June 26, 2013

SENT BY ELECTRONIC MAIL ONLY

Ministry of Natural Resources Peterborough District 300 Water Street Peterborough, ON K9J 7M7

Attention: Mr. Eric Prevost Renewable Energy Planning Ecologist

Re: GoodLight LP Solar Energy Project OCBB Compensation Lands

Dear Mr. Prevost:

Prior to GoodLight LP (the proponent) receiving final approval from the Ministry of the Environment (MOE) for the construction and operation of the GoodLight Solar Energy Project, a Habitat Restoration and Management Plan for 21.05 hectares of Open Country Breeding Bird (OCBB1) must be developed as per the condition in the Ministry of Natural Resources (MNR) confirmation letter (dated July 5, 2012). This technical letter outlines the required Plan and includes a description of habitat lands and subsequent management activities, as well as the follow-up monitoring plan and reporting commitments.

Habitat Compensation Lands

The proponent has undertaken an assessment of potential properties to find an appropriate site that contains suitable conditions for Open Country Breeding Bird habitat. Through field verification completed in May 2013, a suitable property was chosen on Lots 11 and 12, Concession 6, in the Township of Eldon, City of Kawartha Lakes (Peterborough District) (see **Appendix A**, **Figure 1**).

The total size of the specific habitat compensation area to be enhanced on the property is 21.05 ha. This area also contains approximately 2 ha of interior grassland habitat (see **Appendix A, Figure 2**). Overall, within the parcel of land this habitat compensation area is part of, over 68 ha of compensation land is being protected for Bobolink and/or Eastern Meadowlark as per various *Endangered Species Act, 2007* permits (see **Appendix A, Figure 3**). The GoodLight habitat compensation land, together with the additional Species at Risk compensation land, provides for a large contiguous grassland area greater than 30 ha (the size threshold for significant open country breeding bird habitat according to the MNR February 2012 Significant Wildlife Habitat Ecoregion 6E Criterion Schedule).



235 Yorkland Blvd. Suite 800 Toronto, Ontario Canada M2J 4Y8 Telephone (416) 229-4646 Fax (416) 229-4692 Ministry of Natural Resources, Mr. Eric Prevost Page 2 June 26, 2013

The majority of the property, including the GoodLight compensation habitat area, is comprised of open pasture that contains a ratio of 70/30 grass to forbs and is dominated by non-native species such as Orchard Grass (*Dactylis glomerata*), Kentucky Bluegrass (*Poa pratensis*), Bird's Foot Trefoil (*Lotus corniculatus*), Common Yarrow (*Achillea millefolium* ssp. *millefolium*) and Red Clover (*Trifolium pratense*). There is some shrub growth within the compensation area that is primarily associated with the edge of adjacent swamp and thicket vegetation communities (see **Appendix B** for an ELC map and corresponding field notes of the property confirmed by the MNR March 30, 2012). This shrub growth accounts for approximately 2% of the vegetation cover within the 21.05 ha compensation habitat for GoodLight.

Baseline data collected in 2010 and 2012 indicates the presence of Open Country Breeding Birds already using the habitat. Open Country species observed include Upland Sandpiper (*Bartramia longicauda*), Eastern Kingbird (*Tyrannus tyrannus*) and Savannah Sparrow (*Passerculus sandwichensis*) as well as Bobolink (*Dolichonyx oryzivorus*) and Eastern Meadowlark (*Sturnella magna*) (see **Appendix C** for field notes related to breeding birds).

Management of Lands

The land to be used as compensation for OCBB1 is open with very little shrub growth (approximately 2%). Due to the low abundance of shrub cover, large-scale vegetation removal will not be required. Habitat enhancement work such as over-seeding with native species will occur to help improve the quality of habitat in the compensation area. Site-specific clearing of shrubs will be completed where occurrences are within the open country habitat. These localized disturbed areas will then been seeded.

Once the location for the OCBB1 compensation is approved by the Ministry of Natural Resources (MNR), the land management will be initiated. After the removal of shrubs and the initial prescribed cut, the land will be over-seeded with a mix of low growing cool and warm native grasses (50-75%) and native forbs/legumes (25-50%). This is to increase the biodiversity of the habitat and encourage the growth of native species. This seed will be applied during favourable growing conditions and in a time period prior to the 2014 breeding bird season. A prepared seed mix will likely be used and is expected to consist of some or all of the following species:

Grass Species

Side Oats Grama (Bouteloua curtipendula) Sand Dropseed (Sporobolus cryptandrus) Violet Wheatgrass (Agropyron viola) Switchgrass Slender Wheatgrass (Agropyron trachyaum) Little Bluestem (Andropogon scoparius) Big Bluestem (Andropogon gerardii) Ministry of Natural Resources, Mr. Eric Prevost Page 3 June 26, 2013

Canada Bluegrass (*Poa compressa*) Broom Sedge (*Andropogon virginicus*) Indian Grass (*Sorghastrum nutans*)

<u>Forb/Legume Species</u> New England Aster (*Aster novae-angliae*) Showy Tick Trefoil (*Desmodium canadense*) Black Eyed Susan (*Rudbeckia hirta*)

As part of the management of the land for use as Open Country Breeding Bird habitat, prescribed cuts will take place once every 3 to 5 years between August 1 and September 30 to ensure the habitat is maintained as grassland and not overtaken by shrub growth. Management of the habitat compensation area will occur for the entire duration of the GoodLight LP Solar Energy Project, currently expected to be 20 years.

<u>Monitoring Plan</u>

Breeding bird monitoring studies will be undertaken for three years post-habitat enhancement to assess the use of the compensation habitat by Open Country Breeding Birds. These studies will commence in 2014 between June 1 and the first week of July and will follow the methodology provided in Appendix A of the GoodLight Natural Heritage Assessment Environmental Impact Study Report (see **Appendix D**). As per this methodology, surveys for both diurnal breeding birds and Common Nighthawk (*Chordeiles minor*; a nocturnal species) will be completed.

Reporting

Prior to December 31st of each year of the Open Country Breeding Bird habitat monitoring, the proponent will submit an annual report to the Ministry of the Environment (MOE) that includes:

- A map indicating the number and location of point counts and area searches laid throughout the compensation habitat;
- Data collected during the breeding bird monitoring surveys;
- Photographs of the compensation habitat; and,
- Any activities undertaken during the year (i.e., cutting, seeding).



Ministry of Natural Resources, Mr. Eric Prevost Page 4 June 26, 2013

If you have any questions about the content of this letter, the proponent has requested these be directed to Jennifer Petruniak at Dillon Consulting Limited and cc'd to Grace Pasceri (grace.pasceri@canadiansolar.com). Jennifer can be contacted at 416-229-4647, Ext. 2432, or at jpetruniak@dillon.ca.



Yours sincerely,

Dillon Consulting Limited

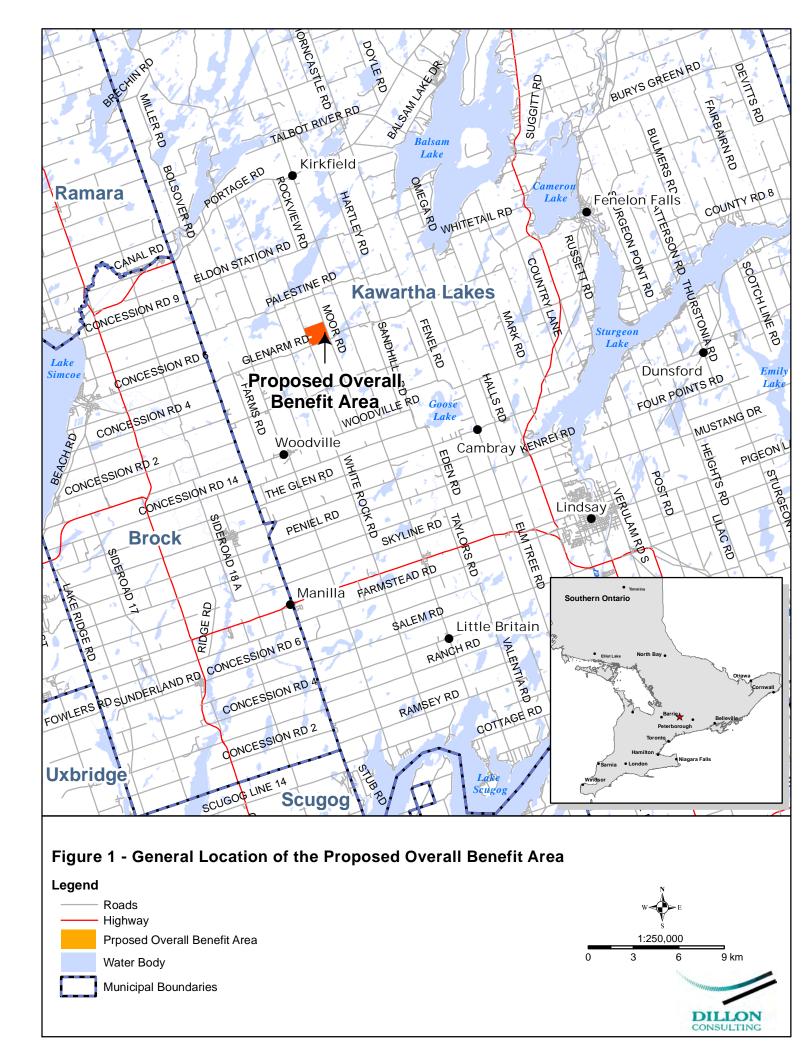
Jennifer Petruniak, M.Sc. Project Manager, Biologist

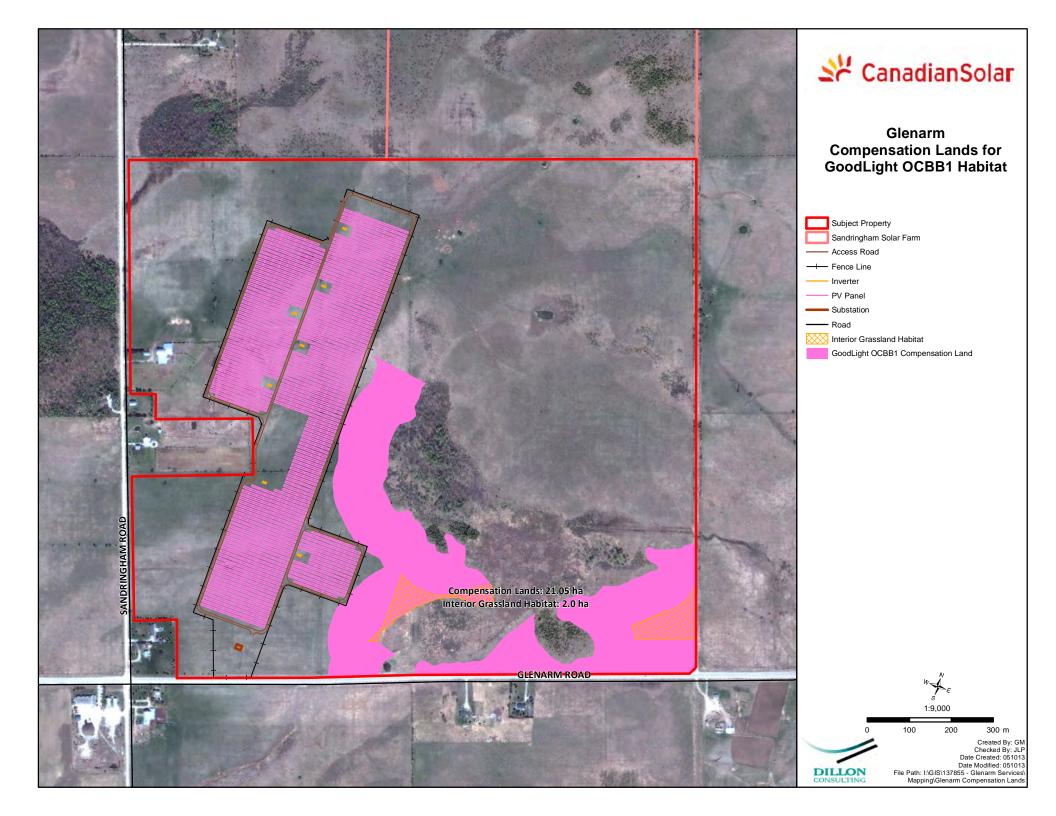
Attachs.

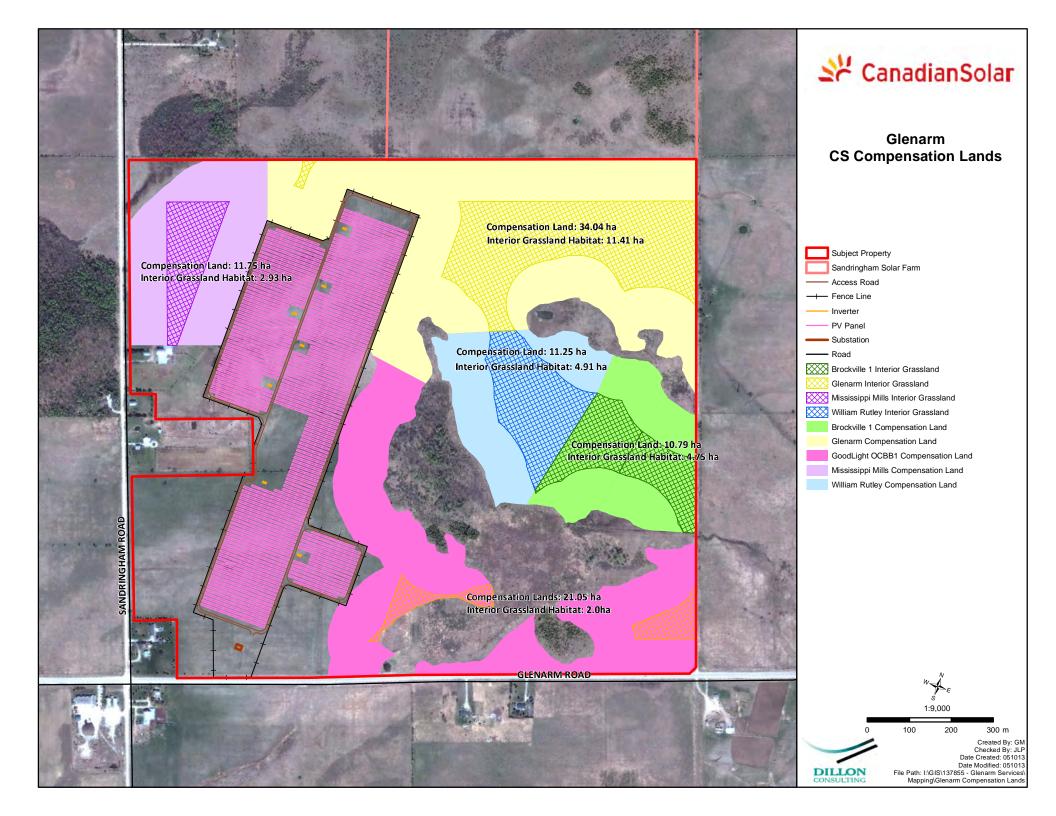
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ATTACHMENT A

Figures

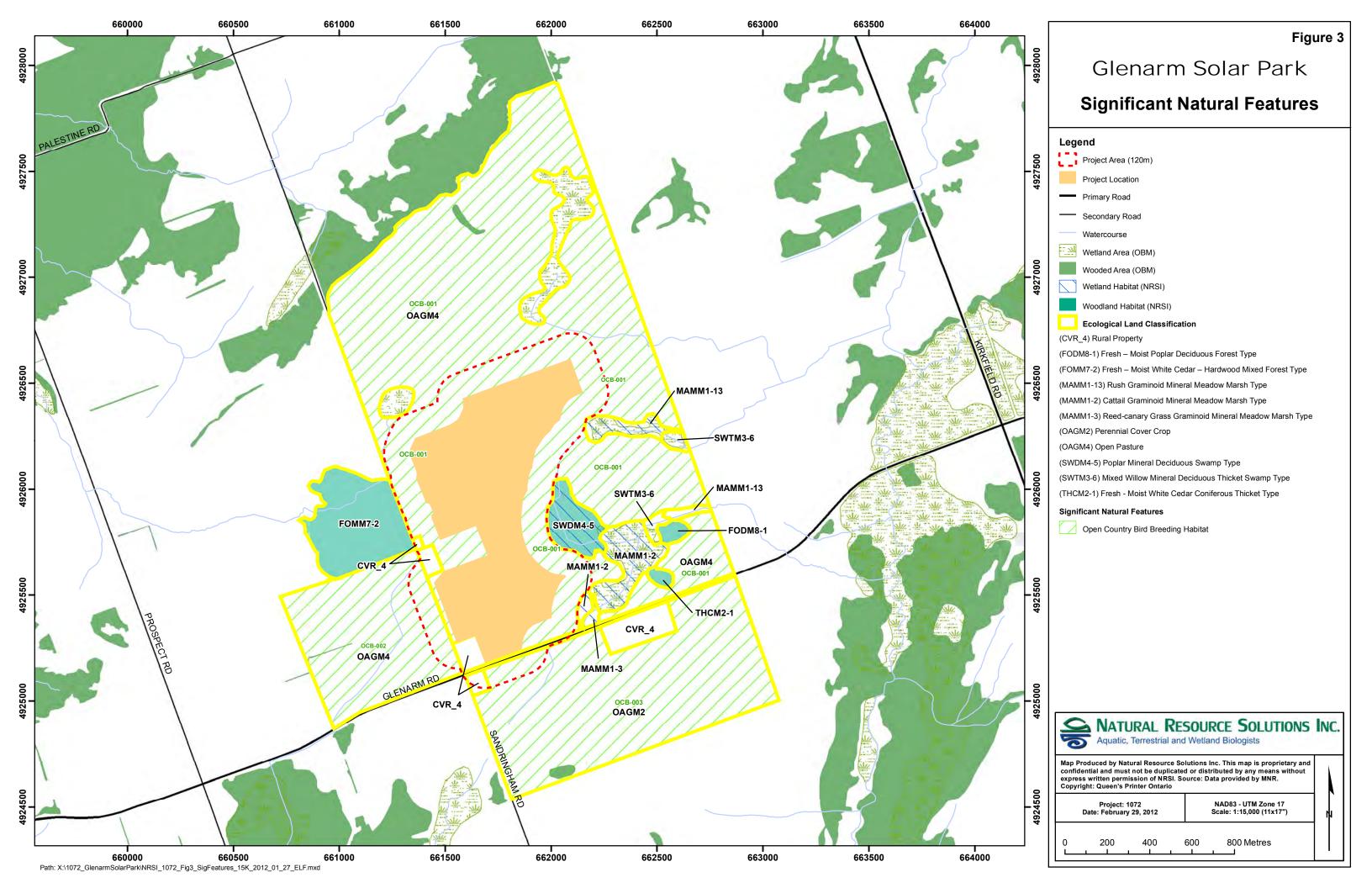






ATTACHMENT B

ELC Field Notes



NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Polygon: Denms	the OAGMH
UTM: 17T 662703	x 4925637
Date: 17 Julor 20	Time: 0715

Community Classification

Vegetation Type:	OAGNIY Open Pasturo
Inclusion:	
Complex:	

Polygon Description

System	Substrate	Topo Feature		Community	
Terrestrial Wetland Aquatic History Natural Cultural	Organic Mineral Soil Parent Min Acidic Bedrock Basic Bedrock	Valley Stope	Talus Crevice/Cave Aivar Rockland Beach/Bar Sand Dune Biuff	Lake Pond River Stream Marsh Swamp Fen	Barren Meadow Prairie Thicket Savannah Woodland Forest
	Site	Cirr		Bog	Plantation
Cover	Open Water	Plant Form			2
Open Shrub Treed	Shallow Water Surficial Dep Bedrock	Plankton Submerged Floating-Lvd Graminoid	Forb Lichen Bryophyte Deciduous	Coniferous Mixed	

Stand Description

	Layer	HT	Cover	Species
•	Super-canopy	1		
1	Canopy	1		
2	Sub-canopy	-		
3	Understorey	3	1	Park Green > Woolgrass
4	Groundcover	61	4	Vetrb>Redictory >Kon. hupavase > 101

HT Codes: 1:>25m 2:25-10m 3:10-2m 4:2-1m 5:1-0.5m 6:05-02m 7:402m 0:none 1:0-10% 2:10-25 3:25-60% 4:>60% Cover Codes:

Community Age	Pioneer		Young	-12	Mid-age		Mature		Old Growth
Abundance Codes:		N:	None	R:	Rare	0;	Occasional	A:	Abundant
Deadfall/Logs		N	< 10	N	10 - 24	N	25 - 50	N	> 50
Snags		N	< 10	N	10-24	N	25 - 50	N	> 50
Size Class Analy	sis	N	< 10	N	10 - 24	N	25 - 50	N	> 50

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 2 of 🕭

PLANT SPECIES LIST

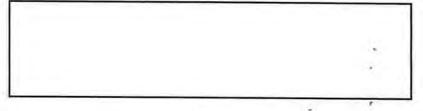
site: 1072 (denarm	
Polygon: Í	
UTM:	
Date: 17 June 2010	Time: 0715
Surveyor(s): M. M. KS	
Weather: 16°C , wind 5 A	ON N. NO Precip. CCGOS

Layers:	1=canop

py 2=sub-canopy 3=understorey 4=ground layer

		(a	ver	1				1.0	yer	-	-
Species	1	2	3	4	Sample	Specles	1	2	3	4	Sample
Fedringer			-	A				-	-	-	
no ne'r deur				0							
Costuckin brace				6							
Univer Shwis.				2							
Nildconcot				0							
Edfineel				0	1 14 12						
5 f. tarlort				0	1						
Pha. Dialitan				A	11						11
Dievie drive	_			A				-			
Matsonradiant	_	_		C.							
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21, 10201,15	_	_	_	A					1.1	_	
2222.2.K.	-	_		HA.			-			_	
Hetch	_	_	_	4				2			
andenrod sp.	1	_	-	0	-		-	- 1		1	-
Park Green Billy	SI	1	0				-	5		_	
Woolarass	-	-	0	-			-	-			-
	-	-	-				-	1.0			
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								11			
		-					-	-	-		-
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1		-							11		

Wildlife and Other Notes



ATTACHMENT C

Breeding Bird Survey Field Notes

10 Minute Point Count

ig	0.		10-77
Project Name:	Glenarm	Project #	NA

Area Searches Station: by ELC polygon # For Shation Date: June 17 2010 Wind speed: 5 Cloud cover: % Visit #: 4) 2 (circle) 15 °C 7:40am Air Temp. Start Time: SJ. MM Precip. hone Observers: UTM

Breeding First 5 Minutes Second 5 Minutes Wind Scale Species Name <50m 50-100m >100m* <50m 50-100m >100m* Evidence 0 Calm 1 Smoke drifts 5 2 Wind felt on face WISN (Wilson's Juile) 3 Leaves in motion P.A AME (Estan Meadowins () 4 Sm branches move 5 Sm trees sway RWEL (Red Win RIACHE A) P 6 Lrg branches move 7 Whole trees in SAUS/ Savannah Con rou P 5 motion 8 Twigs break off, hard TRES (Tree Swollow) H to walk 9 Light structural SFY Sasp (Son Sparnu) damage 10 Trees uprooted P BOBO (BODDIAL C MUJAR (Yell ... Winhe 1 MODO (Mounter Opre) AMGO (An Star. a) Breeding Evidence Þ Codes CHSP (Chip, MI parou Observed X - No evidence of COGR Co Guille breeding Possible FOLLE PLAINTS H - Suitable nesting habitat AMRO (Robin) S - Singing male Probable BLUA (Blue Jay) 5 - Pair T - Permanent territory BAOR (B. Oniole FV D - Courtship or display Bnes V - Visiting prob nest site A - Agitated behaviour or anxiety calls B - Brood patch/cloacal protuberance N - Nest building or excavation Confirmed DD - Distraction display NU - Used nest or egg shell FY - Fledged young AE - Adults at occupied nest FS - Faecal sac CF - Carrying food NE - Nest containing eggs NY - Nest with young

Comments:

10 Minute Po			<u>Glenarm</u> Project #	1072
			Station: 2,5,6,7	_
Wind speed:	4	_	Date: June 17, 2010	_
Cloud cover:	0	%	Visit #:	
Air Temp.	20	°C	Start Time:	<u></u>
Precip.			 Observers: KSJ MM	_
UTM			,	

Species Name	Fil	rst 5 Minute	es	Sec	cond 5 Min	utes	Breeding	Wind Scale
	<50m	50-100m	>100m*	<50m	50-100m	>100m*	Evidence	0 Calm 1 Smoke drifts
ALTL(Aldon Throthe	(r)						5	2 Wind felt on face 3 Leaves in motion
LEFL (Least fly contern	1						5	4 Sm branches move
INAR_	10						SCF	5 Sm trees sway 6 Lrg branches move
Sasp	1						S'	7 Whole trees in motion
CALL	1						S	8 Twigs break off, hard to walk
CEDW Laden Wat	ino						Y	9 Light structural damage
RWBL	13						FY	10 Trees uprooted
EAKI(EKinbird)			-				2 Y	
COUT (Collaborational	1	1					S'	
COUE (Co. y ellowith way VRWA (Urillian Mark	1 (1)	1			-		S	Breeding Evidence
AMER ([now]		1			-		X	Codes Observed
SWISP (Swimme So)		-		-	-		Ŝ	X - No evidence of breeding
COGR	1						5	Possible H - Suitable nesting
BRTH (Grown Thrashan	2						X	habitat S - Singing male
Mallaci	.).						Ŷ	Probable
Mallard					-		^	P - Pair T - Permanent territory
		-						D - Courtship or display
								V - Visiting prob. nest site
								A - Agitated behaviour or anxiety calls
	<u></u>	-		-				B - Brood patch/cloacal
		-		-				protuberance
				-				N - Nest building or excavation
				-				Confirmed DD - Distraction
		-					1	display NU - Used nest or egg
	-	-		-				shell FY - Fledged young
								AE - Adults at occupied nest
				(FS - Faecal sac CF - Carrying food
	1							NE - Nest containing
								eggs NY - Nest with young
						C		
				Page 1				

1.1

Comments:

Breeding Bird Monitoring 10 Minute Point Count Project Name:

Wind speed:	4	
Cloud cover:	0	%
Air Temp.	18	°C
Precip.		

Glenarm	Project #
Station: 3	
Date: June 17,0	2010
Visit #: 1 2	(circle)
Start Time:	
Observers: KSJ Mm	
1	

/L

Cracine Marte	Fir	st 5 Minute	es	See	cond 5 Min	utes	Breeding	Wind Scale
Species Name	<50m	50-100m	>100m*	<50m	50-100m	>100m*	Evidence	0 Calm 1 Smoke drifts
SOSI AMGO SWSP RWBL							S,FY	2 Wind felt on face
AMGO				1.	1		ρ	3 Leaves in motion 4 Sm branches move
SWCP		1					S	5 Sm trees sway 6 Lrg branches move
BUD1							P.A	7 Whole trees in motion
LEFL							5	8 Twigs break off, hard
LEFL					-		2	to walk 9 Light structural
	-						()	damage 10 Trees uprooted
				1.000.0				
	· · · · · · · · · · · · · · · · · · ·		1		1	2000	10000	
				-	2==-			
								Breeding Evidence Codes
						1000		Observed
					1		· · · · ·	X - No evidence of breeding
	1	1	-	-			1	Possible H - Suitable nesting
		-		1	-			habitat
	-							S - Singing male Probable
						-		P - Pair T - Permanent territory
	-	-		e				D - Courtship or display
					1			V - Visiting prob nest
								site A - Agitated behaviour
								or anxiety calls B - Brood
	í	· · · · · · · · · · · · · · · · · · ·				1		patch/cloacal protuberance
			(F = 5)					N - Nest building or
	1		1	-				excavation Confirmed
			1					DD - Distraction display
	-						1	NU - Used nest or egg shell
	-			-	-			FY - Fledged young
					-			AE - Adults at occupied nest
	-							FS - Faecal sac CF - Carrying food
								NE - Nest containing eggs
							· · · · · ·	NY - Nest with young
							1	
	ji i							· · · · · · · · · · · · · · · · · · ·

Comments:

10 Minute Point Count	Project Name:	lar m	Project # _	1072
Wind speed: 4	Station: Date:	4 June 17 2010)	
Cloud cover: O % Air Temp. 20 °C	Visit #: Start Tir	1 2 ne:	(circle)	
Precip.	Observe	ers: KSJ MM		
Species Name	First 5 Minutes	Second 5 Min	utes	Breeding

Species Name First 5 Minutes Second 5 Minutes Breeding Wind Scale <50m 50-100m >100m* <50m 50-100m >100m* Evidence 0 Calm REVI (CALGARD VID) 3 motion LEF-L 5 motion CD 4FE 5 motion	
REVI (Calculation) S 2 Wind felt on face RUBL S A 3 Leaves in motion LEFC S'N S motion Construction S S	
Kubb S A S S LEFC S N 5 Sm trees sway CO S N 7 Whole trees in motion	
C D use S In motion	
C D use S In motion	
	ve
	L
S S S P S I Walk beak off,	nara
AM 60 S S S S S S S S S S S S S S S S S S	
NOWO (Down -)	
Breeding Evidence	e
Codes Observed	
X - No evidence of	
breeding Possible	
H - Suitable nestin	g
habitat S - Singing male	
Probable P - Pair	
T - Permanent terr	itory
D - Courtship or display	
V - Visiting prob. n	est
site A - Agitated behav	iour
or anxiety calls	,oui
B - Brood patch/cloacal	
protuberance	
N - Nest building c	r
Confirmed DD - Distraction	
display	
NU - Used nest or shell	egg
FI - Fledged your	g
AE - Adults at occupied nest	
FS - Faecal sac	
CF - Carrying food NE - Nest containi	na
eqqs	Č.
NY - Nest with you	ing

Comments:

Breeding Bird Monitoring 10 Minute Point Count

ime: GlenArm	
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10 Minute Point Count	Project Name	Glen A	rm	Pi	roject #:	1072	Wind Scale 0 Calm 1 Smoke drifts
Wind speed: 4 NE		Station: Date:	July	1 20	010		2 Wind felt on face 3 Leaves in motion 4 Sm branches move 5 Sm trees sway
Cloud cover: 0 %		Visit #:	1	2	(circle)	- 1	6 Lrg branches move 7 Whole trees in
Air temperature: 15 °C		Start Tim	e: 0	715			motion 8 Twigs break off,
Precipitation: none	-	Observer	rs: MI	м			hard to walk 9 Light structural damage 10 Trees uprooted
Species Name	Number			Breeding PO	Evidend	ce CO	
American Crow	<50m 50-100r	n >100m*	Obs.	PO	PR		
Common Gracklo	{I]		X				Breeding Evidence
barn Swallow				S			Codes Observed
Northern Cardinal	11			S			X - No evidence of breeding
Amer. Robin	HH I		X	S			Possible H - Suitable nesting
Robolink	<u>Î</u> I		X		P		habitat S - Singing male Probable
Killden	<u>î</u> u		X	S	P		P - Pair T - Permanent
		-					territory D - Courtship or
1. <u>Samer</u>		1000		-			display V - Visiting prob. nest
		1.2					A - Agitated behaviour or anxiety calls
				-			B - Brood patch/cloacal
							protuberance N - Nest building or excavation
							<u>Confirmed</u> DD - Distraction display
			-	-		121	NU - Used nest or egg shell
							FY - Fledged young AE - Adults at
						-	occupied nest FS - Faecal sac
		-		-		1	CF - Carrying food NE - Nest containing
					-		eggs NY - Nest with young
		1		-			
		1					

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Comments:

								1 Smoke drifts
Vind speed: 4 Date: 1 July 2010							2 Wind felt on face 3 Leaves in motion 4 Sm branches move 5 Sm trees sway	
Cloud cover: 0 %			6 Lrg branches move 7 Whole trees in					
Air temperature: 🥼 °C	_	Visit #: 1 (2) (circle) Start Time: 0 7 3 0						motion 8 Twigs break off, hard to walk
Precipitation: nonc	_		Observer	rs: M	Μ			9 Light structural damage
Species Name	<50m	Number 50-100m		E Obs.	Breeding PO	Evidenc PR	e CO	10 Trees uprooted
Kedming blackbird	++++ 1111			X	C			
Conti- avackle	VII			X				Breeding Evidence
Law Sylaton	11(1			Y.	S			Codes Observed
Mourner dove				Х	5			X - No evidence of breeding
Ann- addfinch yellow Wardoler	i1	-	2.4	X	5			Possible H - Suitable nesting habitat
Am addfinch	1			X		-		S - Singing male Probable
yellow Wainler	1			X	S			P - Pair T - Permanent
Eastern Kinchird	1		1.1.1	Х		-		territory D - Courtship or
Willow Auratiner	L			Х			1.1	display V - Visiting prob. nest
AM. Woodrock	APair 11			X		P		site A - Agitated behaviour
						1		or anxiety calls B - Brood
				· · · · ·				patch/cloacal protuberance
		· · · · ·						N - Nest building or excavation
	-							Confirmed DD - Distraction
	-						-	display NU - Used nest or egg shell
								FY - Fledged young AE - Adults at
				-				occupied nest FS - Faecal sac
								CF - Carrying food NE - Nest containing
								eggs NY - Nest with young
								, , , , , , , , , , , , , , , , ,
								11
Comments:								

Breeding Bird Monitoring 10 Minute Point Count	Proje	ect Name:	Glen 1	VWI	Pr	oject #:	1072	Wind Scale 0 Calm 1 Smoke drifts
			Station:	.3				2 Wind felt on face 3 Leaves in motion
Wind speed: 4 NE	_		Date:	NG 1	42	010		4 Sm branches move 5 Sm trees sway
Cloud cover: 0 %	_		Visit #:	1	2	(circle)		6 Lrg branches move 7 Whole trees in motion
Air temperature: (႙ ⁰C	Start Time: 0 7 5 の							8 Twigs break off,
Precipitation: non-C			hard to walk 9 Light structural damage					
Species Name	<50m	Number		Breeding Eviden Obs. PO PR			ce CO	10 Trees uprooted
Com-up llow throat	1				5			N
K. W. blackbird	##1			Х	S	() set		Breeding Evidence
yellow inicultur	1			X	5	Mar 1		Codes Observed
to crow	11			X				X - No evidence of breeding
Eastern kirkbird	111			X	\leq			Possible H - Suitable nesting
bain Swallow	Htt 111				S	()	1	habitat S - Singing male
Sona Spawan	11				5			Probable P - Pair T - Permanent
b-rap chickedere	1				Š	1		territory D - Courtship or
	1				S			display V - Visiting prob_nest
ty. Starting	n				S			site A - Agitated behaviour
Record Windo	1			100	S			or anxiety calls B - Brood
An Robin	ļl _			X	S			patch/cloacal protuberance
rom avackle	111			X	5			N - Nest building or excavation
br. hooded rowbird	1							Confirmed DD - Distraction display
								NU - Used nest or egg shell
						-		FY - Fledged young AE - Adults at
								occupied nest FS - Faecal sac
					-	1		CF - Carrying food NE - Nest containing
			_	-	-		-	eggs NY - Nest with young
			1					1
Comments:		_						•

* Note: this column gets entered in as incidental species (Point Count radius is 100m)

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10 Minute Point Count

Project Name: _(Slentrin	Project #:	1072
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Wind speed:	L	NE	
Cloud cover:	0	%	
Air temperature:	18	°℃	
Precipitation	nor	al	

Station: 4	
Date: 1 Jul	42010
Visit #: 1	2 (circle)
Start Time:	18/15
Observers: /	m

Wind Scale 0 Calm 1 Smoke drifts

2 Wind felt on face 3 Leaves in motion 4 Sm branches move 5 Sm trees sway 6 Lrg branches move 7 Whole trees in motion

8 Twigs break off, hard to walk 9 Light structural damage 10 Trees uprooted

	Number			Breeding Evidence				1
Species Name	<50m		>100m*	Obs.	PO	PR	CO	
emmon avackle	1			X				· · · · · · · · · · · · · · · · · · ·
Inrthem Cardinal	1			X				Breeding Evidence
Incarcon ichail	T			X	S			Codes Observed
Sona sanvon	[[X	S			X - No evidence of breeding
odar waxwina	11			X	S			Possible H - Suitable nesting
Eastern finabird	H			X	S			habitat S - Singing male Probable
Com. Vellauthroat					S			P - Pair T - Permanent
Iellow Wartter					5			territory D - Courtship or
barn Smallow	++++1			X				display V - Visiting prob. nes
losp bleristich avor haut-	. [[[X	S			site A - Agitated behavior
U								or anxiety calls B - Brood
								patch/cloacal protuberance
		1						N - Nest building or excavation
							()	Confirmed DD - Distraction
						1		display NU - Used nest or eg shell
	-				-			FY - Fledged young AE - Adults at
	-							occupied nest FS - Faecal sac
	1					2		CF - Carrying food NE - Nest containing
				1			12	eggs NY - Nest with young
	-							4
]
Comments:								

Bird and Wildl	fe Are	a Searc		rvation -	Form	Projec	t: Glev	brn	n SP				
Bird and Wildlife Area Search Observation Form							Project #: 1072						
Date: Moy 4	2011						Cover (%		%				
Time: 9:33 pm Observer(s): PNT, JRW Survey: Herp & Bird Habitat Searches						Tempe	rature (°C	C): 6°(2				
						Wind:	140.		/				
survey: therp a	BINO	Habite	at sea	vones	-	Precipi	tation:	NONE	(raine	d stead	ly yeste	ndary	
Species				POLYGO	ON NU	MBERS - Record evidence by polygon							
(**note: no codes)	WET-002 008-003 (NET-DO) WOD-001 008-001					WDD-002 WCD 003							
Red-Wingled Blackbird	50			:		::							
Red-winged Blackbird Shorp-Shinned Hawik	*	· · · · ·	1	Territ	1.000	6.2				-			
Ganadia Gipose	1	1/1-1				1				2			
Song Sparrow	7									T.			
Eastern Meadoular K		•											
American Roborn	•		2			•	0.0		1				
Spannowsp	•												
American Crow		8 A 6 V									-		
Javannah Sudmow	-		-										
tree Smallow	•												
Conote (scat)	•												
Sandpiper sp													
Nestern Chorus Frog	::				-								
accon (tracks)			2			•							
Sandhill Chane Beaver (dd evidence	0					L							
Beaver (dd evidence						•							
Nodrecker sp.						0			1				
American Cooldfinch						•							
valer striders						8							
nuny Woodpecker							*	<u> </u>				1	
mallard							•	1.000					
mallard Draying manhs (00 meca)									1				
								1		· · · · · ·			
											1		
			1		-	1							

* Shorebird

Breeding Bird Monitoring 10 Minute Point Count 100m Plot Radius Weather: Wind speed: 3 NE	Station: B	<u>мв- (^))</u>		Project #: <u>(10na/m</u>	1072	Wind Scale O Calm 1 Smoke drifts 2 Wind felt on face 3 Leaves in motion 4 Sm branches move 5 Sm trees sway 6 Lrg branches move
	Date: 5	- 11 12	000			7 Whole trees in motion
Cloud cover: 15 %	-	-Ci I		e.		8 Twigs break off, hard to walk 9 Light structural damage 10 Trees uprooted
Air temperature: 20 °C	Start Time					
Precipitation: NON-1	Observers: KSJ, KNP					Breeding Evidence Codes Observed X - No evidence of breeding
	New	Visit 1	1	Visit 2 Number		H - Suitable nesting habitat
Species Name	Number <50m >50r		Som Breeding Ev.	<50m >50m	Breeding Ev.	S - Singing male Probable
Turkes 1 Withle	1	0	X			D Dair
Common yellow throat	3.4		S			T - Permanent territory D - Courtship or display V - Visiting prob nest site A - Agitated behaviour or anxiety calls
Bobolink	0.1	~	S		1.000	A - Agitated behaviour or anxiety calls B - Brood patch/cloacal protuberance N - Nest building or excavation
	1		S			N - Nest building or excavation Confirmed DD - Distraction display
Chipping Sparion	0	-	2			DD - Distraction display NU - Used nest or egg shell
Least Chiletcher		-	20			NU - Used nest or egg shell FY - Fledged young AE - Adults at occupied nest
Sam Sparrow	6		S		-	FS - Faecal sac CF - Carrying food NE - Nest containing eggs
Yellow worker	-	8	5			NY - Nest with young
E Perwice			S		-	
White throated Spanish	/	ø	90			Incidental species (>100m, before or an point count from plot vicinity):

Comments / Wildlife Obs .:

177 0661969 4925858

Bird Monitoring

			Station: T	112 -	002			
			Station: P	A Del a gran article	1201	2	· · ·	
Wind speed: 2				5100			(airala)	
Cloud cover: 10 %			Visit #:	1	(2)	3	(circle)	
Air Temp. 14 °C			Start Time	: 8:1	4			
Precip. none			Observers	ANN	1 LSN	1	-	
UTM 6661969	49	2585	58					
Outside Name	Fir	st 5 Minute	es I	Sec	cond 5 Min		Breeding	Wind Scale 0 Calm
Species Name	<50m	50-100m	>100m*	<50m	50-100m	>100m*	Evidence	1 Smoke drifts
Robalink			2				X	2 Wind felt on face 3 Leaves in motion
Lastern mendous		11	Z			2	5	4 Sm branches move 5 Sm trees sway
Sour spartow		1					5	6 Lrg branches move 7 Whole trees in
Factoringh Spar			5				5	motion 8 Twigs break off, hard
Barn swallow		2	1		5		5	to walk 9 Light structural
Red tailed taulk			1			h	X	damage 10 Trees uprooted
Red which shallow					5		S	
								Breeding Evidence Codes Observed X - No evidence of breeding Possible
								H - Suitable nesting habitat S - Singing male Probable
								P - Pair T - Permanent territor D - Courtship or display V - Visiting prob nest
								site A - Agitated behaviou or anxiety calls B - Brood
								patch/cloacal protuberance N - Nest building or
								excavation Confirmed DD - Distraction
								display NU - Used nest or eg shell
		1						FY - Fledged young AE - Adults at occupied nest
								FS - Faecal sac CF - Carrying food NE - Nest containing
								eggs NY - Nest with young
			1					-

Comments:

0

Nere

%

°C

10 N	linute	Point	Count
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Wind speed:

Cloud cover:

Air Temp. Precip.

UTM

Proje	ect	Na	m

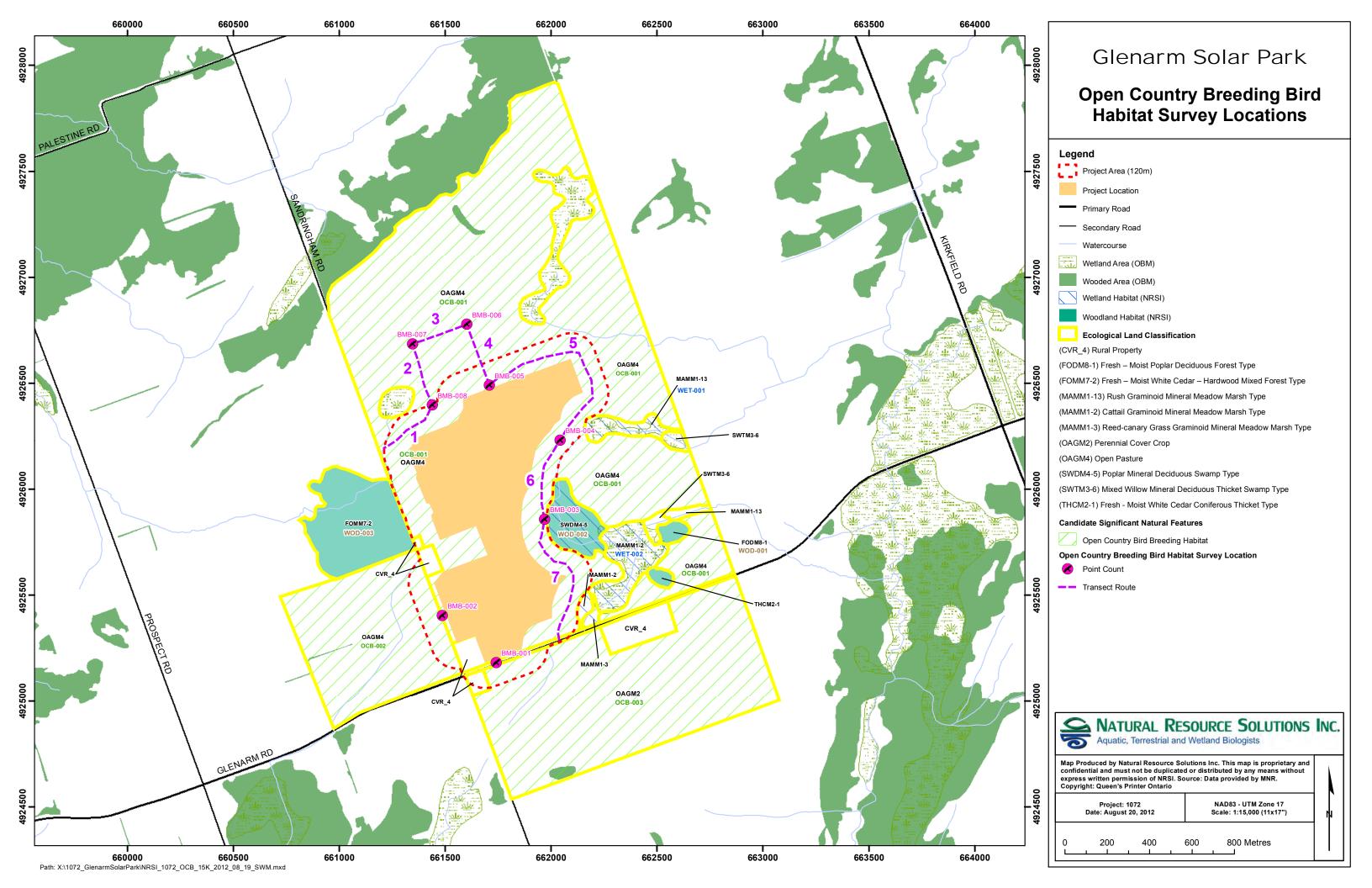
Glana	m SF)	Project #	<u>10712-</u> A
Station:	BADRC	203		
Date:	The 2	3/201	2	
Visit #:	1	2	(3)	(circle)
Start Time	081	0	~	-
Observers	KCP.	TAL		

	First 5 Minutes			Second 5 Minutes			Breeding	Wind Scale 0 Calm	
Species Name	<50m	50-100m	>100m*	<50m	50-100m	>100m*	Evidence	1 Smoke drifts	
ledar waxwing			2				H	2 Wind felt on face 3 Leaves in motion	
brokak		2	3				P	4 Sm branches move 5 Sm trees sway	
Rawannah Sparow		1	2				5	6 Lrg branches move 7 Whole trees in	
Sclev Aucatchev		1					S	motion 8 Twigs break off, ha	
upland Sardp.per			1				S	to walk	
vellow werter		2					+1	9 Light structural damage	
perior and backid		2	1				H	10 Trees uprooted	
esstern madalakk	1		2				S		
		1	1				X	12	
American arew		1			1	J	X	Breeding Evidence Codes	
American goblirch		1			1		9	Observed X - No evidence of	
Consequences			1	1		N.	H	breeding	
		1				10	H	H - Suitable nesting	
Hack-hilled cuckton		1	-			11	H	habitat S - Singing male	
Killer	-	1				11	H	Probable P - Pair	
purpose starling		-	-					T - Permanent territ D - Courtship or	
		1				11.1.2.2.1		display V - Visiting prob ne	
		-			1			site A - Agitated behavi	
	1	-						or anxiety calls B - Brood	
		-	-	-			12	patch/cloacal protuberance	
		-			1		1	N - Nest building or excavation	
		-		-				Confirmed	
2	-	-	1					DD - Distraction display	
		-			-			NU - Úsed nest or e shell	
		1	-					FY - Fledged young AE - Adults at	
		-	1			1		FS - Faecal sac	
		-		-				CF - Carrying food NE - Nest containing	
		-	-	1	-			eggs NY - Nest with your	
		-	1	-	-			1	
		-	-			1	-	1	

Comments:

* Note: this column gets entered in as incidental species (Point Count radius is 100m)

1)



ATTACHMENT D

Breeding Bird Survey Methodology

Open Country Breeding Bird and Habitat for Common Nighthawk Survey Methodology

Diurnal breeding bird surveys, following the methods outlined in the Ontario Breeding Bird Atlas Guide for Participants (OBBA 2001), will be conducted during the 2012 breeding season between late May and early June and generally between dawn and 5 hours after sunrise. Breeding season surveys will be undertaken to determine which species displayed breeding behaviour in the project location. Breeding behaviour generally includes, but is not limited to, males singing, nest building, egg incubation, territorial defence, carrying food, and/or feeding their young. Surveys will be undertaken twice over the course of each breeding season (Visit 1 -late May to early-June, Visit 2 -early-June to mid-June) to ensure that both early and late breeders were detected.

The breeding bird surveys will consist of point counts in candidate avian habitat. Point counts are used to establish quantitative estimates of bird abundance in major habitat types of the study area. Breeding evidence for each bird species will be documented using Breeding Bird Atlas Evidence Codes. All point count locations were documented with a GPS coordinate in NAD 83.

Area searches will also be used to survey for breeding birds in candidate wildlife habitat. Area search surveys involved noting all individual bird species and their corresponding breeding evidence while traversing the project location on foot. The breeding evidence, habitat and location of each bird observation were also noted. Area search routes will be concentrated between point count locations.

In order to capture occurrence data and habitat use by crepuscular species, crepuscular bird surveys will also be undertaken over two visits from June to early July during periods with at least 50% lunar illumination and low cloud cover. These surveys followed the Nightjar Monitoring Protocol provided by the MNR (2011b) and generally consisted of point counts in the project location where suitable habitats for target species occurs. For all point count locations, a GPS coordinate in NAD 83 will be documented.