

TECHNICAL MEMORANDUM

DATE 01 November 2021

Reference No. 20449445-902-TM-Rev1

FROM Scott Wilson, Corey De La Mare

EMAIL Corey_DeLaMare@golder.com

MELIADINE EXTENSION PROJECT – FIELD SUMMARY – BIRD PROGRAM

1.0 INTRODUCTION

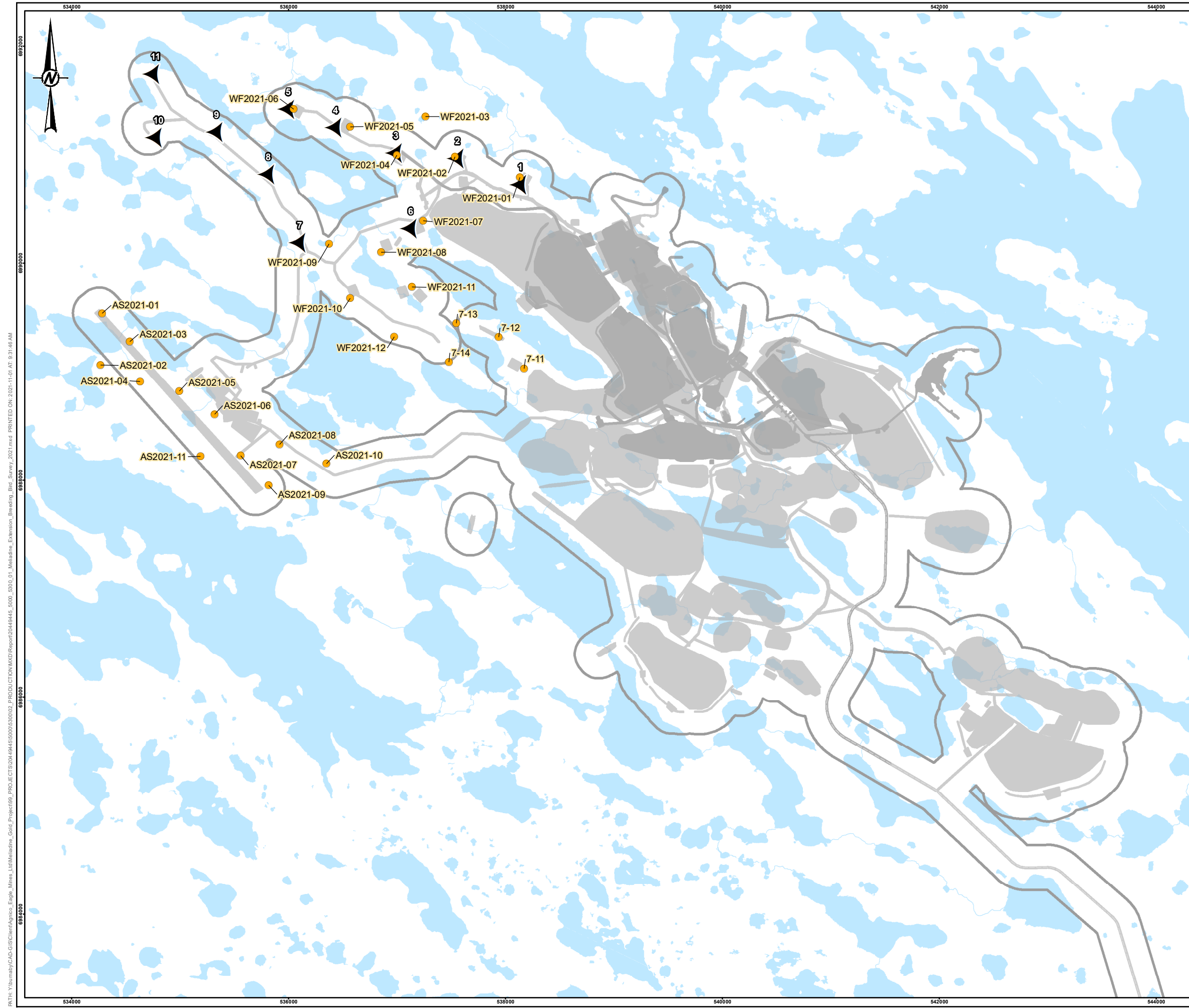
Agnico Eagle Mines Limited (Agnico Eagle) owns and operates the Meliadine Gold Mine (the Project or the Mine), located 25 km north of Rankin Inlet, Nunavut. The Mine site is located on a peninsula between the east, south, and west basins of Meliadine Lake (63°1'23.8" N, 92°13'6.42"W), on Inuit Owned Lands (IOL). The Mine received a Project Certificate (No. 006) from the Nunavut Impact Review Board (NIRB) in February 2015 and amended (Amendment No. 001) in February 2019. Agnico Eagle requested Nuqsana Golder provide support to understand the environmental conditions related to migratory birds (i.e., birds protected under the *Migratory Birds Convention Act*; Government of Canada 1994) for the Meliadine Extension Project, which includes a proposed windfarm, airstrip and extension of the Tiriganiaq-Wolf mining area. Golder performed Avian Use Surveys in 2018 in proximity to the Meliadine Extension, focused on species with that may have direct interaction with wind turbines (e.g., raptors, waterfowl, shorebirds, songbirds).

2.0 OBJECTIVE

The objective of field program was to understand a general composition of bird species that occur in the proposed Meliadine Extension footprint associated with a proposed windfarm and airstrip and Tiriganiaq-Wolf mining area. Information on bird species with potential to interact with the proposed windfarm and airstrip including the Tiriganiaq-Wolf mining area was collected using breeding bird surveys and incidental information on other bird species was also recorded when observed (e.g., raptor observations, ptarmigan observations, among others).

3.0 METHODS

Breeding bird surveys were performed using point count methods from 28 June 2021 to 2 July 2021, within and near the proposed windfarm (16 plots) and airstrip and Tiriganiaq-Wolf mining area (11 plots) footprints (Figure 1, Table A1, A2). Locations were selected to maximize coverage of areas while minimizing overlap between survey locations, rather than targeting specific habitat types. Surveys were 5 minutes in length and were conducted in early morning, from 30 minutes before sunrise to approximately 3 hours after sunrise. Wind during the surveys did not exceed Beaufort scale 3 (12–19 km/h), and no precipitation was recorded during surveys. All species detected by sight or sound within 50 m and between 50 to 100 m of the observer were recorded; observations beyond 100 m were recorded as incidentals.



LEGEND

- BREEDING BIRD SURVEY (2021)
- ▲ PROPOSED TURBINE LOCATION
- 200 m BUFFER OF MINE FOOTPRINT (2043)
- MINE FOOTPRINT (2043)
- MINE FOOTPRINT (2020)
- ALL-WEATHER ACCESS ROAD (AWAR)
- WATERBODY
- WATERCOURSE

REFERENCE(S)
 1. BASE DATA OBTAINED FROM AGNICO EAGLE MINES LIMITED AND NATURAL RESOURCES CANADA.
 DATUM: NAD 83 PROJECTION: UTM ZONE 15

CLIENT
 AGNICO EAGLE MINES LIMITED

PROJECT
 MELIADINE GOLD PROJECT
 NUNAVUT

TITLE
 MELIADINE EXTENSION BREEDING BIRD SURVEY (2021)

 GOLDER MEMBER OF WSP	CONSULTANT	YYYY-MM-DD	2021-11-01
		DESIGNED	SW
		PREPARED	CDB
		REVIEWED	DWC
		APPROVED	CDM

PROJECT NO.	CONTROL	REV.	FIGURE
20449445	5000/5300	0	1

PATH: Y:\msh\CAD-GIS\client\Agnico_Eagle_Mines_Ltd\Meliadine_Gold_Project\09_PROJECT\2021-11-01\AS2021-11-01.mxd PRINTED ON: 2021-11-01 AT: 9:31:46 AM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

4.0 RESULTS

A total of 16 bird species were identified during breeding bird surveys; 15 species at windfarm plots, and 12 at airstrip and Triganiaq-Wolf mining area plots (Table 1, Table A3, A4). One unidentified passerine species flew over during survey of plot AS2021-11. A rough-legged hawk (*Buteo lagopus*) was observed incidentally prior to the breeding bird survey at AS2021-08. This species is considered Not At Risk by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC), and is not listed under the *Species at Risk Act* (SARA; Government of Canada 2021). No federally listed species at risk were detected during surveys.

The average species richness at windfarm plots was 3.38 ± 0.18 (mean \pm standard error), ranging from 3 to 5 species within 100 m from plot centre. The most frequently detected species at windfarm plots were Canada goose (*Branta canadensis*), Lapland longspur (*Calcarius lapponicus*), and horned lark (*Eremophila alpestris*; Table 1). The average species richness at airstrip plots was 2.36 ± 0.36 , ranging from 1 to 4 species within 100 m from plot centre. The most frequently detected species at airstrip plots were Canada goose, savannah sparrow (*Passerculus sandwichensis*), and horned lark (Table 1).

Table 1: Bird Species Detected During Melidaine Extension Breeding Bird Surveys

Species Name	Scientific Name	COSEWIC ^(a)	SARA ^(b)	Number of Detections at Airstrip and Triganiaq-Wolf mining area Plots	Number of Detections at Windfarm Plots
American Pipit	<i>Anthus rubescens</i>	-	-	3	5
Cackling Goose	<i>Branta hutchinsii</i>	-	-	3	6
Canada Goose	<i>Branta canadensis</i>	-	-	27	71
Common Redpoll	<i>Acanthis flammea</i>	-	-	2	5
Herring Gull	<i>Larus argentatus</i>	-	-	4	8
Horned Lark	<i>Eremophila alpestris</i>	-	-	11	22
Lapland Longspur	<i>Calcarius lapponicus</i>	-	-	4	24
Least Sandpiper	<i>Calidris minutilla</i>	-	-	0	6
Long-tailed Duck	<i>Clangula hyemalis</i>	-	-	0	8
Northern Pintail	<i>Anas acuta</i>	-	-	1	0
Pacific Loon	<i>Gavia pacifica</i>	-	-	5	7
Red-throated Loon	<i>Gavia stellata</i>	-	-	0	1
Sandhill Crane	<i>Antigone canadensis</i>	NAR	-	2	12
Savannah Sparrow	<i>Passerculus sandwichensis</i>	-	-	15	8
Tundra Swan	<i>Cygnus columbianus</i>	-	-	7	1
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	-	-	0	4

Note: includes all species detected at breeding bird plots, regardless of detection type and distance from plot centre.

(a) SARA: Federal Species at Risk Act Schedule number (1-3) for this species. See the SARA website for more information (Government of Canada 2021). E = Endangered, T = Threatened, SC = Special Concern, NA = Not Assessed.

(b) COSEWIC: Committee on the Status of Endangered Wildlife in Canada, rank is followed by the date that the rank was last reviewed. Ranks have the following meanings. E = ENDANGERED: A species facing imminent extirpation or extinction, T = THREATENED: A species that is likely to become endangered if limiting factors are not reversed, SC = SPECIAL CONCERN: A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events, NAR = NOT AT RISK: A species that has been evaluated and found to be not at risk, DD = DATA DEFICIENT: A species for which there is insufficient scientific information to support status designation, NA = Not Assessed (Government of Canada 2021).

Signature Page

Golder Associates Ltd.

Original Signed by:

Scott Wilson, M.Sc.
Environmental Scientist

SJW/CDM/lih

Original Signed by:

Corey De La Mare, P.Biol.
Principal, Senior Ecologist

[https://golderassociates.sharepoint.com/sites/139711/project files/6 deliverables/01. working/20449445-902-tm-phase2_birdfieldmemo memo-rev1/20449445-902-phase2_birdfieldmemo-rev1.docx](https://golderassociates.sharepoint.com/sites/139711/project%20files/6%20deliverables/01.%20working/20449445-902-tm-phase2_birdfieldmemo%20memo-rev1/20449445-902-phase2_birdfieldmemo-rev1.docx)

References

Government of Canada. 1994. Migratory Bird Convention Act, 1994. S.C. 1994, c. 22. Current to 28 June 2021. Ottawa ON: Minister of Justice. <https://laws-lois.justice.gc.ca/eng/acts/m-7.01/>

Government of Canada. 2021. Species at risk public registry. [accessed August 2021]. <https://species-registry.canada.ca/index-en.html#/species?sortBy=commonNameSort&sortDirection=asc&pageSize=10>

APPENDIX A

Plot Locations and Raw Data

Table A1: Meliadine Extension Windfarm Breeding Bird Survey Locations

Station	Easting	Northing
WF2021-01	538131	6990792
WF2021-02	537532	6990983
WF2021-03	537260	6991354
WF2021-04	536997	6990997
WF2021-05	536567	6991258
WF2021-06	536046	6991421
WF2021-07	537240	6990393
WF2021-08	536852	6990103
WF2021-09	536371	6990178
WF2021-10	536566	6989680
WF2021-11	537135	6989782
WF2021-12	536975	6989322
7-11	538171	6989031
7-12	537936	6989320
7-13	537546	6989447
7-14	537476	6989088

Table A2: Meliadine Extension Airstrip and and Triganiaq-Wolf mining area Breeding Bird Survey Locations

Station	Easting	Northing
AS2021-01	534281	6989539
AS2021-02	534265	6989063
AS2021-03	534534	6989280
AS2021-04	534629	6988912
AS2021-05	534992	6988822
AS2021-06	535317	6988608
AS2021-07	535555	6988227
AS2021-08	535915	6988330
AS2021-09	535815	6987954
AS2021-10	536349	6988153
AS2021-11	535186	6988220

Table A3: Breeding Bird Observations at Windfarm Plots (2021)

Plot	Date	Time	Observer	Temp (°C)	Wind Class ^(a)	Precipitation	Species Code	Species Name	<50m (0-3 min)	50-100m (0-3 min)	>100m (0-3 min)	Fly Over (0-3 min)	Fly Through (0-3 min)	<50m (3-5 min)	50-100m (3-5 min)	>100m (3-5 min)	Fly Over (3-5 min)	Fly Through (3-5 min)	Comments
7-11	28-Jun-21	4:55	SJW	6	1	none	HOLA	Horned Lark	1	1									
7-11	28-Jun-21	4:55	SJW	6	1	none	LTDU	Long-tailed Duck			2	2							
7-11	28-Jun-21	4:55	SJW	6	1	none	SAVS	Savannah Sparrow	1										
7-11	28-Jun-21	4:55	SJW	6	1	none	LALO	Lapland Longspur		1									
7-11	28-Jun-21	4:55	SJW	6	1	none	CANG	Canada Goose			1								
7-12	28-Jun-21	5:09	NAM	6	1	none	SAVS	Savannah Sparrow	1										
7-12	28-Jun-21	5:09	NAM	6	1	none	HOLA	Horned Lark		1									
7-12	28-Jun-21	5:09	NAM	6	1	none	HERG	Herring Gull				1							
7-12	28-Jun-21	5:09	NAM	6	1	none	LALO	Lapland Longspur		1					1				
7-12	28-Jun-21	5:09	NAM	6	1	none	CACG	Cackling Goose		1									
7-12	28-Jun-21	5:09	NAM	6	1	none	TUSW	Tundra Swan								1			
7-13	28-Jun-21	5:25	SJW	6	1	none	CORE	Common Redpoll				1							
7-13	28-Jun-21	5:25	SJW	6	1	none	HOLA	Horned Lark	3	1									
7-13	28-Jun-21	5:25	SJW	6	1	none	LALO	Lapland Longspur	1										
7-13	28-Jun-21	5:25	SJW	6	1	none	CACG	Cackling Goose		2									
7-13	28-Jun-21	5:25	SJW	6	1	none	HERG	Herring Gull									5		
7-13	28-Jun-21	5:25	SJW	6	1	none	PALO	Pacific Loon			1								
7-14	28-Jun-21	5:37	NAM	6	2	none	LALO	Lapland Longspur	2										
7-14	28-Jun-21	5:37	NAM	6	2	none	SAVS	Savannah Sparrow	1										
7-14	28-Jun-21	5:37	NAM	6	2	none	HOLA	Horned Lark	1	1									
7-14	28-Jun-21	5:37	NAM	6	2	none	HERG	Herring Gull			1						1		
7-14	28-Jun-21	5:37	NAM	6	2	none	CANG	Canada Goose			1								
7-14	28-Jun-21	5:37	NAM	6	2	none	PALO	Pacific Loon								1			
WF2021-01	29-Jun-21	6:23	NAM	8	2	none	LESA	Least Sandpiper		1									
WF2021-01	29-Jun-21	6:23	NAM	8	2	none	AMPI	American Pipit		1									
WF2021-01	29-Jun-21	6:23	NAM	8	2	none	HOLA	Horned Lark							1				
WF2021-01	29-Jun-21	6:23	NAM	8	2	none	CANG	Canada Goose			1								
WF2021-01	29-Jun-21	6:23	NAM	8	2	none	SAVS	Savannah Sparrow			1								
WF2021-01	29-Jun-21	6:23	NAM	8	2	none	SACR	Sandhill Crane								1			
WF2021-02	29-Jun-21	6:06	SJW	8	1	none	SACR	Sandhill Crane			2								
WF2021-02	29-Jun-21	6:06	SJW	8	1	none	CACG	Cackling Goose			1								
WF2021-02	29-Jun-21	6:06	SJW	8	1	none	LESA	Least Sandpiper		1									
WF2021-02	29-Jun-21	6:06	SJW	8	1	none	WCSP	White-crowned Sparrow	1										
WF2021-02	29-Jun-21	6:06	SJW	8	1	none	LALO	Lapland Longspur		1									
WF2021-02	29-Jun-21	6:06	SJW	8	1	none	CANG	Canada Goose			1								
WF2021-03	29-Jun-21	5:52	NAM	8	1	none	LALO	Lapland Longspur	1	1									

Table A3: Breeding Bird Observations at Windfarm Plots (2021)

Plot	Date	Time	Observer	Temp (°C)	Wind Class ^(a)	Precipitation	Species Code	Species Name	<50m (0-3 min)	50-100m (0-3 min)	>100m (0-3 min)	Fly Over (0-3 min)	Fly Through (0-3 min)	<50m (3-5 min)	50-100m (3-5 min)	>100m (3-5 min)	Fly Over (3-5 min)	Fly Through (3-5 min)	Comments	
WF2021-03	29-Jun-21	5:52	NAM	8	1	none	HOLA	Horned Lark		1										
WF2021-03	29-Jun-21	5:52	NAM	8	1	none	LESA	Least Sandpiper			1									
WF2021-03	29-Jun-21	5:52	NAM	8	1	none	PALO	Pacific Loon								1				
WF2021-03	29-Jun-21	5:52	NAM	8	1	none	CANG	Canada Goose				44					12			
WF2021-04	29-Jun-21	4:55	SJW	7	1	none	CANG	Canada Goose			2									
WF2021-04	29-Jun-21	4:55	SJW	7	1	none	LTDU	Long-tailed Duck			1									
WF2021-04	29-Jun-21	4:55	SJW	7	1	none	CORE	Common Redpoll		1										
WF2021-04	29-Jun-21	4:55	SJW	7	1	none	LALO	Lapland Longspur		2										
WF2021-04	29-Jun-21	4:55	SJW	7	1	none	HOLA	Horned Lark	1	1										
WF2021-05	29-Jun-21	5:11	NAM	8	0	none	HOLA	Horned Lark	1											
WF2021-05	29-Jun-21	5:11	NAM	8	0	none	CORE	Common Redpoll		2										
WF2021-05	29-Jun-21	5:11	NAM	8	0	none	WCSP	White-crowned Sparrow		1										
WF2021-05	29-Jun-21	5:11	NAM	8	0	none	LALO	Lapland Longspur			1									
WF2021-05	29-Jun-21	5:11	NAM	8	0	none	LTDU	Long-tailed Duck			2									
WF2021-05	29-Jun-21	5:11	NAM	8	0	none	CANG	Canada Goose								1				
WF2021-06	29-Jun-21	5:26	SJW	7	1	none	PALO	Pacific Loon			1									
WF2021-06	29-Jun-21	5:26	SJW	7	1	none	CACG	Cackling Goose			1									
WF2021-06	29-Jun-21	5:26	SJW	7	1	none	HOLA	Horned Lark	2											
WF2021-06	29-Jun-21	5:26	SJW	7	1	none	LALO	Lapland Longspur	1											
WF2021-06	29-Jun-21	5:26	SJW	7	1	none	AMPI	American Pipit	1											
WF2021-06	29-Jun-21	5:26	SJW	7	1	none	RTLO	Red-throated Loon		1										
WF2021-07	29-Jun-21	4:37	NAM	7	0	none	LALO	Lapland Longspur	1	2										
WF2021-07	29-Jun-21	4:37	NAM	7	0	none	SACR	Sandhill Crane	1											
WF2021-07	29-Jun-21	4:37	NAM	7	0	none	AMPI	American Pipit		2										
WF2021-07	29-Jun-21	4:37	NAM	7	0	none	LESA	Least Sandpiper		1										
WF2021-07	29-Jun-21	4:37	NAM	7	0	none	SAVS	Savannah Sparrow		1										
WF2021-07	29-Jun-21	4:37	NAM	7	0	none	CACG	Cackling Goose								1				
WF2021-08	28-Jun-21	6:44	NAM	6	2	none	LALO	Lapland Longspur	1											
WF2021-08	28-Jun-21	6:44	NAM	6	2	none	SAVS	Savannah Sparrow		2										
WF2021-08	28-Jun-21	6:44	NAM	6	2	none	WCSP	White-crowned Sparrow		1										
WF2021-08	28-Jun-21	6:44	NAM	6	2	none	LALO	Lapland Longspur			1									
WF2021-08	28-Jun-21	6:44	NAM	6	2	none	PALO	Pacific Loon			1									
WF2021-08	28-Jun-21	6:44	NAM	6	2	none	SACR	Sandhill Crane			1									
WF2021-08	28-Jun-21	6:44	NAM	6	2	none	LESA	Least Sandpiper								1				
WF2021-09	28-Jun-21	6:28	SJW	6	2	none	PALO	Pacific Loon			1									
WF2021-09	28-Jun-21	6:28	SJW	6	2	none	CANG	Canada Goose			1						2			

Table A3: Breeding Bird Observations at Windfarm Plots (2021)

Plot	Date	Time	Observer	Temp (°C)	Wind Class ^(a)	Precipitation	Species Code	Species Name	<50m (0-3 min)	50-100m (0-3 min)	>100m (0-3 min)	Fly Over (0-3 min)	Fly Through (0-3 min)	<50m (3-5 min)	50-100m (3-5 min)	>100m (3-5 min)	Fly Over (3-5 min)	Fly Through (3-5 min)	Comments	
WF2021-09	28-Jun-21	6:28	SJW	6	2	none	SACR	Sandhill Crane		2						1				
WF2021-09	28-Jun-21	6:28	SJW	6	2	none	LALO	Lapland Longspur	2											
WF2021-09	28-Jun-21	6:28	SJW	6	2	none	LTDU	Long-tailed Duck				1								
WF2021-09	28-Jun-21	6:28	SJW	6	2	none	HOLA	Horned Lark							1					
WF2021-10	28-Jun-21	6:10	NAM	6	2	none	CANG	Canada Goose					4							Wind gusts to 3.
WF2021-10	28-Jun-21	6:10	NAM	6	2	none	LALO	Lapland Longspur		1										
WF2021-10	28-Jun-21	6:10	NAM	6	2	none	CORE	Common Redpoll		1										
WF2021-10	28-Jun-21	6:10	NAM	6	2	none	HOLA	Horned Lark							1					
WF2021-10	28-Jun-21	6:10	NAM	6	2	none	SACR	Sandhill Crane		2										
WF2021-10	28-Jun-21	6:10	NAM	6	2	none	PALO	Pacific Loon			1									
WF2021-11	28-Jun-21	7:02	SJW	6	2	none	SACR	Sandhill Crane			1									
WF2021-11	28-Jun-21	7:02	SJW	6	2	none	AMPI	American Pipit	1											
WF2021-11	28-Jun-21	7:02	SJW	6	2	none	HOLA	Horned Lark	1	1										
WF2021-11	28-Jun-21	7:02	SJW	6	2	none	LALO	Lapland Longspur	1	1										
WF2021-11	28-Jun-21	7:02	SJW	6	2	none	LESA	Least Sandpiper	1											
WF2021-12	28-Jun-21	5:55	SJW	6	1	none	CANG	Canada Goose			1									
WF2021-12	28-Jun-21	5:55	SJW	6	1	none	SACR	Sandhill Crane			1									
WF2021-12	28-Jun-21	5:55	SJW	6	1	none	LALO	Lapland Longspur		1										
WF2021-12	28-Jun-21	5:55	SJW	6	1	none	WCSP	White-crowned Sparrow		1										
WF2021-12	28-Jun-21	5:55	SJW	6	1	none	HOLA	Horned Lark	2											
WF2021-12	28-Jun-21	5:55	SJW	6	1	none	SAVS	Savannah Sparrow	1											

(a) Wind Class based on Beaufort Scale, 0 = 0 – 2 km/hr, 1 =2-5 km/hr, 2 =6-12 km/hr, 3 = 13-19 km/hr.

Table A4: Breeding Bird Observations at Airstrip and Triganiaq-Wolf mining area Plots (2021)

Plot	Date	Time	Observer	Temp (°C)	Wind Class ^(a)	Precipitation	Species Code	Species Name	<50m (0-3 min)	50-100m (0-3 min)	>100m (0-3 min)	Fly Over (0-3 min)	Fly Through (0-3 min)	<50m (3-5 min)	50-100m (3-5 min)	>100m (3-5 min)	Fly Over (3-5 min)	Fly Through (3-5 min)	Comments
AS2021-01	02-Jul-21	3:45	SJW	7	2	none	TUSW	Tundra Swan			1								Wind gusts to 3.
AS2021-01	02-Jul-21	3:45	SJW	7	2	none	CACG	Cackling Goose					1						
AS2021-01	02-Jul-21	3:45	SJW	7	2	none	SAVS	Savannah Sparrow	2										
AS2021-01	02-Jul-21	3:45	SJW	7	2	none	HOLA	Horned Lark	1										
AS2021-01	02-Jul-21	3:45	SJW	7	2	none	CANG	Canada Goose			2								
AS2021-02	02-Jul-21	4:13	SJW	7	3	none	TUSW	Tundra Swan			2								
AS2021-02	02-Jul-21	4:13	SJW	7	3	none	SAVS	Savannah Sparrow		1									
AS2021-02	02-Jul-21	4:13	SJW	7	3	none	CANG	Canada Goose		1									
AS2021-02	02-Jul-21	4:13	SJW	7	3	none	AMPI	American Pipit	1										
AS2021-02	02-Jul-21	4:13	SJW	7	3	none	CORE	Common Redpoll	1										
AS2021-03	02-Jul-21	3:59	NAM	7	3	none	LALO	Lapland Longspur			1			1					
AS2021-03	02-Jul-21	3:59	NAM	7	3	none	AMPI	American Pipit	1										
AS2021-03	02-Jul-21	3:59	NAM	7	3	none	HOLA	Horned Lark		1									
AS2021-03	02-Jul-21	3:59	NAM	7	3	none	SAVS	Savannah Sparrow		2									
AS2021-03	02-Jul-21	3:59	NAM	7	3	none	CANG	Canada Goose			3		2						
AS2021-03	02-Jul-21	3:59	NAM	7	3	none	TUSW	Tundra Swan			1								
AS2021-04	02-Jul-21	4:24	NAM	7	3	none	LALO	Lapland Longspur					1	1					
AS2021-04	02-Jul-21	4:24	NAM	7	3	none	HOLA	Horned Lark	1	1					1				
AS2021-04	02-Jul-21	4:24	NAM	7	3	none	NOPI	Northern Pintail										1	
AS2021-04	02-Jul-21	4:24	NAM	7	3	none	SAVS	Savannah Sparrow		1									
AS2021-04	02-Jul-21	4:24	NAM	7	3	none	SACR	Sandhill Crane			1								
AS2021-04	02-Jul-21	4:24	NAM	7	3	none	PALO	Pacific Loon			1								
AS2021-05	02-Jul-21	4:38	SJW	7	3	none	HOLA	Horned Lark	1										
AS2021-05	02-Jul-21	4:38	SJW	7	3	none	SAVS	Savannah Sparrow	1	1									
AS2021-05	02-Jul-21	4:38	SJW	7	3	none	CANG	Canada Goose			2								
AS2021-05	02-Jul-21	4:38	SJW	7	3	none	PALO	Pacific Loon			1								
AS2021-06	02-Jul-21	4:50	NAM	7	3	none	SAVS	Savannah Sparrow	1		1								
AS2021-06	02-Jul-21	4:50	NAM	7	3	none	AMPI	American Pipit							1				
AS2021-06	02-Jul-21	4:50	NAM	7	3	none	CACG	Cackling Goose		1									
AS2021-06	02-Jul-21	4:50	NAM	7	3	none	CORE	Common Redpoll							1				
AS2021-07	02-Jul-21	5:16	NAM	7	3	none	SAVS	Savannah Sparrow		1									
AS2021-07	02-Jul-21	5:16	NAM	7	3	none	CACG	Cackling Goose			1								
AS2021-07	02-Jul-21	5:16	NAM	7	3	none	TUSW	Tundra Swan			1								
AS2021-07	02-Jul-21	5:16	NAM	7	3	none	PALO	Pacific Loon								1			
AS2021-08	02-Jul-21	5:43	NAM	7	2	none	HOLA	Horned Lark	1										
AS2021-08	02-Jul-21	5:43	NAM	7	2	none	SAVS	Savannah Sparrow		1									

Table A4: Breeding Bird Observations at Airstrip and Triganiaq-Wolf mining area Plots (2021)

Plot	Date	Time	Observer	Temp (°C)	Wind Class ^(a)	Precipitation	Species Code	Species Name	<50m (0-3 min)	50-100m (0-3 min)	>100m (0-3 min)	Fly Over (0-3 min)	Fly Through (0-3 min)	<50m (3-5 min)	50-100m (3-5 min)	>100m (3-5 min)	Fly Over (3-5 min)	Fly Through (3-5 min)	Comments	
AS2021-08	02-Jul-21	5:43	NAM	7	2	none	HERG	Herring Gull									2			
AS2021-08	02-Jul-21	5:43	NAM	7	2	none	CANG	Canada Goose			10									
AS2021-08	02-Jul-21	5:43	NAM	7	2	none	TUSW	Tundra Swan			2									
AS2021-09	02-Jul-21	5:29	SJW	7	3	none	HOLA	Horned Lark		1				1						
AS2021-09	02-Jul-21	5:29	SJW	7	3	none	HERG	Herring Gull					2							
AS2021-09	02-Jul-21	5:29	SJW	7	3	none	CANG	Canada Goose			1									
AS2021-10	02-Jul-21	5:58	SJW	7	2	none	SAVS	Savannah Sparrow	2											
AS2021-10	02-Jul-21	5:58	SJW	7	2	none	PALO	Pacific Loon			2									
AS2021-10	02-Jul-21	5:58	SJW	7	2	none	CANG	Canada Goose			1	3								
AS2021-11	02-Jul-21	5:04	SJW	7	3	none	CANG	Canada Goose			2									
AS2021-11	02-Jul-21	5:04	SJW	7	3	none	SACR	Sandhill Crane			1									
AS2021-11	02-Jul-21	5:04	SJW	7	3	none	HOLA	Horned Lark	1	1										
AS2021-11	02-Jul-21	5:04	SJW	7	3	none	UNPA	Unidentified Passerine									1			
AS2021-11	02-Jul-21	5:04	SJW	7	3	none	SAVS	Savannah Sparrow		1										

(a) Wind Class based on Beaufort Scale, 0 = 0 – 2 km/hr, 1 = 2-5 km/hr, 2 = 6-12 km/hr, 3 = 13-19 km/hr.