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Prepared by: Dave Scobie<sup>1</sup> and Cameron Faminow<sup>2</sup>

<sup>1</sup> Avocet Environmental Inc.

Box 1644, Brooks AB T1R 1C5

<sup>2</sup>Ghostpine Environmental Services Ltd.

608 Willacy Drive SE Calgary AB T2J 2C9

**MARCH 2000** 

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#### **INTRODUCTION**

Environmental assessment guidelines exist for a variety of wildlife, particularly species of concern in prairie Canada. Current guidelines include species of national, provincial and local concern. For each species of sensitive wildlife, the guidelines identify restrictions on passive and development activities for industry and other wildlife disturbances. The guidelines typically include set back distances from nests or dens and timing of disturbances. Copies of existing guidelines for Alberta, Saskatchewan, Manitoba and Environment Canada – Prairie and Northern Regions can be found in Appendix A.

The guidelines typically include set back distances from nests or dens and timing of disturbances.

As the list of species at risk in southern Saskatchewan grew, guidelines were developed in response to requests from industry to help in their planning and implementation of projects. Setback distances were based on interviews with other researchers and personal observations. Timing guidelines generally revolve around the breeding and brood rearing requirements of the animal. These guidelines were implemented in 1995 and are currently regularly used in the grassland ecoregion of Saskatchewan.

Alberta Environment staff in southern Alberta adopted the Saskatchewan example as a working model and modified the guidelines to reflect species of local concern. Discussions are presently underway to modify these guidelines so that they can be applied for use on any species or significant habitat in Alberta. Other areas of the province have not formally developed guidelines.

Manitoba utilizes publications that are specific to minimizing the environmental impact of activities such as the construction of roads, utility corridors and stream crossings. Buffer considerations are used that may be varied after the critical timing period and Manitoba Conservation staff routinely provide comment on development activities.

Environment Canada has developed a list of guidelines for some of the Prairie and Northern Region species at risk in response to projects that are subject to review by a national agency (i.e., National Energy Board).

The guidelines vary between the three prairie provinces both in the species on each list and the details of the assessments. These discrepancies between jurisdictions made it difficult to justify the guidelines to industry.

On December 31,1999, Avocet Environmental Inc with assistance from Dr. Geoff Holroyd and Paul Gregoire, submitted a proposal to Environment Canada's Environmental Assessment Research and Development Fund to compile a standardized set of guidelines and mitigation strategies for vertebrate species listed by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) in the Prairie and Northern Regions. The contract length was nine weeks. The information for the guidelines was based on broad consultation, the best available knowledge, existing local management and reflects the varying degrees of impact that activities associated with the Petroleum industry may have on these COSEWIC species.

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#### ... not all developments are the same in terms of magnitude and risk and thus should warrant different sethack distances and timing

restrictions.

#### **METHODS**

Representatives from the Petroleum industry were consulted in an effort to develop a method that would reflect the range of activities that could impact species. The suggested method plots the Type of Disturbance, Magnitude of Disturbance and Risk in a 3D matrix. This method is based on the premise that not all developments are the same in terms of magnitude and risk and thus should warrant different setback distances and timing restrictions. The level of designation of an animal on the COSEWIC list was not included in rankings as it was assumed that this process should apply equally to all organisms but will focus on COSEWIC in the interim.

For example, on native prairie, drilling a minimal disturbance shallow sweet gas well is much different in construction method, total disturbance, and risk than drilling a deep sour oil well. The deep sour oil well usually requires leveling the lease and the rig may be on site drilling for weeks. In comparison with the drilling of a shallow gas well, there is little if any clearing, the access road and the drilling rig use undisturbed native prairie and the well is usually drilled within 24 hours.

Categories of the range of activities were sent out to Petroleum industry representatives who were asked to rank them. When asked to comment on ranking the values for the matrix, industry representatives were asked to consider that a hypothetical area is "pristine" with no previous development in the area as explained in the following examples.

#### LEVEL

#### **ACTIVITY**

LOW MEDIUM-LOW MEDIUM MEDIUM-HIGH HIGH	surveying, drive by interpolated short term e.g., 24-hr minimal disturbance drilling event interpolated permanent structures e.g., roads, buildings
MEDIUM-LOW MEDIUM MEDIUM-HIGH	interpolated short term e.g., 24-hr minimal disturbance drilling even interpolated

... the biological information would be based on a broad consultation process and for most species, anecdotal evidence.

Participants were asked to provide comment on the LOW, MEDIUM and HIGH categories. The MEDIUM-LOW and MEDIUM-HIGH categories were added to offer more flexibility to the matrix.

The rankings were then compiled and redistributed for additional comments. It was emphasized to industry that for many of the species being considered there was no science to back up the setback distances and that the biological information would be based on a broad consultation process and for most species, anecdotal evidence. A listing of industry representatives contacted is found in Appendix B.

The 32 species assessed, along with their common name, scientific name, COSEWIC status, and year of last review, are listed in alphabetical order in Appendix C. To facilitate ease of use, all lists are organized alphabetically by common name as this document is meant for general distribution.





Species "authorities" included government and non-government personnel from the prairie and northern regions of Canada. They were also asked to consider the animal living in relative isolation from human disturbance when commenting on critical dates, suggested setbacks, rationale for setbacks, suggested mitigation and any known disturbance studies. Existing guideline information and recommendations from other persons were not made available during the interview (except where interviewees had developed guidelines in their jurisdiction) so as not to influence responses. No emphasis was given to the COSEWIC designation, all wildlife should be treated equally through this process and emphasis given to ecosystem approaches for recovery.

The critical dates, suggested setbacks, and rationale for the setback distances were compiled and sent out to the original interviewees and in addition, to a broader range of species "authorities" for final comment.

In discussions with both biological and industry representatives, it was stressed that this is meant to be a work in progress and that the final document will not be static. The process must be continually updated to reflect changes in development practices and species knowledge.

#### RESULTS

Representatives from various industry organizations were consulted during the project. A copy of the matrix values for the Petroleum industry is found in Appendix D.

During the biological consultation process, 96 interviews were completed, 127 people were contacted for a total of 223 species authorities in British Columbia, Alberta, Saskatchewan, Manitoba, Northwest Territories, Nunavut and various locations in the United States (NOTE: some people have experience with more than one species).

Appendix E contains the compiled listings of Setback Distances and Critical Timing, and Appendix F lists Rationale for Setback Distances and Critical Timing. These lists for the 32 species being considered are organized into species groups of AVIFAUNA(birds), MAMMALS, and HERPTILES(amphibians and reptiles). An example of the matrix is found in Appendix G.

Species "authorities" who were consulted either in person, by phone, fax or e-mail are listed in Appendix H. The list and their contact information are organized by species groups. Environment Ministers from Alberta, Saskatchewan and Manitoba were also contacted and a copy of the letter sent, along with response from 2 Ministers, can be found in Appendix I.

Species authorities could not be contacted for the following species: Grey Fox, Ivory Gull, Least Bittern, Northern Prairie Skink and Ross' Gull. Some species already have existing local management groups and/or guidelines that are under development, therefore, guidelines were not developed for the Woodland Caribou (e.g., www.deer.rr.ualberta.ca/caribou/bcrp.htm) Grizzly Bear (e.g., www.gov.ab.ca/env/

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This project was presented as a working paper at a meeting of the Alberta Chapter of The Wildlife Society on March 10-11, 2000 in Lethbridge, Alberta, Canada. Conference participants were encouraged to contribute to the project with some excellent contacts established. In addition, a 1997 document entitled "The Effects of Linear Developments on Wildlife: A Review of Selected Scientific Literature" compiled by Arc Wildlife Services Ltd, Calgary, for Canadian Association of Petroleum Producers Calgary, Alberta, was made known at the Conference and is available on request from Environment Canada. Contact Paul Gregoire for more information.

#### **DISCUSSION**

The development of standardized guidelines for setback distances, timing, and mitigation strategies is the continuation of a process that began in Saskatchewan in 1994 and does not end with this document. The process must be updated to reflect changes in development practices, species knowledge, existing research and literature. A cursory review of the literature found that for most of the species, no studies have been conducted to document the effects of disturbance on critical portions of their life cycle.

Environment Canada is in the process of completing a literature search on selected COSEWIC species that should contribute additional information on the effects of disturbance for these species.

As industry practices evolve and the matrix values are tested, adjustments to these guidelines will need to be made. When a company is considering a project it should first try to schedule the project so it will have the least impact on species, for most species this will mean constructing outside of the breeding season. If avoiding this critical period is not an option, then the guidelines should be applied for planning and operational purposes.

If a company must develop within the critical times, historic species information is available from provincial databases (i.e., Conservation Data Centers) that highlight historic "hot spots". The onus would then be on the developer to hire qualified personnel to conduct surveys within the project area so that current locations of nests/dens can be located. If a den or nest is found within the recommended setback distance, an evaluation should be made to assess existing land-use/above ground structures and topography in the area to determine if the setback can be relaxed. This would be done in consultation with the proper regulating authority.

Industry Matrix values are based on perceived impacts and will need to be revised as more knowledge is gained. There was some debate about the low weighting of *Pipeline* in the *Type of Disturbance* for the Petroleum Values. The concern with the low weighting was that pipeline right-of-ways become trails and then roads. If a pipeline right-of way does become a trail or road then setback distance would automatically increase to that of Access Roads.

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At this point these guidelines are based on the best available knowledge of industry and biological authorities whose comments were based on personal observation rather than specific scientific quantitative studies. It would therefore not be ethical for these guidelines to be incorporated into any regulatory framework.

A few comments that appeared more than once as suggested mitigation\* that could help species and make projects more cost effective are listed below:

1. Construct outside of the Critical Time periods.

- 2. Encourage traffic control programs to reduce vehicular traffic and speeds, day/night.
- 3. Reclaim with native species for both diversity and structure.
- 4. Reduce fences and powerlines where possible.
- 5. Narrow right of ways.
- 6. Detour around sensitive areas.
  - \* a section on Suggested Mitigation has not been included in this report until comments can be sent to Recovery Teams to refine. These results will be available at a later date.

It must be emphasized that the 32 species being considered for this project are at risk in Canada for a variety of reasons. Over 2/3 of these species rely on the prairie for a significant portion of their breeding cycle. Though the perceived impact of industrial development on these species can not be dismissed, it is not the only factor at work. Urban development, fragmentation and degradation of habitat are but a few influences along with natural cycles that must be included in discussions of species recovery efforts. Species recovery is not the responsibility of a single industry but of society as a whole as it considers, "What is the worth of a Piping Plover?"

#### RECOMMENDATIONS

- 1. Complete literature review of impacts of human activities on wildlife.
- 2. Consider cumulative effects of all projects.
- 3. Incorporate data into a computer program for ease of data manipulation and sharing.
- 4. Continue cooperative partnerships between jurisdictions and encourage information sharing.
- Encourage cooperative multidisciplinary studies to investigate effectiveness of setback distances, timing restrictions and industry matrix values. Future research should focus on determining the perceived effects and impacts of activities on species and their habitats.
- 6. Each jurisdiction adopt this process and expand it for its own species at risk.
- 7. Incorporate other activities into the framework i.e., ecotourism, mining, agriculture, etc.
- 8. Explore impacts to fossorial animals by seismic activities.

Future research should focus on determining the perceived effects and impacts of activities on species and their

babitats.





### "RECOMMENDED SETBACK DISTANCES AND TIMING RESTRICTION GUIDELINES FOR RED AND BLUE LISTED SPECIES\* IN THE PRAIRIE BIOME OF ALBERTA"

\*as taken from the document entitled "The Status of Alberta Wildlife, 1996"

				•
S PECIES-OF-CONCERN	DATES OR AREAS	SURVEYING and MONITORING (meters)	SEISMIC and related ACTIVITIES (meters)	PERMANENT OR LONG TERM DEVELOPMENT (wellsite, powerline, pipeline, battery, road) (meters)
HERPTILES:				
1. North. Leopard Frog: Breeding Ponds	Apr. 1 - Sept. 30	50	50	100
	Oct. 1 - Mar. 31	No restrictions	50	100
2. Great Plains Toad	Breeding Ponds	50	50	100
	Ephemeral Ponds	50	50	100
3. Canadian Toad	Breeding Ponds	50	50	100
	Ephemeral Ponds	50	50	100
4. Plains Spadefoot Toad	Breeding Ponds	50	50	100
	Ephemeral Ponds	50	50	100
5. Prairie Rattlesnake: Hibernacula	Apr. 1 - May 30	200	200	200
	Aug. 15 - Oct. 31	200	200	200
	Nov. 1 - Mar. 31	100	200	200
	June 1 - Aug.14	50	200	200
6. Plains Hognose Snake: Hibernacula	Apr. 1 - May 30	200	200	200
	Aug. 15 - Oct. 31	200	200	200
	Nov. 1 - Mar. 31	100	200	200
	June 1 - Aug.14	50	200	200
7. Eastern Short-horned Lizard	all suitable habitats	100	100	100
BIRDS:				
8. Peregrine Falcon: Nest Site	Apr. 1 - July 31	500	1000	1000
	Aug 1 - Mar 31	10	100	1000
9. Burrowing Owl; Nest Site	Apr. 1 - Aug. 15	200	500	500
	Aug. 16 - Oct. 15	200	200	500
	Oct. 16 - Mar. 31	10	100	500
10. Piping Plover: Nesting Beach	May 1 - Aug. 15	200	200	400
	Aug. 16 - Apr. 30	10	10	400
11. Ferruginous Hawk: Nest Site	Mar. 15 - July 15	1000	1000	1000
	July 16 - Mar. 14	10	10	1000
12. Short-eared Owl: Nest Site	Apr. 1 - July 31	200	200	400
13. Sprague's Pipit: Nest Site	Apr. 15 - July 15	100	100	100
14. Long-billed Curlew: Nest Site	Apr. 15 - July 15	100	100	200
15. Sage Grouse: Dancing Ground/Lek	Mar. 1 - June 15	500	500	1000
	June 16 - Feb. 29	100	100	1000
MAMMALS:				1000
16. Ord's Kangaroo Rat: Dens	Year Round	50	100	100
17. Swift Fox: Dens	Feb. 15 - July 31	500	500	500
	Aug.1 - Feb.14	50	100	500

December 1999





# SASKATCHEWAN ENVIRONMENT AND RESOURCE MANAGEMENT - GRASSLAND ECOREGION ACTIVITY RESTRICTION FOR SENSITIVE VERTEBRATE SPECIES (NESTS OR DENS UNLESS NOTED OTHERWISE)

(MEST S SK BENS SNEESS NOTED STREKWISE)				
SPECIES	PASSIVE ACTIVITIES		DEVELOPMENT ACTIVITIES	
	(walking, drive by, etc.)		(seismic, drilling, etc.)	
	DATES	METERS	DATES METERS	
Golden Eagle	Feb 15 - July 15	500	Feb 15 - July15	1000
Swift Fox	Feb.15 - August 1	200	Feb. 15 - August 1	500
Ferruginous Hawk	March 15 - June 30	500	March 15 - July 15	1000
Prairie Falcon	March 15 - June 30	500	March 15 - July 15	1000
Sharp-tailed Grouse - Leks	March 15 - May 15	200	no activity year round	
Sage Grouse - Leks	March 15 - May 15	200	no activity year round	400
Sage Grouse - Nests	April 15 - June 15	200	April 15 - June 15	500
Peregrine Falcon	April 1 - July 31	500	April 1 - July 31	500
Eastern Screech Owl	April 1 - July 31	200	April 1 - July 31	1000
Western Screech Owl	April 1 - July 31	200	April 1 - July 31	400
Cooper's Hawk	April 1 - July 31	200	April 1 - July 31	400
Short-eared Owl	April 1 - June 30	100	April 1 - June 30	400
American White Pelican	April 1 - July 31	500	7	400
Double-crested Cormorant	April 1 - July 31	500	April 1 - July 31	1000
Great Blue Heron	April 1 - July 31	500	April 1 - July 31	1000
Black-crowned Night Heron	April 1 - July 31	500	April 1 - July 31	1000
Trumpeter Swan	April 1 - July 31	500	April 1 - July 31	1000
Whooping Crane - spring migration	April 1- May 15		April 1 - July 31	1000
Burrowing Owl	April 15 - July 15	1000	Apr 1- May 15	1000
Long-billed Curlew	April 15 - July 15	200	April 15 - July 31	500
Mountain Plover	April 15 - June 30	100	April 15 - July 15	200
Loggerhead Shrike	May 1 - June 30	200	April 15 - June 30	400
Piping Plover	May 1 - July 15	100	May 1 - June 30	200
Snowy Plover	May 1 - July 15 May 1 - July 15	200	May 1 - July 15	400
American Bittern		200	May 1 - July 15	400
Franklin's Gull	May 1 - July 15	200	May 1 - July 15	400
Common Tern	May 1 - July 15	200	May 1 - July 15	400
Caspian Tern	May 1 - July 15	200	May 1 - July 15	400
Forster's Tem	May 1 - July 15	200	May 1 - July 15	400
Eared Grebe	May 1 - July 15	200	May 1 - July 15	400
Western Grebe	May 15 - July 15	100	May 15 - July 15	200
Sage Thrasher	May 15 - July 15	100	May 15 - July 15	200
Short-homed Lizard	May 15 - June 30	100	May 15 - June 30	200
Northern Leopard Frog	no restrictions		no activity on breeding areas	
Painted Turtle	no restrictions	ľ	no activity on breeding areas	
Snapping Turtle	no restrictions		no activity on breeding areas	
	no restrictions	ŀ	no activity on breeding areas	
Plains Spadefoot Toad	no restrictions	- 1	no activity on breeding areas	
Whooping Crane - fall migration	Aug 15 - Nov 1		Aug 15 - Nov 1	1000
Prairie Rattlesnake - hibernacula	Sept 1 - May 15	100	no activity year round	200
Yellow-bellied Racer - hibernacula	Sept 1 - May 15	100	no activity year round	200
Black-tailed Prairie Dog (Colonies)	no restrictions		no activity on colonies	
Ord's Kangaroo Rat	no restrictions		year round - no blasting within 2	200 m

vlay 1997

Avocet Environmental Inc



# MANITOBA NATURAL RESOURCES CONSOLIDATED BUFFER MANAGEMENT GUIDELINES BUFFER CONSIDERATIONS FOR OTHER SIGNIFICANT RESOURCE VALUES

SPECIAL RESOURCE VALUE	BUFFER WIDTH*	OBJECTIVE OF BUFFER	CRITICAL PERIOD**
COLONIAL WATERBIRD NESTS	200 m	Provide a visual barrier Protection from disturbance	April 1 - July 31
MINERAL LICKS AND SPRINGS	200 m	Provide a visual barrier Protect ground water and maintain soil stability	April 1 to June 30
EAGLE OR OSPREY NESTS	200 m	Protect nest tree. Provide a visual barrier between the nest and worksite. Maintain the site integrity.	April 1 to July 31
SPECIAL HABITATS AND AREAS (SUCH AS ENDANGERED SPECIES, PROTECTED SITES, ETC.)		Protect the security of the habitat on a year round basis.  Maintain the long term existence of the habitat or area.	Year round
RECREATIONAL VALUES (SUCH AS COTTAGES, CANOE ROUTES, ETC.)	[1		Seasonal to year round

<sup>\*</sup> BUFFER WIDTH may vary after the critical period once reviewed by the Integrated Resource Management Team based on site specific evaluations.

March 1996





<sup>\*\*</sup> CRITICAL PERIOD refers to that portion of the year where special resource values are most sensitive to disturbances.

## ENVIRONMENT CANADA DEPARTMENT OF ENVIRONMENT COSEWIC SPECIES TIMING RESTRICTIONS

COMMON NAME	STATUS	AREA	DATES	DISTANCE (meters)
Anatum Peregrine Falcon	Threatened	Active Nest		100
Burrowing Owl	Endangered	Active Den	April 15 - August 15	500
Burrowing Owl	Endangered	Encounter	August 15 - Sept 15	250
Ferruginous Hawk	Vulnerable	Active Nest	March 15-June 15	500
Ferruginous Hawk	Vulnerable	Encounter	June 15 - July 15	100
Least Bittem	Vulnerable	Active Nest	June 15 - July 15	100
Mountain Plover	Endangered	Active Nest	May 15-July 15.	100
Piping Plover	Endangered	Active Nest	May 1-August 1	250
Red-Headed Woodpecker	Vulnerable	Active Nest	April 15-July 15	100
Sage Grouse	Endangered	Nest or Lek	Tapin 15-suly 15	250
Short-eared Owl	Vulnerable	Active Nest	April 15-August 15	100
Sprague's Pipit	Threatened	Active Nest	May 1 - August 15	100
Swift Fox	Endangered	Active Dens	April 15 - July 15	500
Western Loggerhead Shrike	Threatened	Active Nest	April 15-July 15	250
Ross' Gull	Vulnerable	, tenve rest	April 13-3diy 13	250
Yellow Rail	Vulnerable			
Long-billed Curlew	Vulnerable		April 15-July 15	250
Sage Thrasher	Endangered		Chin 13-3nK 13	250
Whooping Crane	Endangered		Enganus	500
	Lindangered		Encounter	500

January 2000





## APPENDIX B LIST OF INDUSTRY REPRESENTATIVES CONTACTED

	<u>Name</u>	Phone/Fax/E-mail	Company	Address
1	Gilmore, Karl General Manager	Phone: 403-265-2885 Fax: 403-266-6471 kgilmore@teraenv.com	Tera Environmental Consultants (Alta) Ltd.	Suite 205 925 7 <sup>th</sup> Avenue S.W. Calgary AB T2P 1A5
2	Heemeryck, Ken Senior Logistics S	Phone: 403-296-3476 upervisor	Petro-Canada Oil and Gas	Box 2844 Calgary AB T2P 3E3
3	Jensen, Carl Superintendent	Phone: 403-290-2294 carl_jensen@pcp.ca	PanCanadian	150 - 9 <sup>th</sup> Ave S.W. Box 2850 Calgary AB T2P 2S5
4	Lunn, Stu Senior Analyst	Phone: 403-268-7868 stuart_lunn@pancanadian.ca	PanCanadian	150 - 9 <sup>th</sup> Avenue S.W. Box 2850 Calgary AB T2P 2S5
5	McBride, Stan	Phone: 403-260-4903	Wascana Energy Inc.	Box 2727, Station M Calgary AB T2P 5C1
6	Millions, Noel Landman	Phone: 403-650-8715 noelm@cnrl.com	Canadian Natural Resources Ltd.	Box 2770 Drumheller AB T0J 0Y0
7	Neal, John Contract Construct Foreman	Phone: 403-793-4473 ion john_neal@pcp.ca	PanCanadian	150 - 9th Avenue S.W. Box 2850 Calgary AB T2P 2S5
8	Parson, Kevin Logistics Supervisor	Phone: 403-803-3700 jugger@telusplanet.net	Petro-Canada Oil and Gas	Box 2844 Calgary AB T2P 3E3
9	Rausch, Don	Phone: 403-529-8243 Fax: 403-271-2299 donrausch@hotmail.com	City of Medicine Hat	364 Kipling Street S.E. Medicine Hat AB T1A 1Y4
10	Robert, Jim	Phone: 403-233-5919	Amoco Canada	204 - 4 <sup>th</sup> Avenue S.W. Box 200 Station M Calgary AB T2P 2H8





REVIEWED

STATUS

### LIST OF COSEWIC SPECIES CONSIDERED: MAMMALS, BIRDS, AMPHIBIANS, REPTILES

SCIENTIFIC NAME

COMMON WAME	SCIENTIFIC NAME	STATUS	REVIEWED
1 Anatum Peregrine Falcon	Falco peregrinus anatum	Threatened	1999
2 Black-tailed Prairie Dog	Cynomys ludovicianus	Vulnerable	1999
3 Burrowing Owl	Athene cunicularia	Endangered	1995
4 Eastern Loggerhead Shrike	Lanius ludovicianus migrans	Endangered	1991
5 Eastern Short-horned Lizard	Phrynosoma douglassii brevirostre	Vulnerable	1992
6 Eastern Yellow-bellied Racer	Coluber constrictor flaviventris	Vulnerable	1991
7 Ferruginous Hawk	Buteo regalis	Vulnerable	1995
8 Great Plains Toad	Bufo cognatus	Vulnerable	1999
9 Grey Fox	Urocyon cinereoargenteus	Vulnerable	1979
10 Grizzly Bear	Ursus arctos	Vulnerable	1991
11 Ivory Gull	Pagophila eburnea	Vulnerable	1996
12 Least Bittern	Ixobrychus exilis	Vulnerable	1999
13 Long-billed Curlew	Numenius americanus	Vulnerable	1992
14 Mountain Plover	Charadrius montanus	Endangered	1987
15 Northern Leopard Frog	Rana pipiens	Vulnerable	1998
16 Northern Prairie Skink	Eumeces s. septentrionalis	Vulnerable	1989
17 Ord's Kangaroo Rat	Dipodomys ordii	Vulnerable	1995
18 Piping Plover	Charadrius melodus	Endangered	1985
19 Polar Bear	Ursus maritimus	Vulnerable	1999
20 Red-Headed Woodpecker	Melanerpes erythrocephalus	Vulnerable	1996
21 Ross' Gull	Rhodostethia rosea	Vulnerable	1996
22 Sage Grouse	Centrocercus u. urophasianus	Endangered	1998
23 Sage Thrasher	Oreoscoptes montanus	Endangered	1992
24 Short-eared Owl	Asio flammeus	Vulnerable	1994
25 Sprague's Pipit	Anthus spragueii	Threatened	1999
26 Swift Fox	Vulpes velox	Endangered	1998
27 Western Loggerhead Shrike	Lanius ludovicianus excubitorides	Threatened	1986
28 Whooping Crane	Grus americana	Endangered	1978
29 Wolverine	Gulo gulo	Vulnerable	1989
30 Wood Bison	Bison bison athabascae	Threatened	1988
31 Woodland Caribou	Rangifer tarandus caribou	Vulnerable	1984
32 Yellow Rail	Coturnicops noveboracensis	Vulnerable	1999
	-		•

MARCH 2000

COMMON NAME





## APPENDIX D MATRIX VALUES FOR PETROLEUM INDUSTRY ACTIVITIES

TYPE OF DISTURBANCE	WEIGHT
	1
Pipeline	3
Access Roads	3
Wellsite	
Compressor Station, Oil Battery or Straddle Plant	3
Temporary Surface	1
Permanent Surface Facilities e.g., pig traps, risers, cathodic protection	4

GNITUDE OF DI Pipeline	Plowed in		_ <del> </del>
	< or = to 6"		2
	8"-10"		3_
	12" - 20"		3_
	> 20"		4
Shallow Gas Well a		ac ilities	1
Deep Gas Well and			2
Oil Well and Assoc			4
Permanent Facility		With Noise e.g., Small Compressor	4
1 Cilianone i doney		No Noise e.g., Small Pigging Station	3
	>100x100 m	With Noise e.g., Straddle Plant	5
		No Noise e.g., Tank Farm	4
Temporary Facility	e.g., Camps, Sto		1
Access Roads	Permanent		4
Access Roads	Temporary		1

SK			
Facilities	Liquids		4
	Gas	Sweet	1
		Sour	4
	Oil	Sweet	4
	21	Sour	5
	Water		_1
	Condensate	B	4
	Roads	Summer Use	3
	<del></del>	Winter Use	1
		All Season	5





### APPENDIX E-1

## AVIFAUNA SETBACK DISTANCES AND CRITICAL TIMING

SPECIES	TIMING	ACTIVITY	SETBACK	RANGE
1 BURROWING OWL	Apr 1 - July 15	LOW	(METERS)	(METERS)
(N=40)	(nestling, fledgling)	LOW	200	0-500
	(nesting, neaging)	MED-LOW	250	
		MED.	300	200-1000
		MED-HIGH	400	
		HIGH	500	500-1000
	July 16 - Oct 15	LOW	100	100
	(dispersal,	MED-LOW	150	
	pre-migration)	MED.	200	200
		MED-HIGH	300	
		HIGH	500	500
	Oct 16 - Mar 31	LOW	10	10
	(winter)	MED-LOW	100	10
		MED.	200	200
		MED-HIGH	300	200
		HIGH		***
		mon	500	500
2 FERRUGINOUS HAWK	Mar 15 - July 15	LOW	500	100 1000
(N=7)		MED-LOW		100-1000
		MED-LOW	500	
		MED. MED-HIGH	750	100-2000
			850	
		HIGH	1000	400-3000
3 IVORY GULL	NONE SUGGESTED			
(N=0)	THE STOCKED LED			
4 LEAST BITTERN	NONE SUGGESTED			
(N=0)	WONE BOOKESTED			
5 LOGGERHEAD SHRIKE	May 1 Apr 15			
(N=22)	May I - Aug 15 (active nests)	LOW	50	10-100
Note: applies to L. I. excubitorides and	(active nests)	MED-LOW	100	
L. I. migrans in Manitoba only		MED.	250	100-500
		MED-HIGH	250	
		HIGH	400	100-500
6 LONG-BILLED	Apr 15 - July 15	LOW	100	100
CURLEW	•	MED-LOW	100	100
(N=5)		MED.	200	100 200
		MED-HIGH	200	100-200
		HIGH	200	100-200
			200	100-200
7 MOUNTAIN PLOVER	May 1 - July 31	LOW	200	200
(N=2)	-	MED-LOW	300	200
		MED.	400	200-500
		MED-HIGH	500	200°JUU
		HIGH	500	200-750
		_		400°/JU
vocet				





### SETBACK DISTANCES AND CRITICAL TIMING

SPECIES	TIMING	ACTIVITY	SETBACK	RANGI
8 PEREGRINE FALCON	Apr 1 - Aug 15	LOW	(METERS) 300	(METERS)
(N=26)		MED-LOW	400	100-500
		MED.	500	500-2000
		MED-HIGH	750	300-2000
		HIGH	1000	500-2000
			1000	300-2000
9 PIPING PLOVER	May 1 - July 31	LOW	200	100-500
(N=16)	(nesting,	MED-LOW	300	100-300
	brood rearing)	MED.	400	200-500
	-	MED-HIGH	500	200-500
		HIGH	600	400-1000
				100 1000
	Aug 1 - Sept 30	LOW	100	100
	(dispersal,	MED-LOW	100	.50
	migration)	MED.	200	200
		MED-HIGH	400	200
		HIGH	600	800
0 RED-HEADED				
WOODPECKER	Apr 15 - June 30	LOW	0	0
(N=2)		MED-LOW	50	
(14-2)		MED.	100	100
		MED-HIGH	100	
		HIGH	100	100
1 ROSS'GULL	NONE SUGGESTED			
(N=0)	MONE BOOKESTED			
2 SAGE GROUSE	Mar 1 - July 15	LOW	500	
(N=20)	(leks)	MED-LOW	500	200-500
	(10.13)	MED-LOW MEDIUM	750	
		MED-HIGH	1000	500-3200
		HIGH	1000	
		nion	1000	1000-3200
	Apr 15 - June 15	LOW	200	200
	(nests)	MED-LOW	250	200
		MEDIUM	300	
		MED-HIGH	400	
		HIGH	500	500
	Inh. 16 E 1 00			
	July 16 -Feb 29	LOW	100	
	(leks)	MED-LOW	500	
		MEDIUM	1000	
		MED-HIGH	1000	
		HIGH	1000	1000-3200





## AVIFAUNA SETBACK DISTANCES AND CRITICAL TIMING

SPECIES	TIMING	ACTIVITY	SETBACK (METERS)	RANGE (METERS)
13 SAGE THRASHER	May 15 - June 30	LOW	100	100
(N=I)		MED-LOW	100	
		MED.	200	200
		MED-HIGH	250	
		HIGH	200	200
14 SHORT-EARED OWL	N. 05			
(N=8)	Mar 25 - Aug 1	LOW	100	100-200
(1,50)		MED-LOW	200	
		MED.	300	100-500
		MED-HIGH	400	
		HIGH	500	100-800
15 SPRAGUE'S PIPIT	Apr 21 - Aug 31	LOW	50	0-100
(N=8)	•	MED-LOW	100	0-100
		MED.	200	50-250
		MED-HIGH	200	30-230
		HIGH	250	100-400
16 WHOOPING CRANE	May 1 - Aug 15	LOW	500	100-1000
(N=12)	Sept 15 - Nov 1	MED-LOW	1000	100-1000
	(staging areas)	MED.	1000	1000
	, ,	MED-HIGH	1000	1000
		HIGH	0001	1000
17 YELLOW RAIL	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
(N=4)	May 1 - July 15	LOW	100	0-100
		MED-LOW	100	
		MED.	150	100-200
		MED-HIGH	250	
		HIGH	350	200-350





### MAMMALS SETBACK DISTANCES AND CRITICAL TIMING

	SPECIES	TIMING	ACTIVITY	SETBACK (METERS)	RANGE (METERS)
1	BLACK-TAILED PRAIRIE DOG	YEAR ROUND	LOW	0	0-100
	(N=2)		MED-LOW	125	
			MED.	250	0-500
			MED-HIGH	350	
			HIGH	500	0-1000
2	GREY FOX (N=0)	NONE SUGGESTED			
3	GRIZZLY BEAR	REFER TO LOCAL MAI	NAGEMENT PL	ANS AND/OR EX	IST ING GUIDELINES
4	ORD'S KANGAROO RAT	Apr I - Aug 15	LOW	50	0-50
	(N=4)	(breeding)	MED-LOW	100	
	•		MED.	250	200-250
			MED-HIGH	250	250
			HIGH	500	200-750
		Aug 16 - Nov 15	LOW	50	50
		(pre-winter)	MED-LOW	250	
			MED.	500	500
			MED-HIGH	500	
			HIGH	500	1000
		Nov 16 - Mar 31	LOW	50	50
		(winter)	MED-LOW	100	
			MED.	250	250
			MED-HIGH	250	250
			HIGH	500	750
5	POLAR BEAR	REFER TO EXISTING E	NVIRONMENTA	L IMPACT ASSE	ESSM ENT S
6	SWIFT FOX	Feb 15 - Aug 31	LOW	500	500
	(N=9)	(breeding, rearing,	MED-LOW	500	
		emergence)	MED.	500	500-1000
			MED-HIGH	500	
			HIGH	2000	2000
		Sep 1 -Feb 14	LOW	100	100
		(winter)	MED-LOW	250	
			MED.	500	500
			MED. MED-HIGH	500 500	500





#### ... cont'd APPENDIX E-2

#### MAMMALS

#### SETBACK DISTANCES AND CRITICAL TIMING

SPECIES	TIMING	ACTIVITY	SETBACK (METERS)	RANGE (METERS)
7 WOLVERINE	YEAR ROUND	LOW	0	0
(N=3)	(dens)	MED-LOW	100	
, ,		MED.	250	
		MED-HIGH	250	
		HIGH	500	500
8 WOOD BISON	Apr 1 - Sept 1	LOW	0	0
(N=10)	(calving, rut grounds)	MED-LOW	0	
		MED.	0	0
		MED-HIGH	500	
		HIGH	1000	1000
	Mar 1 - Apr 15	LOW	500	500
	(winter range)	MED-LOW	500	
		MED.	500	500
		MED-HIGH	750	
		HIGH	1000	1000

9 WOODLAND CARIBOU REFER TO LOCAL MANAGEMENT PLANS AND/OR EXISTING GUIDELINES





### HERPTILES SETBACK DISTANCES AND CRITICAL TIMING

SPECIES	TIMING	ACTIVITY	SETBACK (METERS)	RANGE (METERS)
1 EASTERN SHORT-	Mar 15 - Nov 15	LOW	50	0-100
HORNED LIZARD		MED-LOW	100	
(N=5)		MED.	200	0-200
		M ED-HIGH	200	
		HIGH	200	0-200
2 EASTERN YELLOW-	YEAR ROUND	LOW	100	100
BELLIED RACER		MED-LOW	150	
(N=3)		MED.	200	200
		MED-HIGH	500	
		HIGH	1000	200-2000
3 GREAT PLAINS	YEAR ROUND	LOW	10	0-100
TOAD		MED-LOW	200	
(N=5)		MED.	400	100-1000
		MED-HIGH	500	
		HIGH	500	100-1000
4 NORTHERN	Apr 1 - Oct 31	LOW	10	0-50
LEOPARD FROG	(breeding &	MED-LOW	100	
(N=10)	dispersal,	MED.	200	100-500
	pre-winter)	M ED-HIGH	350	
		HIGH	500	100-1000
5 NORTHERN PRAIRIE SKINK	NONE SUGGESTED			

(N=0)





#### **AVIFAUNA**

#### RATIONALE FOR SETBACK DISTANCES AND CRITICAL TIMING

SPECIES	TIMING	LEVEL	RATIONALE
BURROWING OWL N=40)	Apr 1 - July 15 (nestling, fledgling)	LOW MED-LOW	will react to disturbance
		MED. MED-HIGH	noise, people, losing part of home range
		нісн	90% of owl activity is within 600 m, safety factor, same setback as
	July 16 - Oct 15 (dispersal,	LOW MED-LOW	will react to disturbance
	pre-migration)	MED. MED-HIGH	may affect future nest site selection
		HIGH	90% of owl activity is within 600 m, safety factor, same setback as
	Oct 16 - Mar 31 (winter)	LOW MED-LOW	avoid destruction of burrow
		MED. MED-HIGH	buffer
		HIGH	90% of owl activity is within 600 m, safety factor, same setback as
ERRUGINOUS HAWK N=7)	Mar 15 - July 15	LOW MED-LOW	weather could affect time off nest, will respond at 400 m with young
		MED. MED-HIGH	extreme sensitivity, interrupt brooding, breeding, desertion
		HIGH	interrupt brooding, breeding, affect future nest site selection
VORY GULL N=0)	NONE SUGGESTEE	)	
EAST BITTERN N=0)	NONE SUGGESTED	)	
OGGERHEAD SHRIKE	May 1 - Aug 15	LOW	minimize disturbance, are somewhat tolerant
N=22) lote: applies to L. l. excubite L. migrans in Manitoba on		MED-LOW MED. MED-HIGH	concern about habitat integrity and foraging habitat
· · · · · · · · · · · · · · · · · · ·	,	HIGH	concern about habitat integrity and foraging habitat
ONG-BILLED CURLEW	Apr 15 - July 15	LOW MED-LOW	aggressive territorial displays
V=5)		MED. MED-HIGH	avoid nesting disruption
		HIGH	noise, movement may interfere with nesting
IOUNTAIN PLOVER	May 1 - July 31	LOW MED-LOW	avoid nesting disruption
		MED. MED-HIGH	more buffer, predators, avoid nesting disruption
		нісн	more buffer; unknown effects of roads, traffic, attract raptors
Nocet Environmental Inc		20	Ghostpine Environmental Services Led.

### AVIFAUNA RATIONALE FOR SETBACK DISTANCES AND CRITICAL TIMING

	SPECIES	TIMING	LEVEL	RATIONALE
8	PEREGRINE FALCO (N=26)	N Apr 1 - Aug 15	LOW MED-LOW	reduce disturbance, female may "throw" eggs
			MED. MED-HIGH	lack of incubation, loss of eggs, feeding, no brooding
			НІСН	disruption at nest, desertion, auditory disturbance
9	PIPING PLOVER (N=16)	May 1 - July 31 (nesting,	LOW MED-LOW	birds will react at 100-150m
		brood rearing)	MED. MED-HIGH	minimize nest desertion, predation, rare globally
			HIGH	unknown effects of roads, traffic, permanent loss of nest
		Aug 1 - Sept 30 (dispersal,	LOW MED-LOW	maintain habitat
		migration)	MED. MED-HIGH	concern about permanent habitat loss
			HIGH	concern about permanent habitat loss
10	RED-HEADED WOODPECKER (N=2)	Apr 15 - June 30	LOW MED-LOW MED.	avoid desertion
	(11 2)		MED-HIGH HIGH	avoid desenion
11	ROSS' GULL (N=0)	NONE SUGGESTE	ED	
12	SAGE GROUS E (N=20)	Mar I - July 15 (leks)	LOW MED-LOW	concern about disturbing congregating birds
			MEDIUM MED-HIGH	may interfere with lek behaviors
			HIGH	predation, auditory, mortality
		Apr 15 - June 15 (nests)	LOW MED-LOW MEDIUM MED-HIGH HIGH	
		July 16 - Feb 29 (leks)	LOW MED-LOW	no surface disturbance within setback
			MEDIUM MED-HIGH	no surface disturbance within setback
			HIGH	predation, auditory, mortality





#### **AVIFAUNA**

### RATIONALE FOR SETBACK DISTANCES AND CRITICAL TIMING

SPECIES	TIMING	LEVEL	RATIONALE
SAGE THRASHER (N=1)	May 15 - June 30	LOW MED-LOW	minimize disturbance, are somewhat tolerant
		MED. MED-HIGH	concern about habitat integrity and foraging habitat
		HIGH	concern about habitat integrity and foraging habitat
SHORT-EARED OWL (N=8)	Mar 25 - Aug 1	LOW MED-LOW	fairly tolerant, reduce chance of disrupting nesting
		MED. MED-HIGH	minimize nest disturbance, noise and vibration
		НІ <b>GH</b>	road mortality, protection of nesting areas
S PRAGUE'S PIPIT (N=8)	Apr 21 - Aug 31	LOW MED-LOW	prevent disturbance during nesting
		MED. MED-HIGH	maintain integrity of nesting territory, auditory disturbance
		ні <b>G</b> H	minimize fragmentation, cowbird parasitism, predators
WHOOPING CRANE (N=12)	May 1 - Aug 15 Sept 15 - Nov 1	LOW MED-LOW	sensitive to visual disturbance
	(staging areas)	MED. MED-HIGH	shy sensitive birds found in only a few areas
		HIGH	sensitive to visual disturbance
YELLOW RAIL (N=4)	May 1 - July 15	LOW MED-LOW	
		MED. MED-HIGH	disturbance and buffer
		HIGH	disturbance and buffer, may interfere with call





## MAMMALS RATIONALE FOR SETBACK DISTANCES AND CRITICAL TIMING

SPECIES	TIMING	LEVEL	RATIONALE
1 BLACK-TAILED PRAIRIE DOG (N=2)	YEAR ROUND	LOW MED-LOW MED. MED-HIGH HIGH	
2 GREY FOX (N=0)	NONE SUGGEST	ED	
3 GRIZZLY BEAR	REFER TO LOCAL	. MANAGEME	NT PLANS AND/OR EXISTING GUIDELINES
4 ORD'S KANGAROO RAT (N=4)	Apr 1 - Aug 15 (breeding)	LOW MED-LOW MED: MED-HIGH HIGH	avoid damage to burrow system, daytime activities only  concern about abandonment, loss of food caches, minimize light concern about mortality, predators, parasites minimize light to allow foraging, seismic could affect burrows
	Aug 16 - Nov 15 (pre-winter)	LOW MED-LOW MED. MED-HIGH HIGH	avoid damage to burrow system, daytime activities only critical to over-winter survival critical to over-winter survival
	Nov 16 - Mar 31 (winter)	LOW MED-LOW MED. MED-HIGH HIGH	avoid damage to burrow system, not limited to daytime activities  unknown effects of auditory, underground vibrations concern about mortality, predators, parasites could prevent above ground foraging, minimize light
5 POLAR BEAR	REFER TO EXIST!	NG ENVIRON	MENTAL IMPACT ASSESSMENTS
6 SWIFT FOX (N=9)	Feb 15 - Aug 31 (breeding, rearing, emergence)	LOW MED-LOW MED. MED-HIGH HIGH	correlation between disturbance and lower productivity  correlation between disturbance and lower productivity  concern about mortality, cumulative effects
	Sep 1 -Feb 14 (winter)	LOW MED-LOW MED. MED-HIGH HIGH	





# ... cont'd APPENDIX F-2 MAMMALS RATIONALE FOR SETBACK DISTANCES AND CRITICAL TIMING

YEAR ROUND		
TEARROUND	LOW	
(dens)	MED-LOW	
	MED.	
	MED-HIGH	
	HIGH	will use roads and seismic lines
Apr 1 - Sept 1	LOW	
(calving, rut grounds)	MED-LOW	
	MED.	animals will disperse
	MED-HIGH	·
	HIGH	animals may tolerate
Mar 1 - Apr 15	LOW	poor body condition, restricted locomotion
(winter range)	MED-LOW	•
	MED.	poor body condition, restricted locomotion
	MED-HIGH	. ,
	HIGH	poor body condition, restricted locomotion
	Apr 1 - Sept 1 (calving, rut grounds)  Mar 1 - Apr 15	MED-HIGH HIGH  Apr 1 - Sept 1 LOW (calving, rut grounds) MED-LOW MED. MED-HIGH HIGH  Mar 1 - Apr 15 LOW (winter range) MED-LOW MED. MED-HIGH





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### HERPTILES RATIONALE FOR SETBACK DISTANCES AND CRITICAL TIMING

SPECIES	TIMING	LEVEL	RATIONALE
1 EASTERN SHORT-	Mar 15 - Nov 15	LOW	concern about quads and vehicles
HORNED LIZARD		MED-LOW	
(N=5)		MED.	movements beyond rims and ravines
		MED-HIGH	
		HIGH	no activity on breeding areas
The second secon	YEAR ROUND	LOW	reduce mortal encounters, no disturbance during critical times
2 EASTERN YELLOW-	TEARROUND	MED-LOW	reduce fibrial encounters, no disturbance during entities times
BELLIED RACER		MED.	
(N=3)		MED-HIGH	
		HIGH	prevent den collapse, reduce road mortality
3 GREAT PLAINS	YEAR ROUND	LOW	not active during day
TOAD		MED-LOW	
(N=5)		MED.	sound may interfere with breeding, reduce road mortalities
		MED-HIGH	
		HIGH	contamination from runoff, reduce road mortalities
4 NORTHERN	Apr 1 - Oct 31	LOW	calling during day
LEOPARD FROG	(breeding &	MED-LOW	Annue annue any
(N=10)	dispersal	MED.	activity may cause calling to cease, identify movement corridors
(2.20)	pre-winter)	MED-HIGH	
	,	HIGH	road mortality, no instream effects that will affect flow needs

5 NORTHERN PRAIRIE NONE SUGGESTED SKINK

(N=0)





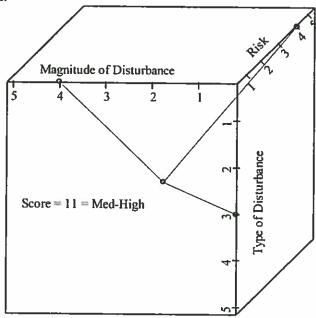
### APPENDIX G MATRIX EXAMPLE

Consider the following scenario: ABC Oil and Gas is planning to drill and construct associated facilities for a deep sweet oil well in known burrowing owl habitat between May 15-June 7 and want to know how far away they need to be from a burrowing owl nest.

1) Look up values in Disturbance Values for Petroleum Activities:

TYPE OF DISTURBANCE	Well site	3
MAGNITUDE OF DISTURBANCE	Oil well and Associated	4
RISK	Oil - Sweet	4

2) Plot as in diagram:



3) Look up Numerical Value Assigned to Categories (below) 4 + 4 + 3 = 11 = MED-HIGH value.

NUMERICAL VALUES ASSIGNED TO CATEGORIES						
LOW	1-3					
MED-LOW	4-6					
MEDIUM	7-9					
MED-HIGH	10-12					
HIGH	13-15					

- 4) Look up MED-HIGH in SETBACK DISTANCES AND CRITICAL TIMES AVIFAUNA (Appendix E-1) for burrowing owls within the proposed dates = setback of 400 m.
- 5) Assess existing land-use/above ground structures and topography in the area in consultation with the proper authority to determine if the setback or timing can be relaxed.





C., I TM  Phone: 780-435-7295  Barasch, Ursula C, RTM  Fax: 780-495-2615  Brechtel, Steve Phone: 780-422-9535  C, RTM  Bristol, Bill Phone: 780-422-9655  C, RTM  Fax: 780-422-9655  Brodie, Dawn C, RTM  C, RTM  Fax: 250-573-2466  C, RTM	_			AVIFAUNA	BURROWING OWL
C, RTM	1		· · · · · · · · · · · · · · · · · · ·		
Barasch, Ursula   Phone: 780-495-2615   Phone: 780-495-2615   Phone: 780-495-2615   Phone: 780-495-2615   Phone: 780-420-9535   Phone: 780-422-9535   Phone: 780-422-9535   Phone: 780-422-9535   Phone: 780-422-9535   Phone: 780-80-8229   Phone: 780-80-8229   Phone: 780-80-8229   Phone: 780-80-8229   Phone: 780-80-829   Phon		C, I		5 Environmental	Room 210 4000 - 08 Ave
Banasch, Ursula   Phone: 780-495-2615   Ursula banash@ee.ge.ca	_		harry.armbruster@ec.gc.ca	a Conservation Branch	Edmonton AR TER 2V2
Brechtel, Steve	2	Danies of Suit		B Environment Canada	CWS Prairie and Northern Basis
Brechtel, Steve   Phone: 780-422-9365   Steve.brechtel@gov.abca   Steve.brechtel@gov.abca   Phone: 780-422-9365   Steve.brechtel@gov.abca   Phone: 780-422-9365   Steve.brechtel@gov.abca   Phone: 780-782-7965   Phone: 780-782-7965   Phone: 780-782-7976   Phone: 7		C, RTM	Fax: 780-495-2615		Room 200 4000 Og A
Brechtel, Steve			ursula.banash@ec.gc.ca	1	Edmonton AD TED 2V2
C, RTM	3		Phone: 780-422-9535		7th Fir. O.S. Lawrence D. Li.
Sieve.brechie@gov.mb.ca		C, RTM			6000 116 Secret
Bristol, Bill					
C, RTM	4	Bristol, Bill	Phone: 306-780-8155		Edinonion AB 16H 4P2
Brodie, Dawn		C, RTM		The same same same same same same same sam	#003, 1800 Hamilton Street
Brodie, Dawn   Phone: 250-573-2406   C., RTM   Fax: 250-573-2406   dbrodie@kamloopswildlife, com   Fax: 250-337-9797   BC Environment   myke. chutter@gems7.gov.be.ca   Lands and Parks   Ministry of Environment   Ministry of Environment   Ministry of Environment   Day 9374 Stale provided   Day 116 Street   Edmonton AB T6H 4P2   Box 520   116 Street   Edmonton AB T6H 4P2   Box 520   Melita, MB R0M IL0   Marie SK SON 270   Mariton Resources Service   Ministry of Environment   Minist					Regina SK S4P 4L2
C, RTM Fax: 250-573-2406    Chutter, Myke	5	Brodie, Dawn	Phone: 250-573-3265		2
Chutter, Myke					
C. Chutter, Myke					Kamloops BC V2C 5L7
C, RTM	6	Chutter, Myke	Phone: 250-387-0707		
Tourish					Wildlife Branch
Court, Gord C, RTM			ke chutter@gems7 gov bo so	3	Box 9374 Stn Prov Govt
C, RTM	7	Court. Gord	Phone: 780 422 0526		Victoria BC V8M 9M4
Natural Resources   Service   Serv					7th Flr, O.S. Longman Building
B DeSmet, Ken C, I, RTM Fax: 204-522-3719  Duxbury, Jason C, RTM jduxbury@pu.srv.ualberta.ca   Phone: 780-433-5790   University of Alberta   1142 Saddleback Rd.   Edmonton AB T6J 4Z4   Edmonton AB T		-,		The state of the s	
C, I, RTM  Fax: 204-522-3525 kdesmet(@gov.mb.ca  Phone: 780-433-5790 C, RTM    duxbury@gpu.srv.ualberta.ca   C, RTM   phone: 306-298-2166   Fax: 306-298-2042   Part fargev@pch.g.ca   Telski, Heather   C, RTM   Phone: 306-991-7765   Phone: 306-991-7765   Phone: 306-991-7765   Phone: 306-991-7765   Phone: 306-991-7765   Phone: 306-991-7765   Phone: 306-991-78-8211   Phone: 306-778-8211   Phone: 306-778-8212   Phone: 306-778-8213   Phone: 306-778-8212   Phone:	-8	DeSmet Ken	Bharas 204 522 252	Wildlife Management Div.	Edmonton AB T6H 4P2
Redesmet@gov.mb.ca				Manitoba Department of	
Duxbury, Jason		C, 1, 1(11VI		Natural Resources	Melita, MB R0M 1L0
C. RTM   juksbury@gpu.srv.ualberta.ca   Legimonton AB T6J 4Z4     10   Fargey, Pat C, RTM   Fax: 306-298-2042   pat fargey@ppd.ge.ca   Parks Canada   Box 150     11   Felski, Heather C, RTM   Fax: 306-692-1765   Saskatchewan Burrowing C, RTM   Felski@hotmail.com   Phone: 306-692-1765   Saskatchewan Burrowing C, RTM   Felski@hotmail.com   Phone: 780-998-3097   Canada   Phone: 780-998-3097   Canada   Phone: 306-778-8218   Saskatchewan Environment C, RTM   Fax: 306-778-8218   Saskatchewan Environment and Resource Management   Side C, I, RTM   Fax: 306-778-8218   Saskatchewan Environment and Resource Management   Side C, I, RTM   Fax: 306-778-8218   Saskatchewan Environment and Resource Management   Side C, I, RTM   Fax: 306-975-4089   Saskatchewan Environment   Side C, RTM   Fax: 306-975-4089   Saskatchewan Environment   Saskatchewan AB T8L 2T2   Saskatchewan Environment   Saskatchewan AB T8L 2T2   Saskatchewan Environment   Saskatchewan Environment   Side C, RTM	9	Duybury Ingon	Kdesmet(a)gov.mb.ca		
Fargey, Pat C, RTM				University of Alberta	1142 Saddleback Rd.
C, RTM Frione: 306-298-2042 pat fargey@pch.gc.ca Val Marie SK SON 2TO  11 Felski, Heather C, RTM Felski@hotmail.com C, RTM Felski@hotmail.com Telski@hotmail.com Tels	10		jduxbury@gpu.srv.ualb		Edmonton AB T6J 4Z4
pat fargey@pch.gc.ca  Plone: 306-298-2042  pat fargey@pch.gc.ca  Phone: 306-692-1765  Saskatchewan Burrowing Owl Interpretive Centre  Pyfe, Richard C, RTM  Phone: 780-998-3097 C, RTM  Phone: 306-778-8218 C, I, RTM  Fax: 306-778-8218 C, I, RTM  Fax: 306-778-8212 C, I, RTM  Phone: 306-373-2213 C, I, RTM  Fax: 306-975-4089 andrew.didiuk@ec.gc.ca  Phone: 780-437-2342 C, RTM  Phone: 780-98-3097  Begoffrey.holroyd@ec.gc.ca  Phone: 250-392-2358 C, RTM  Phone: 250-392-2358 C, RTM  Phone: 250-392-1117  Phone: 250-392-117  Pax: 250-392-117  Phone: 250-371-6243 B.C. Environment  Phone: 403-362-1413  Parks Canada  Box 150 Val Marie SK SON 2T0  Box 1467  Saskatchewan Burrowing Owl Interpretive Centre  Wolldlife Preservation Trust Canada  Founda  Box 150 Val Marie SK SON 2T0  Val Marie SK SON 2T0  Box 1467  Saskatchewan Burrowing Owl Interpretive Centre  Woose Jaw SK S6H 4R3  Box 3263 Ft. Saskatchewan AB T8L 2T2  Box 3263 Ft. Saskatchewan AB T8L 2T2  Box 3263 Ft. Saskatchewan AB T8L 2T2  Saskatchewan AB T8L 2T2  Alberta Fish and Game Operation Grassland Community Gogation Grassland Community Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4R3  Alberta Fish and Game Operation Grassland Community Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4R3  Alberta Fish and Game Operation Grassland Community Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4R3  Box 3263 Ft. Saskatchewan Brita Planes Box 3263 Ft. Saskatchewan Brita Planes Box 3263 Ft. Saskatchewan Brita Planes Box 3263 Ft	••	rangey, rat			
Felski, Heather C, RTM  Felski@hotmail.com  Phone: 306-692-1765  Felski@hotmail.com  Phone: 780-998-3097 C, RTM  Felski@hotmail.com  Phone: 780-998-3097 C, RTM  For: 306-778-8218 C, I, RTM  Fax: 306-778-8218 C, I, RTM  Fax: 306-778-8218 C, I, RTM  Fax: 306-975-4089 andrew.didiuk@ec.gc.ca  Fax: 306-975-4089 andrew.didiuk@ec.gc.ca  Fax: 780-437-2342 C, RTM  Fax: 780-437-2342 C, RTM  Fax: 780-951-8689 Fax: 780-951-8689 C, RTM  Fax: 780-951-8689 Fax: 780-951-8689 C, RTM  Fax: 250-392-1117  Reupin@direct.ca  Phone: 250-371-6243 C, RTM  Fax: 250-392-1117  Reupin@direct.ca  Phone: 250-371-6243 C, RTM  Fax: 250-828-4000 Gave.low@gems1.gov.bc.ca  Phone: 403-362-1413 Fax: Exstante Name Burrowing Owl Interpretive Centre  Wildlife Preservation Trust Canada Evaluation Trust Canada Fx. Saskatchewan AB T8L 2T2  Saskatchewan Environment  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 314 Egbert Avenue Saskatoon SK S7N 0X4  Saskatchewan Environment  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 314 Egbert Avenue Saskatoon SK S7N 0X4  Saskatchewan Environment  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 314 Egbert Avenue Saskatoon SK S7N 0X4  Saskatchewan Environment  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 314 Egbert Avenue Saskatoon SK S7N 0X4  Sociation Correct Washer Avenue Saskatoon SK S7N 0X4  Saskatchewan Environment  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 314 Egbert Avenue Saskatoon SK S7N 0X4  Sociation Correct Washer Avenue Saskatoon SK S7N 0X4  Sociation Saskatchewan Environment  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 314 Egbert Avenue Saskatoon SK S7N 0X4  Sociation Saskatchewan Environment  Grassland Ecoregion 350 Cheadle		C, KIM		Parks Canada	
C, RTM  felski@hotmail.com  Phone: 780-998-3097 C, RTM  Phone: 780-998-3097 C, RTM  fyferl@telusplanet.net C, I, RTM  Fax: 306-778-8218 Fax: 306-778-8218 C, I, RTM  Fax: 306-975-4089 Andrew.didiuk@ec.ge.ca  Fax: 780-438-6872 C, RTM  Fax: 780-495-2615 C, RTM  Fax: 780-495-2615 C, RTM  Fax: 250-392-1117 Leupin, Ernest C, RTM  Fax: 250-392-1117 Leupin, Ernest C, RTM  Fax: 250-371-6243 Box 1467 250 Thatcher Drive East Moose Jaw SK S6H 4R3  Box 3263 Ft. Saskatchewan AB T8L 2T2  Saskatchewan Environment Saskatchewan Environment and Resource Management South Environment Comparison South Environment South E	11	Palatic et a	pat fargey@pch.gc.ca		Val Marie SK S0N 2T0
C, RTM  felski@hotmail.com  felski@hotmail.com  felski@hotmail.com  felski@hotmail.com  Roose Jaw SK S6H 4R3  Fix 306-978-8218 C, I, RTM  Fax: 306-778-8218 C, I, RTM  Fax: 306-778-8212 C, I, RTM  Fax: 306-975-4089 andrew.didiuk@ec.gc.ca  Fax: 780-438-6872 C, RTM  Fax: 780-438-6872 C, RTM  Fax: 780-951-8689 Conservation Branch  B.C. Environment  1259 Dalhousie Drive Kamloops BC V2C 525  Bac 8  Moose Jaw SK S6H 4R3  Box 3263 Ft. Saskatchewan AB T8L 2T2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 314 Egbert Avenue Saskatoon SK S7N 0X4  Saskatoon SK S7N 0X4  Saskatoon SK S7N 0X4  Saskatoon SK S7N 0X4  Alberta Fish and Game Association  Operation Grassland Community 6924-104 St Edmonton AB T6H 2L7  Edmonton AB T6H 2L7  Edmonton AB T6B 2X3  B.C. Environment  1259 Dalhousie Drive Kamloops BC V2C 525  Bac 8  Martin, Rick  Phone: 403-362-1413  Eastern Irrigation District  Bac 8	- 11		Phone: 306-692-1765	Saskatchewan Burrowing	
Felski@hotmail.com C, RTM Phone: 780-998-3097 C, RTM  Saskatchewan Environment Fax: 306-778-8218 C, I, RTM Fax: 306-778-8212 Wayne.harris.erm@govmail.gov.sk.ca Fax: 306-975-4089 C, I, RTM Fax: 306-975-4089 Fax: 306-9		C, RIM		Owl Interpretive Centre	
C, RTM  fyferl@telusplanet.net  fyferl@telusplanet.net  fyferl@telusplanet.net  fyferl@telusplanet.net  fyferl@telusplanet.net  fyferl@telusplanet.net  Fax: 306-778-8218 C, I, RTM  Fax: 306-778-8212  wayne.harris.erm@govmail.gov.sk.ca  fax: 306-975-4089  C, I, RTM  Fax: 306-975-4089  Andrew.didiuk@ec.gc.ca  fyferl@telusplanet.net  Fax: 306-778-8218 Saskatchewan Environment and Resource Management South Current SK S9H 4G3  314 Egbert Avenue Saskatoon SK S7N 0X4  Alberta Fish and Game C, RTM  Fax: 780-438-6872 Office@afga.org  formula fish and Game C, RTM  Fax: 780-495-2615 Fax: 780-495-2615 Geoffrey.holroyd@ec.gc.ca  formula fish and Game C, RTM  Fax: 780-495-2615 Fax: 780-495-2615 Fax: 780-495-2615 Fax: 780-495-2615 Fax: 250-392-1117 Leupin, Ernest C, RTM  Fax: 250-392-1117 Leupin@direct.ca  formula fish and Game Coperation Grassland Community 6924 -104 St Edmonton AB T6H 2L7  CWS Prairie and Northern Region Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment  1259 Dalhousie Drive Kamloops BC V2C 5Z5  formula fish and Game Conservation Branch B.C. Environment  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment  1259 Dalhousie Drive Kamloops BC V2C 5Z5  Martin, Rick Phone: 403-362-1413  Fastern Irrigation District Fax: 826-888	12	7.0.711	felski@hotmail.com		
Canada  Canada  Ft. Saskatchewan AB T8L 2T2  Canada  Ft. Saskatchewan Environment  350 Cheadle Street W  Swift Current SK S9H 4G3  314 Egbert Avenue  Saskatoon SK S7N 0X4  Alberta Fish and Game  Association  6924 -104 St  Edmonton AB T6H 2L7  CWS Prairie and Northern Region  Room 200, 4999 - 98 Ave  Edmonton AB T6B 2X3  Ft. Saskatchewan Environment  South Current SK S9H 4G3  314 Egbert Avenue  Saskatoon SK S7N 0X4  Fax: 780-438-6872  Alberta Fish and Game  Association  Coperation Grassland Community  Coperation Grassland Community  Forming the saskatoon SK S7N 0X4  Fax: 780-438-6872  Conservation Branch  Canada  Ft. Saskatchewan Environment  Canada  Coperation Grassland Community  Forming the saskatoon SK S7N 0X4  Forming the	12		Phone: 780-998-3097	Wildlife Preservation Trust	Box 3263
Harris, Wayne C, I, RTM Fax: 306-778-8218 Wayne.harris.erm@govmail.gov.sk.ca  Wayne.harris.erm@govmail.gov.sk.ca  Haug, Betsy C, I, RTM Fax: 306-975-4089 andrew.didiuk@ec.gc.ca  Phone: 780-437-2342 C, RTM Fax: 780-438-6872 C, RTM Fax: 780-438-6872 C, RTM Fax: 780-495-2615 geoffrey.holroyd@ec.gc.ca  Phone: 250-392-2358 C, RTM Fax: 250-392-1117 Leupin, Ernest C, RTM Fax: 250-392-1117 Leupin. Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 314 Egbert Avenue Saskatoon SK S7N 0X4  Alberta Fish and Game Association Operation Grassland Community 6924 -104 St Edmonton AB T6H 2L7  CWS Prairie and Northern Region Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment 1259 Dalhousie Drive Kamloops BC V2C 5Z5  dave.low@gems1.gov.bc.ca  Bag 8  Martin, Rick Phone: 403-362-1413 Eastern Irrigation District  Bag 8		C, RTM			
C, I, RTM  C, I, RTM  Fax: 306-778-8212  wayne.harris.erm@govmail.gov.sk.ca  Phone: 306-373-2213  C, I, RTM  Fax: 306-975-4089  C, I, RTM  Fax: 306-975-4089  Alberta Fish and Game C, RTM  Fax: 780-438-6872 C, RTM  Fax: 780-438-6872 C, RTM  Fax: 780-495-2615 Geoffrey.holroyd@ec.ge.ca  Fax: 780-495-2615 C, RTM  Fax: 250-392-1117  Leupin, Ernest C, RTM  Fax: 250-392-1117  Low, Dave C, RTM  Fax: 250-828-4000  Aartin, Rick  Phone: 403-362-1413  Saskatchewan Environment and Resource Management  And Resource Management  Saskatchewan Environment  350 Cheadle Street W Swift Current SK S9H 4G3  314 Egbert Avenue Saskatoon SK S7N 0X4  Alberta Fish and Game Association  Operation Grassland Community 6924 -104 St Edmonton AB T6H 2L7  CWS Prairie and Northern Region Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment  1259 Dalhousie Drive Kamloops BC V2C 5Z5  dave.low@gems1.gov.bc.ca	12		fyferl@telusplanet.net		11. Suskatenewall AB 16L 212
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C, I, RTM  Fax: 306-975-4089 andrew.didiuk@ec.gc.ca  Hauser, Julie C, RTM  Fax: 780-437-2342 Office@afga.org  Fax: 780-495-2615 C, RTM  Fax: 780-495-2615 Geoffrey.holroyd@ec.gc.ca  Phone: 780-951-8689 C, RTM  Fax: 780-495-2615 Geoffrey.holroyd@ec.gc.ca  Fax: 780-495-2615 C, RTM  Fax: 780-495-2615 Geoffrey.holroyd@ec.gc.ca  Phone: 250-392-2358 C, RTM  Fax: 250-392-1117 Leupin, Ernest C, RTM  Fax: 250-392-1117 Fax: 250-828-4000 Gave.low@gems1.gov.bc.ca  Phone: 403-362-1413  Eastern Irrigation District  Fax: 8	14	Haug, Betsy	Phone: 306-373-2213		
Alberta Fish and Game C, RTM Fax: 780-438-6872 Office@afga.org  Holroyd, Dr. Geoff C, RTM Fax: 780-495-2615 C, RTM Fax: 780-495-2615 Geoffrey.holroyd@ec.gc.ca  Phone: 250-392-2358 C, RTM Fax: 250-392-1117 Eupin@direct.ca  Phone: 250-371-6243 C, RTM Fax: 250-828-4000 Association Association Operation Grassland Community 6924 -104 St Edmonton AB T6H 2L7 CWS Prairie and Northern Region Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3 B.C. Environment 1259 Dalhousie Drive Kamloops BC V2C 5Z5  B.C. Environment 1259 Dalhousie Drive Kamloops BC V2C 5Z5  Association 18 Low, Dave Fax: 250-828-4000 Ave.low@gems1.gov.bc.ca  Phone: 403-362-1413 Eastern Irrigation District Bag 8		C, I, RTM	Fax: 306-975-4089		Saskatoon SV STN OVA
Hauser, Julie C, RTM Fax: 780-438-6872 Office@afga.org  Holroyd, Dr. Geoff C, RTM Fax: 780-495-2615 Geoffrey.holroyd@ec.gc.ca  Phone: 250-392-1117 Leupin, Ernest C, RTM Fax: 250-392-1117 Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6H 2L7  Conservation Branch Environment Conservation Branch B.C. Environment 1259 Dalhousie Drive Kamloops BC V2C 5Z5  Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment Leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X	10				Sushatoon SK S/N UX4
C, RTM  Fax: 780-438-6872  office@afga.org  I6 Holroyd, Dr. Geoff C, RTM  Fax: 780-495-2615  geoffrey.holroyd@ec.gc.ca  T7 Leupin, Ernest C, RTM  Fax: 250-392-1117  leupin@direct.ca  Fax: 250-828-4000  dave.low@gems1.gov.bc.ca  Association  Association  Fax: 780-438-6872  Association  6924 -104 St  Edmonton AB T6H 2L7  CWS Prairie and Northern Region Room 200, 4999 - 98 Ave  Edmonton AB T6B 2X3  B.C. Environment  1259 Dalhousie Drive Kamloops BC V2C 5Z5  Region  1259 Dalhousie Drive Kamloops BC V2C 5Z5	15			Alberta Fish and Game	Operation Grandley 1 C
office@afga.org  Holroyd, Dr. Geoff C, RTM Fax: 780-495-2615 geoffrey.holroyd@ec.gc.ca  Phone: 250-392-2358 C, RTM Fax: 250-392-1117 Leupin, Ernest C, RTM Fax: 250-392-1117 Low, Dave C, RTM Fax: 250-828-4000 Agrain, Rick Phone: 250-371-6243 C, RTM Fax: 250-828-4000 Agrain, Rick Environment Canada Environmental Conservation Branch Edmonton AB T6B 2X3 B.C. Environment 1259 Dalhousie Drive Kamloops BC V2C 5Z5  B.C. Environment 1259 Dalhousie Drive Kamloops BC V2C 5Z5		C, RTM			6024 104 C
Holroyd, Dr. Geoff C, RTM Fax: 780-495-2615 geoffrey.holroyd@ec.gc.ca Phone: 250-392-2358 C, RTM Fax: 250-392-1117 Leupin, Ernest C, RTM Fax: 250-392-1117 Leupin@direct.ca  B.C. Environment 1259 Dalhousie Drive Kamloops BC V2C 5Z5  Low, Dave C, RTM Fax: 250-828-4000 Gave.low@gems1.gov.bc.ca  Phone: 403-362-1413 Eastern Irrigation District  Phone: 403-362-1413 Eastern Irrigation District  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  CWS Prairie and Northern Region Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Environment Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Environment 1259 Dalhousie Drive Kamloops BC V2C 5Z5  Environment Sestem Irrigation District Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Environment Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  1259 Dalhousie Drive Kamloops BC V2C 5Z5				valution	
C, RTM  Fax: 780-495-2615  geoffrey.holroyd@ec.gc.ca  Phone: 250-392-2358 C, RTM  Fax: 250-392-1117 leupin@direct.ca  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  B.C. Environment  1259 Dalhousie Drive Kamloops BC V2C 5Z5  Low, Dave C, RTM  Fax: 250-828-4000 dave.low@gems1.gov.bc.ca  Phone: 403-362-1413  Fax: 780-495-2615 Environment  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  1259 Dalhousie Drive Kamloops BC V2C 5Z5  Romandon Phone: 403-362-1413  Eastern Irrigation District  Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  1259 Dalhousie Drive Kamloops BC V2C 5Z5	16		Phone: 780-951-8689	Environment Canada	CWC P
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C, RTM   Fax: 250-392-1117     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca   Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca     Eupin@direct.ca   Eupin@direct.ca     Eupin@direct.ca   Eupin@direc					Koom 200, 4999 - 98 Ave
C, RTM Fax: 250-392-1117    leupin@direct.ca   Fax: 250-392-1117     leupin@direct.ca   Fax: 250-371-6243     C, RTM Fax: 250-828-4000   C, RTM   Fax: 250-828-4000     Martin, Rick   Phone: 403-362-1413   Eastern Irrigation District   Bag 8	17	Leupin, Ernest	Phone: 250-392-2358		250 D. H
Ramoops BC V2C 325			Fax: 250-392-1117	Luvnoninient	
Low, Dave C, RTM Phone: 250-371-6243 B.C. Environment 1259 Dalhousie Drive Kamloops BC V2C 5Z5    Phone: 403-362-1413   Eastern Irrigation District   Bag 8					Kamioops BC V2C 5Z5
C, RTM Fax: 250-828-4000 Kamloops BC V2C 5Z5    Phone: 403-362-1413   Eastern Irrigation District   Bag 8	18	Low, Dave		P.C. Emilian	
dave.low@gems1.gov.bc.ca    Phone: 403-362-1413   Eastern Irrigation District   Bag 8				D.C. Environment	1259 Dalhousie Drive
Martin, Rick Phone: 403-362-1413 Eastern Irrigation District Bag 8			ave low@gemet acube		Kamloops BC V2C 5Z5
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Rmoke AR TID 1D1	_	,			Brooks AB T1R 1B2
wildlife@eidnet.org			winding@eidner.org		

◆ C=CORRESPONDED ◆ I=INTERVIEWED ◆ RTM=RECOVERY TEAM MEMBER





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	BURROWING OWL.	continued	AVIFAUNA	
2	Moore, Patrick	Phone: 306-780-927	Nature Saskatchewan	Page 206 1860 7
	C, RTM	Fax: 306-780-926.		Room 206, 1860 Lome Street
-		pmoore@unibase.com		Regina SK S4P 2L7
2	r outili, icay	Phone: 306-545-2834	Biology Department	Hattanata CD
_	C, RTM	poulinr@uregina.ca		University of Regina
2	reassers, reeg	Phone: 403-362-1201	Alberta Environment	Regina SK S4S 0A2
	C, I, RTM	Fax:403-362-1295		Fish and Wildlife Division
_		reg.russell@gov.ab.ca		Box 909
2.	Scalise, Karyn	Phone: 306-787-2889		Brooks AB T1R 1B8
	C, RTM	Fax: 306-787-0737		
	karyn.sca	lise.erm@govmail.gov.sk.ca	and Resource Management	Rm 436, 3211 Albert Street
24	Schmutz, Josef	Phone: 306-966-2410	Centre for Studies in	Regina SK S4S 5W6
	C, I, RTM	Fax: 306-966-8894	The state of the s	University of Saskatchewan
	, ,	schmutzj@duke.usask.ca	Agriculture, Law and the	51 Campus Drive
25	Scobie, Dave	Phone: 403-793-8500		Saskatoon SK S7N 5A8
	RTM	Fax: 403-793-8685		Box 1644
		avocet@br.monarch.net		Brooks AB T1R 1C5
26	Shyry, Darcey	Phone: 780-435-2335		
	C, RTM			751 General Services Bldg
27		darceyshyry@hotmail.com		Edmonton AB T6G 2H1
	C, RTM	Phone: 780-624-1544	University of Alberta	11019 - 99 Street #3
28		rsissons@ualberta.ca		Peace River AB
-0	Skeel, Margaret C, RTM	Phone: 306-780-9273	Nature Saskatchewan	Room 206, 1860 Lorne Street
	C, KIM	Fax: 306-780-9263		Regina SK S4P 2L7
29	01.11.1.1	nature.sask@unibase.com		
27	okinnek, Joann	Phone: 403-893-2291	Saskatchewan Environment	Box 12
20	C, RTM	Fax: 403-893-2291	and Resource Management	Elkwater AB T0J 1C0
30		Phone: 306-975-4091	Environment Canada	Canadian Wildlife Service
	C, I	Fax: 306-975-4089	Environmental	115 Perimeter Road
		alan.smith@ec.gc.ca	Conservation Branch	Saskatoon, SK S7N 0X4
31	Strankman, Peggy	Phone: 403-275-8558	Canadian Cattlemen's	Suite 215, 6715 - 8th St NE
	C, RTM	403-274-5686	Association	Calgary AB T2E 7H7
		strankmanp@cattle.ca		Calgary AD 12E /H/
32	Taggart, John	Phone: 403-528-5207	Alberta Environment	Wildlie, M. Divis
	C, I	Fax: 403-528-5212	Natural Resources Service	Wildlife Management Division
		john.r.taggart@gov.ab.ca	Transactive Sources Del Vice	Room 301, Provincial Building
33	Todd, Danielle	Phone: 306-545-2834	Biology Department	Medicine Hat AB TIA 0G7
	C, RTM	todd111L@uregina.ca	Blology Department	University of Regina
34	Trefry, Helen	Phone: 780-951-8693	Environment Canada	Regina SK S4S 0A2
	C, RTM	Fax: 780-495-2615		CWS Prairie and Northern Region
	,	helen.trefry@ec.gc.ca	Environmental	Room 210, 4999 - 98 Ave
35	Veitch, Lorne	Phone: 306-778-8300	Conservation Branch	Edmonton AB T6B 2X3
	C, RTM	Fax: 306-778-8604	Saskatchewan Agriculture	#1, 1081 Central Ave. N
	~y	lveitch@agr.gov.sk.ca	and Food	Box 5000
36	Watson, Rob	Phone: 306 200 2166	Lands Branch	Swift Current SK S9H 4Z1
	C, RTM	Phone: 306-298-2166	Grasslands National Park	Box 150
	O, 101 171	Fax: 306-298-2045		Val Marie SK S0N 2T0
37	Wair Calin	robert watson@pch.gc.ca		
51	Weir, Colin	Phone: 403-345-4262	Coaldale Birds of Prey	Box 1150
38	C, RTM	cweir@telusplanet.net	Center	Coaldale AB T1M 1M9
30	Wellicome, Dr. Troy		Environment Canada	CWS Prairie and Northern Region
	C, RTM	Fax: 780-495-2615	Environmental	Room 210, 4999 - 98 Ave
30		troy.wellicome@ec.gc.ca	Conservation Branch	Edmonton Alberta T6B 2X3
39	Williams, Elaine	Phone: 519-836-9314	Wildlife Preservation Trust	120 King Street
	C, RTM	Fax: 519-836-8840	Canada	Guelph ON NIE 4P8
	elain	ne.williams@sympatico.ca	<del></del>	Gucipii On MIE 4P8
40	Wiltse, Earl	Phone: 306-787-2889	Saskatchewan Environment	2211 Alban Ct
	C, RTM		and Resource Management	3211 Albert Street
		e.erm@govmail.gov.sk.ca	and resource Management	Regina SK S4S 5W6







		0.000	AVIFAUNA	FERRUGINOUS HAWK
	Larry Harry	Phone: 780-435-7295	Environment Canada	CWS Western and Northern Region
-1	Armbruster, Harry	Fax: 780-495-2615	Environmental	Room 210, 4999 - 98 Ave
	C, I	harry.armbruster@ec.gc.ca	Conservation Branch	Edmonton AB T6B 2X3
	G . C-rd	Phone: 780-422-9536	Alberta Environment	7th Flr, O.S. Longman Building
2	Court, Gord	Fax: 780-422-9685	Natural Resources Service	6909 - 116 Street
	C, I	gcourt@env.gov.ab.ca	Wildlife Management Div.	Edmonton AB T6H 4P2
		Phone: 204-522-3719	Manitoba Department of	Box 520
3	DeSmet, Ken	Fax: 204-522-3525	Natural Resources	Melita, MB R0M 1L0
	C, I		Natural Resources	Menu, MB Nom 120
		kdesmet@gov.mb.ca	Saskatchewan Environment	Grassland Ecoregion
4	Harris, Wayne	Phone: 306-778-8218	<del></del>	350 Cheadle Street W
	C,I	Fax: 306-778-8212	and Resource Management	Swift Current SK S9H 4G3
		arris.erm@govmail.gov.sk.ca		
5	Russell, Reg	Phone: 403-362-1201	Alberta Environment	Fish and Wildlife Division
	C, I	Fax: 403-362-1295	Natural Resources Service	Box 909
		reg.russell@gov.ab.ca		Brooks AB T1R 1B8
6	Schmutz, Josef	Phone: 306-966-2410	Centre for Studies in	University of Saskatchewan
	C, I	Fax: 306-966-8894	Agriculture, Law and the	51 Campus Drive
	·	schmutzj@duke.usask.ca_	Environment	Saskatoon SK S7N 5A8
7	Smith, Alan	Phone: 306-975-4091	Environment Canada	Canadian Wildlife Service
	C, I	Fax: 306-975-4089	Environmental	115 Perimeter Road
	-, -	alan.smith@ec.gc.ca	Conservation Branch	Saskatoon SK S7N 0X4
				LOGGERHEAD SHRIKE
丁	Bird, David	Phone: 514-398-7760	MacDonald College	McGill University
	C, RTM	Fax: 514-398-7990	Avian Science and	21 - 111 Lakeshore Road
	<b>-</b> ,	bird@nrs.mcgill.ca	Conservation Centre	St. Anne de Bellevue PQ H9X 3V9
2	Bjorge, Ron	Phone: 403-340-7699	Alberta Environment	Suite 404, First Red Deer Place
	C, I, RTM	Fax: 403-340-5575	Natural Resources Service	4911 - 51 St.
	O, 1, 101.11	ron.bjorge@gov.ab.ca		Red Deer AB T4N 6V4
3	Bradstreet, Michael		Long Point Bird	Box 160
-	C, RTM	Fax: 519-586-3532	Observatory	Port Rowan ON N0E 1M0
	C, KIW	mswb@nornet.on.ca	- Constituting	
4	Cadman, Michael	Phone: 519-826-2094	Environment Canada	Canadian Wildlife Service
•	C, RTM	Fax: 519-826-2113	Environmental	75 Farquhar St.
	C, KTWI	mike.cadman@ec.gc.ca	Conservation Branch	Guelph ON N1H 3N4
5	Cl. 1	Phone: 603-279-3216	Conscivation Dianen	Box F
3	Chabot, Amy	Fax: 603-476-5497		Holderness NH 3245 U.S.A.
	C, RTM	=		Holderness 1411 3243 G.B.7 G.
	G 11' . D	h vogel@hotmail.com Phone: 403-240-1635	Ursus Ecosystem	3426 Lane Crescent SW
6	Collister, Doug			Calgary AB T3E 5X2
	C, RTM	Fax: 403-246-2697	Management	Calgary AD 152 5A2
		collis@telusplanet.net	NC Comment	Doc 2002
7	Cuddy, Dawn	Phone: 613-258-8453	Ministry of Natural	Bag 2002 Kemptville ON K0G 1J0
	C, RTM	Fax: 613-258-3920	Resources	Kempiville ON KOO 130
		dawn.cuddy@mnr.gov.on.ca		D 520
8	DeSmet, Ken	Phone: 204-522-3719	Manitoba Department of	Box 520
	C, I, RTM	Fax: 204-522-3525	Natural Resources	Melita MB R0M 1L0
		kdesmet@gov.mb.ca		600 MEN - 5 1
9	Faminow, Sheryl	Phone: 403-271-6822	Ghostpine Environmental	608 Willacy Drive
	С	Fax: 403-271-6778	Services Ltd.	Calgary AB T2J 2C9
		ghostpine@cadvision.com		
10	Harris, Wayne	Phone: 306-778-8218	Saskatchewan Environment	Grassland Ecoregion
	C, I, RTM	Fax: 306-778-8212	and Resource Management	350 Cheadle Street W
		narris.erm@govmail.gov.sk.ca		Swift Current SK S9H 4G3
11	Hauser, Julie	Phone: 780-437-2342	Alberta Fish and Game	Operation Grassland Community
	C, RTM	Fax: 780-438-6872	Association	6924 -104 St
	-y	office@afga.org		Edmonton AB T6H 2L7
_		21		

◆ C=CORRESPONDED ◆ I=INTERVIEWED ◆ RTM=RECOVERY TEAM MEMBER





LO	GGERHEAD SHRI	KE continued	AVIFAUNA	
12	Johns, Brian	Phone: 306-975-4109	Environment Canada	Canadian Wildlife Service
	C, RTM	Fax: 306-975-4089	Environmental	115 Perimeter Road
		brian.johns@ec.gc.ca	Conservation Branch	Saskatoon SK S7N 0X4
13	Laporte, Pierre	Phone: 418-649-6121	Service Canadien de la	1141, route de l'Eglise
	C, RTM	Fax: 418-649-6475	Faune	C.P. 10, 100 - 93 etage
	<u></u>	pierre.laport@ec.gc.ca		Sainte-Foy PQ G1V 4H5
14	Mason, Tom	Phone: 416-392-5970	Metro Toronto Zoo	361A Old Finch Avenue
	С	tmason@zoo.metrotor.on.ca		Scarborough ON M1B 5K7
15	Norris, Todd		Ontario Ministry of Natural	
	C		Resources	Peterborough District, ON
		tod.norris@mnr.gov.on.ca		<i>g</i> ,
16	Russell, Reg	Phone: 403-362-1201	Alberta Environment	Fish and Wildlife Division
	C, I	Fax: 403-362-1295	Natural Resources Service	Box 909
	•	reg.russell@gov.ab.ca		Brooks AB T1R 1B8
17	Scalise, Karyn	Phone: 306-787-2889	Saskatchewan Environment	Wildlife Branch
	C, RTM	Fax: 306-787-0737	and Resource Management	Rm 436, 3211 Albert Street
		llise.erm@govmail.gov.sk.ca	and resource management	Regina SK S4S 5W6
18	Schmutz, Josef	Phone: 306-966-2410	Centre for Studies in	University of Saskatchewan
	C, I	Fax: 306-966-8894	Agriculture, Law and the	51 Campus Drive
	C, I			
19	Shutt, Laird	schmutzj@duke.usask.ca Phone: 819-953-4098	Environment National Wildlife Research	Saskatoon SK S7N 5A8
.,	•			100 Gamelin Boulevard
	C, RTM	Fax: 819-953-6612	Centre	Hull QC K1A 0H3
-20	C 1.1 A 1	laird.shutt@ec.gc.ca		
20	Smith, Alan	Phone: 306-975-4091	Environment Canada	Canadian Wildlife Service
	C, I	Fax: 306-975-4089	Environmental	115 Perimeter Road
		alan.smith@ec.gc.ca	Conservation Branch	Saskatoon SK S7N 0X4
21	Wenting, Robert	Phone: 519-826-2100	Environment Canada	Canadian Wildlife Service
	C, RTM	Fax: 519-826-2108	Environmental	75 Farquhar St.
		robert.wenting@ec.gc.ca	Conservation Branch	Guelph ON N1H 3N4
22	Wiltse, Earl	Phone: 306-787-2889	Saskatchewan Environment	3211 Albert Street
	C, RTM		and Resource Management	Regina SK S4S 5W6
	earl.w	ltse.erm@govmail.gov.sk.ca	<del></del>	
LO	NG-BILLED CURL	EW		
$\overline{}$	Armbruster, Harry	Phone: 780-435-7295	Environment Canada	CWS Western and Northern Region
	C, I	Fax: 780-495-2615	Environmental	Room 210, 4999 - 98 Ave
	•	harry.armbruster@ec.gc.ca	Conservation Branch	Edmonton AB T6B 2X3
2	Foster, Janna	Phone: 306-585-4268	Department of Biology	University of Regina
				Om voisity of technic
	U			
3	C Harris Wayne	fosterj@uregina.ca		Regina SK S4S 0A2
3	Harris, Wayne	fosterj@uregina.ca Phone: 306-778-8218	Saskatchewan Environment	Regina SK S4S 0A2 Grassland Ecoregion
3	Harris, Wayne C, I	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212		Regina SK S4S 0A2 Grassland Ecoregion 350 Cheadle Street W
	Harris, Wayne C, I wayne.ha	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 urris.erm@govmail.gov.sk.ca	Saskatchewan Environment and Resource Management	Regina SK S4S 0A2 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3
3	Harris, Wayne C, I wayne.ha Russell, Reg	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 urris.erm@govmail.gov.sk.ca Phone: 403-362-1201	Saskatchewan Environment and Resource Management  Alberta Environment	Regina SK S4S 0A2 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 Fish and Wildlife Division
	Harris, Wayne C, I wayne.ha	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 arris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295	Saskatchewan Environment and Resource Management	Regina SK S4S 0A2 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 Fish and Wildlife Division Box 909
4	Harris, Wayne C, I wayne.ha Russell, Reg C, I	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 rrris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca	Saskatchewan Environment and Resource Management Alberta Environment Natural Resources Service	Regina SK S4S 0A2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3  Fish and Wildlife Division Box 909  Brooks AB T1R 1B8
	Harris, Wayne C, I wayne.ha Russell, Reg C, I Smith, Alan	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 rrris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca Phone: 306-975-4091	Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service  Environment Canada	Regina SK S4S 0A2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3  Fish and Wildlife Division Box 909  Brooks AB T1R 1B8  Canadian Wildlife Service
4	Harris, Wayne C, I wayne.ha Russell, Reg C, I	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 urris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca Phone: 306-975-4091 Fax: 306-975-4089	Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service  Environment Canada Environmental	Regina SK S4S 0A2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3  Fish and Wildlife Division Box 909  Brooks AB T1R 1B8  Canadian Wildlife Service 115 Perimeter Road
4	Harris, Wayne C, I wayne.ha Russell, Reg C, I Smith, Alan	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 rrris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca Phone: 306-975-4091	Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service  Environment Canada	Regina SK S4S 0A2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3  Fish and Wildlife Division Box 909  Brooks AB T1R 1B8  Canadian Wildlife Service
5	Harris, Wayne C, I wayne.ha Russell, Reg C, I Smith, Alan C, I	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 urris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca Phone: 306-975-4091 Fax: 306-975-4089 alan.smith@ec.gc.ca	Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service  Environment Canada Environmental	Regina SK S4S 0A2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3  Fish and Wildlife Division Box 909  Brooks AB T1R 1B8  Canadian Wildlife Service 115 Perimeter Road
5	Harris, Wayne C, I wayne.ha Russell, Reg C, I Smith, Alan C, I	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 pris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca Phone: 306-975-4091 Fax: 306-975-4089 alan.smith@ec.gc.ca	Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service  Environment Canada Environmental Conservation Branch	Regina SK S4S 0A2 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 Fish and Wildlife Division Box 909 Brooks AB T1R 1B8 Canadian Wildlife Service 115 Perimeter Road Saskatoon SK S7N 0X4
5	Harris, Wayne C, I wayne.ha Russell, Reg C, I Smith, Alan C, I  DUNTAIN PLOVER Goossen, Paul	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 pris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca Phone: 306-975-4091 Fax: 306-975-4089 alan.smith@ec.gc.ca	Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service  Environment Canada Environmental Conservation Branch  Environment Canada	Regina SK S4S 0A2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3  Fish and Wildlife Division Box 909 Brooks AB T1R 1B8  Canadian Wildlife Service 115 Perimeter Road Saskatoon SK S7N 0X4  CWS Prairie and Northern Region
5	Harris, Wayne C, I wayne.ha Russell, Reg C, I Smith, Alan C, I	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 pris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca Phone: 306-975-4091 Fax: 306-975-4089 alan.smith@ec.gc.ca  Phone: 780-951-8679 Fax: 780-495-2615	Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service  Environment Canada Environmental Conservation Branch  Environment Canada Environmental Conservation Branch	Regina SK S4S 0A2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3  Fish and Wildlife Division Box 909 Brooks AB T1R 1B8  Canadian Wildlife Service 115 Perimeter Road Saskatoon SK S7N 0X4  CWS Prairie and Northern Region Room 200, 4999 - 98 Ave
4 5 MC	Harris, Wayne C, I wayne.ha Russell, Reg C, I Smith, Alan C, I  DUNTAIN PLOVER Goossen, Paul C, I	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 pris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca Phone: 306-975-4091 Fax: 306-975-4089 alan.smith@ec.gc.ca  Phone: 780-951-8679 Fax: 780-495-2615 paul.goossen@ec.gc.ca	Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service  Environment Canada Environmental Conservation Branch  Environment Canada Environmental Conservation Branch	Regina SK S4S 0A2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3  Fish and Wildlife Division Box 909  Brooks AB T1R 1B8  Canadian Wildlife Service 115 Perimeter Road Saskatoon SK S7N 0X4  CWS Prairie and Northern Region Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3
5	Harris, Wayne C, I wayne.ha Russell, Reg C, I Smith, Alan C, I  DUNTAIN PLOVER Goossen, Paul C, I  Russell, Reg	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 Irris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca Phone: 306-975-4091 Fax: 306-975-4089 alan.smith@ec.gc.ca  Phone: 780-951-8679 Fax: 780-495-2615 paul.goossen@ec.gc.ca Phone: 403-362-1201	Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service  Environment Canada Environmental Conservation Branch  Environmental Conservation Branch Alberta Environment	Regina SK S4S 0A2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3  Fish and Wildlife Division Box 909 Brooks AB T1R 1B8  Canadian Wildlife Service 115 Perimeter Road Saskatoon SK S7N 0X4  CWS Prairie and Northern Region Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3  Fish and Wildlife Division
4 5 MC	Harris, Wayne C, I wayne.ha Russell, Reg C, I Smith, Alan C, I  DUNTAIN PLOVER Goossen, Paul C, I	fosterj@uregina.ca Phone: 306-778-8218 Fax: 306-778-8212 pris.erm@govmail.gov.sk.ca Phone: 403-362-1201 Fax: 403-362-1295 reg.russell@gov.ab.ca Phone: 306-975-4091 Fax: 306-975-4089 alan.smith@ec.gc.ca  Phone: 780-951-8679 Fax: 780-495-2615 paul.goossen@ec.gc.ca	Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service  Environment Canada Environmental Conservation Branch  Environment Canada Environmental Conservation Branch	Regina SK S4S 0A2  Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3  Fish and Wildlife Division Box 909  Brooks AB T1R 1B8  Canadian Wildlife Service 115 Perimeter Road Saskatoon SK S7N 0X4  CWS Prairie and Northern Region Room 200, 4999 - 98 Ave Edmonton AB T6B 2X3







		APPENDIX	H - CONTACT LIST	DEDECORDE EALCOM
_			AVIFAUNA	PEREGRINE FALCON
	Amirault, Diane	I Holle. See See See	Canadian Wilding Services	Box 6227 17 Waterfowl Lane
1	C, RTM	1 4111 0 0 0		Sackville NB E4L 1G6
	., K1 141	diane.amirault@ec.gc.ca		CWS Western and Northern Region
	Armbruster, Harry	I Hotte: 100 the	Elit III Gilliani	Room 210, 4999 - 98 Ave
	a 1	1 ax. 700 175 2011	Pitalionition	Edmonton AB T6B 2X3
,	١, ١	MII A THI LING OF A STATE OF A ST	Conservation Branch	Suite 221, 435 South James Street
	Armstrong, Ted	Phone: 807-475-1127	Ontario Ministry of Natural	Thunder Bay ON P7E 6S8
	с ртм	Fax: 807-473-3023	Resource	Inuited Bay ON 172 050
	ted.	armstrong@mnr.gov.on.ca		CWS Prairie and Northern Region
_	Banasch, Ursula	Phone: 780-951-8678	Environment Canada	Room 200, 4999 - 98 Ave
	C, I, RTM	Fax: 780-495-2615	Non-Game Division	Edmonton AB T6B 2X3
	C, 1, 1C1	ursula.banash@ec.gc.ca_		McGill University
_	Bird, David	Phone:514-398-7760	MacDonald College	21 - 111 Lakeshore Road
	C, RTM	Fax: 514-398-7990	Avian Science and	St. Anne de Bellevue QC H9X 3V9
	U, 12	bird@nrs.mcgill.ca	Conservation Centre	Suite 404, First Red Deer Place
	Bjorge, Ron	Phone: 403-340-7699	Alberta Environment	4911 - 51 Street
	C. I. RTM	Fax: 403-340-5575	Natural Resources Service	Red Deer AB T4N 6V4
	C, 1, 101 111	ron.bjorge@gov.ab.ca		Wood Buffalo National Park
_	Bradley, Mark	Phone: 867-872-7932	Parks Canada	Box 750
•	C, RTM	Fax: 867-872-3910		Fort Smith NT X0E 0P0
	C, ICIM	mark bradley@pch.gc.ca		Building 810 Pleasantville
8	Brazil, Joe	Phone: 709-729-3773	Newfoundland Department	Box 8700
U	C, RTM	Fax: 709-729-6629	of Natural Resources	St John's NF A1B 4J6
	C, RTM	joebrazil@mail.gov.nf.ca	Wildlife Division	7th Flr, O.S. Longman Building
9	Brechtel, Steve	Phone: 780-422-9535	Alberta Environment	6909 - 116 Street
•	C, RTM	Fax: 780-422-9685	Natural Resources Service	Edmonton AB T6H 4P2
	C, KIM	steve.brechtel@gov.ab.ca	Wildlife Management Div.	5th Floor Scotia Centre
10	Carriere, Suzanne	Phone: 867-920-6327	NWT Department of	600, 5102 - 50 <sup>th</sup> Avenue
10	C, RTM	Fax: 867-873-0297	Resources, Wildlife and	
	C, KIWI	suzanne_carriere@gov.nt.ca	Fisheries Division	Yellowknife NT
11	Chutter, Myke	Phone: 250-387-9797	BC Environment	Wildlife Branch
"	C, RTM	Fax: 250-356-9145	Ministry of Environment,	Box 9374 Stn Prov Govt
	C, KIIVI	ke.chutter@gems7.gov.bc.ca	Lands and Parks	Victoria BC V8M 9M4
12	Court, Gord	Phone: 780-422-9536	Alberta Environment	7th Flr, O.S. Longman Building
14	C, I, RTM	Fax: 780-422-9685	Natural Resources Service	6909 - 116 Street
	C, I, K I W	gcourt@env.gov.ab.ca	Wildlife Management Div.	Edmonton AB T6H 4P2
13	Dauphine, Chuck	Phone: 819-953-1429	Environment Canada	Canadian Wildlife Service
13	C, RTM	Fax: 819-953-6283	Environmental	Head Office
	C, KIW	chuck.dauphine@ec.gc.ca	Conservation Branch	Ottawa ON K1A 0H3
14	Elderkin, Mark	Phone: 902-679-6219	Nova Scotia Department of	136 Exhibition Street
14	C, RTM	Fax: 902-679-6176		Kentville NS B4N 3E5
	C, KIM	elderkmf@env.gov.ns.c	a	
15	Erikson, Gary	Phone: 403-381-528	Alberta Environment	Bag 3014
13		Fax: 403-381-572	3 Natural Resources Service	530 - 8th Street
	С	gary.erikson@gov.ab.c	a	Lethbridge AB T1J 2J8
	II Circlina	Phone: 867-979-513	3 Sustainable Development	Box 1340
16	11011, 010 1110	Fax: 867-979-6026/592		I Iqaluit NT X0A 0H0
	C, RTM	shan@gov.nu.c	a Protection	
	V VV 1 11/	Phone: 306-778-821	8 Saskatchewan Environmen	Grassland Ecoregion
17	Harris, Wayne	Fax: 306-778-821		350 Cheadle Street W
	C, I	harris.erm@govmail.gov.sk.c		Swift Current SK S9H 4G3
_		Phone: 867-667-567	1 Yukon Department of	Box 2703 (R-5H)
13	Hoefs, Manfred C, RTM	Fax: 867-393-640		Whitehorse YT Y1A 2C6







_		APPEN	<u>NDIX H - CONTACT</u>	LIST	Marc
PI	EREGRINE FALCON	continued	AVIFAUNA		-
19			Environment Canada	CWC Parisis and Maria	
	C, RTM	Fax: 780-495-2615		CWS Prairie and Northern Re	gion
		geoffrey.holroyd@ec.gc.ca		Room 200, 4999 - 98 Ave	
20	Koonz, Bill	Phone: 204-945-6811	Manitoba Conservation	Edmonton AB T6B 2X3	
	C, RTM	Fax: 204-945-3077		Box 24	
	-,	wkoonz@ nr.gov.mb.ca		200 Saulteaux Cr.	
21	Laporte, Pierre	Phone 418 640 6171		Winnipeg MB R3J 3W3	
	C, RTM	Phone: 418-649-6121	Service Canadien de la	1141, route de l'Eglise	
	C, KTIVI	Fax: 418-649-6475		C.P. 10, 100-93 etage	
22	I ave - M' 1 1	pierre.laport@ec.gc.ca		Sainte-Foy QC G1V 4H5	
24	Dobales terrories	Phone: 418-521-3940		Ediface Marie-Guyat, 11e eta	ge
	C, RTM	Fax: 418-646-6863	Direction de la faune et des	675 Boulevard Rene Levesque	р Р
22	mic	chel.lepage@mef.gouv.qc.ca	habitats	Quebec QC G1R 5V7	_
23	Longmuir, Ray	Phone: 306-787-2464	Saskatchewan Environment	3211 Albert Street	
	C, RTM	Fax: 306-787-9544	and Resource Management	Regina SK S4S 5W6	
	ray.longm	uir.erm@govmail.gov.sk.ca	<b>g</b>		
24	Russell, Reg	Phone: 403-362-1201	Alberta Environment	Fish and Wildlife Division	
	C, I	Fax: 403-362-1295	Natural Resources Service	Box 909	
		reg.russell@gov.ab.ca	Transactive Sources Sel Vice		
25	Shutt, Laird	Phone: 819-953-4098	National Wildlife Research	Brooks AB T1R 1B8	
	C, RTM	Fax: 819-953-6612	Center Center	100 Gamelin Boulevard	
	-,··-	laird.shutt@ec.gc.ca	Center	Hull QC K1A 0H3	
26	Taichel, Bruce	Phone: 780-422-9534	411		
	C, I	Fax: 780-422-9685	Alberta Environment	7th Flr, O.S. Longman Buildin	g,
	C, 1		Natural Resources Service	6909 - 116 Street	
		bruce.treichel@gov.ab.ca	Fish and Wildlife Division	Edmonton AB T6H 4P2	
PIP	ING PLOVER				
7	Armbruster, Harry	Di 200 425 5005			
•	C, I	Phone: 780-435-7295	Environment Canada	CWS Western and Northern R	egion
	C, I	Fax: 780-495-2615		Room 210, 4999 - 98 Ave	•
2	Di D	harry.armbruster@ec.gc.ca		Edmonton AB T6B 2X3	
_	Bjorge, Ron	Phone: 403-340-7699	Alberta Environment	Suite 404, First Red Deer Place	
	C, RTM	Fax: 403-340-5575	Natural Resources Service	4911 - 51 Street	
-		ron.bjorge@gov.ab.ca		Red Deer AB T4N 6V4	
3	Goossen, Paul	Phone: 780-951-8679	Environment Canada	CWS Prairie and Northern Reg	ion
	C, I, RTM	Fax: 780-495-2615	Environmental	Room 200, 4999 - 98 Ave	1011
		paul.goossen@ec.gc.ca	Conservation Branch	Edmonton AB T6B 2X3	
4	Haig, Dr. Susan	Phone: 541-750-7482	Oregon State University	US Geological Survey	
	C, RTM	Fax: 541-758-7761	Forest and Rangeland		
		susan haig@brd.usgc.gov	Ecosystem Science	3200 SW Jefferson Way	
5	Harris, Wayne	Phone: 306-778-8218	Saskatchewan Environment	Corvallis OR 97331 U.S.A.	
	C, I, RTM	Fax: 306-778-8212		Grassland Ecoregion	
		ris.erm@govmail.gov.sk.ca	and Resource Management	350 Cheadle Street W	
6	Hecht, Anne	is.erin@govinan.gov.sk.ca		Swift Current SK S9H 4G3	_
_	C, RTM		Fish and Wildlife Services		
	C, KTIVI	onna hasht@f			
7	Heyens, Leo	anne hecht@fws.gov			
-	RTM	Phone: 807-468-2546	Ontario Ministry of Natural	810 Robertson Street	
	KIM	Fax: 807-468-2736	Resources	Kenora ON P9N 3X9	
3	Hafman P.1	<b>D</b>			
,	Hofman, Ed	Phone: 403-934-3422	Alberta Environment	Bow Region	
	C, I	Fax: 403-934-3433	Natural Resources Service	208A Ridge Road	
		ed.hofman@gov.ab.ca	Brooks Mgmt Area	Strathmore AB T1P 1B6	
	Koonz, Bill	Phone: 204-945-6811	Manitoba Conservation	Box 24	
)		Fax: 204-945-3077	Wildlife Branch	200 Saulteaux Cr.	
)	C, RTM	* U.A. &UT-37-3-1017 /	DIBITOR		
)	C, RTM			Winnings Mr payers	
_		wkoonz@ nr.gov.mb.ca	Alberta Consomiti	Winnipeg MB R3J 3W3	
_	C, RTM  Michaud, Isabelle C	wkoonz@ nr.gov.mb.ca Phone: 780-427-1248	Alberta Conservation	7th Flr, O.S. Longman Building	
_	Michaud, Isabelle C	wkoonz@ nr.gov.mb.ca	Alberta Conservation Association	Winnipeg MB R3J 3W3 7th Flr, O.S. Longman Building 6909 - 116 Street Edmonton AB T6H 4P2	







#### APPENDIX H - CONTACT LIST

AVIFAUNA continued PIPIT  Morrison, Dr. Guy Phone: 819-997-6120 Canadian Wildlife Service 100 Gamelin Boulevard	
A CONTRACTOR OF THE CONTRACTOR	
	1
C, RTM Fax: 819-953-6612 National Wildlife Research Hull QC K1A 0H3 guy.morrison@ec.gc.ca Centre	
12 Phillips, Nell Phone: 605-224-8693 ext.32 US Fish and Wildlife 420 South Garfield Ave	nue
C, RTM Fax: 605-224-9974 Service Pierre SD 57501 U.S.A	
nell mcphillips@fws.gov South Dakota Field Office	•
13 Prescott, Dr. Dave Phone: 780-427-4000 Alberta Conservation Box 40027	
C Fax: 780-422-6441 Association Baker Centre Postal Ou	tlet
dprescot@ab-conservation.com Edmonton AB T5J 4M9	
14 Russell, Reg Phone: 403-362-1201 Alberta Environment Fish and Wildlife Divis	
C, I Fax: 403-362-1295 Natural Resources Service Box 909	
reg.russell@gov.ab.ca Brooks AB T1R 1B8	
15 Smith, Alan Phone: 306-975-4091 Environment Canada Canadian Wildlife Serv	ice
C, I Fax: 306-975-4089 Environmental 115 Perimeter Road	
alan.smith@ec.gc.ca Conservation Branch Saskatoon SK S7N 0X4	ļ
16 Wiltse, Earl Phone: 306-787-2889 Saskatchewan Environment 3211 Albert Street	
C, RTM and Resource Management Regina SK S4S 5W6	
earl.wiltse.erm@govmail.gov.sk.ca	
	GE GROUSE
Aldridge, Cam Phone: 306-585-4562 Biology Department University of Regina	
C, RTM Fax: 306-585-4894 3737 Wascana Parkway	1
aldridgc@uregina.ca Regina SK S4S 0A2	
<sup>2</sup> Armbruster, Harry Phone: 780-435-7295 Environment Canada CWS Western and North	
C, I Fax: 780-495-2615 Room 210, 4999 - 98 A	
harry.armbruster@ec.gc.ca Edmonton AB T6B 2X	3
Brigham, Dr. Mark Phone: 306-585-4255 Department of Biology University of Regina	
C, RTM Fax: 306-585-4894 3737 Wascana Parkway	1
mark.brigham@uregina.ca Regina SK S4S 0A2	
4 Bristol, Bill Phone: 306-780-8155 Prairie Farm Rehabilitation #603, 1800 Hamilton S	treet
C, RTM Fax: 306-780-8229 Agency Regina SK S4P 4L2	
bristolb@em.agr.ca	
5 Dickinson, Dawn Phone: 403-526-6443 Grassland Naturalists 10 Clover Court SE	
C, RTM mureynol@memlane.com Medicine Hat AB T1B	
6 Eslinger, Dale Phone: 403-529-3680 Alberta Environment Room 301, Provincial I	Building
C, RTM Fax: 403-528-5212 Natural Resources Service 346 3rd Street SE	
dale.eslinger@gov.ab.ca Medicine Hat AB T1A	
7 Fargey, Pat Phone: 306-298-2166 Canadian Heritage Parks Grasslands Natural Park	k
C, RTM Fax: 306-298-2042 Canada Box 150	
• • • • • • • • • • • • • • • • • • • •	)
pat_fargey@pch.gc.ca Val Marie SK S0N 2T0	
pat_fargey@pch.gc.ca	
pat fargey@pch.gc.ca Val Marie SK SON 2TO  8 Harris, Wayne C, I, RTM Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 and Resource Management 350 Cheadle Street W	4.033
pat fargey@pch.gc.ca Val Marie SK SON 2TO  Representation Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 and Resource Management wayne.harris.erm@govmail.gov.sk.ca Saskatchewan Environment and Resource Management SK S9H	4G3
pat fargey@pch.gc.ca Val Marie SK SON 2TO  Representation Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 and Resource Management wayne.harris.erm@govmail.gov.sk.ca Saskatchewan Wildlife 444 River Street W.  Phone: 306-693-9022 Saskatchewan Wildlife 444 River Street W.	
pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Kroshus, Jim C, RTM Fax: 306-693-9022 C, RTM Fax: 306-693-4370 Federation  Val Marie SK SON 2TC Grasslands Ecoregion 350 Cheadle Street W Swift Current SK S9H 444 River Street W. Moose Jaw SK S6H 6Jc	
pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Swift Current SK S9H  Kroshus, Jim C, RTM Fax: 306-693-9022 C, RTM Fax: 306-693-4370 Sask.wildlife@sk.sympatico.ca  Phone: 306-693-4370 Sask.wildlife@sk.sympatico.ca  Val Marie SK S0N 2TC Grasslands Ecoregion 350 Cheadle Street W Swift Current SK S9H 444 River Street W. Moose Jaw SK S6H 6JC Sask.wildlife@sk.sympatico.ca	
pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Swift Current SK S9H  Kroshus, Jim C, RTM Fax: 306-693-9022 Phone: 306-693-4370 Fax: 306-693-4370 Sask.wildlife@sk.sympatico.ca  Phone: 403-378-4701 Sask.wildlife Commission  Alberta Cattle Commission  Val Marie SK S0N 2TC  Grasslands Ecoregion 350 Cheadle Street W Swift Current SK S9H  444 River Street W. Moose Jaw SK S6H 6JC  Sask.wildlife@sk.sympatico.ca  Box 179	
Pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Swift Current SK S9H  Kroshus, Jim C, RTM Fax: 306-693-9022 C, RTM Fax: 306-693-4370 Sask.wildlife@sk.sympatico.ca  Phone: 403-378-4701 C, RTM Fax: 403-378-4730  Phone: 403-378-4730  Val Marie SK S0N 2TC Grasslands Ecoregion Grasslands Ecoregion Saskatchewan Environment Alberta Cattle Commission Box 179 Duchess AB T0J 0Z0	
pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Swift Current SK S9H  Kroshus, Jim C, RTM Fax: 306-693-9022 C, RTM Fax: 306-693-4370 Sask.wildlife@sk.sympatico.ca  Livingston, Tom C, RTM Fax: 403-378-4701 C, RTM Fax: 403-378-4730 Lungle, Ken Phone: 780-427-6612  Val Marie SK S0N 2TC  Grasslands Ecoregion 350 Cheadle Street W Swift Current SK S9H  444 River Street W. Moose Jaw SK S6H 6Jc  Box 179 Duchess AB T0J 0Z0  Main Floor	<u> </u>
pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Swift Current SK S9H  Kroshus, Jim C, RTM Fax: 306-693-9022 Saskatchewan Wildlife C, RTM Fax: 306-693-4370 Sask.wildlife@sk.sympatico.ca  Livingston, Tom C, RTM Fax: 403-378-4701 C, RTM Fax: 403-378-4730  Lungle, Ken C, RTM Fax: 780-422-9557 Phone: 780-422-9557 Natural Resources Service  Val Marie SK S0N 2TC Grasslands Ecoregion 350 Cheadle Street W Swift Current SK S9H 444 River Street W. Moose Jaw SK S6H 6Jc Box 179 Duchess AB T0J 0Z0  Main Floor 9945 - 108 <sup>th</sup> Street	6
pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Kroshus, Jim C, RTM Fax: 306-693-9022 Saskatchewan Wildlife C, RTM Fax: 306-693-4370 Sask.wildlife@sk.sympatico.ca  Livingston, Tom C, RTM Fax: 403-378-4730 C, RTM Fax: 403-378-4730 Lungle, Ken C, RTM Fax: 780-422-9557 Ken.lungle@gov.ab.ca  Val Marie SK SON 2TC Saskatchewan Environment Swift Current SK S9H Swift Current SK S9H Add Resource Management Add Resource Management Swift Current SK S9H Add Resource Management Add Resource Mana	6
Pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Kroshus, Jim C, RTM Fax: 306-693-9022 Saskatchewan Wildlife C, RTM Fax: 306-693-4370 Sask.wildlife@sk.sympatico.ca  Phone: 403-378-4701 C, RTM Fax: 403-378-4730 Livingston, Tom C, RTM Fax: 403-378-4730 C, RTM Fax: 780-427-6612 C, RTM Fax: 780-422-9557 Reflection Sask.wildlife@gov.ab.ca  Phone: 403-268-7868 PanCanadian  Val Marie SK SON 2TC Grasslands Ecoregion 350 Cheadle Street W Swift Current SK S9H 444 River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Moose Jaw SK S6H 6Jc Saskatchewan Wildlife Add River Street W. Swift Current SK S9H Add River Street W. Swift Curren	6
pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 and Resource Management Wayne.harris.erm@govmail.gov.sk.ca  Kroshus, Jim Phone: 306-693-9022 Saskatchewan Wildlife C, RTM Fax: 306-693-4370 Federation  Livingston, Tom Phone: 403-378-4701 Alberta Cattle Commission C, RTM Fax: 403-378-4730  Lungle, Ken Phone: 780-427-6612 Alberta Environment C, RTM Fax: 780-422-9557 Natural Resources Service ken.lungle@gov.ab.ca  Lunn, Stu Phone: 403-268-7868 PanCanadian  Pax: 403-290-2440  Val Marie SK SON 2TC Grasslands Ecoregion 350 Cheadle Street W Swift Current SK S9H  444 River Street W Moose Jaw SK S6H 6Jc Alberta Cattle Commission Box 179 Duchess AB T0J 0Z0  Main Floor 9945 - 108th Street Edmonton AB T5K 2G  PanCanadian  150 - 9th Avenue SW Box 2850	6
pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Kroshus, Jim C, RTM Fax: 306-693-9022 C, RTM Fax: 306-693-4370 Sask.wildlife@sk.sympatico.ca  C, RTM Fax: 403-378-4701 C, RTM Fax: 403-378-4730  Lungle, Ken C, RTM Fax: 780-422-9557 C, RTM Fax: 780-422-9557 Ken.lungle@gov.ab.ca  Phone: 403-268-7868 C, RTM Fax: 403-290-2440 C, RTM Fax: 403-290-2440 Saskatchewan Wildlife Federation Saskatchewan Wildlife A44 River Street W. Moose Jaw SK S6H 6Je Moose Ja	6
pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Kroshus, Jim C, RTM Fax: 306-693-9022 C, RTM Fax: 306-693-4370 Sask.wildlife@sk.sympatico.ca  Livingston, Tom C, RTM Fax: 403-378-4701 C, RTM Fax: 403-378-4730  Lungle, Ken C, RTM Fax: 780-427-6612 C, RTM Fax: 780-422-9557 Ren.lungle@gov.ab.ca  Lunn, Stu C, RTM Fax: 403-290-2440 C, RTM Fax: 403-290-2440 Stuart lunn@pancanadian.ca  Phone: 306-778-8489 Nature Saskatchewan Wildlife Grasslands Ecoregion 350 Cheadle Street W Swift Current SK S9H A44 River Street W Moose Jaw SK S6H 6Je Saskatchewan Wildlife A44 River Street W Moose Jaw SK S6H 6Je Alberta Cattle Commission Box 179 Duchess AB T0J 0Z0 Alberta Environment Natural Resources Service Redmonton AB T5K 2G Box 2850 Calgary AB T2P 2S5  Nature Saskatchewan	6 6
pat fargey@pch.gc.ca  Phone: 306-778-8218 Saskatchewan Environment C, I, RTM Fax: 306-778-8212 wayne.harris.erm@govmail.gov.sk.ca  Kroshus, Jim C, RTM Fax: 306-693-9022 Saskatchewan Wildlife C, RTM Fax: 306-693-4370 Sask.wildlife@sk.sympatico.ca  C, RTM Fax: 403-378-4701 C, RTM Fax: 403-378-4730  Lungle, Ken C, RTM Fax: 780-422-9557 C, RTM Fax: 780-422-9557 Ken.lungle@gov.ab.ca  Phone: 403-268-7868 C, RTM Fax: 403-290-2440 C, RTM Fax: 403-290-2440 Saskatchewan Wildlife Federation Federation  Alberta Cattle Commission Box 179 Duchess AB T0J 0Z0  Main Floor 9945 - 108th Street Edmonton AB T5K 2G  Box 2850 Calgary AB T2P 2S5	6 6

• C=CORRESPONDED • I=INTERVIEWED • RTM=RECOVERY TEAM MEMBER





SA	GE GROUSEcom		AVIFAUNA	
14	Milner, Dennis	Phone: 403-529-3718	Alberta Agriculture	Room 106, Provincial Building
	C, RTM	Fax: 403-528-5213	Public Land Management	346 - 3rd Street SE
		nnis.milner@agric.gov.ab.ca		Medicine Hat AB T1A 0G7
15	Poirier, Thelma	Phone: 306-266-4750	Saskatchewan Stock	Box 70
	C, RTM	Fax: 306-266-4910	Growers	Fir Mountain SK S0H 1P0
16	Russell, Reg	Phone: 403-362-1201	Alberta Environment	Fish and Wildlife Division
	C, I, RTM	Fax: 403-362-1295	Natural Resources Service	Box 909
		reg.russell@gov.ab.ca		Brooks AB T1R 1B8
17	Scalise, Karyn	Phone: 306-787-2889	Saskatchewan Environment	Rm 436, 3211 Albert Street
	C, RTM	Fax: 306-787-0737	and Resource Management	Regina SK S4S 5W6
	karyn.sca	lise.erm@govmail.gov.sk.ca	Wildlife Branch	
18	Scobie, Dave	Phone: 403-793-8500	Avocet Environmental Inc.	Box 1644
	RTM	Fax: 403-793-8685		Brooks AB T1R 1C5
		avocet@br.monarch.net		
19	Taggart, John	Phone: 403-528-5207	Alberta Environment	Room 301, Provincial Building
		Fax: 403-528-5212	Natural Resources Service	346 - 3rd Street SE
		john.r.taggart@gov.ab.ca		Medicine Hat AB T1A 0G7
20	Veitch, Lorne	Phone: 306-778-8300	Saskatchewan Agriculture	#1, 1081 Central Ave. N
	C, RTM	Fax: 306-778-8604	and Food	Box 5000
		lveitch@agr.gov.sk.ca	Lands Branch	Swift Current SK S9H 4Z1
		•		
	ORT-EARED OWL			
1	Court, Gord	Phone: 780-422-9536	Alberta Environment	7th Flr, O.S. Longman Building
	C, I	Fax: 780-422-9685	Natural Resources Service	6909 - 116 Street
_		gcourt@env.gov.ab.ca	Wildlife Mgmt. Division	Edmonton AB T6H 4P2
2	DeSmet, Ken	Phone: 204-522-3719	Manitoba Department of	Box 520
	C, I	Fax: 204-522-3525	Natural Resources	Melita MB R0M 1L0
_		kdesmet@gov.mb.ca		
3	Harris, Wayne	Phone: 306-778-8218	Saskatchewan Environment	Grasslands Ecoregion
	C, I	Fax: 306-778-8212	and Resource Management	350 Cheadle Street W
		rris.erm@govmail.gov.sk.ca		Swift Current SK S9H 4G3
4	Holt, Denver		Owl Research Institute Inc	Box 8335
	С	10		Missoula MT 59807 U.S.A.
5	Koonz, Bill	owl@montana.com Phone: 204-945-6811	Manitoba Conservation	D 24
•	•	Fax: 204-945-3077		Box 24
	C, I	wkoonz@nr.gov.mb.ca	Wildlife Branch	200 Saulteaux Cr.
	Mazur, Kurt	Phone: 204-945-6816	Portners in Eliabet	Winnipeg MB R3J 3W3
	C, I	Fax: 204-945-3077	Partners in Flight	Box 24
	O <sub>1</sub> I	kmazur@nr.gov.mb.ca		200 Saulteaux Cr.
16	Russell, Reg	Phone: 403-362-1201	Alberta Environment	Winnipeg MB R3J 3W3
	C, I	Fax: 403-362-1295	Natural Resources Service	Fish and Wildlife Division
	~, ı	reg.russell@gov.ab.ca	reatural resources Service	Box 909
17	Smith, Alan	Phone: 306-975-4091	Environment Canada	Brooks AB T1R 1B8
	C, I	Fax: 306-975-4089	Environment Canada Environmental	Canadian Wildlife Service 115 Perimeter Road
	~, I	alan.smith@ec.gc.ca	Conservation Branch	
_		atan.snntn(@cc.gc.ca	COURCI VALION DIBINON	Saskatoon SK S7N 0X4
SPI	RAGUE'S PIPIT			
1	Dale, Brenda	Phone: 403-951-8686	Environment Canada	CWS Prairie and Northern Region
	C, I	Fax: 403-495-2615	Non-Game Division	Room 200, 4999 - 98 Ave
	, -	brenda.dale@ec.gc.ca	O . OUT TOWNS AND I V EMPTORS	Edmonton AB T6B 2X3
_	Davis, Stephen	Phone: 306-787-0711	Saskatchewan Wetland	
2	Pavis, Sichlicii	THORE. 200-707-0/11		#101, 2022 Cornwall Street
2		East 204 707 0700	Concornation Comments	Danima CV CAD OVE
2	C, I	Fax: 306-787-0780 sdavis@wetland.sk.ca	Conservation Corporation	Regina SK S4P 2K5

● C=CORRESPONDED ● I=INTERVIEWED ● RTM=RECOVERY TEAM MEMBER





		APPENDIX	(H-CONTACT LIS	
			AVIFAUNA	continued SPRAGUE'S PIPIT
3	DeSmet, Ken	Phone: 204-522-3719	Mauriona Debaranent et	Box 520
د	C, I	Fax: 204-522-3525	Natural Resources	Melita MB R0M 1L0
	C, I	kdesmet@gov.mb.ca		
4	Harris, Wayne	Phone: 306-778-8218	Saskatchewan Environment	Grasslands Ecoregion
7	C, I	Fax: 306-778-8212	and Resource Management	350 Cheadle Street W
	vavne harr	is.erm@govmail.gov.sk.ca		Swift Current SK S9H 4G3
5	Koonz, Bill	Phone: 204-945-6811	Manitoba Conservation	Box 24
,	C, I	Fax: 204-945-3077	Wildlife Branch	200 Saulteaux Cr.
	С, 1	wkoonz@nr.gov.mb.ca		Winnipeg MB R3J 3W3
6	Mazur, Kurt	Phone: 204-945-6816	Partners in Flight	Box 24
v	C, I	Fax: 204-945-3077		200 Saulteaux Cr.
	C, 1	kmazur@nr.gov.mb.ca		Winnipeg MB R3J 3W3
7	Prescott, Dr. Dave	Phone: 780-427-4000	Alberta Conservation	Box 40027
•	C, I	Fax: 780-422-6441	Association	Baker Centre Postal Outlet
	dore	escot@ab-conservation.com		Edmonton AB T5J 4M9
-8	Russell, Reg	Phone: 403-362-1201	Alberta Environment	Fish and Wildlife Division
G	C, I	Fax: 403-362-1295	Natural Resources Service	Box 909
	C, 1	reg.russell@gov.ab.ca		Brooks AB T1R 1B8
				WHOOPING CRANE
1	Archibald, George	Phone: 608-356-9462	International Crane	East 11376 Shady Lane Road
	C. RTM	Fax: 608-356-9465	Foundation	Baraboo WI 53913-447 U.S.A.
	0,	george@savingcranes.org		CWS Western and Northern Region
2	Armbruster, Harry	Phone: 780-435-7295	Environment Canada	CWS Western and Northern Region
_	C, I	Fax: 780-495-2615	Environmental	Room 210, 4999 - 98 Ave
	C, 1	harry.armbruster@ec.gc.ca	Conservation Branch	Edmonton AB T6B 2X3
3	Bergeson, Doug	Phone: 403-872-7900	Parks Canada	Wood Buffalo National Park
	C, RTM	Fax: 403-872-3910		Box 750
	C, KIM	doug bergeson@pch.gc.ca		Fort Smith NT X0E 0P0
4	Carriere, Suzanne	Phone: 867-920-6327	NWT Department of	5th Floor Scotia Centre
•	C, RTM	Fax: 867-873-0297	Resources, Wildlife and	600, 5102 50 <sup>th</sup> Avenue
	C, ICINI	suzanne carriere@gov.nt.ca	Fisheries Division	Yellowknife NT
- 5	Gee, George	Phone: 301-497-5750	Patuxent Wildlife Research	National Biological Survey
•	C, RTM	Fax: 301-497-5675	Center Biological	12011 Beech Forest Road
	C, RIM	george gee@usgs.gov	Resources Division	Laurel MD 20708-4041 U.S.A.
- 6	Harris, Wayne	Phone: 306-778-8218	Saskatchewan Environment	Grasslands Ecoregion
ŭ	C, I	Fax: 306-778-8212	and Resource Management	350 Cheadle Street W
	wavne.h	arris.erm@govmail.gov.sk.ca		Swift Current SK S9H 4G3
7		Phone: 306-975-4109	Environment Canada	Canadian Wildlife Service 115 Perimeter Road
	C, RTM	Fax: 306-975-4089		Saskatoon SK S7N 0X4
	<b>~,</b>	brian.johns@ec.gc.ca	Conservation Branch	101 South Webster Street
8	Langenberg, Julie	Phone: 608-266-3143	Wisconsin Department of	
	C, RTM	Fax: 608-267-785		Box 7921 Madison WI 53707-7921 U.S.A.
	<b>0</b> 1	langj@dnr.state.wi.u	S	Wildlife Research Laboratory
	Nesbitt, Steve	Phone: 352-955-223	Florida Fish and Wildlife	4005 South Main Street
	C, RTM	Fax: 352-376-535		Gainsville FL 32601-9099 U.S.A.
	-, - · · · · ·	nesbit@wrl.gfc.state.fl.u	5	Canadian Wildlife Service
1	0 Smith, Alan	Phone: 306-975-409	1 Environment Canada	115 Perimeter Road
	C, I	Fax: 306-975-408		
	<del>-</del> , -	alan.smith@ec.gc.c	a Conservation Branch	Saskatoon SK S7N 0X4 U.S. Fish and Wildlife Service
_	1 Stehn, Tom	Phone: 361-286-3559/353	3 Arkansas National	
	C, RTM	Fax: 361-286-372	2 Wildlife Refuge	Box 100
	Ψ, 11111	tom.stehn@fws.go	v	Autwell TX 77950 U.S.A.
_	12 Tarry, Greg	Phone: 403-232-933	7 Calgary Zoo	Box 3036 Station "B"
	C, RTM	Fax: 403-237-758	2 Calgary Zoological Society	Calgary AB T2M 4R8
	O, ICINI	gregt@calgaryzoo.ab.e	ca	
-		11/2	PVIEWED • RTM=RECOVERY	TEAM MEMBER







YELLOW RAIL AVIFAUNA	
1 Chranowski, Dan Phone: 204-726-6450 Manitoba Conservation Brandon MB	
C dchranowski@nr.gov.mb.ca	
2 Harris, Wayne Phone: 306-778-8218 Saskatchewan Environment Grasslands Eco	Oregion
C, I Fax: 306-778-8212 and Resource Management 350 Cheadle S	
wayne.harris.erm@govmail.gov.sk.ca Swift Current	
3 Koonz, Bill Phone: 204-945-6811 Manitoba Conservation Box 24	
C, I Fax: 204-945-3077 Wildlife Branch 200 Saulteaux	Cr.
wkoonz@ nr.gov.mb.ca Winningg MB	
4 Mazur, Kurt Phone: 204-945-6816 Partners in Flight Box 24	
C, I Fax: 204-945-3077 200 Saulteaux	Сг.
kmazur@nr.gov.mb.ca Winnipeg MB	R3J 3W3
MAMMALS	
BLACK TAILED PRAIRIE DOG	
1 Gummer, Dave Phone: 306-966-4452 Biology Department University of S	Sackatchewan
C, I Fax: 306-966-4461 112 Science Pl	
david.gummer@usask.ca Saskatoon SK	
<sup>2</sup> Harris, Wayne Phone: 306-778-8218 Saskatchewan Environment Grassland Economic Grassland Control of the Cont	
C, 1 Fax: 306-778-8212 and Resource Management 350 Cheadle St	
wayne.harris.erm@govmail.gov.sk.ca Swift Current S	
ORD'S KANGAROO RAT	
	137 1 7 1
C, I Fax: 780-495-2615 CwS Western Room 210, 499	and Northern Region
harry.armbruster@ec.gc.ca Edmonton Albe	
2 Gummer, Dave Phone: 306-966-4452 Biology Department University of S	
C, I Fax: 306-966-4461 112 Science Pl	
david.gummer@usask.ca Saskatoon SK	
3 Harris, Wayne Phone: 306-778-8218 Saskatchewan Environment Grassland Econ	
C, I Fax: 306-778-8212 and Resource Management 350 Cheadle St	reet W
wayne.harris.erm@govmail.gov.sk.ca Swift Current S	
	nd Northern Region
C, I Fax: 780-495-2615 Resource Conservation Room 200, 499	99 - 98 Ave
hal.reynolds@ec.gc.ca Division Edmonton AB	
SWIFT FOX	
	and Northern D *
C, I Fax: 780-495-2615 Room 210, 499	and Northern Region
harry.armbruster@ec.gc.ca Edmonton Albe	
2 distribution 1 to C	ongman Building
C, I, RTM Fax: 780-422-9685 Natural Resources Services 6909 - 116 Stre	viginari bulldililg .et
steve.brechtel@gov.ab.ca Wildlife Mgmt Division Edmonton AB	
3 Carbyn, Dr. Lu Phone: 780-435-7357 c/o Environment Canada CWS Prairie an	nd Northern Region
C, I, RTM Fax: 403-435-7259 University of Alberta Room 210, 499	
lu.carbyn@ec.gc.ca Edmonton AB	
4 Eslinger, Dale Phone: 403-529-3680 Alberta Environment Room 301, Pro	vincial Building
C, I, RTM Fax: 403-528-5212 Natural Resource Service 346 - 3rd Stree	t SE
dale.eslinger@gov.ab.ca Medicine Hat A	AB T1A 0G7
Fargey, Pat Phone: 306-298-2166 Canadian Heritage Parks Grasslands Nati	ural Park
C, I, RTM Fax: 306-298-2042 Canada Box 150	
pat fargey@pch.gc.ca Val Marie SK S	SON 2TO







### APPENDIX H - CONTACT LIST MAMMALS

		M	AMMALS	continued SWIFT FOX
		Phone: 306-787-2889	Saskatchewan Environment	Room 436, 3211 Albert Street
7	Scalise, Karyn	Fax: 306-787-0737	and Resource Management	Regina SK S4S 5W6
	C, RTM	=	Wildlife Branch	
		se.erm@govmail.gov.sk.ca Phone: 403-932-6303	Cochrane Wildlife Reserve	Box 484
8	Smitton, Clio	Fax: 403-932-6303	Cocinalic Wilding Reserve	Cochrane AB T0L 0W0
	C, RTM			
		cei@cadvision.com	Swift Fox Conservation	67 Rosewood Road NW
9	Stuez, George	Phone: 403-255-6444		Calgary AB T2K 1N3
	C, RTM	stuezgg@hotmail.com	Society	Cuigary 745 Tase 1145
				WOLVERINE
_	Banci, Vivian	Phone: 604-466-2645		Maple Ridge BC
1		vbanci@sprint.ca		·
_	<u>C</u>	Phone: 867-873-7783	NWT Department of	Wildlife and Fisheries
2	Cluff, Dean	Fax: 867-873-6230	Resources, Wildlife and	Box 2668
	С	dean cluff@gov.nt.ca_	Economic Development	Yellowknife NWT X1A 2P9
_	7.11	Phone: 204-945-6811	Manitoba Conservation	Box 24
3	Koonz, Bill	Fax: 204-945-3077	Wildlife Branch	200 Saulteaux Cr.
	C, I	wkoonz@nr.gov.mb.ca	Wildlife Dianen	Winnipeg MB R3J 3W3
_				
				WOOD BISON
ī	Chisholm, Jane		Parks Canada	Wood Buffalo National Park
-	C, RTM			Box 750
	0,11111	jane chisholm@pch.gc.ca		Fort Smith NT X0E 0P0
2	Cool, Norm		Parks Canada	Elk Island National Park
_	C, RTM	norm_cool@pch.gc.ca		R.R. #1, Site 4
	C, KIM	inclination of		Fort Saskatchewan AB T8L 2N1
3	Gates, Corm	Phone: 403-220-3027	Faculty of Environmental	University of Calgary
,	=	1 Hotte: 103 220 302.	Design	2500 University Drive NW
	C, RTM	ccgates@nucleus.com	<del>-</del>	Calgary AB T2N 1N4
	77 C 14 - C-1	Phone: 867-667-5671	Yukon Department of	Box 2703 (R-5H)
4	Hoefs, Manfred	Fax: 867-393-6405	Natural Resources	Whitehorse YT Y1A 2C6
	C, RTM	<u>-</u>	• - • • • • • • • • • • • • • • • • • •	
_		manfred.hoefs@gov.yk.ca Phone: 204-945-6811		Box 24
5	Koonz, Bill	Fax: 204-945-3077		200 Saulteaux Cr.
	C, RTM	+		Winnipeg MB R3J 3W3
_	Martin Davis	wkoonz@ nr.gov.mb.ca	<del></del> -	
D	Moyles, Dave C, RTM	dave.moyles@gov.ab.ca		AB
7	Nishi, John	john_nishi@gov.nt.ca	Government of NWT	NT
	C, RTM	<u></u>		CWS Prairie and Northern Region
8	1403110100,	Phone: 780-951-8702		Room 200, 4999 - 98 Ave
	C, I, RTM	Fax: 780-495-2615		
		hal.reynolds@ec.gc.ca	Division	Edmonton AB T6B 2X3
9	Bottmanije,			BC
	C, RTM			DC .
		schwantje@gems2.gov.bc.ca	1	AR U.S.A.
10	Diophonoon,			AC O.O.A.
	C, RTM			
	hster	phenso@fishgame.state.ak.u	S	



bstephenso@fishgame.state.ak.us





### APPENDIX H - CONTACT LIST

#### HERPTILES

A.	STERN SHORT-HOL	RNED LIZARD		
	Didiuk, Andy	Phone: 306-975-4005	Environment Canada	Canadian Wildlife Service
	C, I	Fax: 306-975-4089	Environmental	115 Perimeter Road
	•	andrew.didiuk@ec.gc.ca	Conservation Branch	Saskatoon SK S7N 0X4
	Harris, Wayne	Phone: 306-778-8218	Saskatchewan Environment	Grassland Ecoregion
	C, I	Fax: 306-778-8212	and Resource Management	350 Cheadle Street W
		ris.erm@govmail.gov.sk.ca		Swift Current SK S9H 4G3
3	James, Janice	Phone: 403-320-3484	Centre for Environmental	Lethbridge Community College
	C	Fax: 403-317-3504	Science and Agriculture	3000 College Drive S.
		es@raptor.lethbridgec.ab.ca	3	Lethbridge AB T1K 1L6
_	Powell, Larry	Phone: 403-289-3557	Department of	University of Calgary
	C, I	Fax: 403-289-9311	Biological Sciences	2500 University Drive
	C, I	lpowell@acs.ucalgary.ca	Diological deleners	Calgary AB T2N 1N4
5	Wisht Innethon	ipowen(a)aes.ueaigary.ea		
,	Wright, Jonathon			AB
	С	i-brid@talvanlanet net		1110
		wrightjd@telusplanet.net		
S.	STERN YELLOW-B	ELLIED DACED		
:/\	Didiuk, Andy	Phone: 306-975-4005	Environment Canada	Canadian Wildlife Service
•		Fax: 306-975-4089	Environmental	115 Perimeter Road
	C, I		Conservation Branch	Saskatoon SK S7N 0X4
_	** * ***	andrew.didiuk@ec.gc.ca	Saskatchewan Environment	Grassland Ecoregion
2	Harris, Wayne	Phone: 306-778-8218		350 Cheadle Street W
	C, I	Fax: 306-778-8212	and Resource Management	Swift Current SK S9H 4G3
_		rris.erm@govmail.gov.sk.ca		SWIII Current SK 39H 4Q3
3	Kissner, Kelly			
				Canada
4	MacCartney, Malco	olm		
				Canada
5	Wright, Jonathon			
	С			AB
		wrightjd@telusplanet.net		
GI	REAT PLAINS TOAL			
	REAT PLAINS TOAL Didiuk, Andy	Phone: 306-975-4005	Environment Canada	Canadian Wildlife Service
			Environmental	115 Perimeter Road
	Didiuk, Andy	Phone: 306-975-4005	Environmental Conservation Branch	115 Perimeter Road Saskatoon SK S7N 0X4
1	Didiuk, Andy C, I	Phone: 306-975-4005 Fax: 306-975-4089	Environmental	115 Perimeter Road Saskatoon SK S7N 0X4 Grassland Ecoregion
	Didiuk, Andy C, I Harris, Wayne	Phone: 306-975-4005 Fax: 306-975-4089 andrew.didiuk@ec.gc.ca	Environmental Conservation Branch	115 Perimeter Road Saskatoon SK S7N 0X4
1	Didiuk, Andy C, I Harris, Wayne C, I	Phone: 306-975-4005 Fax: 306-975-4089 andrew.didiuk@ec.gc.ca Phone: 306-778-8218 Fax: 306-778-8212	Environmental Conservation Branch Saskatchewan Environment	115 Perimeter Road Saskatoon SK S7N 0X4 Grassland Ecoregion
2	Didiuk, Andy C, I Harris, Wayne C, I wayne.ha	Phone: 306-975-4005 Fax: 306-975-4089 andrew.didiuk@ec.gc.ca Phone: 306-778-8218 Fax: 306-778-8212 arris.erm@govmail.gov.sk.ca	Environmental Conservation Branch Saskatchewan Environment	115 Perimeter Road Saskatoon SK S7N 0X4 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3
1	Didiuk, Andy C, I  Harris, Wayne C, I  wayne.ha Preston, Bill	Phone: 306-975-4005 Fax: 306-975-4089 andrew.didiuk@ec.gc.ca Phone: 306-778-8218 Fax: 306-778-8212	Environmental Conservation Branch Saskatchewan Environment	115 Perimeter Road Saskatoon SK S7N 0X4 Grassland Ecoregion 350 Cheadle Street W
2	Didiuk, Andy C, I Harris, Wayne C, I wayne.ha	Phone: 306-975-4005 Fax: 306-975-4089 andrew.didiuk@ec.gc.ca Phone: 306-778-8218 Fax: 306-778-8212 arris.erm@govmail.gov.sk.ca Phone: 204-475-4692	Environmental Conservation Branch Saskatchewan Environment	115 Perimeter Road Saskatoon SK S7N 0X4 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3
2	Didiuk, Andy C, I  Harris, Wayne C, I  wayne.ha  Preston, Bill C, I	Phone: 306-975-4005 Fax: 306-975-4089 andrew.didiuk@ec.gc.ca Phone: 306-778-8218 Fax: 306-778-8212 arris.erm@govmail.gov.sk.ca Phone: 204-475-4692 breston@icenter.net	Environmental Conservation Branch Saskatchewan Environment and Resource Management	Saskatoon SK S7N 0X4 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 Winnipeg MB
2	Didiuk, Andy C, I  Harris, Wayne C, I  wayne.ha Preston, Bill C, I  Russell, Reg	Phone: 306-975-4005 Fax: 306-975-4089 andrew.didiuk@ec.gc.ca Phone: 306-778-8218 Fax: 306-778-8212 arris.erm@govmail.gov.sk.ca Phone: 204-475-4692 breston@icenter.net Phone: 403-362-1201	Environmental Conservation Branch Saskatchewan Environment and Resource Management  Alberta Environment	Saskatoon SK S7N 0X4 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 Winnipeg MB Fish and Wildlife Division
2	Didiuk, Andy C, I  Harris, Wayne C, I  wayne.ha  Preston, Bill C, I	Phone: 306-975-4005     Fax: 306-975-4089     andrew.didiuk@ec.gc.ca     Phone: 306-778-8218     Fax: 306-778-8212     arris.erm@govmail.gov.sk.ca     Phone: 204-475-4692     breston@icenter.net     Phone: 403-362-1201     Fax: 403-362-1295	Environmental Conservation Branch Saskatchewan Environment and Resource Management	Saskatoon SK S7N 0X4 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 Winnipeg MB  Fish and Wildlife Division Box 909
2	Didiuk, Andy C, I  Harris, Wayne C, I  wayne.ha  Preston, Bill C, I  Russell, Reg C, I	Phone: 306-975-4005	Environmental Conservation Branch Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service	Saskatoon SK S7N 0X4 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 Winnipeg MB  Fish and Wildlife Division Box 909 Brooks AB T1R 1B8
2	Didiuk, Andy C, I  Harris, Wayne C, I  wayne.ha Preston, Bill C, I  Russell, Reg	Phone: 306-975-4005	Environmental Conservation Branch Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service Environment Canada	Saskatoon SK S7N 0X4 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 Winnipeg MB  Fish and Wildlife Division Box 909 Brooks AB T1R 1B8 CWS Prairie and Northern Region
3	Didiuk, Andy C, I  Harris, Wayne C, I  wayne.ha  Preston, Bill C, I  Russell, Reg C, I	Phone: 306-975-4005	Environmental Conservation Branch Saskatchewan Environment and Resource Management  Alberta Environment Natural Resources Service	Saskatoon SK S7N 0X4 Grassland Ecoregion 350 Cheadle Street W Swift Current SK S9H 4G3 Winnipeg MB  Fish and Wildlife Division Box 909 Brooks AB T1R 1B8







### APPENDIX H - CONTACT LIST

#### HERPTILES

NORTHERN LEOPARD FRO				
Canadian Wildlife Service	Environment Canada	Phone: 306-975-4005	Didiuk, Andy	
115 Perimeter Road	Environmental	Fax: 306-975-4089	C, I	
Saskatoon SK S7N 0X4	Conservation Branch	andrew.didiuk@ec.gc.ca	C, I	
Grassland Ecoregion	Saskatchewan	Phone: 306-778-8218	Harris, Wayne	2
350 Cheadle Street W	Environment and Resource	Fax: 306-778-8212	C, I	_
Swift Current SK S9H 4G3	Management	rris.erm@govmail.gov.sk.ca	wayne ha	
Bow Region	Alberta Environment	Phone: 403-934-3422	Hofman, Ed	3
280A Ridge Road	Natural Resources Services	Fax: 403-934-3433	C, I	3
Strathmore AB T1P 1B6	Brooks Mgmt Area	ed.hofman@gov.ab.ca	C, I	
Box 24	Manitoba Conservation	Phone: 204-945-6811	Koonz, Bill	4
200 Saulteaux Cr.	Wildlife Branch	Fax: 204-945-3077	C, I	
Winnipeg MB R3J 3W3		wkoonz@nr.gov.mb.ca	C, I	
Winnipeg MB		Phone: 204-475-4692	Preston, Bill	5
	<u> </u>	breston@icenter.net	C, I	•
University of Alberta	Department of Biological	Phone: 780-492-4622	Roberts, Wayne	6
CW 404, Biological Sciences Bldg	Sciences	Fax: 780-492-9234	C	•
Edmonton AB T6G 2E9		wayne.roberts@ualberta.ca		
Fish and Wildlife Division	Alberta Environment	Phone: 403-362-1201	Russell, Reg	7
Box 909	Natural Resources Service	Fax: 403-362-1295	C, I	
Brooks AB T1R 1B8	<u> </u>	reg.russell@gov.ab.ca	0,.	
7th Flr, O.S. Longman Building	Alberta Conservation	Phone: 780-427-1249	Takats, Lisa	8
6909 - 116 Street	Association	Fax: 780-422-9685	C, I	
Edmonton AB T6H 4P2		lisa.takats@gov.ab.ca	<del>-,</del> -	
Site 2, Box 2, R.R 3		Phone: 403-652-7134	Wagner, Greg	9
High River AB T1V 1N3		wagnere@cadvision.com	C	
63 Flagstone Crescent		Phone: 403-243-7319	Wendlandt, Mark	10
St. Albert AB		barnswallow@hotmail.com	C	
		•	<del>-</del>	

<b>NORTHERN</b>	PRAIRIE	SKINK
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1	Bredin, Errol С	Box 268 Austin MB





## APPENDIX I - 1 LETTER TO ENVIRONMENT MINISTERS ALBERTA, SASKATCHEWAN AND MANITOBA



Box 1644 Brooks Alberta Canada T1R 1C5 Ph: 403 793 8500 Fax: 403 793 8685 avocet@br.monarch.net

February 5, 2000

#### Dear;

I am currently working on a contract with Environment Canada to develop standardized guidelines for setback distances, project timing and mitigation strategies for developments that affect COSEWIC Prairie and Northern Region Species at Risk.

Part of the contract involves meeting with appropriate experts and Provincial and Federal agencies in Alberta, Saskatchewan and Manitoba to solicit their input to build a set of guidelines that will be based on the best available knowledge. I wish to thank you in advance for the time and cooperation of your staff and Department during this process.

This project could act as another tool in developing a comprehensive approach to mitigating the cumulative effects of development activities. I would ask in the spirit of cooperation and conservation that your department consider adopting the final report and recommendations.

I have attached a summary of the project and a list of the species under review for your consideration. I will forward you a copy of the Final Report once it is available.

Yours in conservation

David Scobie, President

Encl.





### APPENDIX I - 2 RESPONSE FROM ALBERTA ENVIRONMENT MINISTER



#### ALBERTA ENVIRONMENT

Office of the Minister

March 13, 2000

Mr. David Scobie, President Avocet Environmental Inc. Box 1644 Brooks, Alberta T1R 1C5

Dear Mr. Scobie:

Thank you for your letter of February 5, 2000 about the development of land management guidelines and mitigation for species at risk on the prairies. I appreciate the opportunity to respond to the information you provided.

I understand that you have had some initial discussions with staff of my department and I encourage you to continue. It is very important to conduct this kind of work in co-operation and consultation with all jurisdictions and affected stakeholders.

Good luck with your project, and thank you for bringing it to my attention. I look forward to receiving a copy of the final report.

Sincerely,

Gary G. Mar, Q.C. Minister of Environment M.L.A. Calgary Nose Creek

Day D. Man

MO00-MOA-0627

323 Legislature Building, Edmonton, Alberta, Canada T5K 2B6 Telephone 780/427-2391, Fax 780/422-6259

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### APPENDIX I - 3 RESPONSE FROM MANITOBA ENVIRONMENT MINISTER



#### MINISTER OF CONSERVATION

Legislative Building Winnipeg, Manitoba, CANADA R3C 0V8

February 15, 2000

Mr. David Scobie President Avocet Environmental Inc. Box 1644 Brooks AB T1R 1C5

Dear Mr. Scobie:

I would like to acknowledge your letter dated February 5, 2000, enclosing a summary of your project and a list of species under review.

Thank you for forwarding this information to me. I appreciate being made aware of your organization's endeavours.

Sincerely,

Oscar Lathlin Minister





