dovekie	2	fly	Yes	51-100	B	n/a	n/a	n/a	n/a	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	9:15	9:45	0.5	19	385962	6912549	n/a	n/a	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.5	300	Starboard	16	Indoors	dovekie	1	fly	Yes	51-100	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	9:15	9:45	0.5	19	385962	6912549	n/a	n/a	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.5	300	Starboard	16	Indoors	dovekie	1	water	No	0-50	A	With front	13	Scavenging	40	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	9:15	9:45	0.5	19	385962	6912549	n/a	n/a	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.5	300	Starboard	16	Indoors	dovekie	2	fly	Yes	51-100	B	n/a	n/a	n/a	n/a	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	18:30	19:00	0.5	18	530672	6995353	520902	6997559	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.3	283	Starboard	16	Indoors	thick-billed murre	1	fly	Yes	51-100	B	Approaching observation platform	20	n/a	n/a	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	18:30	19:00	0.5	18	530672	6995353	520902	6997559	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.3	283	Starboard	16	Indoors	black guillemot	30	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	18:30	19:00	0.5	18	530672	6995353	520902	6997559	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.3	283	Starboard	16	Indoors	thick-billed murre	2	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	18:30	19:00	0.5	18	530672	6995353	520902	6997559	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.3	283	Starboard	16	Indoors	thick-billed murre	3	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	18:30	19:00	0.5	18	530672	6995353	520902	6997559	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.3	283	Starboard	16	Indoors	black guillemot	20	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	18:30	19:00	0.5	18	530672	6995353	520902	6997559	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.3	283	Starboard	16	Indoors	thick-billed murre	1	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	18:30	19:00	0.5	18	530672	6995353	520902	6997559	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.3	283	Starboard	16	Indoors	dovekie	1	fly	No	51-100	B	Associated with observation platform	18	n/a	n/a	west	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	18:30	19:00	0.5	18	530672	6995353	520902	6997559	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	260	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.3	283	Starboard	16	Indoors	thick-billed murre	2	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	22:00	22:30	0.5	18	463111	7006765	453243	7004200	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	210	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.3	255	Starboard	16	Indoors	thick-billed murre	1	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	22:00	22:30	0.5	18	463111	7006765	453243	7004200	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	210	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.3	255	Starboard	16	Indoors	dovekie	1	fly	Yes	101-200	C	Approaching observation platform	20	Actively searching	49	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	22:00	22:30	0.5	18	463111	7006765	453243	7004200	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	210	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.3	255	Starboard	16	Indoors	thick-billed murre	2	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	22:00	22:30	0.5	18	463111	7006765	453243	7004200	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	210	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.3	255	Starboard	16	Indoors	thick-billed murre	4	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	22:00	22:30	0.5	18	463111	7006765	453243	7004200	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	210	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.3	255	Starboard	16	Indoors	dovekie	1	fly	No	101-200	C	Associated with observation platform	18	Actively searching	49	west	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/23	Transect	22:00	22:30	0.5	18	463111	7006765	453243	7004200	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	210	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.3	255	Starboard	16	Indoors	thick-billed murre	2	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/24	Transect	9:15	9:45	0.5	17	545959	6932187	536151	6928166	Travelling	75	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	1	210	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.1	248	Starboard	16	Indoors	black guillemot	20	fly	Yes	51-100	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a			
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/07/24	Transect	9:15	9:45	0.5	17	545959	6932187	536151	6928166	Travelling	75	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	1	210	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.1	248	Starboard	16	Indoors	dovekie	3	water	No	51-100	B	With observation platform	18	Actively searching	49	south	n/a				

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort (hrs)	Zone	UTM Starting		UTM Ending		Platform Activity	Visibility (km)	Weather	Weather Code	Glare Conditions	Glare Code	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type	Ice Type Code	Ice Concentration	Ice Concentration Code	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors	Species	Count	Fly or Water	In Transect	Distance	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex		
									Easting	Northing	Easting	Northing																																			
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/24	Transect	9:15	9:45	0.5	17	545959	6932187	536151	6928166	Travelling	75	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	1	210	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.1	248	Starboard	16	Indoors	dovekie	3	water	No	51-100	B	With observation platform	18	Actively searching	49	n/a	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/24	Transect	18:00	18:30	0.5	17	365792	6876868	355651	6879050	Travelling	20	patchy fog	2	slight/grey	1	3	1	4	210	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.9	279	Starboard	16	Indoors	dovekie	4	water	No	101-200	C	With observation platform	18	Surface pecking	44	n/a	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/24	Transect	22:15	22:45	0.5	16	585478	6891638	574298	6893026	Travelling	0.5	solid fog	3	slight/grey	1	1	1	3	190	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.9	279	Starboard	16	Indoors	No Observations	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/25	Transect	10:30	11:00	0.5	15	630787	6938309	620105	6939781	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	2	5	190	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.3	280	Starboard	16	Indoors	glaucous gull	3	fly	Yes	101-200	C	With observation platform	18	Actively searching	49	n/a	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/25	Transect	10:30	11:00	0.5	15	630787	6938309	620105	6939781	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	2	5	190	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.3	280	Starboard	16	Indoors	glaucous gull	1	fly	Yes	101-200	C	With observation platform	18	Actively searching	49	n/a	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/25	Transect	10:30	11:00	0.5	15	630787	6938309	620105	6939781	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	2	5	190	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.3	280	Starboard	16	Indoors	dovekie	1	fly	Yes	101-200	C	Approaching observation platform	20	Actively searching	49	n/a	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/25	Transect	10:30	11:00	0.5	15	630787	6938309	620105	6939781	Travelling	40	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	2	5	190	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	11.3	280	Starboard	16	Indoors	duck sp.	3	fly	No	201-300	D	n/a	n/a	n/a	n/a	n/a	n/a	n/a			
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/27	Transect	11:05	11:35	0.5	15	631597	6992562	630434	6997757	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	4	270	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	5.8	349	Starboard	16	Indoors	gull sp.	1	fly	Yes	201-300	D	Approaching observation platform	20	n/a	n/a	north	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/27	Transect	11:05	11:35	0.5	15	631597	6992562	630434	6997757	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	4	270	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	5.8	349	Starboard	16	Indoors	Iceland gull	1	fly	Yes	201-300	D	Approaching observation platform	20	n/a	n/a	north	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/27	Transect	11:05	11:35	0.5	15	631597	6992562	630434	6997757	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	4	270	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	5.8	349	Starboard	16	Indoors	Iceland gull	2	fly	Yes	101-200	C	With other vessel (excluding fishing vessel; see code 26)	21	n/a	n/a	north	n/a	n/a	n/a	n/a	n/a
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/27	Transect	18:00	18:30	0.5	15	582357	7055314	573406	7056654	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	5	255	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	9.3	288	Starboard	16	Indoors	thick-billed murre	1	fly	Yes	201-300	D	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/27	Transect	18:00	18:30	0.5	15	582357	7055314	573406	7056654	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	5	255	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	9.3	288	Starboard	16	Indoors	glaucous gull	2	fly	No	201-300	D	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/27	Transect	18:00	18:30	0.5	15	582357	7055314	573406	7056654	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	5	255	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	9.3	288	Starboard	16	Indoors	glaucous gull	2	water	No	201-300	D	With front	13	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/27	Transect	18:00	18:30	0.5	15	582357	7055314	573406	7056654	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	5	255	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	9.3	288	Starboard	16	Indoors	glaucous gull	4	water	No	201-300	D	With front	13	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/01	Transect	19:30	20:00	0.5	15	625321	6961998	618695	6956327	Travelling	10	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	4	2	5	230	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.9	225	Starboard	16	Indoors	long-tailed jaeger	1	fly	No	201-300	D	n/a	n/a	n/a	Feeding	33	northeast	n/a	n/a	n/a	n/a
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/02	Transect	9:50	10:20	0.5	16	461850	6911848	473161	6909751	Travelling	30	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	1.5	5	75	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.9	102	Starboard	16	Indoors	thick-billed murre	2	fly	No	101-200	C	Approaching observation platform	20	Feeding	33	no apparent direction	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/02	Transect	9:50	10:20	0.5	16	461850	6911848	473161	6909751	Travelling	30	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	1.5	5	75	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	10.9	102	Starboard	16	Indoors	Iceland gull	1	fly	Yes	201-300	D	n/a	n/a	n/a	n/a	unknown	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/02	Transect	18:25	18:55	0.5	17	347931	6880856	358825	6878489	Travelling	13	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	3	1	4	0	12.6	100	Starboard	16	Outdoors	thick-billed murre	1	fly	Yes	101-200	C	n/a	n/a	n/a	n/a	n/a	n/a	unknown	n/a	n/a	n/a	n/a			
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/02	Transect	18:25	18:55	0.5	17	347931	6880856	358825	6878489	Travelling	13	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	3	1	4	0	12.6	100	Starboard	16	Outdoors	sandpiper sp.	1	on deck	No	0-50	A	Sitting on observation platform	19	Resting or sleeping	60	n/a	n/a	n/a	n/a	n/a	n/a				
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/02	Transect	18:25	18:55	0.5	17	347931	6880856	358825	6878489	Travelling	13	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	3	1	4	0	12.6	100	Starboard	16	Outdoors	common eider	1	fly	No	201-300	D	n/a	n/a	n/a	n/a	Feeding	33	no apparent direction	n/a	n/a	n/a	n/a			
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/02	Transect	22:00	22:30	0.5	17	426060	6884364	435349	6889281	Travelling	25	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	3	1	4	0	11.4	62	Starboard	16	Outdoors	common eider	3	fly	Yes	201-300	D	n/a	n/a	n/a	n/a	Feeding	33	no apparent direction	n/a	n/a	n/a	n/a			
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/03	Transect	10:00	10:30	0.5	18	376562	6962002	390202	6962206	Travelling	10	patchy fog	2	slight/grey	1	2	1	4	32	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.7	83	Starboard	16	Indoors	thick-billed murre	25	fly	Yes	101-200	C	n/a	n/a	n/a	n/a	n/a	south	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/03	Transect	10:00	10:30	0.5	18	376562	6962002	390202	6962206	Travelling	10	patchy fog	2	slight/grey	1	2	1	4	32	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.7	83	Starboard	16	Indoors	thick-billed murre	15	fly	Yes	101-200	C	n/a	n/a	n/a	n/a	n/a	south	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/03	Transect	10:00	10:30	0.5	18	376562	6962002	390202	6962206	Travelling	10	patchy fog	2	slight/grey	1	2	1	4	32	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.7	83	Starboard	16	Indoors	thick-billed murre	20	fly	Yes	101-200	C	n/a	n/a	n/a	n/a	n/a	south	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/03	Transect	10:00	10:30	0.5	18	376562	6962002	390202	6962206	Travelling	10	patchy fog	2	slight/grey	1	2	1	4	32	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.7	83	Starboard	16	Indoors	thick-billed murre	15	fly	Yes	101-200	C	n/a	n/a	n/a	n/a	n/a	south	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/03	Transect	10:00	10:30	0.5	18	376562	6962002	390202	6962206	Travelling	10	patchy fog	2	slight/grey	1	2	1	4	32	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.7	83	Starboard	16	Indoors	thick-billed murre	1	fly	Yes	101-200	C	n/a	n/a	n/a	n/a	north	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/03	Transect	10:00	10:30	0.5	18	376562	6962002	390202	6962206	Travelling	10	patchy fog	2	slight/grey	1	2	1	4	32	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.7	83	Starboard	16	Indoors	thick-billed murre	1	fly	Yes	101-200	C	n/a	n/a	n/a	n/a	north	n/a	n/a	n/a		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/03	Transect	10:00</																																										

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort (hrs)	Zone	UTM Starting		UTM Ending		Platform Activity	Visibility (km)	Weather	Weather Code	Glare Conditions	Glare Code	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type	Ice Type Code	Ice Concentration	Ice Concentration Code	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors	Species	Count	Fly or Water	In Transect	Distance	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex		
									Easting	Northing	Easting	Northing																																			
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	8:25	8:55	0.5	19	553421	6827936	566404	6822460	Travelling	30	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	3	1	20	145	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.2	122	Starboard	16	Indoors	dovekie	1	water	No	51-100	B	Associated with observation platform	18	Surface pecking	44	n/a	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	8:25	8:55	0.5	19	553421	6827936	566404	6822460	Travelling	30	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	3	1	20	145	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.2	122	Starboard	16	Indoors	dovekie	1	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	8:25	8:55	0.5	19	553421	6827936	566404	6822460	Travelling	30	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	3	1	20	145	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.2	122	Starboard	16	Indoors	Iceland gull	1	fly	Yes	201-300	D	Approaching observation platform	20	n/a	n/a	north	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	8:25	8:55	0.5	19	553421	6827936	566404	6822460	Travelling	30	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	3	1	20	145	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.2	122	Starboard	16	Indoors	dovekie	1	water	No	101-200	C	With observation platform	18	Surface pecking	44	n/a	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	8:25	8:55	0.5	19	553421	6827936	566404	6822460	Travelling	30	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	3	1	20	145	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.2	122	Starboard	16	Indoors	Iceland gull	2	fly	Yes	201-300	D	Approaching observation platform	20	n/a	n/a	north	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	8:25	8:55	0.5	19	553421	6827936	566404	6822460	Travelling	30	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	3	1	20	145	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.2	122	Starboard	16	Indoors	dovekie	5	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	8:25	8:55	0.5	19	553421	6827936	566404	6822460	Travelling	30	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	3	1	20	145	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.2	122	Starboard	16	Indoors	dovekie	1	fly	Yes	101-200	C	Approaching observation platform	20	n/a	n/a	north	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	18:10	18:40	0.5	20	429295	6743030	440467	6739243	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	1	5	170	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	13	108	Starboard	16	Indoors	Iceland gull	25	fly	Yes	51-100	B	With observation platform	18	Actively searching	49	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	18:10	18:40	0.5	20	429295	6743030	440467	6739243	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	1	5	170	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	13	108	Starboard	16	Indoors	Iceland gull	12	fly	Yes	51-100	B	With observation platform	18	Actively searching	49	no apparent direction	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	18:10	18:40	0.5	20	429295	6743030	440467	6739243	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	1	5	170	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	13	108	Starboard	16	Indoors	Iceland gull	4	fly	Yes	51-100	B	With observation platform	18	Actively searching	49	south	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	18:10	18:40	0.5	20	429295	6743030	440467	6739243	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	1	5	170	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	13	108	Starboard	16	Indoors	Iceland gull	3	fly	Yes	51-100	B	With observation platform	18	Actively searching	49	north	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	18:10	18:40	0.5	20	429295	6743030	440467	6739243	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	1	5	170	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	13	108	Starboard	16	Indoors	Iceland gull	2	fly	Yes	51-100	B	With observation platform	18	Actively searching	49	north	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	18:10	18:40	0.5	20	429295	6743030	440467	6739243	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	1	5	170	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	13	108	Starboard	16	Indoors	Iceland gull	4	fly	Yes	51-100	B	With observation platform	18	Actively searching	49	southwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	21:45	22:15	0.5	20	499121	6704814	499697	6692767	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	4	315	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.1	176	Starboard	16	Indoors	Iceland gull	1	fly	Yes	51-100	B	Associated with observation platform	18	Feeding	33	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	21:45	22:15	0.5	20	499121	6704814	499697	6692767	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	4	315	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.1	176	Starboard	16	Indoors	Iceland gull	1	fly	Yes	51-100	B	With observation platform	18	Feeding	33	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	21:45	22:15	0.5	20	499121	6704814	499697	6692767	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	4	315	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.1	176	Starboard	16	Indoors	Iceland gull	1	fly	Yes	51-100	B	With observation platform	18	Feeding	33	southeast	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	21:45	22:15	0.5	20	499121	6704814	499697	6692767	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	4	315	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.1	176	Starboard	16	Indoors	Iceland gull	1	water	No	51-100	B	Associated with front	13	Feeding	33		n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	21:45	22:15	0.5	20	499121	6704814	499697	6692767	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	4	315	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.1	176	Starboard	16	Indoors	Iceland gull	1	fly	Yes	51-100	B	With observation platform	18	Feeding	33	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	21:45	22:15	0.5	20	499121	6704814	499697	6692767	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	4	315	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.1	176	Starboard	16	Indoors	Iceland gull	2	fly	Yes	51-100	B	With observation platform	18	Feeding	33	north	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	21:45	22:15	0.5	20	499121	6704814	499697	6692767	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	4	315	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.1	176	Starboard	16	Indoors	Iceland gull	5	fly	Yes	51-100	B	With observation platform	18	Feeding	33	northwest	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	21:45	22:15	0.5	20	499121	6704814	499697	6692767	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	4	315	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.1	176	Starboard	16	Indoors	Iceland gull	2	fly	Yes	51-100	B	With observation platform	18	Feeding	33	no apparent direction	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarneau	2018/08/04	Transect	21:45	22:15	0.5	20	499121	6704814	499697	6692767	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	4	315	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	12.1	176	Starboard	16	Indoors	Iceland gull	2	fly	Yes	51-100	B	With observation platform	18	Feeding	33	no apparent direction	n/a	n/a	n/a	n/a	
Desgagnes	Nordika Desgagnes	n/a	2018/10/23	Transect	8:30	n/a	n/a	20	431653	6700316	n/a	n/a	Travelling	15	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	10	270	n/a	n/a	n/a	13	113	Starboard	n/a	Outdoors	duck sp.	10	fly	No	101-200	C	n/a	n/a	n/a	n/a	south	adult	n/a	n/a	n/a		
Desgagnes	Nordika Desgagnes	Nick Brownstein	2018/10/20	Transect	15:00	15:30	0.5	17	395365	7001393	418240	7001477	Travelling	20	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	13	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	13	90	Starboard	30	Indoors	common loon	1	fly	No	51-100	B	n/a	n/a	n/a	n/a	south	n/a	n/a	n/a	n/a	
Desgagnes	Nordika Desgagnes	Nick Brownstein	2018/10/20	Transect	15:00	15:30	0.5	17	395365	7001393	418240	7001477	Travelling	20	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	13	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	13	90	Starboard	30	Indoors	harlequin duck	10	fly	No	101-200	C	n/a	n/a	n/a	n/a	southwest	n/a	n/a	n/a	n/a	
Desgagnes	Nordika Desgagnes	Nick Brownstein	2018/10/20	Transect	15:00	15:30	0.5	17	395365	7001393	418240	7001477	Travelling	20	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	13	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	13	90	Starboard	30	Indoors	unknown	5	water	No	0-50	A	n/a	n/a	Escape from ship (by diving)	93	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Nordika Desgagnes	Nick Brownstein	2018/10/20	Transect	15:00	15:30	0.5	17	395365	7001393	418240	7001477	Travelling	20	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	13	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	13	90	Starboard	30	Indoors	unknown	3	fly	Yes												

Table A-2: Marine Mammal Sightings and Environmental Variables Recorded during 2018 MMSO Program

Company/Agency	Platform Name and Type	Observer(s)	Date	Survey Type	Time at Start	Time at End	Effort (hrs)	Zone	UTM Start		UTM End		Platform Activity	Visibility (km)	Weather	Weather Code	Glare Conditions	Glare Code	Sea State Code	Wave Height (m)	True wind speed (knots)	True Wind Direction	Ice Type Code	Ice Concentration Code	True Platform Speed (Knots)	True Platform Direction (deg)	Observation Side	Height of Eye (m)	Outdoors or Indoors	Species
									Easting	Northing	Easting	Northing																		
Agnico Eagle Meadowbank	Acadia Desgagnes	Michel Galaireau	2018/07/22	Transect	14:40	16:10	1:30	19	646356	6791329	623750	6791276	Traveling	75	n/a	0	n/a	0	0	-1	3	270	3	2	7	276	Starboard	16	indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michel Galaireau	2018/07/23	Transect	18:30	20:00	1:30	18	530672	6995353	504175	7001803	Travelling	70	n/a	0	0	0	2	4	260	0	0	10.3	283	Starboard	16	indoors	No Observations	
Agnico Eagle Meadowbank	Acadia Desgagnes	Michel Galaireau	2018/07/24	Transect	18:00	19:00	1:00	17/16	365792	6876868	646904	6883193	Traveling	2-40	n/a	2	n/a	1	3	-1	4	210	0	0	12.9	279	Starboard	16	indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michel Galaireau	2018/07/27	Transect	18:00	19:30	1:30	15	582357	7055314	n/a	n/a	Traveling	50	n/a	0	n/a	0	1	-1	5	255	0	0	9.3	288	Starboard	16	indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michel Galaireau	2018/08/01	Transect	18:30	20:00	1:30	15	635070	6978167	618695	6956327	Traveling	10	n/a	1	n/a	1	4	2	5	55 (west)	0	0	10.9	225	Starboard	16	indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michel Galaireau	2018/08/02	Transect	18:05	19:35	1:30	16/17	655471	6882070	375325	6874981	Traveling	20	n/a	1	n/a	1	3	1	4	0	0	0	12.6	100	Starboard	16	indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michel Galaireau	2018/08/03	Transect	18:10	19:40	1:30	18	591007	6922991	629228	6916770	Traveling	20	n/a	2	n/a	1	2	1.5	4	40	0	0	12.5	114	Starboard	16	Outdoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michel Galaireau	2018/08/04	Transect	17:10	18:40	1:30	20	424527	6710915	441939	6704277	Traveling	50	n/a	0	n/a	0	4	1	5	170	0	0	13	108	Starboard	16	indoors	No Observations
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/12	Transect	12:00	12:30	0:30	18	605746	6924131	597009	6928510	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	21	135	n/a	n/a	10.7	299	starboard	22	Indoors	No Observations
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	22:30	23:00	0:30	19	511543	6815902	500798	6820710	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright and forward of vessel	3	2	1	8	315	n/a	n/a	12.8	297	starboard	22	Indoors	No Observations
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	12:00	12:30	0:30	20	389696	6718067	379639	6723404	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	2	2	10	235	n/a	n/a	12.2	297	starboard	22	Indoors	No Observations
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/11	Transect	17:00	17:30	0:30	19	619554	6766291	609508	6770424	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	1	1	7	0	n/a	n/a	11.8	295	starboard	22	Outdoors	No Observations
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/12	Transect	17:30	18:00	0:30	18	479178	6936633	465314	6938420	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	8	135	n/a	n/a	14.7	279	starboard	22	Indoors	No Observations
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/12	Transect	22:30	23:00	0:30	18	372312	6949247	363534	6949969	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	27	315	n/a	n/a	8.8	276	starboard	22	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	17:30	18:00	0:30	19	549453	6797481	560343	6792453	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	bright on the observer's side of vessel	2	2	2	14	315	n/a	n/a	12.8	116	starboard	22	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/19	Transect	17:30	18:00	0:30	16	394524	6924495	406342	6922284	Travelling	12	> 50% cloud cover (with no fog, rain, or snow)	1	bright on the observer's side of vessel	2	4	1	12	270	n/a	n/a	13.1	98	starboard	22	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	22:30	23:00	0:30	19	657429	6748256	344024	6742059	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	6	315	n/a	n/a	13.7	115	starboard	22	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/21	Transect	12:00	12:30	0:30	19	432042	6854989	441969	6849977	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	1	18	270	n/a	n/a	12.5	115	starboard	22	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	22:30	23:00	0:30	18	435993	6941642	448209	6940128	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	21	315	n/a	n/a	12.5	98	starboard	22	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	17:30	18:00	0:30	17	619516	6950614	631007	6951792	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	3	2	15	315	n/a	n/a	12.5	87	starboard	22	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/20	Transect	12:00	12:30	0:30	17	497510	6930255	505912	6936944	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	1	1	4	315	n/a	n/a	12.6	48	starboard	22	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Stephen Badcock	2018/09/19	Transect	22:30	23:00	0:30	16	515586	6901696	527465	6899729	Travelling	16	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	2	1	8	270	n/a	n/a	13.4	100	starboard	22	Indoors	No Observations
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	22:30	23:00	0:30	16	552836	6895390	593198	6898493	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	2	2	16	180	n/a	n/a	12.6	279	starboard	22	Indoors	No Observations
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	17:30	18:00	0:30	17	352972	6878106	655647	6880721	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	3	2	16	235	n/a	n/a	11.8	279	starboard	22	Indoors	No Observations
Desgagnes	Acadia Desgagnes	Stephen Badcock	2018/09/13	Transect	12:30	13:00	0:30	17	438497	6910207	431609	6902912	Travelling	16	> 50% cloud cover (with no fog, rain, or snow)	1	none	0	4	2	25	235	n/a	n/a	11.2	223	starboard	22	Indoors	No Observations
Desgagnes	Acadia Desgagnes	Michael Galarnececu	2018/07/22	Transect	14:40	16:10	1:30	19	646337	6791328	623750	6791276	Travelling	75	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	1	3	270	3	2	7	276	starboard	16	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/23	Transect	18:30	20:00	1:30	18	530672	6995353	504175	7001803	Travelling	70	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	0	2	4	260	0	0	10.3	283	starboard	16	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/24	Transect	18:00	19:30	1:30	17	365792	6876868	646904	6883193	Travelling	20	patchy fog	2	slight/grey	1	3	1	4	210	0	0	12.9	279	starboard	16	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/07/27	Transect	18:00	19:30	1:30	15	582357	7055314	n/a	n/a	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	1	1	5	255	0	0	9.3	288	starboard	16	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/01	Transect	18:30	20:00	1:30	15	635070	6978167	618695	6956327	Travelling	10	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	4	2	5	235	0	0	10.9	225	starboard	16	Indoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/02	Transect	18:05	19:35	1:30	16	655471	6882070	375325	6874981	Travelling	10	> 50% cloud cover (with no fog, rain, or snow)	1	slight/grey	1	3	1	4	17	0	0	12.6	100	starboard	16	Outdoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/03	Transect	18:10	19:40	1:30	18	582041	6954486	610992	6942864	Travelling	15	patchy fog	2	slight/grey	1	2	1.5	4	40	0	0	12.5	114	starboard	16	Outdoors	No Observations
Agnico Eagle Meadowbank	Acadia Desgagnes	Michael Galarnececu	2018/08/04	Transect	17:10	18:40	1:30	20	411772	6750366	440467	6739243	Travelling	50	< 50% cloud cover (with no fog, rain, or snow)	0	none	0	4	1	5	170	0	0	13	108	starboard	16	Indoors	No Observations

Notes: hrs = hours of effort, UTM = Universal Transverse Mercator, km = kilometres, n/a = data not available

Table A-3: Incidental Wildlife Sightings Recorded during 2018 MMSO Program

Company/Agency	Platform Name and Type	Observer(s)	Date	Survey Type	Time at Start	Time at End	Effort (hrs)	Platform Activity	Weather	Date	Time	Species	Count	UTM Sighting Coordinates			Distance to Animal	Behaviour/Travel Direction	Sex	Comments
														Zone	Easting	Northing				
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/21	Stationary	8:50	11:55	3:05	Anchored	Clear/Cloudy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	Reloading Fuel	
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/21	Stationary	12:45	16:50	4:05	Anchored	Clear/Cloudy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	Reloading Fuel	
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/21	Stationary	17:45	21:30	3:45	Anchored	Clear/Cloudy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	Reloading Fuel	
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/22	Stationary	12:45	16:50	4:05	Anchored	Clear/Cloudy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	Reloading Fuel	
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/23	Stationary	17:45	21:30	3:45	Anchored	Clear/Cloudy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	Reloading Fuel	
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/12	n/a	7:45	11:11	3:26	n/a	Windy/Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/13	n/a	12:30	16:45	4:15	n/a	Windy/Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/14	n/a	17:40	20:35	2:55	n/a	Windy/Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/07	Transect	5:00	7:00	2:00	Travelling	Calm/Cloudy	7-Aug-18	n/a	Muskox	1 Male	n/a	n/a	n/a	n/a	Eating/Grazing	Male	Southbound to reload Fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/07	Transect	7:30	11:45	4:15	Travelling	Calm/Cloudy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to reload Fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/07	Transect	13:15	n/a	n/a	Travelling	Calm/Cloudy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to reload Fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/07	Transect	13:45	16:30	2:45	Travelling	Calm/Cloudy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to reload Fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/07	Transect	17:05	21:15	4:10	Travelling	Calm/Cloudy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to reload Fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/06	Transect	7:40	11:30	3:50	Travelling	Fair	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to Mothership to reload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/06	Transect	12:30	15:15	2:45	Travelling	Fair	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to Mothership to reload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/06	Transect	15:30	17:15	1:45	Travelling	Fair	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to Mothership to reload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/06	Transect	18:00	21:30	3:30	Travelling	Fair	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to Mothership to reload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/08	Transect	6:30	11:30	5:00	Travelling	Cloudy/ fair	8-Aug-18	7:50	Muskox	2	14	626485	7209983	2.4	Eating/Grazing	n/a	Back to Baker lake to offload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/08	Transect	12:00	16:30	4:30	Travelling	Cloudy/ fair	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Back to Baker lake to offload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/08	Transect	17:00	21:45	4:45	Travelling	Cloudy/ fair	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Back to Baker lake to offload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/10	Transect	7:55	11:15	3:20	Travelling	Fair	10-Aug-18	8:42	Muskox	26	15	428412	6764636	3.2	Eating/Grazing	n/a	Southbound to reload more fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/10	Transect	7:55	11:15	3:20	Travelling	Fair	10-Aug-18	10:37	Muskox	1	15	429609	7110968	1.1	Eating	n/a	Southbound to reload more fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/10	Transect	12:10	16:00	3:50	Travelling	Fair	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to reload more fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/10	Transect	17:00	20:30	3:30	Travelling	Fair	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to reload more fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/11	n/a	8:00	11:45	3:45	Travelling	Foggy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/11	n/a	12:25	15:45	3:20	Travelling	Foggy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/11	n/a	16:40	21:35	4:55	Travelling	Foggy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/13	Transect	7:55	11:15	3:20	Travelling	Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Back to baker lake to unload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/13	Transect	12:00	16:45	4:45	Travelling	Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Back to baker lake to unload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/13	Transect	17:30	21:00	3:30	Travelling	Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Back to baker lake to unload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/15	Transect	9:30	11:33	2:03	Travelling	Fair	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	South to reload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/15	Transect	12:45	16:50	4:05	Travelling	Fair	15-Aug-18	13:50	Muskox	2	15	435637	7100332	2.1	Eating/roaming		South to reload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/15	Transect	17:50	21:30	3:40	Travelling	Fair	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	South to reload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/16	Transect	8:30	11:55	3:25	Travelling	Clear/Windy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Back to baker lake to unload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/16	Transect	12:50	16:55	4:05	Travelling	Clear/Windy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Back to baker lake to unload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/16	Transect	17:50	21:20	3:30	Travelling	Clear/Windy	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Back to baker lake to unload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/17	Transect	8:30	11:45	3:15	Travelling	Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Back to baker lake to unload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/17	Transect	12:40	16:50	4:10	Travelling	Clear	17-Aug-18	16:18	Muskox	2	15	435486	7100135	1.5	resting		Back to baker lake to unload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/17	Transect	17:45	21:15	3:30	Travelling	Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Back to baker lake to unload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/19	Transect	9:00	11:40	2:40	Travelling	Clear	19-Aug-18	n/a	Muskox	16	15	359730	7130141	2.4	Eating		Southbound to refuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/19	Transect	12:35	16:55	4:20	Travelling	Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to refuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/19	Transect	17:32	21:15	3:43	Travelling	Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Southbound to refuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/20	Transect	8:40	12:00	3:20	Travelling	Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	South to reload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/20	Transect	13:00	n/a	n/a	Travelling	Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	South to reload fuel
Agnico Eagle Meadowbank	Dara Desgagnes	Sandy Aggark	2018/08/20	Transect	17:04	17:55	0:51	Travelling	Clear	n/a	n/a	No Observations	n/a	n/a	n/a	n/a	n/a	n/a	n/a	South to reload fuel

Notes: hrs = hours of effort, UTM = Universal Transverse Mercator, km = kilometres, n/a = data not available

APPENDIX B

MMSO Datasheets for the 2018 MMSO Program

Record sheet for a stationary platform survey

Scan Information:

Company/agency		Weather code	2
Platform name and type		Glare conditions code	
Observer(s)	Cadet Fund Hardy-M	Sea state code	1
Date (DD/MM/YYYY)	18/07/2018	Wave height (m)	< 1 ft
Time at start (UTC)	2130	True wind speed (knots) OR Beaufort code	3
Latitude	61° 25' 12" N	True wind direction (deg)	North
Longitude	067° 13' 2" W	Ice type code	3
Platform activity	SEA PASSAGE	Ice concentration code	1
Scan type	180° or other (specify:)	Height of eye (m)	
Scan direction		Outdoors or Indoors	Out or (In)
Visibility (km)	~ 6		

Notes:

Bird Information: *this field must be completed for each record

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
WOO	10	Water	No	C			ND				

¹ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.
² Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction
³ J(juvenile), I(mmature), or A(dult); ⁴ B(reeding), NB(non-breeding), M(oult)

SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

Observation Period Information:

Company/agency
 Platform name and type
 Observer (s)
 Date (DD/MM/YYYY)
 Time at start (UTC)
 Time at end (UTC)
 Latitude at start / end
 Longitude at start / end
 Platform activity
 Visibility (km)
 Weather code
 Glare conditions code★

Demagnis
Nordika
C/O
22/10/2012
08:30
60°26.5'N
064°14.5'W
underway
15'
cloudy
0

Sea state code ★
 Wave height (m)
 True wind speed (knots) OR Beaufort code
 True wind direction (deg)
 Ice type code
 Ice concentration code ★
 True platform speed (knots)
 True platform direction (deg)
 Observation site
 Height of eye (m)
 Outdoors or indoors
 Snapshot used?

3
2 ft
W 10 kts
W
—
—
13 kts
113
Starboard <input checked="" type="checkbox"/> Port <input checked="" type="checkbox"/>
<input checked="" type="radio"/> or <input type="radio"/>
Yes or <input checked="" type="radio"/> No

Notes:

Bird Information: *this field must be completed for each record

* Species	* Count	* Fly or Water?	* In transect? ★	* Distance ¹	Assoc.	Behav.	* Flight Direc. ² ★	* Age ³ ★	* Plum. ⁴ ★	Sex	Comments
Duck	10	fly		200 m			S	Adlt			

★Refer to "Codes" datasheets

SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➤ Fill out one sheet per 30 min observation period

Observation Period Information:

Company/agency	Desgagnés		Sea state code	2
Platform name and type	Nacelle Desgagnés		Wave height (m)	1.0
Observer (s)	Nick Brownlain		True wind speed (knots) OR Beaufort code	13 knots
Date (DD/MM/YYYY)	20/10/2018		True wind direction (deg)	(N) 000°
Time at start (UTC)	1500		Ice type code	0
Time at end (UTC)	1530		Ice concentration code	0
Latitude at start / end	63° 07.6' N	63° 08.0' N	True platform speed (knots)	13.3 knots
Longitude at start / end	87° 04.5' W	82° 37.3' W	True platform direction (deg)	090°
Platform activity	Underway		Observation site	Subsided Port
Visibility (km)	20		Height of eye (m)	30m
Weather code	0		Outdoors or indoors	Out or (In)
Glare conditions code★	0		Snapshot used?	Yes or (No)

Notes:

Bird Information: *this field must be completed for each record

Species	Count	Fly or Water?	In transect?★	Distance ¹	Assoc.	Behav.	Flight Direc. ² ★	Age ³ ★	Plum. ⁴ ★	Sex	Comments
COLO	1	Fly	No	B			S				
HARD	10	Fly	No	C			SW				
UNKN	5	Water	No	A		93					
UNKN	3	Fly	Yes	D			E				

★Refer to "Codes" datasheets

MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNÉS		Sea state code ★	4
Platform name and type	ACAOIA DESGAGNES		Wave height (m)	2 m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	21 kts
Date (DD/MMM/YYYY)	12/09/2018		True wind direction	SE
Time at start (UTC)	1200		Ice type code ★	N/A
Time at end (UTC)	1230		Ice concentration code ★	0
Latitude at start / end	62° 26.0'N	62° 28.5'N	True platform speed (knots)	10.7 kts
Longitude at start / end	072° 57.1'W	073° 07.1'W	True platform direction	299°
Visibility (km)	116 km		Observation side	Starboard Port Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out or In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets



MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNÈS		Sea state code ★	2
Platform name and type	ACADIA DESGAGNÈS		Wave height (m)	4.1 m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	8 KTS
Date (DD/MMM/YYYY)	11/09/2018		True wind direction	NW
Time at start (UTC)	2230		Ice type code ★	N/A
Time at end (UTC)	2300		Ice concentration code ★	0
Latitude at start / end	61° 28.6' N	61° 31.2' N	True platform speed (knots)	12.8 KTS
Longitude at start / end	068° 47.0' W	068° 59.1' W	True platform direction	297°
Visibility (km)	16 km		Observation side	Starboard Port Middle
Weather code ★	0		Height of eye (m)	22 m
Glare conditions code ★	3		Outdoors or indoors	Out or In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNÈS		Sea state code ★	2
Platform name and type	ACADIA DESGAGNÈS		Wave height (m)	2 m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	10 Kts
Date (DD/MMM/YYYY)	11/09/2018		True wind direction	235°
Time at start (UTC)	1200		Ice type code ★	0 N/A
Time at end (UTC)	1230		Ice concentration code ★	0
Latitude at start / end	60° 35.0'N	60° 37.7'N	True platform speed (knots)	12.2 Kts
Longitude at start / end	065° 00.8'W	065° 12.0'W	True platform direction	297°
Visibility (km)	16 km		Observation side	<u>Starboard</u> Port Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out or <u>In</u>
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets



MARINE MAMMAL PROGRAM

➔ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNÉS		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES		Wave height (m)	< 1 m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	7 KTS
Date (DD/MMM/YYYY)	11/09/2018		True wind direction	N
Time at start (UTC)	1700		Ice type code★	N/A
Time at end (UTC)	1730		Ice concentration code ★	0
Latitude at start / end	61° 00.8'N	61° 03.2'N	True platform speed (knots)	11.8 KTS
Longitude at start / end	066° 47.3'W	066° 58.3'W	True platform direction	295°
Visibility (km)	16 Km		Observation side	Starboard Port Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out or In
Platform Activity	travelling		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets



MARINE MAMMAL PROGRAM

➔ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNÉS		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES		Wave height (m)	1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	8 kts
Date (DD/MMM/YYYY)	12/09/2018		True wind direction	SE
Time at start (UTC)	1730		Ice type code★	N/A
Time at end (UTC)	1800		Ice concentration code ★	0
Latitude at start / end	62° 33.6' N	62° 34.5' N	True platform speed (knots)	14.7 kts
Longitude at start / end	075° 24.3' W	075° 40.5' W	True platform direction	279° T
Visibility (km)	16 Km		Observation side	Starboard Port Middle
Weather code ★	0		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out or In
Platform Activity	TRAVELLING		Notes	No OBSERVATIONS

★ Refer to "Codes" datasheets



MARINE MAMMAL PROGRAM

➔ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNÈS		Sea state code ★	4
Platform name and type	ACADIA DESGAGNES		Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	27 kts
Date (DD/MMM/YYYY)	12/09/2018		True wind direction	NW
Time at start (UTC)	2230		Ice type code ★	N/A
Time at end (UTC)	2300		Ice concentration code ★	0
Latitude at start / end	62° 39.1' N	62° 39.3' N	True platform speed (knots)	8.8 Kts
Longitude at start / end	077° 29.5' W	077° 39.8' W	True platform direction	276° T
Visibility (km)	16 km		Observation side	Starboard Port Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out or In
Platform Activity	TRAVELLING		Notes	No OBSERVATIONS

★ Refer to "Codes" datasheets

Company/agency	AGNICO EAGLE MELIADINE		Sea state code	2
Platform name and type	ACADIA DESGAGNES		Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR Beaufort code	14 KTS
Date (DDMM/YYYY)	21/09/2018		True wind direction	NW
Time at start (UTC)	1730		Ice type code	N/A
Time at end (UTC)	1800		Ice concentration code	0
Latitude at start / end	61° 18.5 N	61° 15.7' N	True platform speed (knots)	12.8 KTS
Longitude at start / end	068° 04.6 W	067° 52.5 W	True platform direction	116° T
Visibility (km)	16 km		Observation side	Starboard Port Middle
Weather code	0		Height of eye (m)	22m
Glare conditions code	2		Outdoors or Indoors	Out or <input checked="" type="radio"/>
Platform Activity	TRAVELLING		Notes	NO OBSERVATION

~~_____~~
~~_____~~

Observation Period Information:				
Company/agency	AGNICO EAGLE MELIADNE		Sea state code	4
Platform name and type	ACADIA DESGAGNES		Wave height (m)	1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR Beaufort code	12 KTS
Date (DD/MM/YYYY)	19/09/2018		True wind direction	W
Time at start (UTC)	1730		Ice type code	N/A
Time at end (UTC)	1800		Ice concentration code	0
Latitude at start / end	62° 26.2'N	62° 25.2'N	True platform speed (knots)	13.1 KTS
Longitude at start / end	089° 02.6'W	088° 48.8'W	True platform direction	098° T
Visibility (km)	12 km		Observation side	Starboard Port Middle
Weather code	1		Height of eye (m)	22m
Glare conditions code	2		Outdoors or Indoors	Out or <input checked="" type="radio"/>
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

~~no observations~~
~~one observation period~~ period

Observation Period Information				
Company/agency	AGNICO EAGLE MELIADINE		Sea state code	1
Platform name and type	ACADIA DESGAGNES		Wave height (m)	1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR Beaufort code	6 KTS
Date (DD/MM/YYYY)	21/09/2018		True wind direction	NW
Time at start (UTC)	2230		Ice type code	N/A
Time at end (UTC)	2300		Ice concentration code	0
Latitude at start / end	60° 50.3'N	60° 47.0'N	True platform speed (knots)	13.7 KTS
Longitude at start / end	066° 06.2'W	065° 51.9'W	True platform direction	115° T
Visibility (km)	16 km		Observation side	<input checked="" type="radio"/> Starboard <input type="radio"/> Port <input type="radio"/> Middle
Weather code	0		Height of eye (m)	22m
Glare conditions code	0		Outdoors or Indoors	Out or <input checked="" type="radio"/>
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

Record sheet for a moving platform survey

Observation Period Information:

Company/agency	AGNICO EAGLE MELIADINE	Sea state code	3
Platform name and type	ACADIA PESGAGNES	Wave height (m)	2m
Observer (s)	STEPHEN BADCOLL	True wind speed (knots) OR Beaufort code	20 KTS
Date (DD/MM/YYYY)	21/09/2018	True wind direction (deg)	W
Time at start (UTC)	1230	Ice type code	N/A
Time at end (UTC)	1300	Ice concentration code	0
Latitude at start / end	61° 46.6' N 61° 44.0' N	True platform speed (knots)	12.7 KTS
Longitude at start / end	070° 05.8' W 069° 54.9' W	True platform direction (deg)	115° T
Platform activity	TRAVELLING	Observation side	Starboard Port
Visibility (km)	16 km	Height of eye (m)	22m
Weather code	1	Outdoors or Indoors	Out or In
Glare conditions code	0	Snapshot used?	Yes or No

Notes:

Bird Information: *this field must be completed for each record

*	*	*	*	*	*	*	*	*	*	*	*	*
Species	Count	Fly or Water?	In transect?	Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments	
GLGU	3	FLY	Y	A	N/A	39	N	A	NB	M		
GLGU	2	FLY	Y	A	N/A	39	N	I	NB	M		
GLGU	4	FLY	Y	A	18	39	W	A	NB	M		
WISP	12-15	FLY	Y	B	N/A	49	S	A	NB	M		
NOFU	2	FLY	Y	A	N/A	39	W	A	NB	M		

¹ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.
² Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction
³ J(juvenile), I(immature), or A(dult); ⁴ B(reeding), NB(non-breeding), M(out)

Company/agency	AGNICO EAGLE- MELIADINE		Sea state code	3
Platform name and type	ACADIA DESGAGNES		Wave height (m)	1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR Beaufort code	18KTS
Date (DD/MM/YYYY)	21/09/2018		True wind direction	W
Time at start (UTC)	1200		Ice type code	N/A
Time at end (UTC)	1230		Ice concentration code	0
Latitude at start / end	61° 49.3'N	61° 46.7'N	True platform speed (knots)	12.5KTS
Longitude at start / end	070° 17.4'W	070° 06.0'W	True platform direction	115
Visibility (km)	16 km		Observation side	Standard Port Middle
Weather code	1		Height of eye (m)	22m
Glare conditions code	0		Outdoors or Indoors	Out or <input checked="" type="radio"/>
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

Company/agency	AGNICO EAGLE MELIADINE		Sea state code	4
Platform name and type	ACADIA DESGAGNES		Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR Beaufort code	21 KTS
Date (DD/MM/YYYY)	20/09/2018		True wind direction	NW
Time at start (UTC)	2230		Ice type code	N/A
Time at end (UTC)	2300		Ice concentration code	0
Latitude at start / end	62° 36.0'N	62° 35.3'N	True platform speed (knots)	12.5 KTS
Longitude at start / end	076° 14.8'W	076° 00.5'W	True platform direction	098°T
Visibility (km)	16 km		Observation side	Starboard Port Middle
Weather code	1		Height of eye (m)	22m
Glare conditions code	0		Outdoors or indoors	Out or <input checked="" type="checkbox"/>
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

Record sheet for a moving platform survey

Observation Period Information:

Company/agency	AGNICO EAGLE - MELIADINE	Sea state code	4
Platform name and type	ACADIA DESGAGNES	Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	18 KTS
Date (DD/MM/YYYY)	20/09/2018	True wind direction (deg)	180 NW
Time at start (UTC)	2200	Ice type code	N/A
Time at end (UTC)	2230	Ice concentration code	0
Latitude at start / end	62° 36.6' N / 62° 36.0' N	True platform speed (knots)	13.6 KTS
Longitude at start / end	076° 27.0' W / 076° 15.0' W	True platform direction (deg)	095° T
Platform activity	TRAVELLING	Observation side	Starboard Port
Visibility (km)	16 km	Height of eye (m)	22m
Weather code	1	Outdoors or Indoors	Out or In
Glare conditions code	0	Snapshot used?	Yes or No

Notes:

Bird Information: *this field must be completed for each record

Species	Count	Fly or Water?	In transect?	Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
GLGU	1	FLY	Y	B	N/A	49	N	A	NB	M	
SAGU	1	FLY	Y	A	N/A	49	W	A	NB	M	
GLGU	2	FLY	Y	A	N/A	39	S	A	NB	M	
GLGU	5	FLY	Y	A	N/A	39	W	I	NB	M	

¹ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.
² Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction
³ J(juvenile), I(immature), or A(dult); ⁴ B(reeding), NB(non-breeding), M(oult)

Observation Period Information:				
Company/agency	AGNICO EAGLE MELIADINE		Sea state code	3
Platform name and type	ACADIA DESGAGNES		Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR Beaufort code	15 KTS
Date (DD/MM/YYYY)	20/09/2018		True wind direction	NW
Time at start (UTC)	1730		Ice type code	N/A
Time at end (UTC)	1800		Ice concentration code	0
Latitude at start / end	62° 40.0'N	62° 40.4'N	True platform speed (knots)	12.5 KTS
Longitude at start / end	078° 40.0'W	078° 26.5'W	True platform direction	087° T
Visibility (km)	16 km		Observation side	Starboard Port Middle
Weather code	1		Height of eye (m)	22m
Glare conditions code	0		Outdoors or Indoors	Out or <input checked="" type="checkbox"/>
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

~~_____~~
~~_____~~

Observation Period Information:				
Company/agency	AGNICO EAGLE MELIADINE		Sea state code	1
Platform name and type	ACADIA DESGAGNES		Wave height (m)	1 m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR Beaufort code	4 KTS
Date (DD/MMM/YYYY)	20/09/2018		True wind direction	NW
Time at start (UTC)	1200		Ice type code	N/A
Time at end (UTC)	1230		Ice concentration code	0
Latitude at start / end	62° 30.2' N	62° 33.8' N	True platform speed (knots)	12.6 KTS
Longitude at start / end	081° 02.9' W	080° 59.1' W	True platform direction	048° T
Visibility (km)	16 km		Observation side	Starboard Port Middle
Weather code	1		Height of eye (m)	22m
Glare conditions code	0		Outdoors or indoors	Out or <input checked="" type="checkbox"/>
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

~~One data point recorded~~

Changed course to 078°T during observation

Record sheet for a moving platform survey

Observation Period Information:

Company/agency	AGNICO EAGLE MELIADINE	Sea state code	1
Platform name and type	ACADIA DESGAGNES	Wave height (m)	1m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	6 kts
Date (DD/MM/YY)	20/09/2018	True wind direction (deg)	NW
Time at start (UTC)	1230	Ice type code	N/A
Time at end (UTC)	1300	Ice concentration code	0
Latitude at start / end	62° 33.8' N 62° 34.6' N	True platform speed (knots)	12.8 kts
Longitude at start / end	080° 52.7' W 080° 40.1' W	True platform direction (deg)	078° T
Platform activity	TRAVELLING	Observation side	Starboard Port
Visibility (km)	16 km	Height of eye (m)	22m
Weather code	1	Outdoors or Indoors	Out or In
Glare conditions code	0	Snapshot used?	Yes or No

Notes:

Bird Information: *this field must be completed for each record

Species	Count	Fly or Water?	In transect?	Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
POJA	1	FLY	Y	A	N/A	49	S	A	NB	M	MEDIUM SL
UNGU	1	FLY	Y	B	N/A	39	W	A	NB	M	BROWN COL.
WISP	3	FLY	Y	A	N/A	49	S	A	NB	M	

¹ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.
² Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction
³ J(juvenile), I(mmature), or A(dult); ⁴ B(reeding), NB(non-breeding), M(oult)

Observation Period Information:				
Company/agency	AGNICO EAGLE MELIADINE		Sea state code	2
Platform name and type	ACADIA DESGAGNES		Wave height (m)	1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR Beaufort code	W
Date (DD/MM/YYYY)	19/09/2018		True wind direction	8 KTS
Time at start (UTC)	2230		Ice type code	N/A
Time at end (UTC)	2300		Ice concentration code	0
Latitude at start / end	62° 14.8'N	62° 13.7'N	True platform speed (knots)	13.4 KTS
Longitude at start / end	086° 42.0'N	086° 28.3'W	True platform direction	100° T
Visibility (km)	16 Km		Observation side	Starboard Port Middle
Weather code	0		Height of eye (m)	22m
Glare conditions code	0		Outdoors or Indoors	Out or <input checked="" type="radio"/>
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

Record sheet for a moving platform survey

Observation Period Information:

Company/agency	AGNICO EAGLE MELIADINE	Sea state code	1
Platform name and type	ACADIA DESGAGNES	Wave height (m)	1m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	7kts
Date (DD/MM/YYYY)	19/09/2018	True wind direction (deg)	W
Time at start (UTC)	2200	Ice type code	N/A
Time at end (UTC)	2230	Ice concentration code	0
Latitude at start / end	62° 15.9' N 62° 14.8' N	True platform speed (knots)	13.5 kts
Longitude at start / end	086° 55.4' W 086° 42.7' W	True platform direction (deg)	100° T
Platform activity	TRAVELLING	Observation side	Starboard <input checked="" type="checkbox"/> Port <input type="checkbox"/>
Visibility (km)	16 km	Height of eye (m)	22m
Weather code	0	Outdoors or Indoors	Out or In
Glare conditions code	0	Snapshot used?	Yes or No

Notes:

Bird Information: *this field must be completed for each record

* Species	* Count	* Fly or Water?	* In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
DOVE	3	FLY	Y	B	N/A	39	S	A	NB	M	
GLGU	8	FLY	Y	A	N/A	49	S	A	NB	m	
GLGU	2	FLY	Y	A	N/A	49	S	I	NB	m	
NOFU	3	FLY	Y	B	N/A	49	S	A	NB	M	
JVGU	2	FLY	Y	A	N/A	49	S	A	NB	M	
UNGU	1	WATER	Y	A	N/A	60	-	A	NB	m	

¹ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.
² Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction
³ J(uvenile), I(mature), or A(dult); ⁴ B(reeding), NB(non-breeding), M(oult)



MARINE MAMMAL PROGRAM

➔ Fill out one sheet per observation period

Observation Period Information:

Company/agency	DESGAGNÉS		Sea state code ★	3
Platform name and type	ACADIA DESGAGNÉS		Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	15 KTS
Date (DD/MM/YYYY)	14/09/2018		True wind direction	N
Time at start (UTC)	1230		Ice type code ★	N/A
Time at end (UTC)	1300		Ice concentration code ★	0
Latitude at start / end	62° 41.0' N	62° 40.103' N	True platform speed (knots)	12.0 KTS
Longitude at start / end	091° 31.0' W	091° 44.3' W	True platform direction	290° T
Visibility (km)	8 km		Observation side	Starboard Port Middle
Weather code ★	6		Height of eye (m)	22m
Glare conditions code ★	1		Outdoors or Indoors	Out or In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets



MARINE MAMMAL PROGRAM

➔ Fill out one sheet per observation period

Observation Period Information:		Sea state code ★	
Company/agency	DES GAGNÉS		2
Platform name and type	ACA01A DESGAGNÉS	Wave height (m)	1 m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR ★ Beaufort code	13 KTS
Date (DD/MM/YYYY)	19/09/2018	True wind direction	W
Time at start (UTC)	1200	Ice type code ★	N/A
Time at end (UTC)	1230	Ice concentration code ★	0
Latitude at start / end	62° 40.7' N / 62° 39.7' N	True platform speed (knots)	13.1 KTS
Longitude at start / end	091° 33.7' W / 091° 22.5' W	True platform direction	076° T
Visibility (km)	16 km	Observation side	Starboard Port Middle
Weather code ★	0	Height of eye (m)	22 m
Glare conditions code ★	3	Outdoors or Indoors	Out or <input checked="" type="radio"/>
Platform Activity	TRAVELLING	Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

Record sheet for a moving platform survey

Observation Period Information:

Company/agency
 Platform name and type
 Observer (s)
 Date (DD/MM/YYYY)
 Time at start (UTC)
 Time at end (UTC)
 Latitude at start / end
 Longitude at start / end
 Platform activity
 Visibility (km)
 Weather code
 Glare conditions code

DESGAGNES	
ACADIA DESGAGNES	
STEPHEN BADCOCK	
14/09/2018	
1200	
1230	
62° 39.3' N	62° 41.0' N
091° 18.9' W	091° 31.0' W
TRAVELLING	
7 km	
6	
1	

Sea state code
 Wave height (m)
 True wind speed (knots) OR Beaufort code
 True wind direction (deg)
 Ice type code
 Ice concentration code
 True platform speed (knots)
 True platform direction (deg)
 Observation side
 Height of eye (m)
 Outdoors or Indoors
 Snapshot used?

3
2 m
13 kts
NE
N/A
0
11.8 kts
290° T
Starboard Port
22 m
Out or <input checked="" type="checkbox"/> In
Yes or <input checked="" type="checkbox"/> No

Notes:

Bird Information: *this field must be completed for each record

* Species	* Count	* Fly or Water?	* In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
WISP	2	FLY	Y	A	19	60	-	A	NB	M	
UNGU	3	FLY	Y	A	N/A	49	N	A	NB	M	
UNGU	2	FLY	Y	A	N/A	49	N	J	NB	M	
TRMU	2	Water	Y	B	N/A	60	-	A	NB	M	
GLGU	1	FLY	Y	A	N/A	36	E	A	NB	M	
DOVE	8	FLY	Y	B	N/A	49	N	A	NB	M	
UNSA	2	FLY	Y	A	N/A	36	E	A	NB	M	

¹ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.
² Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction
³ J(juveniles), I(immature), or A(dult); ⁴ B(reeding), NB(non-breeding), M(out)



MARINE MAMMAL PROGRAM

➔ Fill out one sheet per observation period

Observation Period Information:		Sea state code ★
Company/agency	DESGAGNES	Z
Platform name and type	ACA01A DESGAGNES	2m
Observer (s)	STEPHEN BADCOCK	16 KTS
Date (DD/MM/YYYY)	13/09/2018	S
Time at start (UTC)	2230	N/A
Time at end (UTC)	2300	0
Latitude at start / end	62° 11.2' N	12.6 kts
	62° 12.4' N	
Longitude at start / end	085° 59.1' W	279° T
	085° 12.5' W	
Visibility (km)	16 Km	Starboard Port Middle
Weather code ★	1	Height of eye (m)
Glare conditions code ★	0	Out or In
Platform Activity	TRAVELLING	Notes
		NO OBSERVATIONS

★ Refer to "Codes" datasheets

MARINE MAMMAL PROGRAM

➔ Fill out one sheet per observation period

Observation Period information:

Company/agency	DESGAGNES		Sea state code ★	3
Platform name and type	ACA01A DESGAGNES		Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	16 kts
Date (DD/MM/YYYY)	13/09/2018		True wind direction	SW
Time at start (UTC)	1730		Ice type code ★	N/A
Time at end (UTC)	1800		Ice concentration code ★	0
Latitude at start / end	62° 00.4'N	62° 01.6'N	True platform speed (knots)	11.8 kts
Longitude at start / end	083° 48.5'W	084° 01.5'W	True platform direction	279° T
Visibility (km)	16 km		Observation side	Starboard Port Middle
Weather code ★	1		Height of eye (m)	22m
Glare conditions code ★	1		Outdoors or Indoors	Out or <input checked="" type="radio"/>
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

Record sheet for a moving platform survey

Observation Period Information:

Company/agency
 Platform name and type
 Observer (s)
 Date (DD/MMM/YYYY)
 Time at start (UTC)
 Time at end (UTC)
 Latitude at start / end
 Longitude at start / end
 Platform activity
 Visibility (km)
 Weather code
 Glare conditions code

DES GAGNES	
ACADIA DESGAGNES	
STEPHEN BADCOCK	
13/09/2018	
1700	
1730	
61° 59.5' N	62° 00.4' N
083° 36.4' W	083° 48.1' N
TRAVELLING	
16 km	

Sea state code
 Wave height (m)
 True wind speed (knots) OR Beaufort code
 True wind direction (deg)
 Ice type code
 Ice concentration code
 True platform speed (knots)
 True platform direction (deg)
 Observation side
 Height of eye (m)
 Outdoors or Indoors
 Snapshot used?

3
2 m
17 kts
SW
N/A
0
11.3 kts
278° T
Starboard Port
22 m
Out or <input checked="" type="checkbox"/> In
Yes or <input checked="" type="checkbox"/> No

Notes:

Bird Information: *this field must be completed for each record

* Species	* Count	* Fly or Water?	* In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
WISP	2	FLY	Y	B	N/A	36	N	A	NB	M	
SAGU	1	FLY	Y	A	20	36	S	A	NB	M	

¹ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.
² Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction
³ J(juvenile), I(mmature), or A(dult); ⁴ B(reeding), NB(non-breeding), M(out)

MARINE MAMMAL PROGRAM



AGNICO EAGLE

➔ Fill out one sheet per observation period

Observation Period Information:		Sea state code ★	Wave height (m)
Company/agency	DESCAGNÈS	4	
Platform name and type	ACA01A DESCAGNÈS		2m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code ★	25 KTS
Date (DD/MMM/YYYY)	13/09/2018	True wind direction	SW
Time at start (UTC)	1230	Ice type code ★	N/A
Time at end (UTC)	1300	Ice concentration code ★	0
Latitude at start / end	62° 19.1'N / 62° 15.1'N	True platform speed (knots)	11.2 KTS
Longitude at start / end	082° 11.2'W / 082° 19.8'W	True platform direction	223°T
Visibility (km)	16 km	Observation side	Starboard Port Middle
Weather code ★	1	Height of eye (m)	22m
Glare conditions code ★	0	Outdoors or Indoors	Out or 25
Platform Activity	TRAVELLING	Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

Record sheet for a moving platform survey

Observation Period Information:

Company/agency
 Platform name and type
 Observer (s)
 Date (DD/MMM/YYYY)
 Time at start (UTC)
 Time at end (UTC)
 Latitude at start/end
 Longitude at start/end
 Platform activity
 Visibility (km)
 Weather code
 Glare conditions code

DESGAGNES	
ACADIA DESGAGNES	
STEPHEN BADCOCK	
13/09/2018	
1200	
1230	
62° 23.3' N	62° 19.2' N
082° 03.2' W	082° 11.0' N
TRAVELLING	
16 km	
1	
0	

Sea state code
 Wave height (m)
 True wind speed (knots) OR Beaufort code
 True wind direction (deg)
 Ice type code
 Ice concentration code
 True platform speed (knots)
 True platform direction (deg)
 Observation side
 Height of eye (m)
 Outdoors or Indoors
 Snapshot used?

4
2m
20 kts
SW
N/A
0
11.5 kts
223° T
<input checked="" type="checkbox"/> Starboard <input type="checkbox"/> Port
22m
Out or <input checked="" type="checkbox"/> Indoors
Yes or <input checked="" type="checkbox"/> No

Notes:

Bird Information: *this field must be completed for each record

* Species	* Count	* Fly or Water?	* In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
GLGU	1	FLY	Y	A	N/A	49	W	A	NB	M	
UNGU	1	FLY	Y	B	N/A	36	N	A	NB	M	
DOVE	12	FLY	Y	A	N/A	36	W	A	NB	M	

¹ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.
² Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction
³ J(juvenile), I(mature), or A(dult); ⁴ B(reeding), NB(non-breeding), M(out)

Record sheet for a moving platform survey

Observation Period Information:

Company/agency	DES GAGNES	Sea state code	4
Platform name and type	ACADIA DESGAGNES	Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	22 KTS
Date (DD/MMM/YYYY)	12/09/2018	True wind direction (deg)	SE
Time at start (UTC)	1230	Ice type code	N/A
Time at end (UTC)	1300	Ice concentration code	0
Latitude at start / end	62° 28.6' N 62° 31.0' N	True platform speed (knots)	11.1 KTS
Longitude at start / end	073° 07.5' W 073° 17.8' W	True platform direction (deg)	297°
Platform activity	TRAVELLING	Observation side	Starboard Port
Visibility (km)	16 km	Height of eye (m)	22 m
Weather code	1	Outdoors or Indoors	Out or <input checked="" type="checkbox"/> In
Glare conditions code	0	Snapshot used?	Yes or <input checked="" type="checkbox"/> No

Notes: Vessel changed course to 270°T before 1300 UTC

Bird Information: *this field must be completed for each record

* Species	* Count	* Fly or Water?	* In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
GLGU	2	FLY	Y	A	N/A	36	N	A	NB	M	
GLGU	1	FLY	Y	A	N/A	36	N	I	NB	M	
UNGU	1	FLY	Y	A	N/A	36	E	A	NB	M	

¹ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.
² Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction
³ J(juveniles), I(immature), or A(dult); ⁴ B(reeding), NB(non-breeding), M(out)

Record sheet for a moving platform survey

Observation Period Information:

Company/agency
 Platform name and type
 Observer (s)
 Date (DD/MMM/YYYY)
 Time at start (UTC)
 Time at end (UTC)
 Latitude at start / end
 Longitude at start / end
 Platform activity
 Visibility (km)
 Weather code
 Glare conditions code

DESGAGNES	
ACADIA DESGAGNES	
STEPHEN BADCOCK	
12/09/2018	
2200	
2230	
62° 38.5' N	62° 39.1' N
077° 20.5' W	077° 29.2' W
TRAVELLING	
12 Km	
2	
1	

Sea state code
 Wave height (m)
 True wind speed (knots) OR Beaufort code
 True wind direction (deg)
 Ice type code
 Ice concentration code
 True platform speed (knots)
 True platform direction (deg)
 Observation side
 Height of eye (m)
 Outdoors or Indoors
 Snapshot used?

4	
2 m	
28 kts	
NW	
N/A	
0	
9.2 kts	
280°	
Starboard	Port
22 m	
Out	or in
Yes	or No

Notes: Cleared to 16 km visibility

Bird Information: *this field must be completed for each record

* Species	* Count	* Fly or Water?	* In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
UNGU	1	FLY	Y	A	N/A	49	W	I	NB	M	
GLGU	1	FLY	Y	A	N/A	71	N	A	NB	M	

¹ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.
² Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction
³ J(juvenile), I(mature), or A(dult); ⁴ B(reeding), NB(non-breeding), M(oilt)

Agnico-Eagle Mines:
Meadowbank Division Environment Department



AGNICO EAGLE
MEADOWBANK

Daily log sheet for the wildlife monitor when in Baker Lake

Name of the wildlife monitor *Sandy Aggark*
Date *2018-08-03*

Task to complete with BL employees	Yes or No	Action to Take	Comments
Have you get in touch with the spud barge supervisor?	<i>Yes</i>	Time of the meeting: <i>14:47</i>	
Have you give the spud barge supervisor a contact number?	<i>No</i>	Contact number:	<i>will remain at office until boarding ship</i>
Did you get the information regarding the next departure	<i>Yes</i>	Next departure date and time: <i>when raining stops</i>	
Did you advice the guesthouse cook of your schedule		Name of the guesthouse cook you talk too:	

Task to complete with Env. employee	Yes or No	Action to Take	Comments
Did you gave the environment department any update: meadowbank.environment@anicoeagle.com or phone call 1-819-759-3555 6747/6744)6759		Who did you contact and what time: <i>Jamie Kataluk picked up passenger from Calm Air</i>	
<i>793-4612</i> Have you send yesterday's daily report	<i>No. arrived in Baker</i>		<i>arrived on commercial flight</i>

Signature:

date:

**Agnico-Eagle Mines:
Meadowbank Division Environment Department**



AGNICO EAGLE
MEADOWBANK

Daily log sheet for the wildlife monitor when in Baker Lake

Name of the wildlife monitor *Sandy Aggeck*
Date *2018-08-05*

Task to complete with BL employees	Yes or No	Action to Take	Comments
Have you get in touch with the spud barge supervisor?	<i>Yes</i>	Time of the meeting: <i>10:30 AM</i>	
Have you give the spud barge supervisor a contact number?	<i>NO</i>	Contact number:	
Did you get the information regarding the next departure	<i>NO</i>	Next departure date and time:	
Did you advice the guesthouse cook of your schedule	<i>Yes</i>	Name of the guesthouse cook you talk too:	

Task to complete with Env. employee	Yes or No	Action to Take	Comments
Did you gave the environment department any update: meadowbank.environment@anicoeagle.com or phone call 1-819-759-3555 6747/6744)	<i>NO</i>	Who did you contact and what time:	<i>Just arrived on ship</i>
Have you send yesterday's daily report	<i>NO</i>		<i>first day on ship</i>

Signature:

date:

Agnico-Eagle Mines:
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: *Sandy Aggark*
 Date: *19/08/2018*
 Vessel: *Dura Desgagnés*
 Direction: *South Bound to reload fuel*
 Weather: *clear*
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): *9:00^{AM} to 11:40 and 12:35 to 4:55 and 5:32 to 9:15*

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
<i>19/08/2018</i>	<i>64.26861°N 95.89639°W</i>	<i>Musk Ox</i>	<i>16</i>	<i>2.4M</i>		<i>Eating</i>	<i>NO</i>

Signature: *Sandy Aggark*

Date: *19/08/2018*

Agnico-Eagle Mines:
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: Sandy Aggarck

Date: 15/08/2018

Vessel: Dana Desgagnés

Direction: South to Feland Fuel

Weather: Fair

Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 9:30^{am} to 11:55 and 12:45 to 4:50 and 5:50 to 9:30

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
15/08/2018 1:50 pm	64°02'38" N 94°31'29" W	MUSK OX	2	2.1 m		Eating / rousing	NO

Signature: Sandy Aggarck

Date: 15/08/2018

Agnico-Eagle Mines:
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: *Sandy Aggarik*

Date: *10/08/2018*

Vessel: *Dava Desgagnes*

Direction: *South Bound to reload more fuel*

Weather: *Fair*

Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): *7:55^{PM} to 11:15^{PM} and 12:10^{PM} to 4:00^{PM} and 5:00^{PM} to 8:30^{PM}*

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
<i>10/08/2018 8:42 AM</i>	<i>61.01010° N 94.32408° W</i>	<i>MUSK OX</i>	<i>26</i>	<i>3.2 M</i>		<i>Eating/Grazing</i>	<i>NO</i>
<i>10/08/2018 10:37 AM</i>	<i>64.11505° N 94.44532° W</i>	<i>MUSK OX</i>	<i>1</i>	<i>1.1 m</i>		<i>Eating</i>	<i>NO</i>

Signature: *Sandy Aggarik*

Date: *10/08/2018*



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