Appendix A – IICEP Scoping Documents

Appendix A-1 - Interagency and Intergovernmental Coordination for Environmental Planning (IICEP) Point of Contact (POC) List

United States Army Corps	of Engineers (USACE)			
Name	Title	Phone	Address	E-Mail
Steven E. Naylor	Regulatory Program	605-224-8531	28563 Powerhouse	SDRegulatoryMailbox@usace.army.mil
	Manager,		Road, Pierre,	
	South Dakota		SD 57501	
United States Fish and Wil	ldlife Service (USFWS), M	Iountain Prairie R	egion	
Name	Title	Phone	Address	E-Mail
Amity Bass	Field Supervisor,	(605) 224-8693	420 South Garfield	amity_bass@fws.gov
	North and South	ext 224	Avenue, Suite 400	
	Dakota Ecological		Pierre, SD 57501	
	Services			
Federal Emergency Manag	gement Agency (FEMA)		•	
Name	Title	Phone	Address	E-Mail
			Denver Federal	
	Regional		Center, Building 710	
Lee DePalo	Administrator, Region	(303) 235-4812	P.O. Box 25267	
	8		Denver, CO 80255-	
			0267	
Cathy Bachhuber	Tribal Affairs, FEMA			Cathy.Bachhuber@fema.dhs.gov
•	Region 8			Cathy.Bachhuber@fema.dns.gov
South Dakota (SD) State H	listoric Preservation Offic	e (SHPO)		
Name	Title	Phone	Address	E-Mail
Jenna Carlson Dietmeier,	Review & Compliance	605-773-2906	900 Governors Dr.	Katie.Wasley@state.sd.us
PhD	Coordinator		Pierre, SD 57501	
South Dakota Game, Fish,	and Parks (SDGFP)			
Name	Title	Phone	Address	E-Mail
Stan Michals	Energy and Minerals	Regional Office	4130 Adventure Trail	Stan.Michals@state.sd.us
	Coordinator	No. (605)394-	Rapid City, SD 57702	
		2391		
		Cell No.		
		(605)645-8881		
South Dakota Department	of Agricultural and Natu	ral Resources (DA	NR)	
Name	Title	Phone	Address	E-Mail
Sean Kruger	Standards Team		Joe Foss Building,	Sean.Kruger@state.sd.us
Shannon Minerich	Standards Team	(605) 773-3351	523 East Capitol	shannon.minerich@state.sd.us
			Pierre, SD 57501	

Name	Title	Phone	Address	E-Mail
Glen Kane	Managing Director	605-390-7290	14 St Joseph St, Rapid City, SD 57709	glen.kane@ellsworthauthority.org
Tribal Governments				
Tribe	Name/Title	Phone	Address	E-Mail
Apache Tribe of Oklahoma	Bobby Komardley, Chairman	405-247-9493	PO Box 1330 Anadarko, OK 73005	bkomardley@outlook.com
Arapaho Tribe of the Wind	Ben Ridgley, THPO	307-851-1254	PO Box 67 St. Stevens, WY 82524	benridgley007@gmail.com
River Reservation, Wyoming	Lee Spoonhunter, Chairperson	307-332-6120	PO Box 396 Fort Washakie, WY 82514-0396	lee.spoonhunter@northernarapaho.com
Assiniboine and Sioux Tribes of the Fort Peck	Dyan Youpee, THPO	406-768-2382	PO Box 1027 Poplar, MT 59255	d.youpee@fortpecktribes.net
Indian Reservation, Montana	Floyd Azure, Chairperson	406-768-2300	PO Box 1027 Poplar, MT 59255-1027	fazure@fortpecktribes.net
Cheyenne and Arapaho	Max Bear, THPO	405-422-7416	700 Black Kettle Blvd Concho, OK 73022	mbear@c-a-tribes.org
Tribes, Oklahoma	Reggie Wassana, Governor	800-422-8224	P.O. Box 38 Concho, OK 73022	rwassana@c-a-tribes.org
Cheyenne River Sioux Tribe	Steven Vance, THPO	605-964-7554	PO Box 590 Eagle Butte, SD57625	stevev.crstpres@outlook.com
of the Cheyenne River Reservation, South Dakota	Harold Frazier, Chairperson	605-964-4155	PO Box 590 Eagle Butte, SD57625- 0590	HaroldCFrazier@yahoo.com
Comanche Nation,	Mark Woommavovah, Chairperson	580-492-3240	PO Box 908 Lawton, OK 73502	jennifer.rodriguez@comanchenation.com
Oklahoma	Martina Minthorn, THPO	580-595-9618	6 SW D Avenue Lawton, OK 73502	martina.minthorn@comanchenation.com
Confederated Salish and Kootenai Tribes of the	Kathryn McDonald, THPO	406-675- 2700, ext. 1082	PO Box 278 Pablo, MT 59855	kathryn.mcdonald@cskt.org
Flathead Reservation	Tom McDonald Chairman	406-675-2700	PO Box 278 Pablo, MT 59855-0278	council@cskt.org

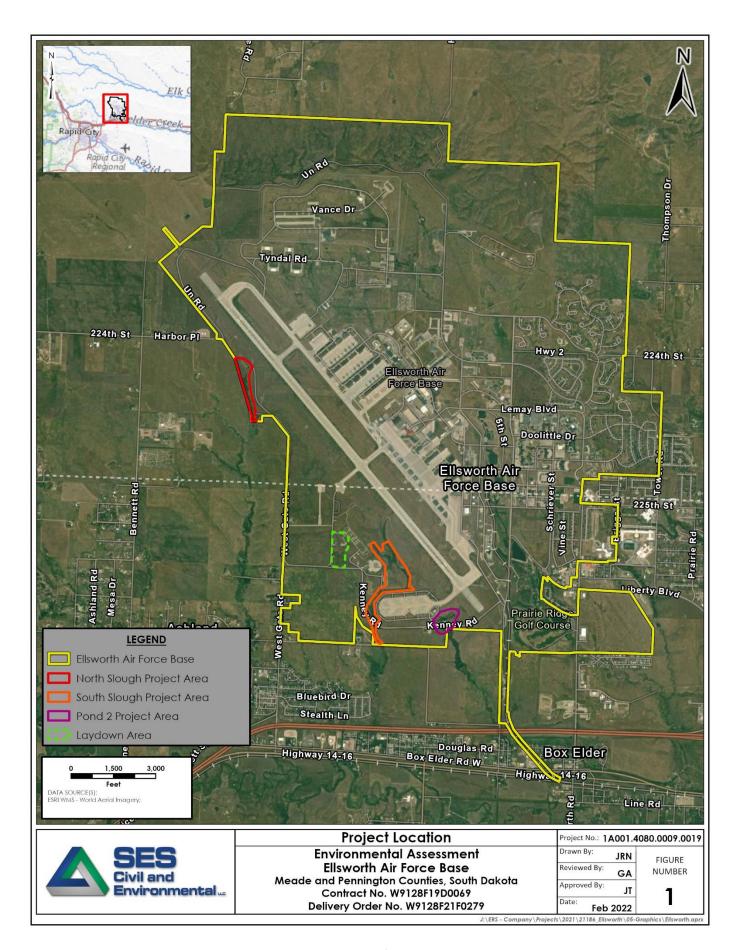
Tribal Governments				
Tribe	Name/Title	Phone	Address	E-Mail
	Lester Thompson Jr.,	605-245-2221	PO Box 50	
Crow Creek Sioux Tribe of	Chairperson		Fort Thompson, SD	
the Crow Creek Reservation,			57339-0050	
South Dakota	Merle Marks, THPO	605-245-2221	PO Box 50	cchistory@midstatesd.net
			Fort Thompson, SD	
	Aaron Brien, THPO	406-529-7991	57339 PO Box 159	aanan huian@anayy nan aay
	Aaron Brien, THPO	400-329-7991	Crow Agency, MT 59022	aaron.brien@crow-nsn.gov
Crow Tribe of Montana	AJ Not Afraid,	406-638-3715	PO Box 159	aj.notafraid@crow-nsn.gov
	Chairperson	400-030-3713	Crow Agency, MT 59022	aj.notarraid@crow-nsn.gov
	_	207 225 2001		
Eastern Shoshone Tribe of the Wind River Reservation,	Joshua Mann, THPO	307-335-2081	PO Box 538	jmann@easternshoshone.org
Wyoming Wyoming			Fort Washakie, WY 82514	
w youning	Garrie Kills-A-	605-864-1236	PO Box 283	garrie.killsahundred@FSST.org
	Hundred, THPO	003 001 1230	Flandreau, SD 57028	garre.kinsandrace C1551.org
Flandreau Santee Sioux	Anthony Reider,	605-997-3891	PO Box 283	president@fsst.org
Tribe of South Dakota	Chairperson		Flandreau, SD 57028-	
			0283	
Fort Belknap Indian	Michael Blackwolf,	406-353-2295	656 Agency Main Street	mblackwolf@ftbelknap.org
Community of the Fort	THPO		Harlem, MT 59526-9455	
Belknap Reservation of	Jeffery (Jeff) Stiffarm	406-353-2205	RR1, Box 66 Harlem,	jeffery.stiffarm@ftbelknap.org
Montana	President	500 654 2200	MT 59526-9455	1 101
Kiowa Indian Tribe of Oklahoma	Matthew Komalty, Chairman	508-654-2300	PO Box 369 Carnegie, OK 73015	tharris@kiowatribe.org
Lower Brule Sioux Tribe of	Clyde Estes,	605-473-5561	187 Oyate Circle	ClydeEstes@lowerbrule.net
the Lower Brule	Chairman	005-475-5501	Lower Brule, SD 57548-	CrydeLstes & lower bruie.net
Reservation, South Dakota	Chamman		8500	
Northern Cheyenne Tribe of	Serena Wetherelt	406-477-6284	PO Box 128 Lame Deer,	serena.wetherelt@cheyennenation.com
the Northern Cheyenne	Vice-President		MT 59043-0128	•
Indian Reservation,	Teanna Limpy, THPO	406-477-4839	PO Box 128 Lame Deer,	Teanna.Limpy@cheyennenation.com
Montana			MT 59043	
	Julian Bear Runner,	605-867-8487	PO Box 2070	president.bearrunner@oglala.org
Oglala Sioux Tribe	President		Pine Ridge, SD 57770-	
			2070	

Tribe	Name/Title	Phone	Address	E-Mail
11106	Thomas Brings,	605-867-5624	PO Box 129	t.brings@oglala.org
	THPO	003-007-3024	Kyle, SD 57752	t.ornigs@ogiaia.org
D T 1 (N) 1	Larry Wright, Chairman	402-857-3391	PO Box 288 Niobrara, NE 68760	
Ponca Tribe of Nebraska	Stacy Laravie, THPO	402-857-3519	PO Box 288 Niobrara, NE 68760	ssettje@poncatribe-ne.org
Rosebud Sioux Tribe of the	Scott O. Herman,	605-747-2381	PO Box 430	
Rosebud Indian Reservation,	President		Rosebud, SD 57570-0430	
-	Ione Quigley, THPO	605-747-4211	PO Box 809	ione.quigley@rst-nsn.gov
South Dakota			Rosebud, SD 57570	
Santee Sioux Nation,	Misty Frazier, THPO	402-857-3568	425 Frazier Ave. N. Suite 2	ssn.thpo@gmail.com
Nebraska			Niobrara, NE 68760	
Nebraska	Roger Trudell,	402-857-2772	108 Spirit Lake Ave. W	rtrudell@santeedakota.org
	Chairperson		Niobrara, NE 68760	
Signatur Wahnatan Ovata of	Verlyn Beaudreau,	605-698-3911	PO Box 509 Agency	chairman@swo-nsn.gov
Sisseton-Wahpeton Oyate of the Lake Traverse	Interim Chairperson		Village, SD 57262-0509	
Reservation, South Dakota	Dianne Desrosiers, THPO	605-698-3584	P.O. Box 907 Sisseton, SD 57262-0509	dianned@swo-nsn.gov
	Susie Fox, Interim	701-766-4031	P.O. Box 198 Fort	sfox@gondtc.com
Spirit Lake Tribe, North	Director THPO		Totten, ND 58335-0359	-
Dakota	Myra Pearson,	701-766-4221	PO Box 359 Fort Totten,	slt-adminsec@spiritlakenation.com
	Chairwoman		ND 58335-0359	
	Janet Alkire,	701-854-8500	PO Box D Fort Yates,	
Standing Rock Sioux Tribe of North & South Dakota	Chairperson		ND 58538-0522	
	Jon Eagle, THPO	701-854-8645	PO Box D	j.eagle@standingrock.org
			Fort Yates, ND 58538	
Yankton Sioux Tribe of	Kip Spotted Eagle, THPO	605-384-3641	PO Box 1153 Wagner, SD 57380	yst.thpo@gmail.com
South Dakota	Robert Hawk,	605-384-3641	PO Box 1153 Wagner,	robertflyinghawk@gmail.com
	Chairperson	ext. 1015	SD 57380-1153	

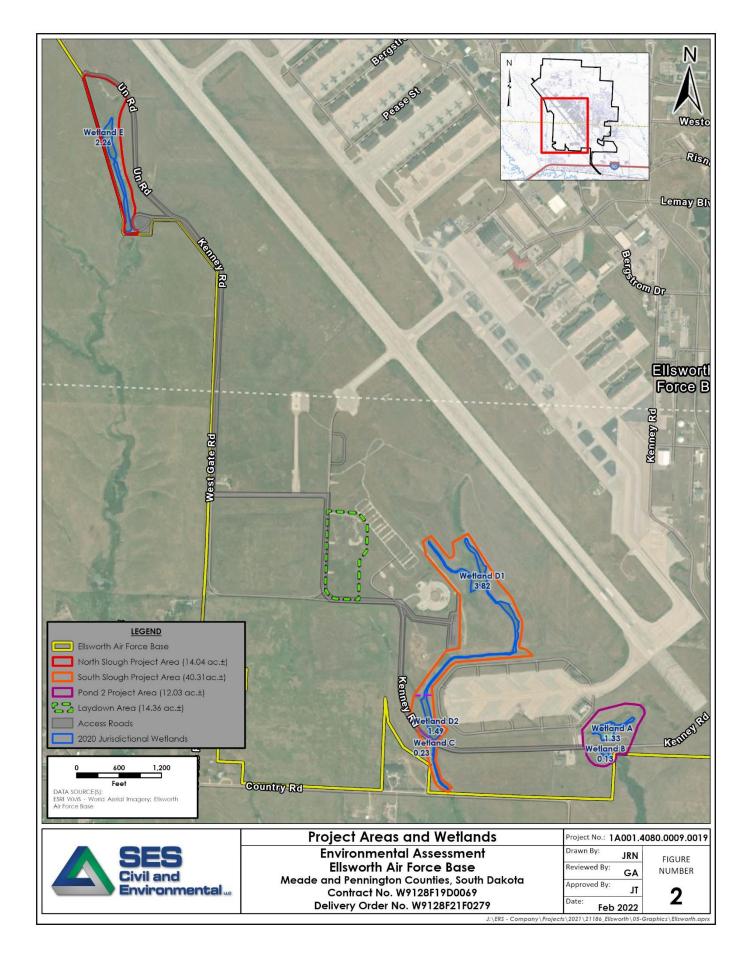
Appendix A-2 – EAFB Scoping Letters

EAFB Scoping Letter Agency Attachments

Attachment 1 – Figures



Page **2** of **8**



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Attachment 2 – IICEP Distribution List

United States Army Corp	s of Engineers (USACE)			
Name	Title	Phone	Address	E-Mail
USACE SD Regulatory		605-224-8531	28563 Powerhouse	SDRegulatoryMailbox@usace.army.mil
Office			Road, Pierre,	
			SD 57501	
United States Fish and W	<u>ildlife Service (USFWS), M</u>			
Name	Title	Phone	Address	E-Mail
Amity Bass	Field Supervisor,	(605) 224-8693	420 South Garfield	amity_bass@fws.gov
	North and South	ext 224	Avenue, Suite 400	
	Dakota Ecological		Pierre, SD 57501	
	Services			
Federal Emergency Mana	ngement Agency (FEMA)			
Name	Title	Phone	Address	E-Mail
			Denver Federal	
	Regional		Center, Building 710	
Lee DePalo	Administrator, Region	(303) 235-4812	P.O. Box 25267	
	8		Denver, CO 80255-	
			0267	
Cathy Bachhuber	Tribal Affairs, FEMA			Cathy.Bachhuber@fema.dhs.gov
•	Region 8			Cutify. Ductification & Terria. diffs. gov
<u>`</u>	Historic Preservation Offic	, · · · · · · · · · · · · · · · · · · ·		
Name	Title	Phone	Address	E-Mail
Katie Wasley	Northern Historic	605-773-2906	900 Governors Dr.	Katie.Wasley@state.sd.us
	Preservation Specialist		Pierre, SD 57501	
South Dakota Game, Fish	<u> </u>			
Name	Title	Phone	Address	E-Mail
Stan Michals	Energy and Minerals	Regional Office	4130 Adventure Trail	Stan.Michals@state.sd.us
	Coordinator	No. (605)394-	Rapid City, SD 57702	
		2391		
		Cell No.		
		(605)645-8881		
South Dakota Departmen	t of Agricultural and Natu	ral Resources (DA		
Name	Title	Phone	Address	E-Mail
Sean Kruger	Standards Team		Joe Foss Building,	Sean.Kruger@state.sd.us
Shannon Minerich	Standards Team	(605) 773-3351	523 East Capitol	shannon.minerich@state.sd.us
			Pierre, SD 57501	

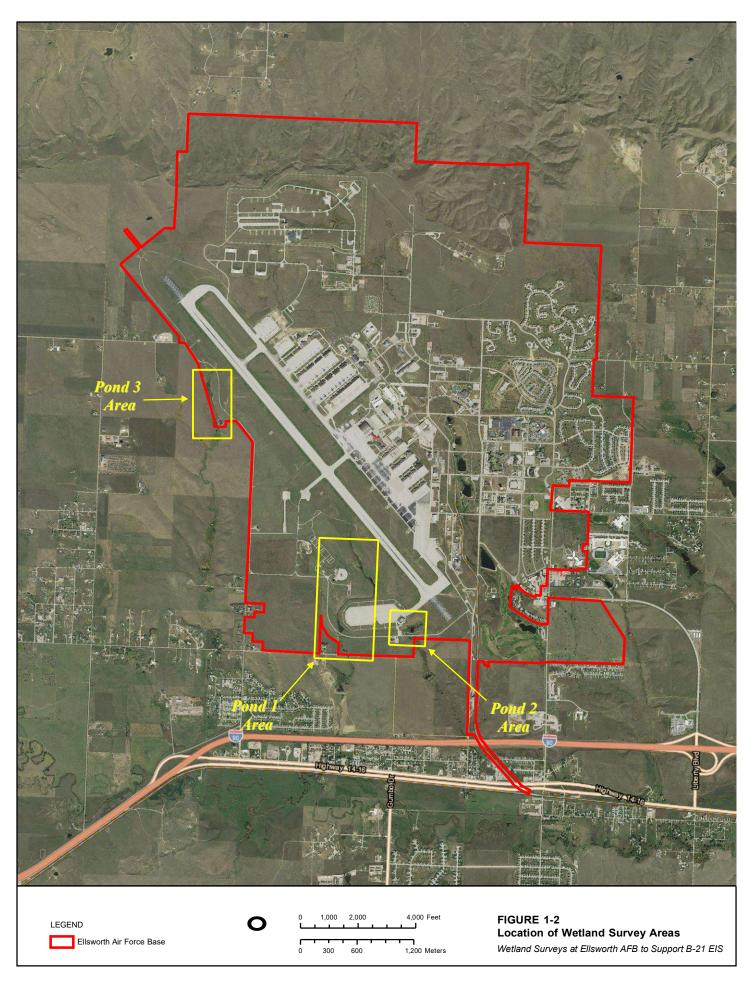
South Dakota Ellsworth Dev		·		
Name	Title	Phone	Address	E-Mail
Glen Kane	Managing Director	605-390-7290	14 St Joseph St, Rapid City, SD 57709	glen.kane@ellsworthauthority.org
Tribal Governments				
Tribe	Name/Title	Phone	Address	E-Mail
Apache Tribe of Oklahoma	Bobby Komardley, Chairman	405-247-9493	PO Box 1330 Anadarko, OK 73005	bkomardley@outlook.com
Arapaho Tribe of the Wind	Ben Ridgley, THPO	307-851-1254	PO Box 67 St. Stevens, WY 82524	benridgley007@gmail.com
River Reservation, Wyoming	Lee Spoonhunter, Chairperson	307-332-6120	PO Box 396 Fort Washakie, WY 82514-0396	lee.spoonhunter@northernarapaho.com
Assiniboine and Sioux Tribes of the Fort Peck	Dyan Youpee, THPO	406-768-2382	PO Box 1027 Poplar, MT 59255	d.youpee@fortpecktribes.net
Indian Reservation, Montana	Floyd Azure, Chairperson	406-768-2300	PO Box 1027 Poplar, MT 59255-1027	fazure@fortpecktribes.net
Cheyenne and Arapaho	Max Bear, THPO	405-422-7416	700 Black Kettle Blvd Concho, OK 73022	mbear@c-a-tribes.org
Tribes, Oklahoma	Reggie Wassana, Governor	800-422-8224	P.O. Box 38 Concho, OK 73022	rwassana@c-a-tribes.org
Cheyenne River Sioux Tribe	Steven Vance, THPO	605-964-7554	PO Box 590 Eagle Butte, SD57625	stevev.crstpres@outlook.com
of the Cheyenne River Reservation, South Dakota	Harold Frazier, Chairperson	605-964-4155	PO Box 590 Eagle Butte, SD57625- 0590	HaroldCFrazier@yahoo.com
Comanche Nation,	Mark Woommavovah, Chairperson	580-492-3240	PO Box 908 Lawton, OK 73502	jennifer.rodriguez@comanchenation.com
Oklahoma	Martina Minthorn, THPO	580-595-9618	6 SW D Avenue Lawton, OK 73502	martina.minthorn@comanchenation.com
Confederated Salish and Kootenai Tribes of the	Kathryn McDonald, THPO	406-675- 2700, ext. 1082	PO Box 278 Pablo, MT 59855	kathryn.mcdonald@cskt.org
Flathead Reservation	Tom McDonald Chairman	406-675-2700	PO Box 278 Pablo, MT 59855-0278	council@cskt.org

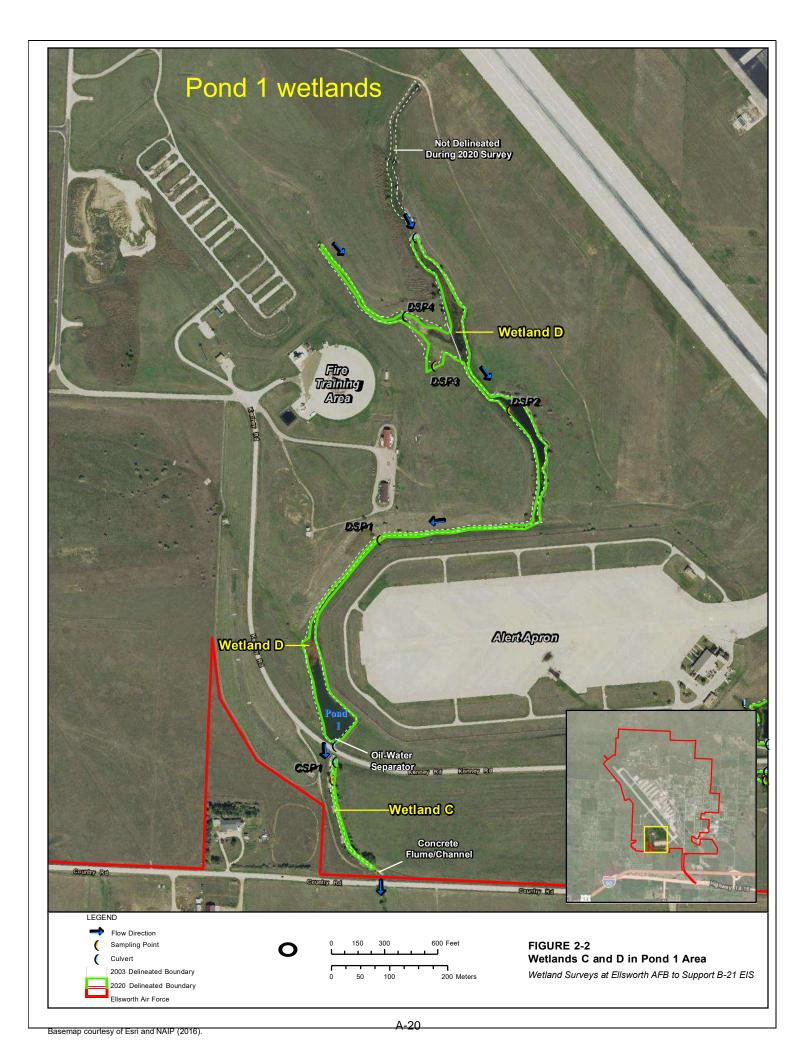
Tribal Governments Tribe	Name/Title	Phone	Address	E-Mail
11106	Lester Thompson Jr.,	605-245-2221	PO Box 50	L-Muii
Crow Creek Sioux Tribe of the Crow Creek Reservation,	Chairperson		Fort Thompson, SD 57339-0050	
South Dakota	Merle Marks, THPO	605-245-2221	PO Box 50 Fort Thompson, SD 57339	cchistory@midstatesd.net
	Aaron Brien, THPO	406-529-7991	PO Box 159 Crow Agency, MT 59022	aaron.brien@crow-nsn.gov
Crow Tribe of Montana	AJ Not Afraid, Chairperson	406-638-3715	PO Box 159 Crow Agency, MT 59022	aj.notafraid@crow-nsn.gov
Eastern Shoshone Tribe of the Wind River Reservation, Wyoming	Joshua Mann, THPO	307-335-2081	PO Box 538 Fort Washakie, WY 82514	jmann@easternshoshone.org
Flandreau Santee Sioux	Garrie Kills-A- Hundred, THPO	605-864-1236	PO Box 283 Flandreau, SD 57028	garrie.killsahundred@FSST.org
Tribe of South Dakota	Anthony Reider, Chairperson	605-997-3891	PO Box 283 Flandreau, SD 57028- 0283	president@fsst.org
Fort Belknap Indian Community of the Fort	Michael Blackwolf, THPO	406-353-2295	656 Agency Main Street Harlem, MT 59526-9455	mblackwolf@ftbelknap.org
Belknap Reservation of Montana	Jeffery (Jeff) Stiffarm President	406-353-2205	RR1, Box 66 Harlem, MT 59526-9455	jeffery.stiffarm@ftbelknap.org
Kiowa Indian Tribe of Oklahoma	Matthew Komalty, Chairman	508-654-2300	PO Box 369 Carnegie, OK 73015	tharris@kiowatribe.org
Lower Brule Sioux Tribe of the Lower Brule Reservation, South Dakota	Clyde Estes, Chairman	605-473-5561	187 Oyate Circle Lower Brule, SD 57548- 8500	ClydeEstes@lowerbrule.net
Northern Cheyenne Tribe of the Northern Cheyenne	Serena Wetherelt Vice-President	406-477-6284	PO Box 128 Lame Deer, MT 59043-0128	serena.wetherelt@cheyennenation.com
Indian Reservation, Montana	Teanna Limpy, THPO	406-477-4839	PO Box 128 Lame Deer, MT 59043	Teanna.Limpy@cheyennenation.com
Oglala Sioux Tribe	Julian Bear Runner, President	605-867-8487	PO Box 2070 Pine Ridge, SD 57770- 2070	president.bearrunner@oglala.org

Tribal Governments Tribe	Name/Title	Phone	Address	E-Mail
21100	Thomas Brings,	605-867-5624	PO Box 129	t.brings@oglala.org
	THPO	003 007 3021	Kyle, SD 57752	t.ormgo c ogiana.org
	Larry Wright,	402.057.2201	PO Box 288 Niobrara,	
Daniel Telle of Nelsonsky	Chairman	402-857-3391	NE 68760	
Ponca Tribe of Nebraska	Stacy Laravie, THPO	402-857-3519	PO Box 288 Niobrara,	ssattia@nanaatuiha na aug
	Stacy Laravie, THFO		NE 68760	ssettje@poncatribe-ne.org
Rosebud Sioux Tribe of the	Scott O. Herman,	605-747-2381	PO Box 430	
Rosebud Indian Reservation,	President		Rosebud, SD 57570-0430	
South Dakota	Ione Quigley, THPO	605-747-4211	PO Box 809	ione.quigley@rst-nsn.gov
South Dakota			Rosebud, SD 57570	
	Misty Frazier, THPO	402-857-3568	425 Frazier Ave. N. Suite	ssn.thpo@gmail.com
Santee Sioux Nation,			2	
Nebraska			Niobrara, NE 68760	
Ttooraska	Roger Trudell,	402-857-2772	108 Spirit Lake Ave. W	rtrudell@santeedakota.org
	Chairperson		Niobrara, NE 68760	
Sisseton-Wahpeton Oyate of	Verlyn Beaudreau,	605-698-3911	PO Box 509 Agency	chairman@swo-nsn.gov
the Lake Traverse	Interim Chairperson		Village, SD 57262-0509	
Reservation, South Dakota	Dianne Desrosiers,	605-698-3584	P.O. Box 907 Sisseton,	dianned@swo-nsn.gov
Reservation, South Bakota	THPO		SD 57262-0509	
	Susie Fox, Interim	701-766-4031	P.O. Box 198 Fort	sfox@gondtc.com
Spirit Lake Tribe, North	Director THPO		Totten, ND 58335-0359	
Dakota	Myra Pearson,	701-766-4221	PO Box 359 Fort Totten,	slt-adminsec@spiritlakenation.com
	Chairwoman		ND 58335-0359	
	Janet Alkire,	701-854-8500	PO Box D Fort Yates,	
Standing Rock Sioux Tribe of North & South Dakota	Chairperson		ND 58538-0522	
	Jon Eagle, THPO	701-854-8645	PO Box D	j.eagle@standingrock.org
			Fort Yates, ND 58538	
	Kip Spotted Eagle,	605-384-3641	PO Box 1153 Wagner,	yst.thpo@gmail.com
Yankton Sioux Tribe of	THPO		SD 57380	
South Dakota	Robert Hawk,	605-384-3641	PO Box 1153 Wagner,	robertflyinghawk@gmail.com
	Chairperson	ext. 1015	SD 57380-1153	

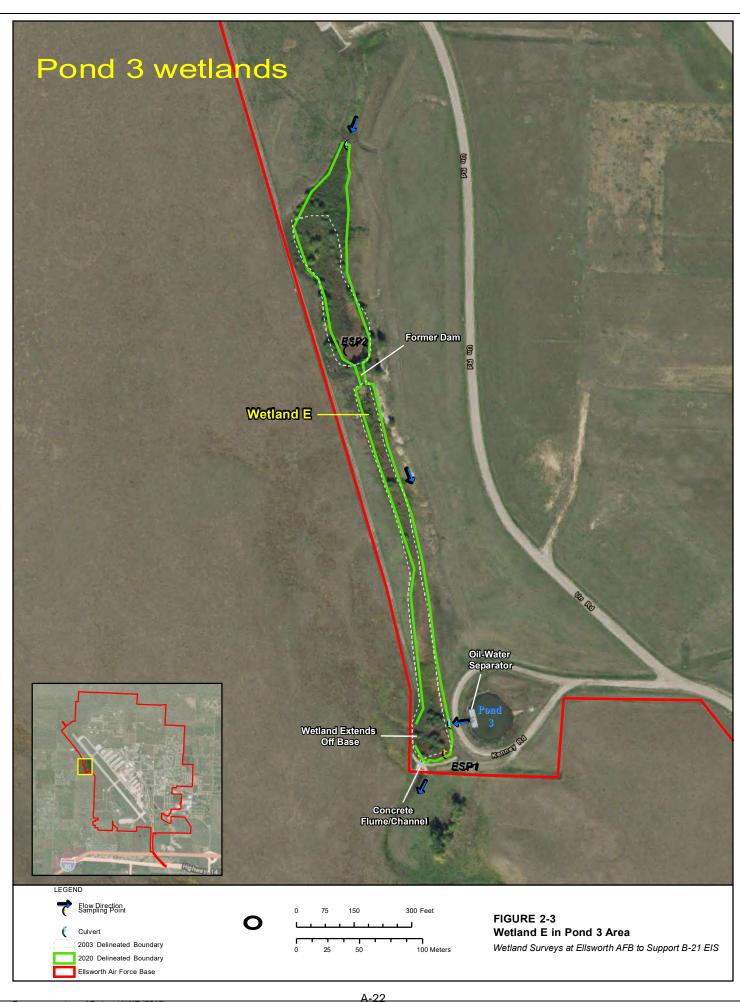
EAFB Scoping Letter Tribal Government Attachments

Attachment 1 – Map of Project Areas and Proposed APE









Attachment 2 – IICEP Distribution List

United States Army Corp	os of Engineers (USACE)			
Name	Title	Phone	Address	E-Mail
USACE SD Regulatory		605-224-8531	28563 Powerhouse	SDRegulatoryMailbox@usace.army.mil
Office			Road, Pierre,	
			SD 57501	
United States Fish and W	'ildlife Service (USFWS), N	Iountain Prairie R	egion	
Name	Title	Phone	Address	E-Mail
Amity Bass	Field Supervisor,	(605) 224-8693	420 South Garfield	amity_bass@fws.gov
	North and South	ext 224	Avenue, Suite 400	
	Dakota Ecological		Pierre, SD 57501	
	Services			
Federal Emergency Mana	agement Agency (FEMA)			
Name	Title	Phone	Address	E-Mail
			Denver Federal	
	Regional		Center, Building 710	
Lee DePalo	Administrator, Region	(303) 235-4812	P.O. Box 25267	
	8		Denver, CO 80255-	
			0267	
Cathy Bachhuber	Tribal Affairs, FEMA			Cathy.Bachhuber@fema.dhs.gov
•	Region 8			Cathy.Bachhuber@fema.dns.gov
South Dakota (SD) State 1	Historic Preservation Offic	ce (SHPO)		
Name	Title	Phone	Address	E-Mail
Katie Wasley	Northern Historic	605-773-2906	900 Governors Dr.	Katie.Wasley@state.sd.us
	Preservation Specialist		Pierre, SD 57501	
South Dakota Game, Fish	n, and Parks (SDGFP)			
Name	Title	Phone	Address	E-Mail
Stan Michals	Energy and Minerals	Regional Office	4130 Adventure Trail	Stan.Michals@state.sd.us
	Coordinator	No. (605)394-	Rapid City, SD 57702	
		2391		
		Cell No.		
		(605)645-8881		
South Dakota Departmen	t of Agricultural and Natu	ral Resources (DA	NR)	
Name	Title	Phone	Address	E-Mail
Sean Kruger	Standards Team		Joe Foss Building,	Sean.Kruger@state.sd.us
Shannon Minerich	Standards Team	(605) 773-3351	523 East Capitol	shannon.minerich@state.sd.us
			Pierre, SD 57501	

South Dakota Ellsworth Dev		·	1	
Name	Title	Phone	Address	E-Mail
Glen Kane	Managing Director	605-390-7290	14 St Joseph St, Rapid City, SD 57709	glen.kane@ellsworthauthority.org
Tribal Governments				
Tribe	Name/Title	Phone	Address	E-Mail
Apache Tribe of Oklahoma	Bobby Komardley, Chairman	405-247-9493	PO Box 1330 Anadarko, OK 73005	bkomardley@outlook.com
Arapaho Tribe of the Wind	Ben Ridgley, THPO	307-851-1254	PO Box 67 St. Stevens, WY 82524	benridgley007@gmail.com
River Reservation, Wyoming	Lee Spoonhunter, Chairperson	307-332-6120	PO Box 396 Fort Washakie, WY 82514-0396	lee.spoonhunter@northernarapaho.com
Assiniboine and Sioux Tribes of the Fort Peck	Dyan Youpee, THPO	406-768-2382	PO Box 1027 Poplar, MT 59255	d.youpee@fortpecktribes.net
Indian Reservation, Montana	Floyd Azure, Chairperson	406-768-2300	PO Box 1027 Poplar, MT 59255-1027	fazure@fortpecktribes.net
Cheyenne and Arapaho	Max Bear, THPO	405-422-7416	700 Black Kettle Blvd Concho, OK 73022	mbear@c-a-tribes.org
Tribes, Oklahoma	Reggie Wassana, Governor	800-422-8224	P.O. Box 38 Concho, OK 73022	rwassana@c-a-tribes.org
Cheyenne River Sioux Tribe	Steven Vance, THPO	605-964-7554	PO Box 590 Eagle Butte, SD57625	stevev.crstpres@outlook.com
of the Cheyenne River Reservation, South Dakota	Harold Frazier, Chairperson	605-964-4155	PO Box 590 Eagle Butte, SD57625- 0590	HaroldCFrazier@yahoo.com
Comanche Nation,	Mark Woommavovah, Chairperson	580-492-3240	PO Box 908 Lawton, OK 73502	jennifer.rodriguez@comanchenation.com
Oklahoma	Martina Minthorn, THPO	580-595-9618	6 SW D Avenue Lawton, OK 73502	martina.minthorn@comanchenation.com
Confederated Salish and Kootenai Tribes of the	Kathryn McDonald, THPO	406-675- 2700, ext. 1082	PO Box 278 Pablo, MT 59855	kathryn.mcdonald@cskt.org
Flathead Reservation	Tom McDonald Chairman	406-675-2700	PO Box 278 Pablo, MT 59855-0278	council@cskt.org

Tribal Governments	1	I		
Tribe	Name/Title	Phone	Address	E-Mail
Crow Creek Sioux Tribe of	Lester Thompson Jr., Chairperson	605-245-2221	PO Box 50 Fort Thompson, SD 57339-0050	
the Crow Creek Reservation, South Dakota	Merle Marks, THPO	605-245-2221	PO Box 50 Fort Thompson, SD 57339	cchistory@midstatesd.net
a	Aaron Brien, THPO	406-529-7991	PO Box 159 Crow Agency, MT 59022	aaron.brien@crow-nsn.gov
Crow Tribe of Montana	AJ Not Afraid, Chairperson	406-638-3715	PO Box 159 Crow Agency, MT 59022	aj.notafraid@crow-nsn.gov
Eastern Shoshone Tribe of the Wind River Reservation, Wyoming	Joshua Mann, THPO	307-335-2081	PO Box 538 Fort Washakie, WY 82514	jmann@easternshoshone.org
Flandreau Santee Sioux	Garrie Kills-A- Hundred, THPO	605-864-1236	PO Box 283 Flandreau, SD 57028	garrie.killsahundred@FSST.org
Tribe of South Dakota	Anthony Reider, Chairperson	605-997-3891	PO Box 283 Flandreau, SD 57028- 0283	president@fsst.org
Fort Belknap Indian Community of the Fort	Michael Blackwolf, THPO	406-353-2295	656 Agency Main Street Harlem, MT 59526-9455	mblackwolf@ftbelknap.org
Belknap Reservation of Montana	Jeffery (Jeff) Stiffarm President	406-353-2205	RR1, Box 66 Harlem, MT 59526-9455	jeffery.stiffarm@ftbelknap.org
Kiowa Indian Tribe of Oklahoma	Matthew Komalty, Chairman	508-654-2300	PO Box 369 Carnegie, OK 73015	tharris@kiowatribe.org
Lower Brule Sioux Tribe of the Lower Brule Reservation, South Dakota	Clyde Estes, Chairman	605-473-5561	187 Oyate Circle Lower Brule, SD 57548- 8500	ClydeEstes@lowerbrule.net
Northern Cheyenne Tribe of the Northern Cheyenne	Serena Wetherelt Vice-President	406-477-6284	PO Box 128 Lame Deer, MT 59043-0128	serena.wetherelt@cheyennenation.com
Indian Reservation, Montana	Teanna Limpy, THPO	406-477-4839	PO Box 128 Lame Deer, MT 59043	Teanna.Limpy@cheyennenation.com
Oglala Sioux Tribe	Julian Bear Runner, President	605-867-8487	PO Box 2070 Pine Ridge, SD 57770- 2070	president.bearrunner@oglala.org

Tribe	Name/Title	Phone	Address	E-Mail
	Thomas Brings, THPO	605-867-5624	PO Box 129 Kyle, SD 57752	t.brings@oglala.org
Ponca Tribe of Nebraska	Larry Wright, Chairman	402-857-3391	PO Box 288 Niobrara, NE 68760	
Ponca Tribe of Nebraska	Stacy Laravie, THPO	402-857-3519	PO Box 288 Niobrara, NE 68760	ssettje@poncatribe-ne.org
Rosebud Sioux Tribe of the Rosebud Indian Reservation,	Scott O. Herman, President	605-747-2381	PO Box 430 Rosebud, SD 57570-0430	
South Dakota	Ione Quigley, THPO	605-747-4211	PO Box 809 Rosebud, SD 57570	ione.quigley@rst-nsn.gov
Santee Sioux Nation,	Misty Frazier, THPO	402-857-3568	425 Frazier Ave. N. Suite 2 Niobrara, NE 68760	ssn.thpo@gmail.com
Nebraska	Roger Trudell, Chairperson	402-857-2772	108 Spirit Lake Ave. W Niobrara, NE 68760	rtrudell@santeedakota.org
Sisseton-Wahpeton Oyate of the Lake Traverse	Verlyn Beaudreau, Interim Chairperson	605-698-3911	PO Box 509 Agency Village, SD 57262-0509	chairman@swo-nsn.gov
Reservation, South Dakota	Dianne Desrosiers, THPO	605-698-3584	P.O. Box 907 Sisseton, SD 57262-0509	dianned@swo-nsn.gov
Spirit Lake Tribe, North	Susie Fox, Interim Director THPO	701-766-4031	P.O. Box 198 Fort Totten, ND 58335-0359	sfox@gondtc.com
Dakota	Myra Pearson, Chairwoman	701-766-4221	PO Box 359 Fort Totten, ND 58335-0359	slt-adminsec@spiritlakenation.com
Standing Rock Sioux Tribe of North & South Dakota	Janet Alkire, Chairperson	701-854-8500	PO Box D Fort Yates, ND 58538-0522	
	Jon Eagle, THPO	701-854-8645	PO Box D Fort Yates, ND 58538	j.eagle@standingrock.org
Yankton Sioux Tribe of	Kip Spotted Eagle, THPO	605-384-3641	PO Box 1153 Wagner, SD 57380	yst.thpo@gmail.com
South Dakota	Robert Hawk, Chairperson	605-384-3641 ext. 1015	PO Box 1153 Wagner, SD 57380-1153	robertflyinghawk@gmail.com

EAFB Scoping Letter – Section 106



DEPARTMENT OF THE AIR FORCE HEADQUARTERS 28TH BOMB WING (AFGSC) ELLSWORTH AIR FORCE BASE SOUTH DAKOTA



Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Katie Wasley South Dakota State Historic Preservation Office (SHPO) Northern Historic Preservation Specialist 900 Governors Drive Pierre SD 57501

Dear Ms. Wasley

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

In accordance with Section 106 of the National Historic Preservation Act (NHPA) and its implementing regulations (36 CFR Part 800), we have provided project information for your review and concurrence regarding the above-referenced project via consultation letter dated 6 June 2022. The Section 106 Project Review Form is provided in Attachment 1.

EAFB has determined that this project will not impact current or potential historic properties, and has made a preliminary Finding of "No Historic Properties Affected" pursuant to the NHPA based on the following:

- 1. EAFB Integrated Cultural Resource Management Plan (updated 2021): Pedestrian survey and soil auger testing of potential culturally significant sites within EAFB did not yield findings within EAFB BASH EA defined APEs.
- 2. EAFB has 21 National Register of Historic Places eligible buildings, however none are located within the APEs.

Please see the attached Interagency and Intergovernmental Coordination for Environmental Planning (IICEP) Distribution List (Attachment 2)

Attached for your review are copies of relevant documents supporting our finding. This documentation satisfies requirements set forth at 36 CFR §800.11(d). In accordance with §800.4(d)(1)(i), your office has thirty days to object to this finding. Please respond within this timeframe, otherwise we will assume that you concur with our finding. If you concur, please sign on the line below and return a copy of this letter to Greg Johnson, Environmental Compliance Chief, 2125 Scott Dr., Ellsworth AFB, SD 57706.

Please provide any further information, comments, or questions to Ellsworth Air Force Base, Attn: Mr. Greg Johnson, Environmental Compliance Chief, 2125 Scott Dr., Ellsworth AFB, SD 57706; or by email at gregory.johnson.8@us.af.mil, with the subject titled as ATTN: EAFB BASH EA. Thank you for your assistance.

Sincerely

SHEFFIELD.JOSE Digitally signed by SHEFFIELD.JOSEPH.L.11581800 PH.L.1158180096 Date: 2022.08.16 11:25:26 -06'00' JOSEPH L. SHEFFIELD, Colonel USAF Commander

- 2 Attachments:
- 1. Section 106 Project Review Form
- 2. Interagency and Intergovernmental Coordination for Environmental Planning (IICEP) Distribution List

Concurrence:

Ms. Katie Wasley South Dakota State Historic Preservation Office Northern Historic Preservation Specialist

Attachment 1 – Section 106 Project Review Form



SOUTH DAKOTA STATE HISTORICAL SOCIETY STATE HISTORIC PRESERVATION OFFICE (SHPO) SECTION 106 PROJECT REVIEW FORM

Submission of a completed Section 106 Project Review Form with adequate information and attachments constitutes a request for review pursuant to Section 106 of the National Historic Preservation Act of 1966 (as amended). Section 106 requires the South Dakota State Historic Preservation Office to review all projects that are federally funded, licensed, or assisted. We reserve the right to request more information if needed. Typed forms are preferred. **SUBMITTAL OF THIS FORM WITHOUT ALL REQUESTED INFORMATION WILL CAUSE REVIEW DELAYS.**

Section 106 regulations provide for a 30-day response time by the South Dakota State Historic Preservation Office from the date of receipt of complete information.

For projects requiring a license from the Federal Communications Commission, please use FCC Forms 620 or 621. **DO NOT USE THIS FORM.**

SD SHPO SECTION 106 PROJECT REVIEW FORM

2. FEDERAL AGENCY FUNDING, LICENSING, OR ASSISTING THE PROJECT					
A. AGENCY NAME:		Department of the Air Force, Ellsworth AFB			
B. AGENCY CONTACT PERSON:		Gary Brundige			
C. MAILING	ADDRESS: _	2125 Scott Dr, Ellswort	h AFB, SD 57706	6	
D. EMAIL ADDRESS:		gary.brundige@us.af.mil			
E. TELEPHON	E NUMBER: _	605-385-2690			
A. AGE	NCY NAME: _	NSING, OR ASSISTING	•		
B. AGENCY CONTACT PERSON:					
C. MAILING ADDRESS:					
D. EMAIL ADDRESS:					
E. TELEPHON F. IF THIS I PROGRAM, PLEAS THE NAME OF THE (FOR EXAMPLE	IS A GRANT SE INCLUDE PROGRAM				
4. CONSULTANT CONTACT PERSON, IF APPLICABLE					
C. MAILING ADDRESS:					
D. EMAIL ADDRESS: E. TELEPHONE NUMBER:					
E. TELEPHON	E NUMBER:				
5. PROJECT LOCATION A. ADDRESS: B. CITY: C. COUNTY:	South and we	est of the EAFB runway B	along of Kenny		
D. TOWNSHIP:	T2N	E. RANGE	R8E	F. SECTION S11, 13	
G. Provide a USGS 7.5 minute quadrangle map of the project area. If the project is in an urban area, show the location(s) on a city map. Photocopies are acceptable, but poor quality maps or insufficient information will cause review delays. Do not enlarge or reduce the map. Is a map showing the exact location of the project attached to this form? YES ☑ or NO ☐					
is a map showing the exact location of the project attached to this form: TEO [7] Of MO					

SD SHPO SECTION 106 PROJECT REVIEW FORM

6. PROJECT DESCRIPTION Describe all anticipated work associated with the project. Be specific. The description should include all ancillary facilities such as access roads, placement of utilities, additional outbuildings, fences, material borrow areas, staging areas, etc. Use as much space and as many pages as needed to clearly describe the project.
This Environmental Assessment (EA) evaluates a project that will modify wetland wildlife habitat presenting a
Bird/Wildlife Aircraft Strike Hazard (BASH) adjacent to the primary runway at Ellsworth Air Force Base, SD.
(Continued on Page 8)
7. PROJECT PLANS Plans drawings engineering specifications etc. should be included to help explain the project, but these cappet
Plans, drawings, engineering specifications etc. should be included to help explain the project, but these cannot replace the above verbal description. If new construction is involved, elevation drawings and plans should be included.
Are plans, drawings, engineering specifications, or similar documents attached to this form?
YES ☐ or NO ☒
8. PHOTOGRAPHS Provide several clear, original photographs of the project location. Also, include photographs of every affected buildings/structures, including an overall front view of each structure and other views necessary to describe fully the structures and the project. Streetscape photographs of surrounding buildings and structures should also be included. Photographs should be color and can be either printed or digital images submitted on a CD. Printed digital photographs should have a high dpi and clear resolution. Photographs should also either be labeled or include a key.
NOTE: Projects submitted with insufficient photographs will cause review delays.
Are photographs that clearly show the project location attached to this form? YES 🖂 or NO 🗌
9. PROJECT AREA OF POTENTIAL EFFECT (APE) The APE consists of the geographic area or areas within which a project may directly or indirectly, cause changes in the character or use of historic properties. In most instances, the APE is not simply the project's physical boundaries or right-of-way. The APE also includes all ancillary facilities such as access roads, placement of utilities, additional outbuildings, fences, material borrow areas, staging areas, etc. The APE may include visual and audible effects. Highlight the APE on a localized map.
A. Is a map highlighting the APE attached to this form? YES 🖂 or NO 🗌
B. Provide a written description of the APE. Describe the steps taken to identify the APE, and justify why the APE boundaries were chosen. If the APE has been previously disturbed, include an explanation of the previous ground disturbance.

SD SHPO SECTION 106 PROJECT REVIEW FORM II. IDENTIFY HISTORIC PROPERTIES 10. IDENTIFICATION EFFORTS (See 36 CFR 800.4) Identification of historic properties may include, but is not limited, any of the following identification methods. Check which steps were taken to identify historic properties in the APE. Check all that apply and describe the results. A. | RECORD SEARCH Conducted a record search through the Archaeological Research Center in Rapid City. Record searches are available for a fee by calling 605.394.1936. This will include a search of all previously-surveyed archaeological sites and structures within the APE and within one mile of the APE. If a record search was conducted, is a copy of the results attached to this form? YES or NO B. ON-THE-GROUND SURVEY Survey by an archaeologist and/or an architectural historian of project area not previously surveyed. Survey type will depend on the scope of the project. A list of professionals is available at http://history.sd.gov/Preservation/TechAssist/ConsultantsContractors.aspx. Guidelines for surveys and reports are available at: http://history.sd.gov/Preservation/PresLaws/r&c_guidelines.pdf and http://history.sd.gov/Preservation/OtherServices/HSArchitecturalSurveyManual2006.pdf. If a survey was conducted, is a copy of the survey report and/or survey forms attached to this form? YES or NO C. | SEARCHED THE NATIONAL REGISTER OF HISTORIC PLACES DATABASE This database is available online at: http://nrhp.focus.nps.gov/. NOTE: This database only includes properties listed on the National Register of Historic Places. Properties that are eligible for the National Register must also be taken into consideration. If the National Register database was searched, is a printout of any results attached to this form? YES ☐ or NO ☐ D. BACKGROUND RESEARCH Please describe sources reviewed and findings of research. This could include such things as reviewing county or city history books or conducting research at a local historical society, research facility, or county courthouse. E. ORAL HISTORY INTERVIEWS Please list who was interviewed and describe what was learned through the interviews.

F. CONSULTATION Please describe who was consulted and the results of the consultation. Examples include tribes, historic preservation commissions, the public, and local historical societies. G. X OTHER Describe any other efforts undertaken to identify historic properties and the results of those efforts. Historic properties on Ellsworth AFB have been identified through a number of surveys and consultation with SD SHPO. Twenty-one properties on EAFB have been identified as eligible for inclusion on the NRHP. Three of these properties are scheduled for demolition under this action. 11. HISTORIC PROPERTIES FINDING Based on the efforts described above to identify historic properties, please choose one finding for the project. There are (mark one): Historic Properties Present in the APE No Historic Properties Present in the APE III. ASSESS EFFECTS 12. DETERMINATION OF EFFECT The federal agency must submit a determination of effect for the SHPO to review this project. Based on the information provided above, the responsible agency official should make a determination of effect on historic properties for this project. Please select and mark one of the following determinations, then explain the basis for your decision. No Historic Properties Affected [36 CFR 800.4(d)(1)] – For a determination of no historic properties affected, the agency official finds no historic properties present or that the undertaking will have no effect upon historic properties as defined in Sec. 800.16(i). Please explain. No Historic Properties located in the APE. Adverse Effect [36 CFR Part 800.5(a)(1)] – For a determination of adverse effect, the undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. Adverse effects may include reasonably foreseeable effects that may occur later in time, be farther removed in distance, or be cumulative. Please explain.

SD SHPO SECTION 106 PROJECT REVIEW FORM

SD SHPO SECTION 106 PROJECT REVIEW FORM

No Adverse Effect [36 CRF Part 800.5(b)] – For a determination of no adverse effect, the undertaking is modified or conditions are imposed to avoid adverse effects to a historic property. Please explain.

Please print and mail completed form to:

Review and Compliance Coordinator South Dakota State Historical Society 900 Governors Drive Pierre, SD 57501

Questions about Section 106 can be directed to:

Paige Olson OR
Review and Compliance Coordinator
Paige.Olson@state.sd.us
605.773.6004

Jenna Carlson Dietmeier
Review and Compliance Archaeologist
Jenna.CarlsonDietmeier@state.sd.us
605.773.8370

Questions about Section 106 projects on existing buildings or structures can be directed to:

Kate Nelson Restoration Specialist Kate.Nelson@state.sd.us 605.773.6005

Project information submitted cannot be returned. This documentation is kept on file at the South Dakota State Historical Society. We review faxed and electronic submissions in the same manner as any other submission and with the same considerations for clarity and completeness. However, original documents with original signature must follow all faxed and electronic submissions. The submission of incomplete, unclear, or confusing information may result in unnecessary delays in the review process until adequate information is obtained.

Updated May 2017

Additional Resources

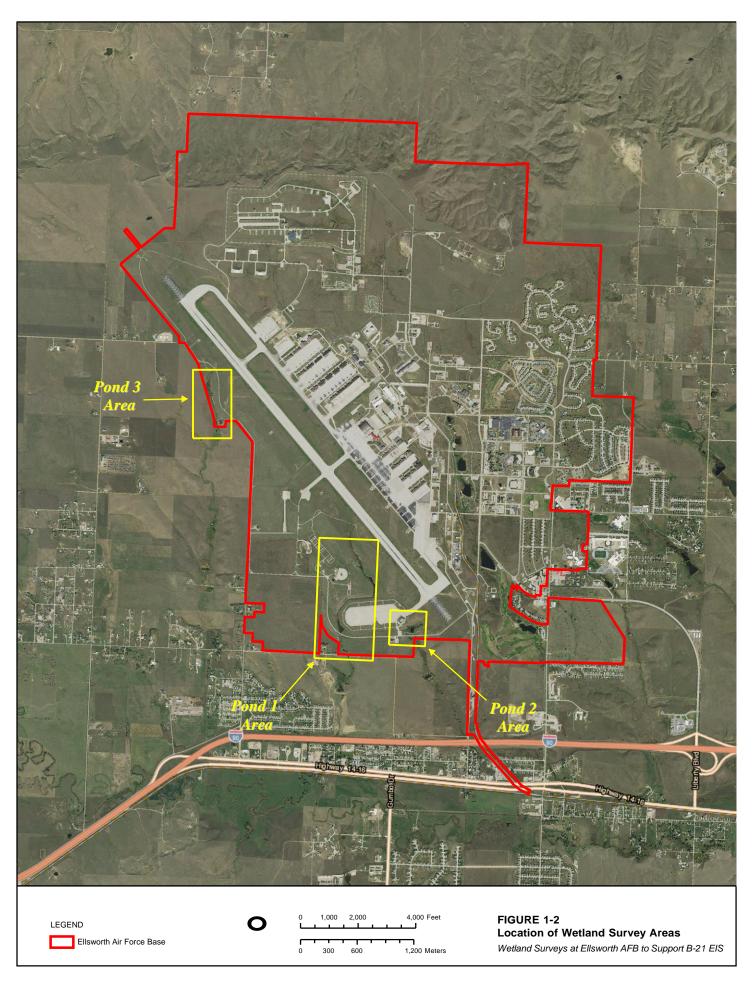
- 1. South Dakota State Historic Preservation Office http://history.sd.gov/Preservation/
 - a. Link to National and State Register Listed Properties: http://history.sd.gov/Preservation/NatReg/NatReg.aspx
 - b. Historic Contexts: history.sd.gov/Preservation/OtherServices/SHPODocs.aspx
 - c. Guidelines for Cultural Resource Surveys and Survey Reports 2005: http://history.sd.gov/Preservation/PresLaws/r&c_guidelines.pdf
- 2. Advisory Council on Historic Preservation: www.achp.gov
 - a. Link to National Historic Preservation Act of 1966 as amended
 - b. 36 CFR Part 800 Protection of Historic Properties
- National Park Service: <u>www.nps.gov/</u>
 - a. National Register of Historic Places: www.nps.gov/nr/
 - b. Publications (National Register Bulletins, Preservation Briefs, etc.): www.nps.gov/history/publications.htm
- 4. Archaeological Research Center: history.sd.gov/Archaeology/ or 605.394.1936
 - a. Record Search Information
- 5. State Archives: history.sd.gov/Archives/ or 605.773.3804
 - a. Historic photographs
 - b. Research material

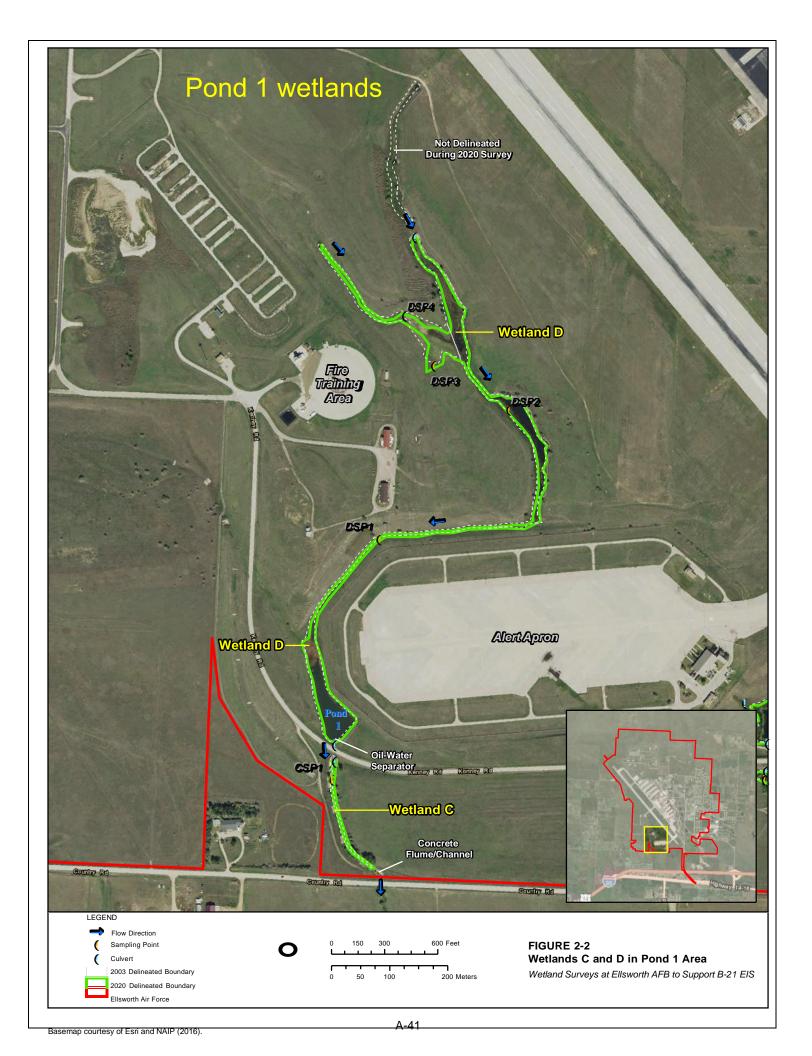
SD SHPO SECTION 106 PROJECT REVIEW FORM

Continued #6

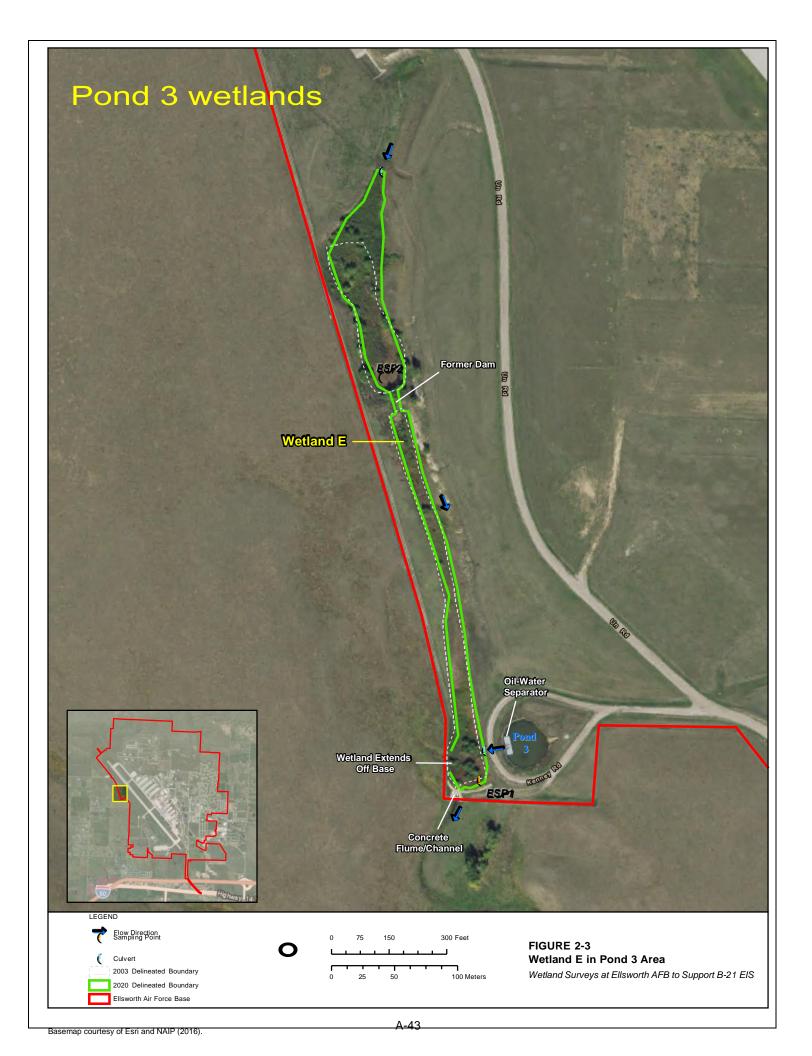
The EA shall provide sufficient information to analyze potential environmental impacts associated with creating positive drainage of water through three drainage systems (hereafter referred to as Pond 1 wetlands, Pond 2 wetlands, and Pond 3 wetlands) adjacent to the Ellsworth AFB primary instrument, Runway 13-31 (see Bash Reduction Project Areas map). The North Slough runs approximately 2,000 ft adjacent to the west perimeter fence beginning at the existing storm pipe outlet across from Taxiway F and running to Outfall 3 (See Pond 3 wetland map). The south slough project area is approximately 4,000 ft beginning at the programmed drainage improvement project completion point (approximately 1,000 ft from the existing storm pipe outlet on the southwest side of the runway) through Pond 1 (see Pond 1 wetland map). The Pond 2 drainage runs approximately 550 ft from the storm pipe outlet in the south Clear Zone of runway 13-31 through Pond 2 to the outlet structure (see Pond 2 wetland map). This work is needed to remove areas of ponding water, hydrophytic vegetation, and wetlands habitats in the drainage attractive to wildlife and representing Bird/Aircraft Strike Hazards (BASH). The EA shall analyze proposed methods of construction and alternate methods. Methods of conveyance of the water include installation of storm sewer pipe, concrete channels, regraded turf reinforced vegetated channel, cable concrete protected channel, or combinations of all these methods. Analysis will include possible enlargement of the Pond 1 to increase storage capacity and replacement of Pond 1 outlet structure. A wetland delineation and Jurisdictional determination were completed in 2020. The North Slough contains 2.26 acres of Jurisdictional Wetlands, the South Slough contains 5.54 acres of Jurisdictional Wetlands, and Pond 2 contains 1.43 acres of Jurisdictional Wetlands. See attached four (4) wetland maps and supporting government furnished documents for additional details on scope of the proposal.

Updated May 2017









Attachment 2 – IICEP Distribution List

United States Army Corp		1		
Name	Title	Phone	Address	E-Mail
USACE SD Regulatory		605-224-8531	28563 Powerhouse	SDRegulatoryMailbox@usace.army.mil
Office			Road, Pierre, SD	
			57501	
United States Fish and W	<mark>'ildlife Service (USFWS), M</mark>	<u> Iountain Prairie R</u>	egion	
Name	Title	Phone	Address	E-Mail
Amity Bass	Field Supervisor,	(605) 224-8693	420 South Garfield	amity_bass@fws.gov
	North and South	ext 224	Avenue, Suite 400	
	Dakota Ecological		Pierre, SD 57501	
	Services			
Federal Emergency Mana	agement Agency (FEMA)			
Name	Title	Phone	Address	E-Mail
			Denver Federal	
	Regional		Center, Building 710	
Lee DePalo	Administrator, Region	(303) 235-4812	P.O. Box 25267	
	8		Denver, CO 80255-	
			0267	
C (1 D 11 1	Tribal Affairs, FEMA			Cathy.Bachhuber@fema.dhs.gov
Cathy Bachhuber	Region 8			Cathy.Bachhuber@fema.dns.gov
South Dakota (SD) State 1	Historic Preservation Offic	e (SHPO)		
Name	Title	Phone	Address	E-Mail
Katie Wasley	Northern Historic	605-773-2906	900 Governors Dr.	Katie.Wasley@state.sd.us
•	Preservation Specialist		Pierre, SD 57501	
South Dakota Game, Fish	n, and Parks (SDGFP)			
Name	Title	Phone	Address	E-Mail
Stan Michals	Energy and Minerals	Regional Office	4130 Adventure Trail	Stan.Michals@state.sd.us
	Coordinator	No. (605)394-	Rapid City, SD 57702	
		2391		
		Cell No.		
		(605)645-8881		
South Dakota Departmen	nt of Agricultural and Natu	ral Resources (DA	NR)	-
Name	Title	Phone	Address	E-Mail
Sean Kruger	Standards Team		Joe Foss Building,	Sean.Kruger@state.sd.us
Shannon Minerich	Standards Team	(605) 773-3351	523 East Capitol	shannon.minerich@state.sd.us
			Pierre, SD 57501	

South Dakota Ellsworth Dev Name	Title	Phone	Address	E-Mail
Glen Kane	Managing Director	605-390-7290	14 St Joseph St, Rapid City, SD 57709	glen.kane@ellsworthauthority.org
Tribal Governments				
Tribe	Name/Title	Phone	Address	E-Mail
Apache Tribe of Oklahoma	Bobby Komardley, Chairman	405-247-9493	PO Box 1330 Anadarko, OK 73005	bkomardley@outlook.com
Arapaho Tribe of the Wind	Ben Ridgley, THPO	307-851-1254	PO Box 67 St. Stevens, WY 82524	benridgley007@gmail.com
River Reservation, Wyoming	Lee Spoonhunter, Chairperson	307-332-6120	PO Box 396 Fort Washakie, WY 82514-0396	lee.spoonhunter@northernarapaho.com
Assiniboine and Sioux Tribes of the Fort Peck	Dyan Youpee, THPO	406-768-2382	PO Box 1027 Poplar, MT 59255	d.youpee@fortpecktribes.net
Indian Reservation, Montana	Floyd Azure, Chairperson	406-768-2300	PO Box 1027 Poplar, MT 59255-1027	fazure@fortpecktribes.net
Cheyenne and Arapaho Tribes, Oklahoma	Max Bear, THPO	405-422-7416	700 Black Kettle Blvd Concho, OK 73022	mbear@c-a-tribes.org
	Reggie Wassana, Governor	800-422-8224	P.O. Box 38 Concho, OK 73022	rwassana@c-a-tribes.org
Cheyenne River Sioux Tribe	Steven Vance, THPO	605-964-7554	PO Box 590 Eagle Butte, SD57625	stevev.crstpres@outlook.com
of the Cheyenne River Reservation, South Dakota	Harold Frazier, Chairperson	605-964-4155	PO Box 590 Eagle Butte, SD57625- 0590	HaroldCFrazier@yahoo.com
Comanche Nation, Oklahoma	Mark Woommavovah, Chairperson	580-492-3240	PO Box 908 Lawton, OK 73502	jennifer.rodriguez@comanchenation.com
	Martina Minthorn, THPO	580-595-9618	6 SW D Avenue Lawton, OK 73502	martina.minthorn@comanchenation.com
Confederated Salish and Kootenai Tribes of the	Kathryn McDonald, THPO	406-675- 2700, ext. 1082	PO Box 278 Pablo, MT 59855	kathryn.mcdonald@cskt.org
Flathead Reservation	Tom McDonald Chairman	406-675-2700	PO Box 278 Pablo, MT 59855-0278	council@cskt.org

Tribal Governments	1	I		
Tribe	Name/Title	Phone	Address	E-Mail
Crow Creek Sioux Tribe of the Crow Creek Reservation, South Dakota	Lester Thompson Jr., Chairperson	605-245-2221	PO Box 50 Fort Thompson, SD 57339-0050	
	Merle Marks, THPO	605-245-2221	PO Box 50 Fort Thompson, SD 57339	cchistory@midstatesd.net
Crow Tribe of Montana	Aaron Brien, THPO	406-529-7991	PO Box 159 Crow Agency, MT 59022	aaron.brien@crow-nsn.gov
	AJ Not Afraid, Chairperson	406-638-3715	PO Box 159 Crow Agency, MT 59022	aj.notafraid@crow-nsn.gov
Eastern Shoshone Tribe of the Wind River Reservation, Wyoming	Joshua Mann, THPO	307-335-2081	PO Box 538 Fort Washakie, WY 82514	jmann@easternshoshone.org
Flandreau Santee Sioux Tribe of South Dakota	Garrie Kills-A- Hundred, THPO	605-864-1236	PO Box 283 Flandreau, SD 57028	garrie.killsahundred@FSST.org
	Anthony Reider, Chairperson	605-997-3891	PO Box 283 Flandreau, SD 57028- 0283	president@fsst.org
Fort Belknap Indian Community of the Fort	Michael Blackwolf, THPO	406-353-2295	656 Agency Main Street Harlem, MT 59526-9455	mblackwolf@ftbelknap.org
Belknap Reservation of Montana	Jeffery (Jeff) Stiffarm President	406-353-2205	RR1, Box 66 Harlem, MT 59526-9455	jeffery.stiffarm@ftbelknap.org
Kiowa Indian Tribe of Oklahoma	Matthew Komalty, Chairman	508-654-2300	PO Box 369 Carnegie, OK 73015	tharris@kiowatribe.org
Lower Brule Sioux Tribe of the Lower Brule Reservation, South Dakota	Clyde Estes, Chairman	605-473-5561	187 Oyate Circle Lower Brule, SD 57548- 8500	ClydeEstes@lowerbrule.net
Northern Cheyenne Tribe of the Northern Cheyenne	Serena Wetherelt Vice-President	406-477-6284	PO Box 128 Lame Deer, MT 59043-0128	serena.wetherelt@cheyennenation.com
Indian Reservation, Montana	Teanna Limpy, THPO	406-477-4839	PO Box 128 Lame Deer, MT 59043	Teanna.Limpy@cheyennenation.com
Oglala Sioux Tribe	Julian Bear Runner, President	605-867-8487	PO Box 2070 Pine Ridge, SD 57770- 2070	president.bearrunner@oglala.org

Tribe	Name/Title	Phone	Address	E-Mail
11106	Thomas Brings,	605-867-5624	PO Box 129	t.brings@oglala.org
	THPO	003-807-3024	Kyle, SD 57752	t.brings@ogiaia.org
			PO Box 288 Niobrara,	
	Larry Wright, Chairman	402-857-3391	NE 68760	
Ponca Tribe of Nebraska	Chairman			
	Stacy Laravie, THPO	402-857-3519	PO Box 288 Niobrara, NE 68760	ssettje@poncatribe-ne.org
Rosebud Sioux Tribe of the	Scott O. Herman,	605-747-2381	PO Box 430	
Rosebud Indian Reservation,	President		Rosebud, SD 57570-0430	
South Dakota	Ione Quigley, THPO	605-747-4211	PO Box 809	ione.quigley@rst-nsn.gov
South Dakota			Rosebud, SD 57570	
	Misty Frazier, THPO	402-857-3568	425 Frazier Ave. N. Suite	ssn.thpo@gmail.com
Cantas Ciana Nation			2	
Santee Sioux Nation,			Niobrara, NE 68760	
Nebraska	Roger Trudell,	402-857-2772	108 Spirit Lake Ave. W	rtrudell@santeedakota.org
	Chairperson		Niobrara, NE 68760	_
G: 4 W 1 4 G 4 G	Verlyn Beaudreau,	605-698-3911	PO Box 509 Agency	chairman@swo-nsn.gov
Sisseton-Wahpeton Oyate of	Interim Chairperson		Village, SD 57262-0509	
the Lake Traverse	Dianne Desrosiers,	605-698-3584	P.O. Box 907 Sisseton,	dianned@swo-nsn.gov
Reservation, South Dakota	THPO		SD 57262-0509	
	Susie Fox, Interim	701-766-4031	P.O. Box 198 Fort	sfox@gondtc.com
Spirit Lake Tribe, North	Director THPO		Totten, ND 58335-0359	
Dakota	Myra Pearson,	701-766-4221	PO Box 359 Fort Totten,	slt-adminsec@spiritlakenation.com
	Chairwoman		ND 58335-0359	•
Standing Rock Sioux Tribe of North & South Dakota	Janet Alkire,	701-854-8500	PO Box D Fort Yates,	
	Chairperson		ND 58538-0522	
	Jon Eagle, THPO	701-854-8645	PO Box D	j.eagle@standingrock.org
			Fort Yates, ND 58538	
Yankton Sioux Tribe of South Dakota	Kip Spotted Eagle,	605-384-3641	PO Box 1153 Wagner,	yst.thpo@gmail.com
	THPO		SD 57380	
	Robert Hawk,	605-384-3641	PO Box 1153 Wagner,	robertflyinghawk@gmail.com
	Chairperson	ext. 1015	SD 57380-1153	

EAFB Scoping Letters – Section 7





Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Amity Bass
United States Fish and Wildlife Service (USFWS), Mountain Prairie Region
Field Supervisor, North and South Dakota Ecological Services
420 South Garfield Avenue, Suite 400
Pierre SD 57501

Dear Ms. Bass

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment. The Project Areas are displayed in the attached figures (Attachment 1).

In accordance with Section 7 of the Endangered Species Act (ESA), we obtained a species list from the Information for Planning and Consultation Database (IPaC) on June 7, 2022 (Attachment 2).

EAFB expects that this project will not affect protected species based on the following:

- 1. EAFB Integrated Natural Resource Management Plan (INRMP) (updated 2020): No federally protected species have been documented within EAFB.
- 2. The species list from the IPaC indicated that there is no critical habitat present within the vicinity of the project areas. While the IPaC species list indicated the potential for Northern Long-Eared Bat and Red Knot to be present, these species have not been documented within the vicinity of the project areas. The candidate species Monarch Butterfly has been documented within the vicinity of the project areas.

At this time, the DAF respectfully requests your consideration of the following: Please send any information relevant to natural resources management at EAFB. These could include recent studies

(2015-present), new regulations/policy, or agency initiatives that you would like to be considered. The draft EA is anticipated to be ready in August 2021 for your review. We will provide thirty (30) days to review and appreciate your comments before we finalize the EA.

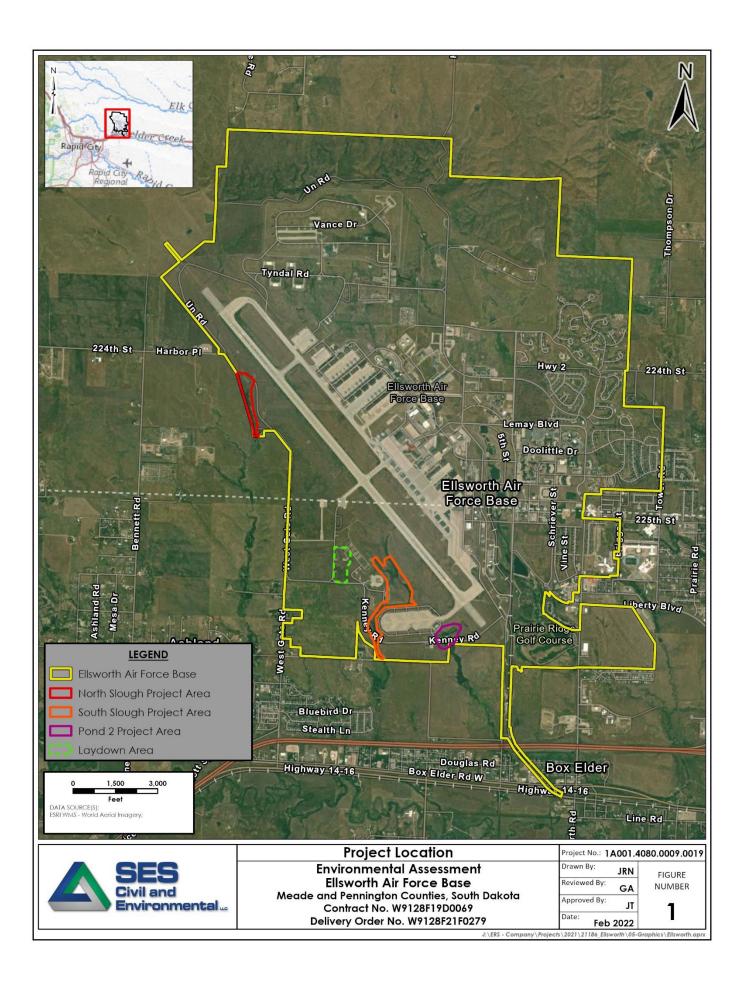
Please provide any information to Ellsworth Air Force Base, Attn: Mr. Greg Johnson, Environmental Compliance Chief, 28 CES/CEIE, 2125 Scott Dr., Ellsworth AFB, SD 57706; or by email at gregory.johnson.8@us.af.mil, with the subject titled as ATTN: EAFB BASH EA. Thank you for your assistance.

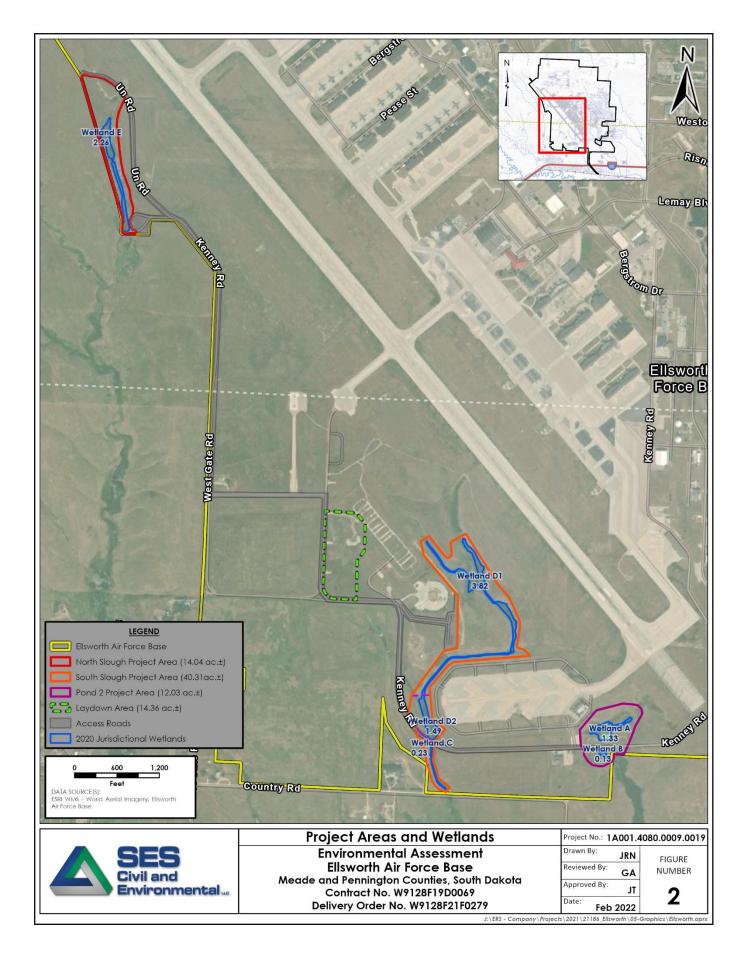
Sincerely

SHEFFIELD.JOSE Digitally signed by SHEFFIELD.JOSEPH.L.11581800 PH.L.1158180096 Date: 2022.08.16 11:26:00 -06'00' JOSEPH L. SHEFFIELD, Colonel USAF Commander

- 2 ttachments:
- 1. Figures
- 2. Species List from Information for Planning and Consultation (IPaC)

Attachment 1 – Figures





Attachment 2 – Species List from IPaC



United States Department of the Interior



FISH AND WILDLIFE SERVICE 420 S Garfield Ave, Suite 400 Pierre, South Dakota 57501-5408

June 7, 2022

In Reply Refer To: Species list for Ellsworth AFB

Mr. Gary Brundige Natural/Cultural/EIAP Program Manager 28 CES/CEIEC 1940 EP Howe Drive Ellsworth AFB, SD 57706

Dear Mr. Gary Brundige,

Thank you for your email received June 6, 2022 requesting a species list for Ellsworth Airforce Base. The project area used to create this list encompasses only Ellsworth Airforce Base. This project is located in Meade County, South Dakota.

ESA Federally Listed Species

In accordance with section 7(c) of the Endangered Species Act, as amended, 16 U.S.C. 1531 et seq., we have determined that the following federally listed and candidate species may occur in the project area (this list is considered valid for 90 days):

Species	Status	Expected Occurrence
Monarch Butterfly (Danaus plexippus)	Candidate	Spring-Fall, resident and migrant
Northern Long-eared Bat (Myotis septentrionalis)	Threatened	Summer resident, seasonal migrant, known winter resident in Black Hills
Rufa Red Knot (Calidris canutus rufa)	Threatened	Rare seasonal migrant

Monarch butterfly

In December 2020, the Service determined that the monarch is warranted for listing under the ESA but is precluded at this time by higher priority listing actions. The monarch is a large

butterfly that lives in a variety of habitats throughout North America and various additional locations across the globe. The monarch needs milkweed (*Asclepias* spp.) for breeding. Adults use a wide variety of flowering plants throughout migration and breeding. Important nectar sources during the spring migration typically include *Coreopsis* spp., *Viburnum* spp., *Phlox* spp., and early blooming milkweeds. Important nectar sources during fall migration include goldenrods (*Solidago* spp.) asters (*Symphyotrichum* spp. and *Eurybia* spp.), gayfeathers (*Liatris* spp.), and coneflowers (*Helianthus* spp.), thistle (*Cirsium* spp.) and sage (*Salvia* spp.). Lists of preferred nectar plants by region specific to monarchs can be found at http://www.xerces.org/monarch-nectar-plants/. Avoiding milkweed patches would protect eggs and larvae. Avoiding nectar sources would conserve food for the adults during reproductive and migration stages.

Northern Long-eared Bat

The northern long-eared bat is a medium-sized brown bat listed as threatened under the Endangered Species Act. Northern long-eared bats are known to be present in South Dakota year-round, primarily roosting singly or in colonies underneath bark, in cavities or in crevices of both live and dead trees in the summer. Some hibernacula have been documented in caves/mines in the Black Hills. The species has been documented in other forested areas in the state during the summer months and along the Missouri River during migration. Summer survey guidelines for this species are identical for those established for the Indiana Bat (available online at: https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html). White nose syndrome - a fungus affecting hibernating bats - is considered a significant threat to this species, but individuals may be harmed by other activities such as modifications to hibernacula, timber harvest, human disturbance, and collisions with wind turbines. A 4(d) rule has been published that exempts take of Northern long-eared bats in certain circumstances. For more information, see: https://www.fws.gov/Midwest/Endangered/mammals/nleb/index.html.

Rufa Red Knot

The rufa red knot is a robin-sized shorebird listed as threatened under the Endangered Species Act (see: < http://www.gpo.gov/fdsys/pkg/FR-2014-12-11/pdf/2014-28338.pdf> for more information). The red knot migrates annually between its breeding grounds in the Canadian Arctic and several wintering regions, including the Southeast United States, the Northeast Gulf of Mexico, northern Brazil, and Tierra del Fuego at the southern tip of South America. Although it is primarily a coastal species, small numbers of rufa red knots are reported annually across the interior United States (i.e., greater than 25 miles from the Gulf or Atlantic Coasts) during spring and fall migration. These reported sightings are concentrated along the Great Lakes, but multiple reports have been made from nearly every interior State, including South Dakota. The red knot likely uses South Dakota habitats similar to those of the least tern and piping plover. The species does not breed in this state.

Mr. Gary Brundige

The Service appreciates the opportunity to provide this species list. If you have any questions on this list, please contact Dylan Turner of this office at (605) 280-6704.

EAFB Scoping Letters





Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

United States Army Corps of Engineers (USACE) South Dakota Regulatory Office 28563 Powerhouse Rd Pierre, SD 57501

To whom it may concern,

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The USAF respectfully requests any information or specific comments your agency may have regarding the potential impacts of the proposed action, including but not limited to, natural, social, cultural, and archaeological resources. EAFB also requests any information that your agency may have regarding other proposed, ongoing, or recently completed projects in the vicinity of the Proposed Action. A list of all entities that are included on this distribution is included in Attachment 2.

Please provide any comments, concerns, or relevant background or supporting information within thirty (30) days of receipt of this letter to Ellsworth Air Force Base, Attn: Mr. Greg Johnson, Environmental Compliance Chief, 28 CES/CEIE, 2125 Scott Dr., Ellsworth AFB, SD 57706; or by email at gregory.johnson.8@us.af.mil, with the subject titled as ATTN: EAFB BASH EA. Thank you for your assistance.

Sincerely

SHEFFIELD.JOSE Digitally signed by SHEFFIELD.JOSEPH.L.11581800 PH.L.1158180096 Date: 2022.08.16 11:23:14 -06'00' JOSEPH L. SHEFFIELD, Colonel USAF Commander

- 2 Attachments:
- 1. Figures
- 2. Interagency and Intergovernmental Coordination for Environmental Planning (IICEP) Distribution List





Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Lee DePalo Federal Emergency Management Agency (FEMA) Regional Administrator, Region 8 Denver Federal Center, Building 710 P.O. Box 25267 Denver, CO 80255-0267

Dear Mr. DePalo,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Glen Kane South Dakota Ellsworth Development Authority (SDEDA) Managing director 14 St Joseph Street Rapid City, SD 57709

Dear Mr. Kane,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Stan Michals South Dakota Game, Fish, and Parks (SDGFP) Energy and Minerals Coordinator 4130 Adventure Trail Rapid City, SD 57702

Dear Mr. Michals,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Shannon Minerich and Mr. Sean Kruger South Dakota Department of Agricultural and Natural Resources (DANR) Standards Team Joe Foss Building, 523 East Capitol Pierre, SD 57501

Dear Ms. Minerich and Mr. Kruger,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Janet Alkire Chairperson Standing Rock Sioux Tribe of North & South Dakota PO Box D Fort Yates, ND 58538-0522

Dear Ms. Alkire,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Additionally, as a stakeholder in the environmental analysis process, the USAF respectfully requests your input in identifying any issues or areas of concern you feel should be addressed, including but not limited to any information or specific comments you may have regarding the locations of, or concerns regarding, potential impacts to natural, social, cultural, and archaeological resources. EAFB also requests any information that your tribe may have regarding other proposed, ongoing, or recently completed projects in the vicinity of the Proposed Action. A list of all entities that are included on this distribution is included in Attachment 2.

In accordance with Section 306108 of the National Historic Preservation Act (NHPA) and its implementing regulations at 36 CFR Part 800, the USAF would like to initiate government-to-government consultation regarding the proposed actions. We would like to invite you to be a consulting party in this review to help identify historic properties in the proposed APE that may have religious and cultural significance to your tribe, and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

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- 2 Attachments:
- 1. Map of Project Areas and Proposed APE
- 2. Interagency and Intergovernmental Coordination for Environmental Planning (IICEP) Distribution List





Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Floyd Azure Chairperson Assiniboine and Sioux Tribes of the Fort Peck Indian Reservation, Montana PO Box 1027 Poplar, MT 59255-1027

Dear Mr. Azure,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Max Bear THPO Cheyenne and Arapaho Tribes, Oklahoma 700 Black Kettle Blvd Concho, OK 73022

Dear Mr. Bear,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Julian Bear Runner President Oglala Sioux Tribe PO Box 2070 Pine Ridge, SD 57770-2070

Dear Mr. Bear Runner,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Ms. Verlyn Beaudreau Interim Chairperson Sisseton-Wahpeton Oyate of the Lake Traverse Reservation, South Dakota PO Box 509 Agency Village, SD 57262-0509

Dear Ms. Beaudreau,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Michael Blackwolf THPO Fort Belknap Indian Community of the Fort Belknap Reservation of Montana 656 Agency Main Street Harlem, MT 59526-9455

Dear Mr. Blackwolf,

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Mr. Aaron Brien THPO Crow Tribe of Montana PO Box 159 Crow Agency, MT 59022

Dear Mr. Brien,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Thomas Brings THPO Oglala Sioux Tribe PO Box 129 Kyle, SD 57752

Dear Mr. Brings,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Dianne Desrosiers
THPO
Sisseton-Wahpeton Oyate of the Lake Traverse Reservation, South Dakota
P.O. Box 907
Sisseton, SD 57262-0509

Dear Ms. Desrosiers,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Jon Eagle THPO Standing Rock Sioux Tribe of North & South Dakota PO Box D Fort Yates, ND 58538

Dear Mr. Eagle,

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Mr. Clyde Estes Chairman Lower Brule Sioux Tribe of the Lower Brule Reservation, South Dakota 187 Oyate Circle Lower Brule, SD 57548-8500

Dear Mr. Estes,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Susie Fox Interim Director THPO Spirit Lake Tribe, North Dakota P.O. Box 198 Fort Totten, ND 58335-0359

Dear Ms. Fox,

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Mr. Harold Frazier Chairperson Cheyenne River Sioux Tribe of the Cheyenne River Reservation, South Dakota PO Box 590 Eagle Butte, SD57625-0590

Dear Mr. Frazier,

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Ms. Misty Frazier THPO Santee Sioux Nation, Nebraska 425 Frazier Ave. N. Suite 2 Niobrara, NE 68760

Dear Ms. Frazier,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Robert Hawk Chairperson Yankton Sioux Tribe of South Dakota PO Box 1153 Wagner, SD 57380-1153

Dear Mr. Hawk,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Scott O. Herman President Rosebud Sioux Tribe of the Rosebud Indian Reservation, South Dakota PO Box 430 Rosebud, SD 57570-0430

Dear Mr. Herman,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Garrie Kills-A-Hundred THPO Flandreau Santee Sioux Tribe of South Dakota PO Box 283 Flandreau, SD 57028

Dear Mr. Kills-A-Hundred,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Matthew Komalty Chairman Kiowa Indian Tribe of Oklahoma PO Box 369 Carnegie, OK 73015

Dear Mr. Komalty,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Bobby Komardley Chairman Apache Tribe of Oklahoma PO Box 1330 Anadarko, OK 73005

Dear Mr. Komardley,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Stacy Laravie THPO Ponca Tribe of Nebraska PO Box 288 Niobrara, NE 68760

Dear Ms. Laravie,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Teanna Limpy THPO Northern Cheyenne Tribe of the Northern Cheyenne Indian Reservation, Montana PO Box 128 Lame Deer, MT 59043

Dear Ms. Limpy,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Joshua Mann THPO Eastern Shoshone Tribe of the Wind River Reservation, Wyoming PO Box 538 Fort Washakie, WY 82514

Dear Mr. Mann,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Merle Marks
THPO
Crow Creek Sioux Tribe of the Crow Creek Reservation, South Dakota
PO Box 50
Fort Thompson, SD 57339-0050

Dear Mr. Marks,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Kathryn McDonald THPO Confederated Salish and Kootenai Tribes of the Flathead Reservation PO Box 278 Pablo, MT 59855

Dear Ms. McDonald,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Tom McDonald Chairman Confederated Salish and Kootenai Tribes of the Flathead Reservation PO Box 278 Pablo, MT 59855-0278

Dear Mr. McDonald,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Martina Minthorn THPO Comanche Nation, Oklahoma 6 SW D Avenue Lawton, OK 73502

Dear Ms. Minthorn,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. AJ Not Afraid Chairperson Crow Tribe of Montana PO Box 159 Crow Agency, MT 59022

Dear Mr. Not Afraid,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Myra Pearson Chairwoman Spirit Lake Tribe, North Dakota PO Box 359 Fort Totten, ND 58335-0359

Dear Ms. Pearson,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Ione Quigley THPO Rosebud Sioux Tribe of the Rosebud Indian Reservation, South Dakota PO Box 809 Rosebud, SD 57570

Dear Ms. Quigley,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Anthony Reider Chairperson Flandreau Santee Sioux Tribe of South Dakota PO Box 283 Flandreau, SD 57028-0283

Dear Mr. Reider,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Ben Ridgley THPO Arapaho Tribe of the Wind River Reservation, Wyoming PO Box 67 St. Stevens, WY 82524

Dear Mr. Ridgley,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Lee Spoonhunter Chairperson Arapaho Tribe of the Wind River Reservation, Wyoming PO Box 396 Fort Washakie, WY 82514-0396

Dear Mr. Spoonhunter,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Kip Spotted Eagle THPO Yankton Sioux Tribe of South Dakota PO Box 1153 Wagner, SD 57380

Dear Mr. Spotted Eagle,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Jeffery (Jeff) Stiffarm
President
Fort Belknap Indian Community of the Fort Belknap Reservation of Montana
RR1, Box 66
Harlem, MT 59526-9455

Dear Mr. Stiffarm,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Lester Thompson Jr.
Chairperson
Crow Creek Sioux Tribe of the Crow Creek Reservation, South Dakota
PO Box 50
Fort Thompson, SD 57339-0050

Dear Mr. Thompson Jr.,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Roger Trudell Chairperson Santee Sioux Nation, Nebraska 108 Spirit Lake Ave. W Niobrara, NE 68760

Dear Mr. Trudell,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Steven Vance
THPO
Cheyenne River Sioux Tribe of the Cheyenne River Reservation, South Dakota
PO Box 590
Eagle Butte, SD57625

Dear Mr. Vance,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Reggie Wassana Governor Cheyenne and Arapaho Tribes, Oklahoma P.O. Box 38 Concho, OK 73022

Dear Mr. Wassana,

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SHEFFIELD.JOSE Digitally signed by SHEFFIELD.JOSEPH.L.1158180 PH.L.1158180096 Date: 2022.08.16 11:24:41 -06'00' JOSEPH L. SHEFFIELD, Colonel USAF Commander

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Serena Wetherelt Vice-President Northern Cheyenne Tribe of the Northern Cheyenne Indian Reservation, Montana PO Box 128 Lame Deer, MT 59043-0128

Dear Ms. Wetherelt,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Mark Woommavovah Chairperson Comanche Nation, Oklahoma PO Box 908 Lawton, OK 73502

Dear Mr. Woommavovah,

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Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Mr. Larry Wright Chairman Ponca Tribe of Nebraska PO Box 288 Niobrara, NE 68760

Dear Mr. Wright,

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Ms. Dyan Youpee THPO Assiniboine and Sioux Tribes of the Fort Peck Indian Reservation, Montana PO Box 1027 Poplar, MT 59255

Dear Ms. Youpee,

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Appendix A-3 – Public Comments Received During Scoping and Associated Correspondence





Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

United States Army Corps of Engineers (USACE) South Dakota Regulatory Office 28563 Powerhouse Rd Pierre, SD 57501

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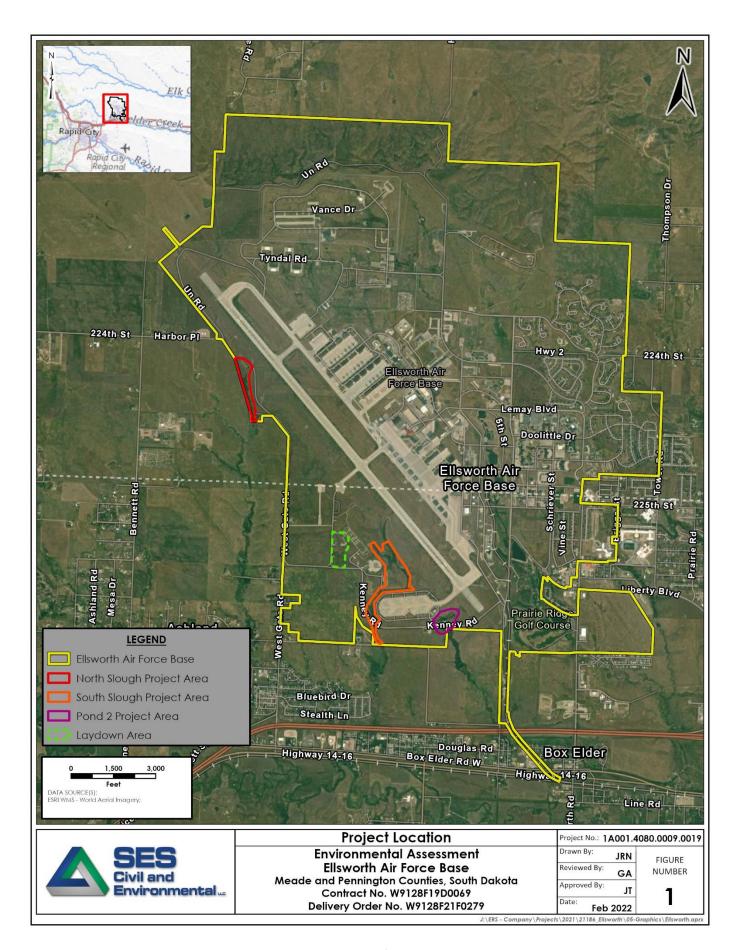
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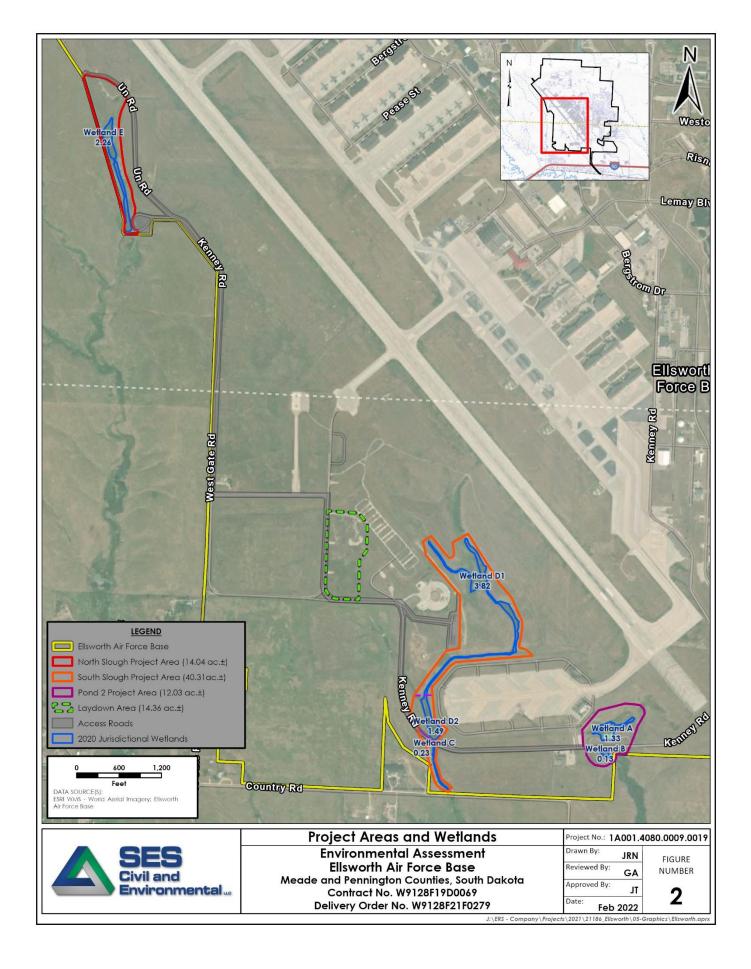
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Attachment 1 – Figures



Page **2** of **8**



Page 3 of 8

Attachment 2 – IICEP Distribution List

United States Army Corp				
Name	Title	Phone	Address	E-Mail
USACE SD Regulatory		605-224-8531	28563 Powerhouse	SDRegulatoryMailbox@usace.army.mil
Office			Road, Pierre,	
			SD 57501	
United States Fish and W	ildlife Service (USFWS), M	<u>Iountain Prairie R</u>	egion	
Name	Title	Phone	Address	E-Mail
Amity Bass	Field Supervisor,	(605) 224-8693	420 South Garfield	amity_bass@fws.gov
	North and South	ext 224	Avenue, Suite 400	
	Dakota Ecological		Pierre, SD 57501	
	Services			
Federal Emergency Mana	agement Agency (FEMA)			
Name	Title	Phone	Address	E-Mail
			Denver Federal	
	Regional		Center, Building 710	
Lee DePalo	Administrator, Region	(303) 235-4812	P.O. Box 25267	
	8		Denver, CO 80255-	
			0267	
Cathy Bachhuber	Tribal Affairs, FEMA			Cathy.Bachhuber@fema.dhs.gov
•	Region 8			Cathy.Bachhuber@fema.dns.gov
South Dakota (SD) State 1	Historic Preservation Offic	e (SHPO)		
Name	Title	Phone	Address	E-Mail
Katie Wasley	Northern Historic	605-773-2906	900 Governors Dr.	Katie.Wasley@state.sd.us
	Preservation Specialist		Pierre, SD 57501	
South Dakota Game, Fish	, and Parks (SDGFP)			
Name	Title	Phone	Address	E-Mail
Stan Michals	Energy and Minerals	Regional Office	4130 Adventure Trail	Stan.Michals@state.sd.us
	Coordinator	No. (605)394-	Rapid City, SD 57702	
		2391		
		Cell No.		
		(605)645-8881		
South Dakota Departmen	t of Agricultural and Natu	ral Resources (DA	NR)	
Name	Title	Phone	Address	E-Mail
Sean Kruger	Standards Team		Joe Foss Building,	Sean.Kruger@state.sd.us
Shannon Minerich	Standards Team	(605) 773-3351	523 East Capitol	shannon.minerich@state.sd.us
			Pierre, SD 57501	

Name	Title	Phone	Address	E-Mail
Glen Kane	Managing Director	605-390-7290	14 St Joseph St, Rapid City, SD 57709	glen.kane@ellsworthauthority.org
Tribal Governments				
Tribe	Name/Title	Phone	Address	E-Mail
Apache Tribe of Oklahoma	Bobby Komardley, Chairman	405-247-9493	PO Box 1330 Anadarko, OK 73005	bkomardley@outlook.com
Arapaho Tribe of the Wind	Ben Ridgley, THPO	307-851-1254	PO Box 67 St. Stevens, WY 82524	benridgley007@gmail.com
River Reservation, Wyoming	Lee Spoonhunter, Chairperson	307-332-6120	PO Box 396 Fort Washakie, WY 82514-0396	lee.spoonhunter@northernarapaho.com
Assiniboine and Sioux Tribes of the Fort Peck	Dyan Youpee, THPO	406-768-2382	PO Box 1027 Poplar, MT 59255	d.youpee@fortpecktribes.net
Indian Reservation, Montana	Floyd Azure, Chairperson	406-768-2300	PO Box 1027 Poplar, MT 59255-1027	fazure@fortpecktribes.net
Cheyenne and Arapaho	Max Bear, THPO	405-422-7416	700 Black Kettle Blvd Concho, OK 73022	mbear@c-a-tribes.org
Tribes, Oklahoma	Reggie Wassana, Governor	800-422-8224	P.O. Box 38 Concho, OK 73022	rwassana@c-a-tribes.org
Cheyenne River Sioux Tribe	Steven Vance, THPO	605-964-7554	PO Box 590 Eagle Butte, SD57625	stevev.crstpres@outlook.com
of the Cheyenne River Reservation, South Dakota	Harold Frazier, Chairperson	605-964-4155	PO Box 590 Eagle Butte, SD57625- 0590	HaroldCFrazier@yahoo.com
Comanche Nation,	Mark Woommavovah, Chairperson	580-492-3240	PO Box 908 Lawton, OK 73502	jennifer.rodriguez@comanchenation.com
Oklahoma	Martina Minthorn, THPO	580-595-9618	6 SW D Avenue Lawton, OK 73502	martina.minthorn@comanchenation.com
Confederated Salish and Kootenai Tribes of the	Kathryn McDonald, THPO	406-675- 2700, ext. 1082	PO Box 278 Pablo, MT 59855	kathryn.mcdonald@cskt.org
Flathead Reservation	Tom McDonald Chairman	406-675-2700	PO Box 278 Pablo, MT 59855-0278	council@cskt.org

Tribal Governments				
Tribe	Name/Title	Phone	Address	E-Mail
	Lester Thompson Jr.,	605-245-2221	PO Box 50	
Crow Creek Sioux Tribe of	Chairperson		Fort Thompson, SD 57339-0050	
the Crow Creek Reservation, South Dakota	Merle Marks, THPO	605-245-2221	PO Box 50 Fort Thompson, SD	cchistory@midstatesd.net
			57339	
C. Till CM	Aaron Brien, THPO	406-529-7991	PO Box 159 Crow Agency, MT 59022	aaron.brien@crow-nsn.gov
Crow Tribe of Montana	AJ Not Afraid, Chairperson	406-638-3715	PO Box 159 Crow Agency, MT 59022	aj.notafraid@crow-nsn.gov
Eastern Shoshone Tribe of the Wind River Reservation, Wyoming	Joshua Mann, THPO	307-335-2081	PO Box 538 Fort Washakie, WY 82514	jmann@easternshoshone.org
Flandreau Santee Sioux	Garrie Kills-A- Hundred, THPO	605-864-1236	PO Box 283 Flandreau, SD 57028	garrie.killsahundred@FSST.org
Tribe of South Dakota	Anthony Reider, Chairperson	605-997-3891	PO Box 283 Flandreau, SD 57028- 0283	president@fsst.org
Fort Belknap Indian Community of the Fort	Michael Blackwolf, THPO	406-353-2295	656 Agency Main Street Harlem, MT 59526-9455	mblackwolf@ftbelknap.org
Belknap Reservation of Montana	Jeffery (Jeff) Stiffarm President	406-353-2205	RR1, Box 66 Harlem, MT 59526-9455	jeffery.stiffarm@ftbelknap.org
Kiowa Indian Tribe of Oklahoma	Matthew Komalty, Chairman	508-654-2300	PO Box 369 Carnegie, OK 73015	tharris@kiowatribe.org
Lower Brule Sioux Tribe of the Lower Brule Reservation, South Dakota	Clyde Estes, Chairman	605-473-5561	187 Oyate Circle Lower Brule, SD 57548- 8500	ClydeEstes@lowerbrule.net
Northern Cheyenne Tribe of the Northern Cheyenne	Serena Wetherelt Vice-President	406-477-6284	PO Box 128 Lame Deer, MT 59043-0128	serena.wetherelt@cheyennenation.com
Indian Reservation, Montana	Teanna Limpy, THPO	406-477-4839	PO Box 128 Lame Deer, MT 59043	Teanna.Limpy@cheyennenation.com
Oglala Sioux Tribe	Julian Bear Runner, President	605-867-8487	PO Box 2070 Pine Ridge, SD 57770- 2070	president.bearrunner@oglala.org

Tribal Governments Tribe	Name/Title	Phone	Address	E-Mail
11100	Thomas Brings,	605-867-5624	PO Box 129	t.brings@oglala.org
	THPO	003 007 3021	Kyle, SD 57752	t.ormgo c ogiana.org
	Larry Wright,	402.057.2201	PO Box 288 Niobrara,	
Daniel Telle of Malenales	Chairman	402-857-3391	NE 68760	
Ponca Tribe of Nebraska	Steam Lamaria TUDO	402-857-3519	PO Box 288 Niobrara,	ssattia@manaatuiha na aug
	Stacy Laravie, THPO 402-857-3519		NE 68760	ssettje@poncatribe-ne.org
Rosebud Sioux Tribe of the	Scott O. Herman,	605-747-2381	PO Box 430	
Rosebud Indian Reservation,	President		Rosebud, SD 57570-0430	
South Dakota	Ione Quigley, THPO	605-747-4211	PO Box 809	ione.quigley@rst-nsn.gov
South Dakota			Rosebud, SD 57570	
	Misty Frazier, THPO	402-857-3568	425 Frazier Ave. N. Suite	ssn.thpo@gmail.com
Santee Sioux Nation,			2	
Nebraska			Niobrara, NE 68760	
Ttooraska	Roger Trudell,	402-857-2772	108 Spirit Lake Ave. W	rtrudell@santeedakota.org
	Chairperson		Niobrara, NE 68760	
Sisseton-Wahpeton Oyate of	Verlyn Beaudreau,	605-698-3911	PO Box 509 Agency	chairman@swo-nsn.gov
the Lake Traverse	Interim Chairperson		Village, SD 57262-0509	
Reservation, South Dakota	Dianne Desrosiers,	605-698-3584	P.O. Box 907 Sisseton,	dianned@swo-nsn.gov
Reservation, South Bakota	THPO		SD 57262-0509	
	Susie Fox, Interim	701-766-4031	P.O. Box 198 Fort	sfox@gondtc.com
Spirit Lake Tribe, North	Director THPO		Totten, ND 58335-0359	
Dakota	Myra Pearson,	701-766-4221	PO Box 359 Fort Totten,	slt-adminsec@spiritlakenation.com
	Chairwoman		ND 58335-0359	
Standing Rock Sioux Tribe of North & South Dakota	Janet Alkire,	701-854-8500	PO Box D Fort Yates,	
	Chairperson		ND 58538-0522	
	Jon Eagle, THPO	701-854-8645	PO Box D	j.eagle@standingrock.org
			Fort Yates, ND 58538	
	Kip Spotted Eagle,	605-384-3641	PO Box 1153 Wagner,	yst.thpo@gmail.com
Yankton Sioux Tribe of	THPO		SD 57380	
South Dakota	Robert Hawk,	605-384-3641	PO Box 1153 Wagner,	robertflyinghawk@gmail.com
	Chairperson	ext. 1015	SD 57380-1153	



DEPARTMENT OF THE ARMY

CORPS OF ENGINEERS, OMAHA DISTRICT SOUTH DAKOTA REGULATORY OFFICE 28563 POWERHOUSE ROAD, ROOM 118 PIERRE, SOUTH DAKOTA 57501-6174

August 26, 2022

South Dakota Regulatory Office 28563 Powerhouse Road, Room 118 Pierre, South Dakota 57501

Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive, Suite 1 Ellsworth AFB, South Dakota 57706-4710

Dear Colonel Sheffield,

Reference is made to the preliminary information received August 23, 2022 concerning Department of the Army authorization requirements to construct a project that would reduce wildlife habitat, including loss and/or modification of aquatic resources. The purpose is to reduce the potential for wildlife/bird strike hazards. The work would involve a potential modification and/or removal of approximately 9.3 acres of wetlands on/near Ellsworth Air Force Base in Rapid City, South Dakota. Subject: EAFB BASH EA.

The Corps' jurisdiction is derived from Section 404 of the Clean Water Act which calls for Federal regulation of the discharge of dredged or fill material into certain waterways, lakes and/or wetlands, (i.e. waters of the United States). Based on the preliminary information provided it appears that the project, as currently proposed, would require a DA permit pursuant to Section 404 of the Clean Water Act and it is requested that the project proponent submit an application for a Department of the Army permit.

You can obtain additional information about the Regulatory Program and download the permit application form from our website: http://www.nwo.usace.army.mil/Missions/RegulatoryProgram/SouthDakota.aspx

If you have any questions or need any assistance, please feel free to contact this office at the above Regulatory Office address or telephone at (605) 224-8531 and reference ORM # NWO-2018-01824-PIE.

Sincerely,

Steven E. Naylor Regulatory Program Manager, South Dakota





Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Katie Wasley South Dakota State Historic Preservation Office (SHPO) Northern Historic Preservation Specialist 900 Governors Drive Pierre SD 57501

Dear Ms. Wasley

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

In accordance with Section 106 of the National Historic Preservation Act (NHPA) and its implementing regulations (36 CFR Part 800), we have provided project information for your review and concurrence regarding the above-referenced project via consultation letter dated 6 June 2022. The Section 106 Project Review Form is provided in Attachment 1.

EAFB has determined that this project will not impact current or potential historic properties, and has made a preliminary Finding of "No Historic Properties Affected" pursuant to the NHPA based on the following:

- 1. EAFB Integrated Cultural Resource Management Plan (updated 2021): Pedestrian survey and soil auger testing of potential culturally significant sites within EAFB did not yield findings within EAFB BASH EA defined APEs.
- 2. EAFB has 21 National Register of Historic Places eligible buildings, however none are located within the APEs.

Please see the attached Interagency and Intergovernmental Coordination for Environmental Planning (IICEP) Distribution List (Attachment 2)

Attached for your review are copies of relevant documents supporting our finding. This documentation satisfies requirements set forth at 36 CFR §800.11(d). In accordance with §800.4(d)(1)(i), your office has thirty days to object to this finding. Please respond within this timeframe, otherwise we will assume that you concur with our finding. If you concur, please sign on the line below and return a copy of this letter to Greg Johnson, Environmental Compliance Chief, 2125 Scott Dr., Ellsworth AFB, SD 57706.

Please provide any further information, comments, or questions to Ellsworth Air Force Base, Attn: Mr. Greg Johnson, Environmental Compliance Chief, 2125 Scott Dr., Ellsworth AFB, SD 57706; or by email at gregory.johnson.8@us.af.mil, with the subject titled as ATTN: EAFB BASH EA. Thank you for your assistance.

Sincerely

SHEFFIELD.JOSE Digitally signed by SHEFFIELD.JOSEPH.L.11581800 PH.L.1158180096 Date: 2022.08.16 11:25:26 -06'00' JOSEPH L. SHEFFIELD, Colonel USAF Commander

- 2 Attachments:
- 1. Section 106 Project Review Form
- 2. Interagency and Intergovernmental Coordination for Environmental Planning (IICEP) Distribution List

Concurrence:

Ms. Katie Wasley South Dakota State Historic Preservation Office Northern Historic Preservation Specialist

Attachment 1 – Section 106 Project Review Form



SOUTH DAKOTA STATE HISTORICAL SOCIETY STATE HISTORIC PRESERVATION OFFICE (SHPO) SECTION 106 PROJECT REVIEW FORM

Submission of a completed Section 106 Project Review Form with adequate information and attachments constitutes a request for review pursuant to Section 106 of the National Historic Preservation Act of 1966 (as amended). Section 106 requires the South Dakota State Historic Preservation Office to review all projects that are federally funded, licensed, or assisted. We reserve the right to request more information if needed. Typed forms are preferred. **SUBMITTAL OF THIS FORM WITHOUT ALL REQUESTED INFORMATION WILL CAUSE REVIEW DELAYS.**

Section 106 regulations provide for a 30-day response time by the South Dakota State Historic Preservation Office from the date of receipt of complete information.

For projects requiring a license from the Federal Communications Commission, please use FCC Forms 620 or 621. **DO NOT USE THIS FORM.**

SD SHPO SECTION 106 PROJECT REVIEW FORM

2. FEDERAL AGENC	Y FUNDING, LI	CENSING, OR ASSISTI	NG THE PROJE	СТ
A. AGE	NCY NAME: _	Department of the Air F	orce, Ellsworth	AFB
B. AGENCY CONTAC	B. AGENCY CONTACT PERSON:			
C. MAILING	C. MAILING ADDRESS: 2125 Scott Dr, Ellsworth AFB, SD 57706		5	
D. EMAIL	MAIL ADDRESS: gary.brundige@us.af.mil			
E. TELEPHON	E NUMBER: _	605-385-2690		
A. AGE	NCY NAME: _	NSING, OR ASSISTING	•	
B. AGENCY CONTAC	T PERSON: _			
	_			
	ADDRESS: _			
E. TELEPHON F. IF THIS I PROGRAM, PLEAS THE NAME OF THE (FOR EXAMPLE	IS A GRANT SE INCLUDE PROGRAM			
4. CONSULTANT CON		•		
E. TELEPHON	E NUMBER:			
5. PROJECT LOCATION A. ADDRESS: B. CITY: C. COUNTY:	South and we	est of the EAFB runway B	along of Kenny	
D. TOWNSHIP:	T2N	E. RANGE	R8E	F. SECTION S11, 13
location(s) on a c review delays. De	city map. Photoc o not enlarge or	copies are acceptable, bur reduce the map.	t poor quality ma	e project is in an urban area, show the ps or insufficient information will cause orm? YES 🖂 or NO 🗌
is a map s	nowing the exac	criocation of the project	allauneu IU IIIIS IC	

SD SHPO SECTION 106 PROJECT REVIEW FORM

6. PROJECT DESCRIPTION Describe all anticipated work associated with the project. Be specific. The description should include all ancillary facilities such as access roads, placement of utilities, additional outbuildings, fences, material borrow areas, staging areas, etc. Use as much space and as many pages as needed to clearly describe the project.
This Environmental Assessment (EA) evaluates a project that will modify wetland wildlife habitat presenting a
Bird/Wildlife Aircraft Strike Hazard (BASH) adjacent to the primary runway at Ellsworth Air Force Base, SD.
(Continued on Page 8)
7. PROJECT PLANS Plans, drawings, engineering specifications etc. should be included to help explain the project, but these cannot replace the above verbal description. If new construction is involved, elevation drawings and plans should be included.
Are plans, drawings, engineering specifications, or similar documents attached to this form?
YES ☐ or NO ⊠
8. PHOTOGRAPHS Provide several clear, original photographs of the project location. Also, include photographs of every affected buildings/structures, including an overall front view of each structure and other views necessary to describe fully the structures and the project. Streetscape photographs of surrounding buildings and structures should also be included. Photographs should be color and can be either printed or digital images submitted on a CD. Printed digital photographs should have a high dpi and clear resolution. Photographs should also either be labeled or include a key. NOTE: Projects submitted with insufficient photographs will cause review delays. Are photographs that clearly show the project location attached to this form? YES or NO 9. PROJECT AREA OF POTENTIAL EFFECT (APE) The APE consists of the geographic area or areas within which a project may directly or indirectly, cause changes in the character or use of historic properties. In most instances, the APE is not simply the project's physical boundaries or right-of-way. The APE also includes all ancillary facilities such as access roads, placement of utilities,
additional outbuildings, fences, material borrow areas, staging areas, etc. The APE may include visual and audible effects. Highlight the APE on a localized map.
A. Is a map highlighting the APE attached to this form? YES 🔀 or NO 🗌
B. Provide a written description of the APE. Describe the steps taken to identify the APE, and justify why the APE boundaries were chosen. If the APE has been previously disturbed, include an explanation of the previous ground disturbance.

SD SHPO SECTION 106 PROJECT REVIEW FORM
II. IDENTIFY HISTORIC PROPERTIES
10. IDENTIFICATION EFFORTS (See 36 CFR 800.4) Identification of historic properties may include, but is not limited, any of the following identification methods. Check which steps were taken to identify historic properties in the APE. Check all that apply and describe the results.
A. RECORD SEARCH Conducted a record search through the Archaeological Research Center in Rapid City. Record searches are available for a fee by calling 605.394.1936. This will include a search of all previously-surveyed archaeological sites and structures within the APE and within one mile of the APE.
If a record search was conducted, is a copy of the results attached to this form? YES or NO
B. ON-THE-GROUND SURVEY Survey by an archaeologist and/or an architectural historian of project area not previously surveyed. Survey type will depend on the scope of the project. A list of professionals is available at http://history.sd.gov/Preservation/TechAssist/ConsultantsContractors.aspx . Guidelines for surveys and reports are available at: http://history.sd.gov/Preservation/PresLaws/r&c_guidelines.pdf and http://history.sd.gov/Preservation/OtherServices/HSArchitecturalSurveyManual2006.pdf .
If a survey was conducted, is a copy of the survey report and/or survey forms attached to this form? YES or NO
C. SEARCHED THE NATIONAL REGISTER OF HISTORIC PLACES DATABASE This database is available online at: http://nrhp.focus.nps.gov/ . NOTE: This database only includes properties listed on the National Register of Historic Places. Properties that are eligible for the National Register must also be taken into consideration.
If the National Register database was searched, is a printout of any results attached to this form? YES or NO
D. BACKGROUND RESEARCH Please describe sources reviewed and findings of research. This could include such things as reviewing county or city history books or conducting research at a local historical society, research facility, or county courthouse.
E. ORAL HISTORY INTERVIEWS Please list who was interviewed and describe what was learned through the interviews.

F. CONSULTATION Please describe who was consulted and the results of the consultation. Examples include tribes, historic preservation commissions, the public, and local historical societies. G. X OTHER Describe any other efforts undertaken to identify historic properties and the results of those efforts. Historic properties on Ellsworth AFB have been identified through a number of surveys and consultation with SD SHPO. Twenty-one properties on EAFB have been identified as eligible for inclusion on the NRHP. Three of these properties are scheduled for demolition under this action. 11. HISTORIC PROPERTIES FINDING Based on the efforts described above to identify historic properties, please choose one finding for the project. There are (mark one): Historic Properties Present in the APE No Historic Properties Present in the APE III. ASSESS EFFECTS 12. DETERMINATION OF EFFECT The federal agency must submit a determination of effect for the SHPO to review this project. Based on the information provided above, the responsible agency official should make a determination of effect on historic properties for this project. Please select and mark one of the following determinations, then explain the basis for your decision. No Historic Properties Affected [36 CFR 800.4(d)(1)] – For a determination of no historic properties affected, the agency official finds no historic properties present or that the undertaking will have no effect upon historic properties as defined in Sec. 800.16(i). Please explain. No Historic Properties located in the APE. Adverse Effect [36 CFR Part 800.5(a)(1)] – For a determination of adverse effect, the undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. Adverse effects may include reasonably foreseeable effects that may occur later in time, be farther removed in distance, or be cumulative. Please explain.

SD SHPO SECTION 106 PROJECT REVIEW FORM

SD SHPO SECTION 106 PROJECT REVIEW FORM

No Adverse Effect [36 CRF Part 800.5(b)] – For a determination of no adverse effect, the undertaking is modified or conditions are imposed to avoid adverse effects to a historic property. Please explain.

Please print and mail completed form to:

Review and Compliance Coordinator South Dakota State Historical Society 900 Governors Drive Pierre, SD 57501

Questions about Section 106 can be directed to:

Paige Olson OR Review and Compliance Coordinator Paige.Olson@state.sd.us 605.773.6004

Jenna Carlson Dietmeier Review and Compliance Archaeologist Jenna.CarlsonDietmeier@state.sd.us 605.773.8370

Questions about Section 106 projects on existing buildings or structures can be directed to:

Kate Nelson **Restoration Specialist** Kate.Nelson@state.sd.us

605.773.6005

Project information submitted cannot be returned. This documentation is kept on file at the South Dakota State Historical Society. We review faxed and electronic submissions in the same manner as any other submission and with the same considerations for clarity and completeness. However, original documents with original signature must follow all faxed and electronic submissions. The submission of incomplete, unclear, or confusing information may result in unnecessary delays in the review process until adequate information is obtained.

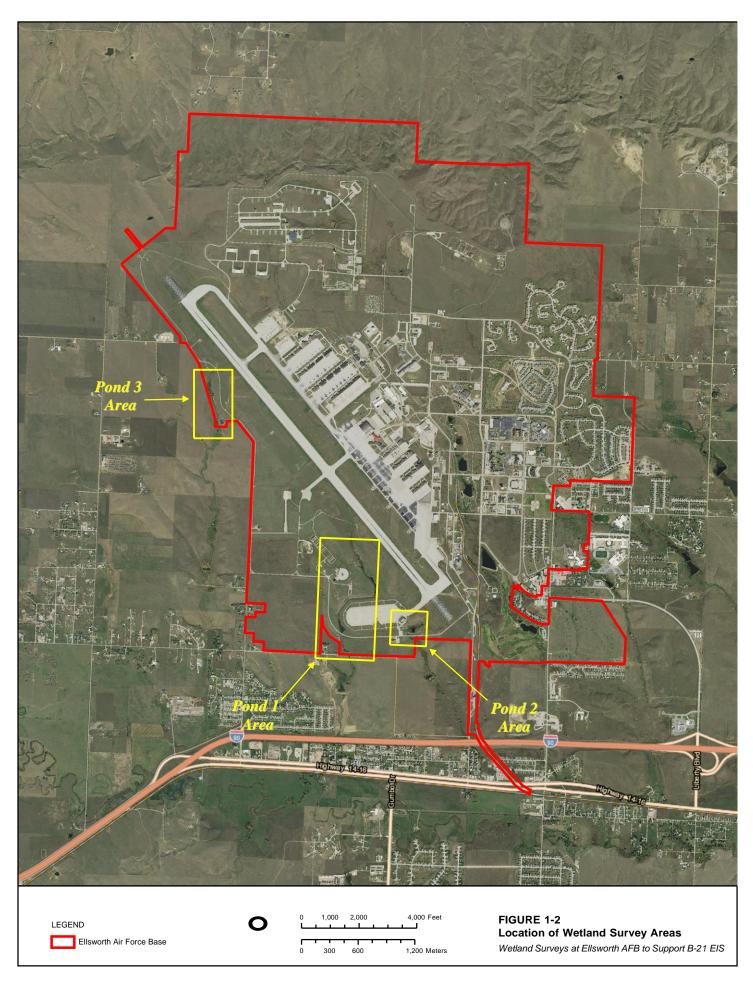
Additional Resources

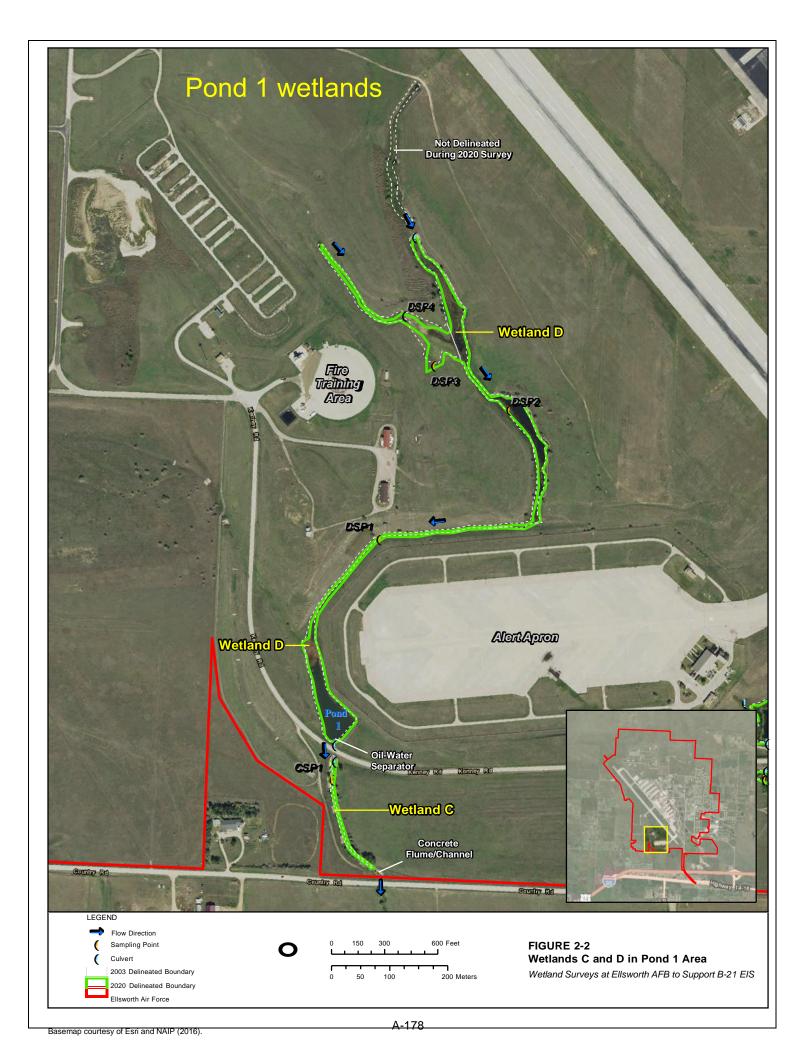
- 1. South Dakota State Historic Preservation Office http://history.sd.gov/Preservation/
 - a. Link to National and State Register Listed Properties: http://history.sd.gov/Preservation/NatReg/NatReg.aspx
 - b. Historic Contexts: history.sd.gov/Preservation/OtherServices/SHPODocs.aspx
 - c. Guidelines for Cultural Resource Surveys and Survey Reports 2005: http://history.sd.gov/Preservation/PresLaws/r&c_guidelines.pdf
- 2. Advisory Council on Historic Preservation: www.achp.gov
 - a. Link to National Historic Preservation Act of 1966 as amended
 - b. 36 CFR Part 800 Protection of Historic Properties
- 3. National Park Service: www.nps.gov/
 - a. National Register of Historic Places: www.nps.gov/nr/
 - b. Publications (National Register Bulletins, Preservation Briefs, etc.): www.nps.gov/history/publications.htm
- 4. Archaeological Research Center: history.sd.gov/Archaeology/ or 605.394.1936
 - a. Record Search Information
- 5. State Archives: history.sd.gov/Archives/ or 605.773.3804
 - a. Historic photographs
 - b. Research material

SD SHPO SECTION 106 PROJECT REVIEW FORM

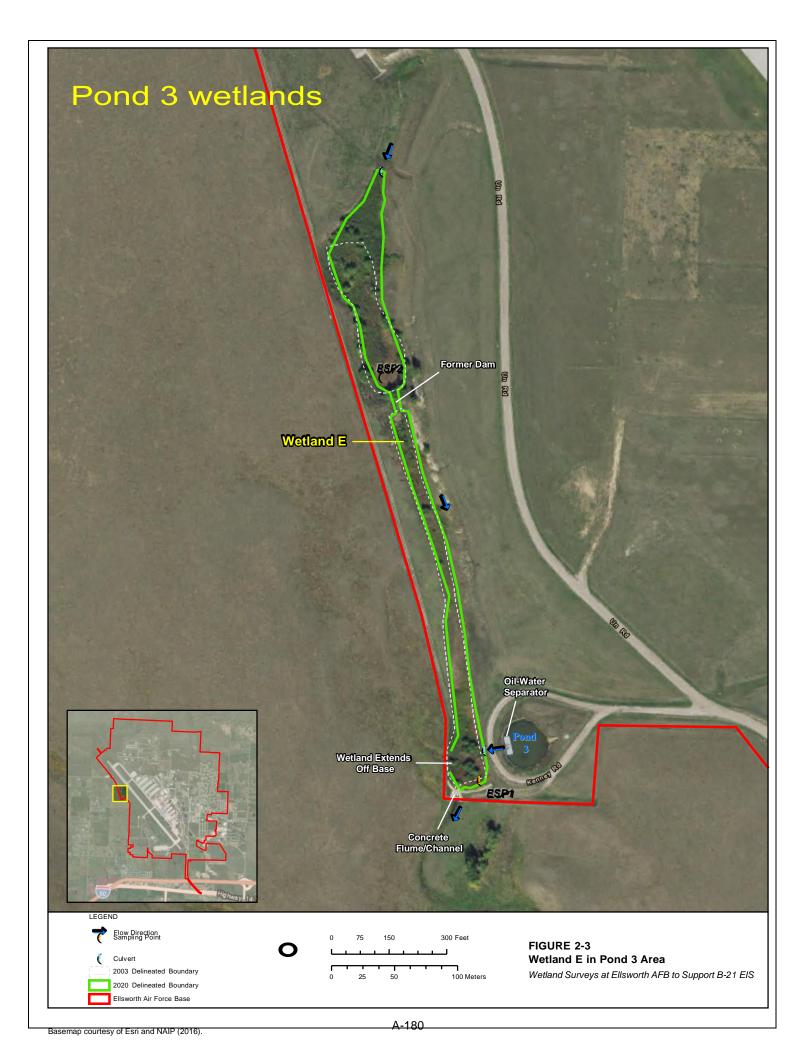
Continued #6

The EA shall provide sufficient information to analyze potential environmental impacts associated with creating positive drainage of water through three drainage systems (hereafter referred to as Pond 1 wetlands, Pond 2 wetlands, and Pond 3 wetlands) adjacent to the Ellsworth AFB primary instrument, Runway 13-31 (see Bash Reduction Project Areas map). The North Slough runs approximately 2,000 ft adjacent to the west perimeter fence beginning at the existing storm pipe outlet across from Taxiway F and running to Outfall 3 (See Pond 3 wetland map). The south slough project area is approximately 4,000 ft beginning at the programmed drainage improvement project completion point (approximately 1,000 ft from the existing storm pipe outlet on the southwest side of the runway) through Pond 1 (see Pond 1 wetland map). The Pond 2 drainage runs approximately 550 ft from the storm pipe outlet in the south Clear Zone of runway 13-31 through Pond 2 to the outlet structure (see Pond 2 wetland map). This work is needed to remove areas of ponding water, hydrophytic vegetation, and wetlands habitats in the drainage attractive to wildlife and representing Bird/Aircraft Strike Hazards (BASH). The EA shall analyze proposed methods of construction and alternate methods. Methods of conveyance of the water include installation of storm sewer pipe, concrete channels, regraded turf reinforced vegetated channel, cable concrete protected channel, or combinations of all these methods. Analysis will include possible enlargement of the Pond 1 to increase storage capacity and replacement of Pond 1 outlet structure. A wetland delineation and Jurisdictional determination were completed in 2020. The North Slough contains 2.26 acres of Jurisdictional Wetlands, the South Slough contains 5.54 acres of Jurisdictional Wetlands, and Pond 2 contains 1.43 acres of Jurisdictional Wetlands. See attached four (4) wetland maps and supporting government furnished documents for additional details on scope of the proposal.









Attachment 2 – IICEP Distribution List

United States Army Corp	os of Engineers (USACE)			
Name	Title	Phone	Address	E-Mail
USACE SD Regulatory		605-224-8531	28563 Powerhouse	SDRegulatoryMailbox@usace.army.mil
Office			Road, Pierre, SD	
			57501	
	ildlife Service (USFWS), M			T
Name	Title	Phone	Address	E-Mail
Amity Bass	Field Supervisor,	(605) 224-8693	420 South Garfield	amity_bass@fws.gov
	North and South	ext 224	Avenue, Suite 400	
	Dakota Ecological		Pierre, SD 57501	
	Services			
Federal Emergency Mana				
Name	Title	Phone	Address	E-Mail
			Denver Federal	
	Regional		Center, Building 710	
Lee DePalo	Administrator, Region	(303) 235-4812	P.O. Box 25267	
	8		Denver, CO 80255-	
			0267	
Cathy Bachhuber	Tribal Affairs, FEMA			Cathy.Bachhuber@fema.dhs.gov
	Region 8			Cutify.Bucilitudel @ ferria.difs.gov
· /	Historic Preservation Offic	· · · · · · · · · · · · · · · · · · ·		
Name	Title	Phone	Address	E-Mail
Katie Wasley	Northern Historic	605-773-2906	900 Governors Dr.	Katie.Wasley@state.sd.us
	Preservation Specialist		Pierre, SD 57501	
South Dakota Game, Fish	n, and Parks (SDGFP)			
Name	Title	Phone	Address	E-Mail
Stan Michals	Energy and Minerals	Regional Office	4130 Adventure Trail	Stan.Michals@state.sd.us
	Coordinator	No. (605)394-	Rapid City, SD 57702	
		2391		
		Cell No.		
		(605)645-8881		
	t of Agricultural and Natu	ral Resources (DA		
Name	Title	Phone	Address	E-Mail
Sean Kruger	Standards Team		Joe Foss Building,	Sean.Kruger@state.sd.us
Shannon Minerich	Standards Team	(605) 773-3351	523 East Capitol	shannon.minerich@state.sd.us
			Pierre, SD 57501	

South Dakota Ellsworth Dev Name	Title	Phone	Address	E-Mail
Glen Kane	Managing Director	605-390-7290	14 St Joseph St, Rapid City, SD 57709	glen.kane@ellsworthauthority.org
Tribal Governments				
Tribe	Name/Title	Phone	Address	E-Mail
Apache Tribe of Oklahoma	Bobby Komardley, Chairman	405-247-9493	PO Box 1330 Anadarko, OK 73005	bkomardley@outlook.com
Arapaho Tribe of the Wind	Ben Ridgley, THPO	307-851-1254	PO Box 67 St. Stevens, WY 82524	benridgley007@gmail.com
River Reservation, Wyoming	Lee Spoonhunter, Chairperson	307-332-6120	PO Box 396 Fort Washakie, WY 82514-0396	lee.spoonhunter@northernarapaho.com
Assiniboine and Sioux Tribes of the Fort Peck	Dyan Youpee, THPO	406-768-2382	PO Box 1027 Poplar, MT 59255	d.youpee@fortpecktribes.net
Indian Reservation, Montana	Floyd Azure, Chairperson	406-768-2300	PO Box 1027 Poplar, MT 59255-1027	fazure@fortpecktribes.net
Cheyenne and Arapaho	Max Bear, THPO	405-422-7416	700 Black Kettle Blvd Concho, OK 73022	mbear@c-a-tribes.org
Tribes, Oklahoma	Reggie Wassana, Governor	800-422-8224	P.O. Box 38 Concho, OK 73022	rwassana@c-a-tribes.org
Cheyenne River Sioux Tribe	Steven Vance, THPO	605-964-7554	PO Box 590 Eagle Butte, SD57625	stevev.crstpres@outlook.com
of the Cheyenne River Reservation, South Dakota	Harold Frazier, Chairperson	605-964-4155	PO Box 590 Eagle Butte, SD57625- 0590	HaroldCFrazier@yahoo.com
Comanche Nation,	Mark Woommavovah, Chairperson	580-492-3240	PO Box 908 Lawton, OK 73502	jennifer.rodriguez@comanchenation.com
Oklahoma	Martina Minthorn, THPO	580-595-9618	6 SW D Avenue Lawton, OK 73502	martina.minthorn@comanchenation.com
Confederated Salish and Kootenai Tribes of the	Kathryn McDonald, THPO	406-675- 2700, ext. 1082	PO Box 278 Pablo, MT 59855	kathryn.mcdonald@cskt.org
Flathead Reservation	Tom McDonald Chairman	406-675-2700	PO Box 278 Pablo, MT 59855-0278	council@cskt.org

Tribal Governments	1	I		
Tribe	Name/Title	Phone	Address	E-Mail
Crow Creek Sioux Tribe of	Lester Thompson Jr., Chairperson	605-245-2221	PO Box 50 Fort Thompson, SD 57339-0050	
the Crow Creek Reservation, South Dakota	Merle Marks, THPO	605-245-2221	PO Box 50 Fort Thompson, SD 57339	cchistory@midstatesd.net
	Aaron Brien, THPO	406-529-7991	PO Box 159 Crow Agency, MT 59022	aaron.brien@crow-nsn.gov
Crow Tribe of Montana	AJ Not Afraid, Chairperson	406-638-3715	PO Box 159 Crow Agency, MT 59022	aj.notafraid@crow-nsn.gov
Eastern Shoshone Tribe of the Wind River Reservation, Wyoming	Joshua Mann, THPO	307-335-2081	PO Box 538 Fort Washakie, WY 82514	jmann@easternshoshone.org
Flandreau Santee Sioux Tribe of South Dakota	Garrie Kills-A- Hundred, THPO	605-864-1236	PO Box 283 Flandreau, SD 57028	garrie.killsahundred@FSST.org
	Anthony Reider, Chairperson	605-997-3891	PO Box 283 Flandreau, SD 57028- 0283	president@fsst.org
Fort Belknap Indian Community of the Fort	Michael Blackwolf, THPO	406-353-2295	656 Agency Main Street Harlem, MT 59526-9455	mblackwolf@ftbelknap.org
Belknap Reservation of Montana	Jeffery (Jeff) Stiffarm President	406-353-2205	RR1, Box 66 Harlem, MT 59526-9455	jeffery.stiffarm@ftbelknap.org
Kiowa Indian Tribe of Oklahoma	Matthew Komalty, Chairman	508-654-2300	PO Box 369 Carnegie, OK 73015	tharris@kiowatribe.org
Lower Brule Sioux Tribe of the Lower Brule Reservation, South Dakota	Clyde Estes, Chairman	605-473-5561	187 Oyate Circle Lower Brule, SD 57548- 8500	ClydeEstes@lowerbrule.net
Northern Cheyenne Tribe of the Northern Cheyenne	Serena Wetherelt Vice-President	406-477-6284	PO Box 128 Lame Deer, MT 59043-0128	serena.wetherelt@cheyennenation.com
Indian Reservation, Montana	Teanna Limpy, THPO	406-477-4839	PO Box 128 Lame Deer, MT 59043	Teanna.Limpy@cheyennenation.com
Oglala Sioux Tribe	Julian Bear Runner, President	605-867-8487	PO Box 2070 Pine Ridge, SD 57770- 2070	president.bearrunner@oglala.org

Tribe	Name/Title	Phone	Address	E-Mail
	Thomas Brings, THPO	605-867-5624	PO Box 129 Kyle, SD 57752	t.brings@oglala.org
Ponca Tribe of Nebraska	Larry Wright, Chairman	402-857-3391	PO Box 288 Niobrara, NE 68760	
Ponca Tribe of Nebraska	Stacy Laravie, THPO	402-857-3519	PO Box 288 Niobrara, NE 68760	ssettje@poncatribe-ne.org
Rosebud Sioux Tribe of the Rosebud Indian Reservation,	Scott O. Herman, President	605-747-2381	PO Box 430 Rosebud, SD 57570-0430	
South Dakota	Ione Quigley, THPO	605-747-4211	PO Box 809 Rosebud, SD 57570	ione.quigley@rst-nsn.gov
Santee Sioux Nation,	Misty Frazier, THPO	402-857-3568	425 Frazier Ave. N. Suite 2 Niobrara, NE 68760	ssn.thpo@gmail.com
Nebraska	Roger Trudell, Chairperson	402-857-2772	108 Spirit Lake Ave. W Niobrara, NE 68760	rtrudell@santeedakota.org
Sisseton-Wahpeton Oyate of the Lake Traverse Reservation, South Dakota	Verlyn Beaudreau, Interim Chairperson	605-698-3911	PO Box 509 Agency Village, SD 57262-0509	chairman@swo-nsn.gov
	Dianne Desrosiers, THPO	605-698-3584	P.O. Box 907 Sisseton, SD 57262-0509	dianned@swo-nsn.gov
Spirit Lake Tribe, North Dakota	Susie Fox, Interim Director THPO	701-766-4031	P.O. Box 198 Fort Totten, ND 58335-0359	sfox@gondtc.com
	Myra Pearson, Chairwoman	701-766-4221	PO Box 359 Fort Totten, ND 58335-0359	slt-adminsec@spiritlakenation.com
Standing Rock Sioux Tribe of North & South Dakota	Janet Alkire, Chairperson	701-854-8500	PO Box D Fort Yates, ND 58538-0522	
	Jon Eagle, THPO	701-854-8645	PO Box D Fort Yates, ND 58538	j.eagle@standingrock.org
Yankton Sioux Tribe of South Dakota	Kip Spotted Eagle, THPO	605-384-3641	PO Box 1153 Wagner, SD 57380	yst.thpo@gmail.com
	Robert Hawk, Chairperson	605-384-3641 ext. 1015	PO Box 1153 Wagner, SD 57380-1153	robertflyinghawk@gmail.com



September 19, 2022

Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB, SD 57706-4710

SECTION 106 PROJECT CONSULTATION

Project: 220823002F – BASH Drainage Improvements EA

Location: Pennington USAF - U.S. Air Force

Dear Colonel Sheffield,

Thank you for the opportunity to comment on the above referenced project pursuant to 54 U.S.C. 306108, also known as Section 106 of the National Historic Preservation Act of 1966 (as amended). The South Dakota Office of the State Historic Preservation Officer (SHPO) concurs with your determination regarding the effect of the proposed undertaking on the non-renewable cultural resources of South Dakota.

On August 23, 2022, SHPO received your letter and the Section 106 Project Review Form dated June 6, 2022. In a September 15, 2022, email reply, John Carreiro clarified that no buildings or structures will be demolished during the BASH EA project; all work activities, including staging, will be confined to the areas delineated in yellow on the maps submitted to SHPO; and the Area of Potential Effects (APE) for the BASH EA project has not been subject to previous archaeological survey because it has been previously disturbed. Based upon the information provided and a brief check of our records, SHPO concurs with your determination of "No Historic Properties Affected" for the proposed undertaking, provided all project activities are confined to the previously disturbed areas delineated in yellow on the maps submitted to SHPO.

Changes in the location and/or nature of activities from those identified in your request will require the submission of additional documentation pertaining to the identification of historic properties, as described in 36 C.F.R. § 800.4, and/or the undertaking's effects on historic properties, as described in 36 C.F.R. § 800.11.

Concurrence of the SHPO does not relieve the federal agency official from consulting with other



appropriate parties, as described in 36 C.F.R. § 800.2(c).

Please ensure that contractors and construction personnel are aware that construction activities must halt if any cultural resources are discovered during project implementation. If historic properties are discovered or unanticipated effects on historic properties are found after the agency official has completed the Section 106 process, the agency official shall avoid, minimize or mitigate the adverse effects to such properties and notify the SHPO and Indian tribes that might attach religious and cultural significance to the affected property within 48 hours of the discovery, pursuant to 36 C.F.R. § 800.13.

Should you require any additional information, please contact Jenna Carlson Dietmeier at Jenna.CarlsonDietmeier@state.sd.us or at (605)773-8370. Your concern for the non-renewable cultural heritage of our state is appreciated.

Sincerely, Ted M. Spencer State Historic Preservation Officer

Jenna Carlson Dietmeier, PhD Review & Compliance Coordinator

Jenna Caulan Dulm

CC: Gregory Johnson - Environmental Compliance Chief, Ellsworth Air Force Base John Carreiro - Natural & Cultural Resource Manager, Ellsworth Air Force Base



DEPARTMENT OF THE AIR FORCE HEADQUARTERS 28TH BOMB WING (AFGSC) ELLSWORTH AIR FORCE BASE SOUTH DAKOTA



Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Shannon Minerich and Mr. Sean Kruger South Dakota Department of Agricultural and Natural Resources (DANR) Standards Team Joe Foss Building, 523 East Capitol Pierre, SD 57501

Dear Ms. Minerich and Mr. Kruger,

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment.

The goal of the USAF BASH Program is to preserve war fighting capabilities by reducing wildlife hazards to aircraft operations. EAFB is located within a major migration route (Central Flyway) for several bird species including waterfowl. Open water found in and around the airfield and the installation attract migrating waterfowl, as well as other bird and wildlife species. Birds flying from surrounding areas to the open water adjacent to the runway can place the birds in direct conflict with flight operations increasing the risk of bird strikes, which cause significant aircraft damage and endanger human lives.

The purpose of the Proposed Action is to modify on-site wetlands, so they no longer present a BASH risk to flight operations, using the airfield design standards set forth in the current EAFB BASH Plan and Air Force Instruction (AFI) 91-212. The project is needed due to wildlife's demonstrated recurrent use of wetland areas adjacent to the runway. The successes of EAFB's flight missions hinge on the operational readiness of the airfield, which is negatively impacted by wildlife habitat adjacent to the runway. The Proposed Action is needed to permanently resolve BASH risk associated with the subject wetlands, ensuring EAFB can continue to fulfill flight missions without further flight safety risk associated with these wildlife attractants.

The Proposed Action would include removal and/or modification of three separate wetland areas within the airfield perimeter fence: Pond 2, North Slough, and South Slough, totaling approximately 9.3 acres of wetlands. The Proposed Action may include a variety of engineered solutions to retain the storm water management function of the wetlands while removing wildlife attractants. Specific construction methods that may be used as part of the Proposed Action include, but are not limited to, culvert extensions, maintaining open drainage features with a hardened bottom, and sharpened drainage features and/or pond edges. Figures showing the BASH risk areas in question are in Attachment 1.

The USAF respectfully requests any information or specific comments your agency may have regarding the potential impacts of the proposed action, including but not limited to, natural, social, cultural, and archaeological resources. EAFB also requests any information that your agency may have regarding other proposed, ongoing, or recently completed projects in the vicinity of the Proposed Action. A list of all entities that are included on this distribution is included in Attachment 2.

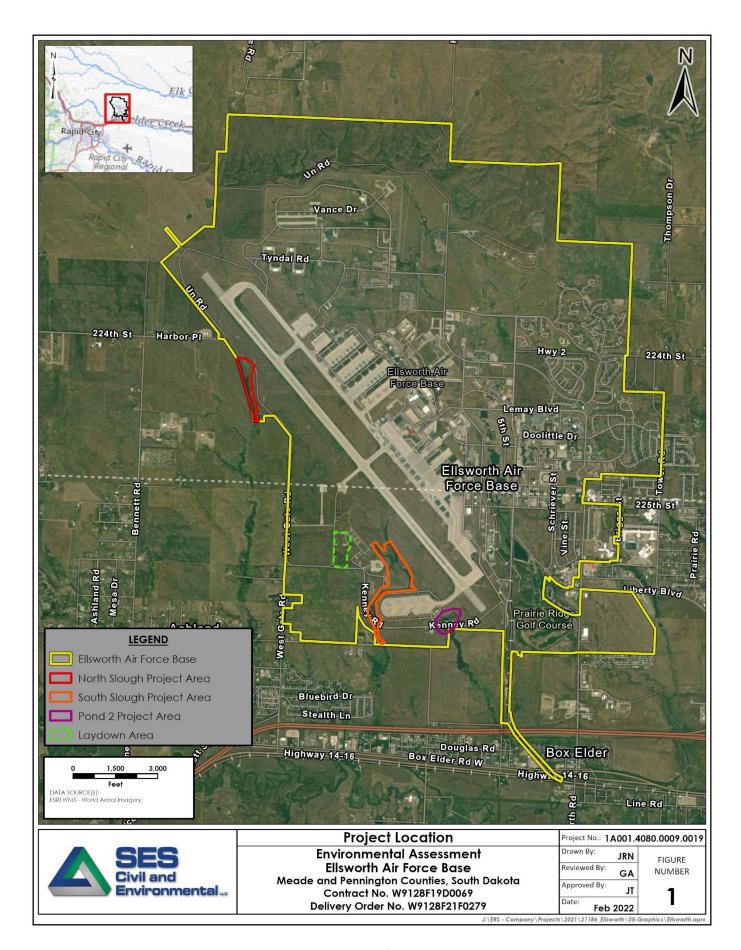
Please provide any comments, concerns, or relevant background or supporting information within thirty (30) days of receipt of this letter to Ellsworth Air Force Base, Attn: Mr. Greg Johnson, Environmental Compliance Chief, 28 CES/CEIE, 2125 Scott Dr., Ellsworth AFB, SD 57706; or by email at gregory.johnson.8@us.af.mil, with the subject titled as ATTN: EAFB BASH EA. Thank you for your assistance.

Sincerely

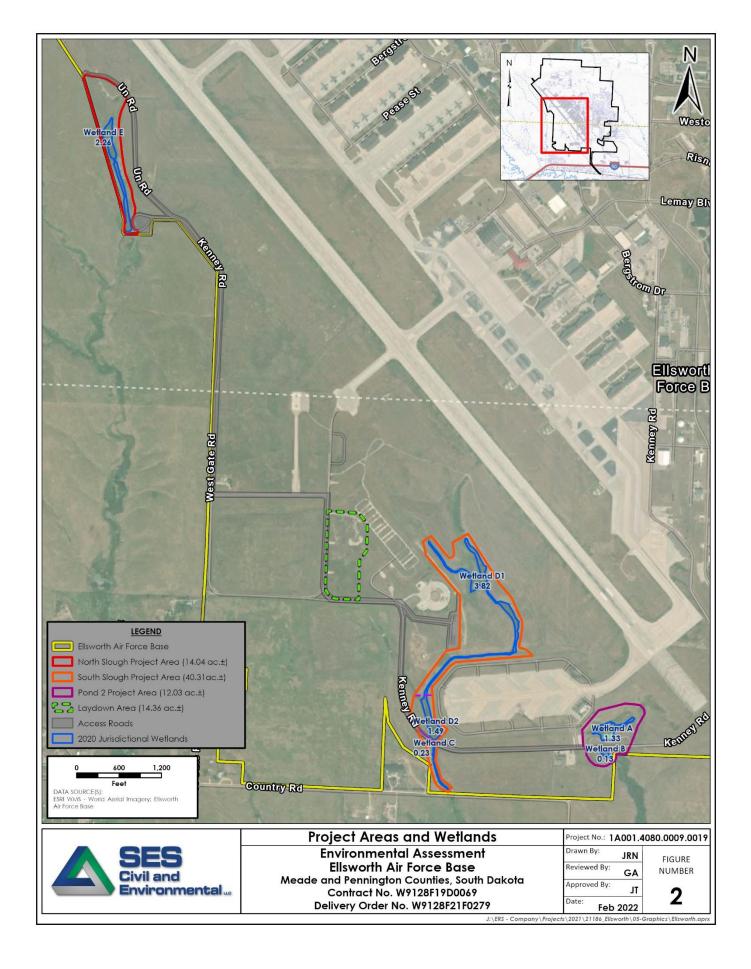
SHEFFIELD.JOSE Digitally signed by SHEFFIELD.JOSEPH.L.11581800 PH.L.1158180096 Date: 2022.08.16 11:23:14 -06'00' JOSEPH L. SHEFFIELD, Colonel USAF Commander

- 2 Attachments:
- 1. Figures
- 2. Interagency and Intergovernmental Coordination for Environmental Planning (IICEP) Distribution List

Attachment 1 – Figures



Page **2** of **8**



Page 3 of 8

Attachment 2 – IICEP Distribution List

United States Army Corp	s of Engineers (USACE)			
Name	Title	Phone	Address	E-Mail
USACE SD Regulatory Office		605-224-8531	28563 Powerhouse Road, Pierre, SD 57501	SDRegulatoryMailbox@usace.army.mil
United States Fish and Wi	ildlife Service (USFWS), M	Iountain Prairie R	egion	
Name	Title	Phone	Address	E-Mail
Amity Bass	Field Supervisor, North and South Dakota Ecological Services	(605) 224-8693 ext 224	420 South Garfield Avenue, Suite 400 Pierre, SD 57501	amity_bass@fws.gov
Federal Emergency Mana	agement Agency (FEMA)	•		-
Name	Title	Phone	Address	E-Mail
Lee DePalo	Regional Administrator, Region 8	(303) 235-4812	Denver Federal Center, Building 710 P.O. Box 25267 Denver, CO 80255- 0267	
Cathy Bachhuber	Tribal Affairs, FEMA Region 8			Cathy.Bachhuber@fema.dhs.gov
South Dakota (SD) State I	Historic Preservation Offic	ee (SHPO)		
Name	Title	Phone	Address	E-Mail
Katie Wasley	Northern Historic Preservation Specialist	605-773-2906	900 Governors Dr. Pierre, SD 57501	Katie.Wasley@state.sd.us
South Dakota Game, Fish	, and Parks (SDGFP)		<u> </u>	
Name	Title	Phone	Address	E-Mail
Stan Michals	Energy and Minerals Coordinator	Regional Office No. (605)394- 2391 Cell No. (605)645-8881	4130 Adventure Trail Rapid City, SD 57702	Stan.Michals@state.sd.us
	t of Agricultural and Natu	ral Resources (DA		
Name	Title	Phone	Address	E-Mail
Sean Kruger	Standards Team		Joe Foss Building,	Sean.Kruger@state.sd.us
Shannon Minerich	Standards Team	(605) 773-3351	523 East Capitol Pierre, SD 57501	shannon.minerich@state.sd.us

Name	Title	Phone	Address	E-Mail
Glen Kane	Managing Director	605-390-7290	14 St Joseph St, Rapid City, SD 57709	glen.kane@ellsworthauthority.org
Tribal Governments				
Tribe	Name/Title	Phone	Address	E-Mail
Apache Tribe of Oklahoma	Bobby Komardley, Chairman	405-247-9493	PO Box 1330 Anadarko, OK 73005	bkomardley@outlook.com
Arapaho Tribe of the Wind	Ben Ridgley, THPO	307-851-1254	PO Box 67 St. Stevens, WY 82524	benridgley007@gmail.com
River Reservation, Wyoming	Lee Spoonhunter, Chairperson	307-332-6120	PO Box 396 Fort Washakie, WY 82514-0396	lee.spoonhunter@northernarapaho.com
Assiniboine and Sioux Tribes of the Fort Peck	Dyan Youpee, THPO	406-768-2382	PO Box 1027 Poplar, MT 59255	d.youpee@fortpecktribes.net
Indian Reservation, Montana	Floyd Azure, Chairperson	406-768-2300	PO Box 1027 Poplar, MT 59255-1027	fazure@fortpecktribes.net
Cheyenne and Arapaho	Max Bear, THPO	405-422-7416	700 Black Kettle Blvd Concho, OK 73022	mbear@c-a-tribes.org
Tribes, Oklahoma	Reggie Wassana, Governor	800-422-8224	P.O. Box 38 Concho, OK 73022	rwassana@c-a-tribes.org
Cheyenne River Sioux Tribe	Steven Vance, THPO	605-964-7554	PO Box 590 Eagle Butte, SD57625	stevev.crstpres@outlook.com
of the Cheyenne River Reservation, South Dakota	Harold Frazier, Chairperson	605-964-4155	PO Box 590 Eagle Butte, SD57625- 0590	HaroldCFrazier@yahoo.com
Comanche Nation,	Mark Woommavovah, Chairperson	580-492-3240	PO Box 908 Lawton, OK 73502	jennifer.rodriguez@comanchenation.com
Oklahoma	Martina Minthorn, THPO	580-595-9618	6 SW D Avenue Lawton, OK 73502	martina.minthorn@comanchenation.com
Confederated Salish and Kootenai Tribes of the	Kathryn McDonald, THPO	406-675- 2700, ext. 1082	PO Box 278 Pablo, MT 59855	kathryn.mcdonald@cskt.org
Flathead Reservation	Tom McDonald Chairman	406-675-2700	PO Box 278 Pablo, MT 59855-0278	council@cskt.org

Tribal Governments				
Tribe	Name/Title	Phone	Address	E-Mail
	Lester Thompson Jr.,	605-245-2221	PO Box 50	
Crow Creek Sioux Tribe of	Chairperson		Fort Thompson, SD 57339-0050	
the Crow Creek Reservation, South Dakota	Merle Marks, THPO	605-245-2221	PO Box 50 Fort Thompson, SD	cchistory@midstatesd.net
			57339	
C. Till CM	Aaron Brien, THPO	406-529-7991	PO Box 159 Crow Agency, MT 59022	aaron.brien@crow-nsn.gov
Crow Tribe of Montana	AJ Not Afraid, Chairperson	406-638-3715	PO Box 159 Crow Agency, MT 59022	aj.notafraid@crow-nsn.gov
Eastern Shoshone Tribe of the Wind River Reservation, Wyoming	Joshua Mann, THPO	307-335-2081	PO Box 538 Fort Washakie, WY 82514	jmann@easternshoshone.org
Elandracy Contac Ciany	Garrie Kills-A- Hundred, THPO	605-864-1236	PO Box 283 Flandreau, SD 57028	garrie.killsahundred@FSST.org
Flandreau Santee Sioux Tribe of South Dakota	Anthony Reider, Chairperson	605-997-3891	PO Box 283 Flandreau, SD 57028- 0283	president@fsst.org
Fort Belknap Indian Community of the Fort	Michael Blackwolf, THPO	406-353-2295	656 Agency Main Street Harlem, MT 59526-9455	mblackwolf@ftbelknap.org
Belknap Reservation of Montana	Jeffery (Jeff) Stiffarm President	406-353-2205	RR1, Box 66 Harlem, MT 59526-9455	jeffery.stiffarm@ftbelknap.org
Kiowa Indian Tribe of Oklahoma	Matthew Komalty, Chairman	508-654-2300	PO Box 369 Carnegie, OK 73015	tharris@kiowatribe.org
Lower Brule Sioux Tribe of the Lower Brule Reservation, South Dakota	Clyde Estes, Chairman	605-473-5561	187 Oyate Circle Lower Brule, SD 57548- 8500	ClydeEstes@lowerbrule.net
Northern Cheyenne Tribe of the Northern Cheyenne	Serena Wetherelt Vice-President	406-477-6284	PO Box 128 Lame Deer, MT 59043-0128	serena.wetherelt@cheyennenation.com
Indian Reservation, Montana	Teanna Limpy, THPO	406-477-4839	PO Box 128 Lame Deer, MT 59043	Teanna.Limpy@cheyennenation.com
Oglala Sioux Tribe	Julian Bear Runner, President	605-867-8487	PO Box 2070 Pine Ridge, SD 57770- 2070	president.bearrunner@oglala.org

Tribal Governments Tribe	Name/Title	Phone	Address	E-Mail
11100	Thomas Brings,	605-867-5624	PO Box 129	t.brings@oglala.org
	THPO	003 007 3021	Kyle, SD 57752	t.ormgo c ogiana.org
	Larry Wright,	402.057.2201	PO Box 288 Niobrara,	
Daniel Telle of Malenales	Chairman	402-857-3391	NE 68760	
Ponca Tribe of Nebraska	Stacy Laravie, THPO	402-857-3519	PO Box 288 Niobrara,	ssattia@nanaatuiha na aug
	Stacy Laravie, THFO		NE 68760	ssettje@poncatribe-ne.org
Rosebud Sioux Tribe of the	Scott O. Herman,	605-747-2381	PO Box 430	
Rosebud Indian Reservation,	President		Rosebud, SD 57570-0430	
South Dakota	Ione Quigley, THPO	605-747-4211	PO Box 809	ione.quigley@rst-nsn.gov
South Dakota			Rosebud, SD 57570	
	Misty Frazier, THPO	402-857-3568	425 Frazier Ave. N. Suite	ssn.thpo@gmail.com
Santee Sioux Nation,			2	
Nebraska			Niobrara, NE 68760	
Ttooraska	Roger Trudell,	402-857-2772	108 Spirit Lake Ave. W	rtrudell@santeedakota.org
	Chairperson		Niobrara, NE 68760	
Sisseton-Wahpeton Oyate of	Verlyn Beaudreau,	605-698-3911	PO Box 509 Agency	chairman@swo-nsn.gov
the Lake Traverse	Interim Chairperson		Village, SD 57262-0509	
Reservation, South Dakota	Dianne Desrosiers,	605-698-3584	P.O. Box 907 Sisseton,	dianned@swo-nsn.gov
Reservation, South Bakota	THPO		SD 57262-0509	
	Susie Fox, Interim	701-766-4031	P.O. Box 198 Fort	sfox@gondtc.com
Spirit Lake Tribe, North	Director THPO		Totten, ND 58335-0359	
Dakota	Myra Pearson,	701-766-4221	PO Box 359 Fort Totten,	slt-adminsec@spiritlakenation.com
	Chairwoman		ND 58335-0359	
	Janet Alkire,	701-854-8500	PO Box D Fort Yates,	
Standing Rock Sioux Tribe of North & South Dakota	Chairperson		ND 58538-0522	
	Jon Eagle, THPO	701-854-8645	PO Box D	j.eagle@standingrock.org
			Fort Yates, ND 58538	
	Kip Spotted Eagle,	605-384-3641	PO Box 1153 Wagner,	yst.thpo@gmail.com
Yankton Sioux Tribe of	THPO		SD 57380	
South Dakota	Robert Hawk,	605-384-3641	PO Box 1153 Wagner,	robertflyinghawk@gmail.com
	Chairperson	ext. 1015	SD 57380-1153	



DEPARTMENT of AGRICULTURE and NATURAL RESOURCES

JOE FOSS BUILDING 523 E CAPITOL AVE PIERRE SD 57501-3182 danr.sd.gov

September 21, 2022

Greg Johnson
Environmental Compliance Chief
28 CES/CEIE
2125 Scott Drive
Ellsworth Air Force Base, SD 57706

Subject: EAFB BASH EA - Environmental Review - Modify Existing Wetlands

Adjacent to Primary Instrument Runways.

Dear Col. Sheffield:

The South Dakota Department of Agriculture and Natural Resources (DANR) has reviewed the above-referenced project for potential impacts to natural resources. Based on the information submitted in your letter received August 22, 2022, DANR has the following comments and permitting requirements.

Tanks and Spills

The Inspection, Compliance, and Remediation Program (ICRP) maintains a database of registered storage tanks and spills/environmental events, including petroleum and chemical releases in South Dakota. Our records identified several previous environmental events within the Ellsworth AFB property boundary. We also identified several storage tanks within the boundary of the Ellsworth AFB. In addition to these specific sites and tanks, Ellsworth AFB is identified as having per-and polyfluoroalkyl substances within the soil and groundwater. We recommend reviewing our online spills and tanks database regularly as your project progresses, to determine if future spills or new tanks are in or near your project area. For more information about tanks and spills/environmental events (including pdf copies of many case files), please visit: https://apps.sd.gov/nr42interactivemap.

While we do our best to maintain accurate information about environmental events and tanks, in some cases the location information provided to us may have been inaccurate. If contamination is caused by or is encountered during onsite construction activity, that contamination must be reported to DANR at 605-773-3296. Contaminated soil that has been excavated should be segregated from clean soil and sampled to determine disposal requirements. Further, any piping, equipment, or other material to be placed in a location where it will be in contact with contaminated soil or groundwater, should be evaluated to determine if it is compatible with the contaminant. If you have questions, please contact Baylee Hoff at baylee.hoff@state.sd.us or (605) 773-3296.

Solid and Hazardous Waste

It appears, based on the information provided, this project will have little or no impact on solid waste management in the area. If you have any questions, please contact Waste Management at 605-773-3153.

It is not expected that any hazardous wastes sites will be encountered within the vicinity of your project area. However, if road construction is planned for areas within a city or town, the contractor should contact this Department prior to construction. Should any hazardous waste be generated during the implementation of this project, the generator must abide by all applicable hazardous waste regulations. To determine whether your project may generate hazardous waste, visit:

https://www.epa.gov/hwgenerators/managing-your-hazardous-waste-guide-small-businesses. If you have any questions please contact Anthony Wagner at 605-773-3153, or anthony.wagner@state.sd.us.

Demolition or renovation of a building structure may be subject to the South Dakota asbestos requirements. If demolition or renovation is part of this construction project, or if the scope of the project changes to include demolition or renovation, please contact Anthony Wagner at 605-773-3153, or anthony.wagner@state.sd.us.

Air Quality

Based on the information provided, it appears this project will have minor impacts to air quality in South Dakota. This impact would be through source and fugitive emissions. In many cases, an air quality permit is required to operate equipment with point source emissions. A permit application can be obtained from the Air Quality or Minerals and Mining Program. Fugitive emissions, although not covered under State air quality regulations, are a common source of public concern and may be subject to local or county ordinances. Please contact your local officials to discuss requirements regarding fugitive emissions.

For further air quality information, please contact Rick Boddicker, Air Quality Program, telephone number 605-773-3151.

Drinking Water

Based on the information provided, this project will not have adverse environmental effects to drinking water in this area. Should the parameters of your project change, please reach out to Mark Mayer at 605-773-6039 or Mark.Mayer@state.sd.us.

Surface Water

The Surface Water Quality Program (SWQ) has reviewed your request for comments letter. Based on the information provided, SWQ has the following comments:

1. At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site. Any construction activity that disturbs an area of one or more acres of land must have authorization under the General Permit for Storm Water

Discharges Associated with Construction Activities. Contact the Department of Agriculture and Natural Resources for additional information or guidance at 1-800-SDSTORM (1-800-737-8676) or https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/default.aspx.

- 2. A Surface Water Discharge permit may be required if any construction dewatering should occur as a result of this project. Please contact this office for more information.
- 3. Impacts to tributaries, creeks, wetlands, and lakes should be avoided by this project. These waterbodies are considered waters of the state and are protected under Administrative Rules of South Dakota Chapter 74:51. Special construction measures may have to be taken to ensure that water quality standards are not violated.
- 4. The discharge of pollutants from any source, including indiscriminate use of fill material, may not cause destruction or impairment except where authorized under Section 404 of the Federal Water Pollution Control Act. Please contact the United States Army Corps of Engineers for more information 605-224-8531 and to obtain a 404 permit. SD DANR is the certifying authority for 401 water quality certification. Please email Shannon.Minerich@state.sd.us for more information on the 401 water quality certification process.

Groundwater

Based on the information provided, this project is unlikely to have adverse effects on ground water quality. Should the parameters of your project change, please reach out to Matt Hicks at 605-773-5337 or Matt.Hicks@state.sd.us.

Thank you for providing DANR the opportunity to comment on this project. If you have any questions regarding the information provided, please contact me at 605-773-3296.

Sincerely,

Baylee Hoff

Environmental Scientist

Trish Kindt for

SD DANR- Environmental Assessment Contact

Phone: (605) 773-3296

Email: Baylee.Hoff@state.sd.us

cc: Dustin Willet, Pennington County EM

Eric Pearson, Meade County EM

TSgt, USAF Timothy R. Bricker, Emergency Manager

Colonel Joseph L. Sheffield, Commander, 28th Bomb Wing, 1958 Scott Drive

Suite 1, Ellsworth AFB, SD 57796- 4710



DEPARTMENT OF THE AIR FORCE HEADQUARTERS 28TH BOMB WING (AFGSC) ELLSWORTH AIR FORCE BASE SOUTH DAKOTA



Colonel Joseph L. Sheffield Commander 28th Bomb Wing 1958 Scott Drive Suite 1 Ellsworth AFB SD 57706-4710

Ms. Amity Bass
United States Fish and Wildlife Service (USFWS), Mountain Prairie Region
Field Supervisor, North and South Dakota Ecological Services
420 South Garfield Avenue, Suite 400
Pierre SD 57501

Dear Ms. Bass

The United States Air Force (USAF) is preparing an Environmental Assessment (EA) to modify existing wetlands adjacent to the primary instrument runway to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard (BASH) risk at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota (SD). Pursuant to the National Environmental Policy Act of 1969 (NEPA; 42 United States Code 4321 et seq.), Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations Part 1500 et seq., as revised in July 2020), and the USAF Environmental Impact Analysis Process (32 Code of Federal Regulations Part 989), EAFB will prepare an EA that considers the potential consequences of the Proposed Action to human health and the natural environment. The Project Areas are displayed in the attached figures (Attachment 1).

In accordance with Section 7 of the Endangered Species Act (ESA), we obtained a species list from the Information for Planning and Consultation Database (IPaC) on June 7, 2022 (Attachment 2).

EAFB expects that this project will not affect protected species based on the following:

- 1. EAFB Integrated Natural Resource Management Plan (INRMP) (updated 2020): No federally protected species have been documented within EAFB.
- 2. The species list from the IPaC indicated that there is no critical habitat present within the vicinity of the project areas. While the IPaC species list indicated the potential for Northern Long-Eared Bat and Red Knot to be present, these species have not been documented within the vicinity of the project areas. The candidate species Monarch Butterfly has been documented within the vicinity of the project areas.

At this time, the DAF respectfully requests your consideration of the following: Please send any information relevant to natural resources management at EAFB. These could include recent studies

(2015-present), new regulations/policy, or agency initiatives that you would like to be considered. The draft EA is anticipated to be ready in August 2021 for your review. We will provide thirty (30) days to review and appreciate your comments before we finalize the EA.

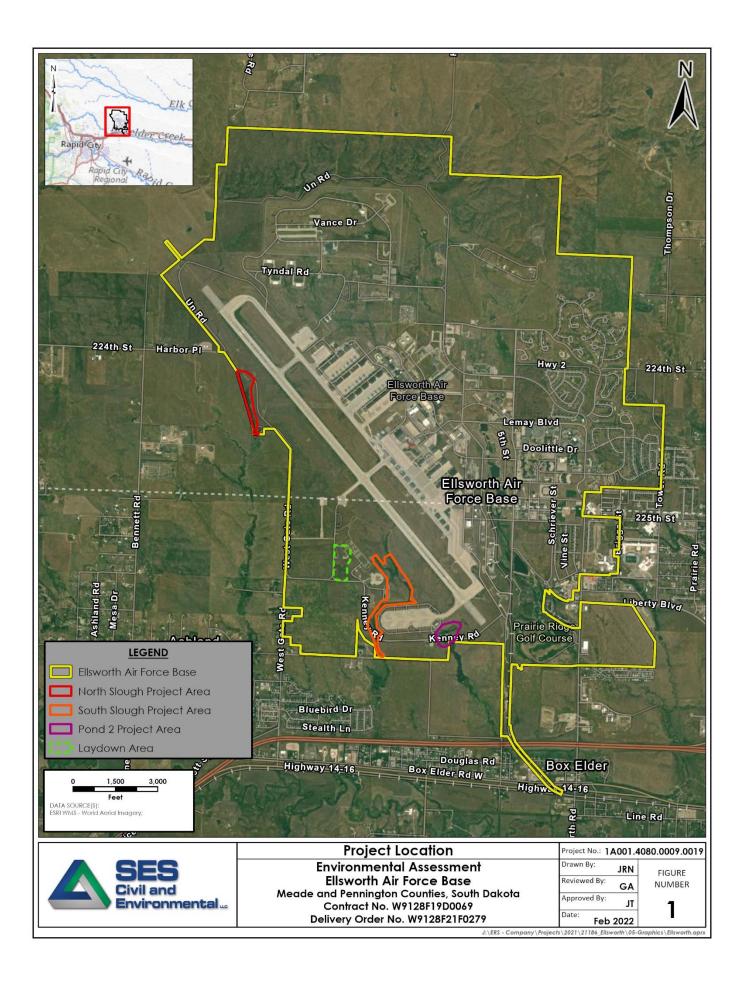
Please provide any information to Ellsworth Air Force Base, Attn: Mr. Greg Johnson, Environmental Compliance Chief, 28 CES/CEIE, 2125 Scott Dr., Ellsworth AFB, SD 57706; or by email at gregory.johnson.8@us.af.mil, with the subject titled as ATTN: EAFB BASH EA. Thank you for your assistance.

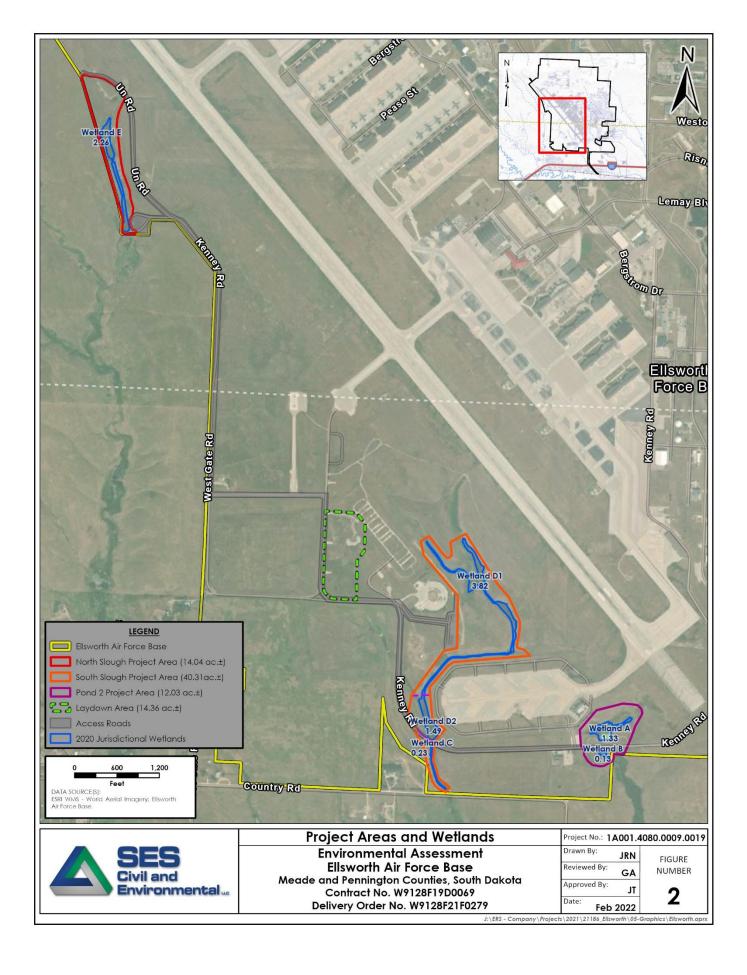
Sincerely

SHEFFIELD.JOSE Digitally signed by SHEFFIELD.JOSEPH.L.11581800 PH.L.1158180096 Date: 2022.08.16 11:26:00 -06'00' JOSEPH L. SHEFFIELD, Colonel USAF Commander

- 2 ttachments:
- 1. Figures
- 2. Species List from Information for Planning and Consultation (IPaC)

Attachment 1 – Figures





Attachment 2 – Species List from IPaC



United States Department of the Interior



FISH AND WILDLIFE SERVICE 420 S Garfield Ave, Suite 400 Pierre, South Dakota 57501-5408

June 7, 2022

In Reply Refer To: Species list for Ellsworth AFB

Mr. Gary Brundige Natural/Cultural/EIAP Program Manager 28 CES/CEIEC 1940 EP Howe Drive Ellsworth AFB, SD 57706

Dear Mr. Gary Brundige,

Thank you for your email received June 6, 2022 requesting a species list for Ellsworth Airforce Base. The project area used to create this list encompasses only Ellsworth Airforce Base. This project is located in Meade County, South Dakota.

ESA Federally Listed Species

In accordance with section 7(c) of the Endangered Species Act, as amended, 16 U.S.C. 1531 et seq., we have determined that the following federally listed and candidate species may occur in the project area (this list is considered valid for 90 days):

Species	<u>Status</u>	Expected Occurrence
Monarch Butterfly (Danaus plexippus)	Candidate	Spring-Fall, resident and migrant
Northern Long-eared Bat (Myotis septentrionalis)	Threatened	Summer resident, seasonal migrant, known winter resident in Black Hills
Rufa Red Knot (Calidris canutus rufa)	Threatened	Rare seasonal migrant

Monarch butterfly

In December 2020, the Service determined that the monarch is warranted for listing under the ESA but is precluded at this time by higher priority listing actions. The monarch is a large

butterfly that lives in a variety of habitats throughout North America and various additional locations across the globe. The monarch needs milkweed (*Asclepias* spp.) for breeding. Adults use a wide variety of flowering plants throughout migration and breeding. Important nectar sources during the spring migration typically include *Coreopsis* spp., *Viburnum* spp., *Phlox* spp., and early blooming milkweeds. Important nectar sources during fall migration include goldenrods (*Solidago* spp.) asters (*Symphyotrichum* spp. and *Eurybia* spp.), gayfeathers (*Liatris* spp.), and coneflowers (*Helianthus* spp.), thistle (*Cirsium* spp.) and sage (*Salvia* spp.). Lists of preferred nectar plants by region specific to monarchs can be found at http://www.xerces.org/monarch-nectar-plants/. Avoiding milkweed patches would protect eggs and larvae. Avoiding nectar sources would conserve food for the adults during reproductive and migration stages.

Northern Long-eared Bat

The northern long-eared bat is a medium-sized brown bat listed as threatened under the Endangered Species Act. Northern long-eared bats are known to be present in South Dakota year-round, primarily roosting singly or in colonies underneath bark, in cavities or in crevices of both live and dead trees in the summer. Some hibernacula have been documented in caves/mines in the Black Hills. The species has been documented in other forested areas in the state during the summer months and along the Missouri River during migration. Summer survey guidelines for this species are identical for those established for the Indiana Bat (available online at: https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html). White nose syndrome - a fungus affecting hibernating bats - is considered a significant threat to this species, but individuals may be harmed by other activities such as modifications to hibernacula, timber harvest, human disturbance, and collisions with wind turbines. A 4(d) rule has been published that exempts take of Northern long-eared bats in certain circumstances. For more information, see: https://www.fws.gov/Midwest/Endangered/mammals/nleb/index.html.

Rufa Red Knot

The rufa red knot is a robin-sized shorebird listed as threatened under the Endangered Species Act (see: < http://www.gpo.gov/fdsys/pkg/FR-2014-12-11/pdf/2014-28338.pdf> for more information). The red knot migrates annually between its breeding grounds in the Canadian Arctic and several wintering regions, including the Southeast United States, the Northeast Gulf of Mexico, northern Brazil, and Tierra del Fuego at the southern tip of South America. Although it is primarily a coastal species, small numbers of rufa red knots are reported annually across the interior United States (i.e., greater than 25 miles from the Gulf or Atlantic Coasts) during spring and fall migration. These reported sightings are concentrated along the Great Lakes, but multiple reports have been made from nearly every interior State, including South Dakota. The red knot likely uses South Dakota habitats similar to those of the least tern and piping plover. The species does not breed in this state.

Mr. Gary Brundige

The Service appreciates the opportunity to provide this species list. If you have any questions on this list, please contact Dylan Turner of this office at (605) 280-6704.



United States Department of the Interior

U.S. FISH & WILDLIFE SERVICE

FISH AND WILDLIFE SERVICE 420 S Garfield Ave, Suite 400 Pierre, South Dakota 57501-5408

In Reply Refer to: FWS/R6/Ellsworth AFB Wetland EA

September 27, 2022

Mr. Greg Johnson Environmental Compliance Chief, 28 CES/CEIE 2125 Scott Drive Ellsworth AFB, South Dakota 57706

Dear Mr. Johnson:

Thank you for your letter received September 9, 2022, requesting environmental comments regarding the above referenced project involving the modification of existing wetlands adjacent to the primary instrument runway in order to reduce wildlife habitat and corresponding Bird/Wildlife Aircraft Strike Hazard risk at Ellsworth Airforce Base. This project is located in Meade County, South Dakota.

According to the National Wetlands Inventory, (available online at www.fws.gov/wetlands/) wetlands exist within the project boundary. If a project may impact wetlands or other important fish and wildlife habitats, the U.S. Fish and Wildlife Service (Service), in accordance with the National Environmental Policy Act of 1969 (42 U.S.C. 4321-4347) and other environmental laws and rules, recommends complete avoidance of these areas, if possible, then minimization of any adverse impacts, and finally replacement of any lost acres, in that order. Alternatives should be examined and the least damaging practical alternative selected. If wetland impacts are unavoidable, a mitigation plan addressing the number and types of wetland acres to be impacted, and the methods of replacement should be prepared and submitted to the resource agencies for review.

Generally, once all measures to avoid and minimize impacts to the maximum extent possible have been taken, the Service recommends mitigation in the form of restoration of drained wetlands at a ratio of 1:1. If creation of new wetlands is deemed necessary to mitigate for wetland losses, a 2:1 ratio (restored:impacted) is recommended. Created wetlands may have a lower rate of establishment success, result in a temporal delay in achieving value to wildlife, or may not contain the degree of biological diversity typically found in a natural wetland basin, thus are not preferred when considering mitigation options. Preservation of existing wetlands is also not recommended as a means of mitigation as this is not consistent with the "no net loss" of wetlands as outlined in Executive Order #11990.

Mr. Greg Johnson

The Service appreciates the opportunity to provide comments. If changes are made in the project plans or operating criteria, or if additional information becomes available, the Service must be informed so that the above determinations can be reconsidered. If you have any questions on these comments, please contact Dylan Turner of this office at (605) 280-6704.

Sincerely,

Amity Bass North and South Dakota Field Supervisor

Appendix A-4 Public Notice Affidavit

Affidavit of Publication

STATE OF SOUTH DAKOTA: COUNTY OF LAWRENCE:

Letitia Lister of said County and State being first duly sworn, on her oath says: That the BLACK HILLS PIONEER is a legal daily newspaper of general circulation, printed and published in the City of Spearfish, in said County and State by Letitia Lister, and has been such a newspaper during the times hereinafter mentioned; and that said newspaper has a bonafide circulation of at least 200 copies weekly, and has been published within said County in the English language for at least one year prior to the first publication of the notice herein mentioned, and is printed in whole or in part in an office maintained at the place of publication; and that I, Letitia Lister, the undersigned, am the Publisher of said newspaper and have personal knowledge of all the facts stated in this affidavit; and that the advertisement headed:

Early Public Notice Notice
OF Availability
"Display Advertisement"
a printed copy of which is hereto attached, was printed and published
in said newspaper for successive and consecutive weeks, the
first publication being made on the 25th day of Oct ,2002, and
the last publication on the and day of oct, and, that the ful
amount of fees charged for publishing same, to-wit: The sum of
\$ 798.00, insures solely to the benefit of the publisher of the BLACk
HILLS PIONEER, that no agreement or understanding for a division
thereof has been made with any person and that no part thereof has
been agreed to be paid to any other person whomsoever.

Subscribed and sworn to before me this and day of Nov., 2022

Notary Public, Lawrence County, South Dakota

My commission expires: 7-18-2025

EARLY PUBLIC NOTICE

NOTICE OF AVAILABILITY DRAFT ENVIRONMENTAL ASSESSMENT AND PROPOSED FINDING OF NO SIGNIFICANT IMPACT FOR THE MODIFICATION OF EXISTING WETLANDS ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA

An Environmental Assessment (EA) has been prepared to analyze the potential impacts of up to 9.3 acres of wetlands adjacent to the runway to reduce wildlife habitat and corresponding Bird/wildlife Aircraft Strike Hazard (BASH) risk located at Ellsworth Air Force Base (EAFB) in Rapid City, South Dakota. The project is needed due to wildlife's demonstrated recurrent use of wetland areas adjacent to the runway. The Proposed Action aims to permanently resolve BASH risk associated with the subject wetlands, ensuring EAFB can continue to fulfill flight missions without further flight safety risk associated with these wildlife attractants.

The purpose of the Proposed Action is to modify on-site wetlands, so they no longer present a BASH risk to flight operations, utilizing the airfield design standards set forth in the current EAFB BASH Plan and DAF Instruction (DAFI) 91-212. The project is needed due to wildlife's demonstrated recurrent use of wetland areas adjacent to the runway. The successes of EAFB's flight missions hinge on the operational readiness of the airfield, which is negatively impacted by wildlife habitat adjacent to the runway. The Proposed Action is needed to permanently resolve BASH risk associated with the subject wetlands, ensuring EAFB can continue to fulfill flight missions without further flight safety risk associated with these wildlife attractants.

The EA, prepared in accordance with the National Environmental Policy Act (NEPA), Council on Environmental Quality regulations, and United States Department of the Air Force (DAF) Instructions implementing NEPA, evaluates potential impacts of the Proposed Action and the No-action Alternative. Based on this analysis, the DAF has prepared a proposed Finding of No Significant Impact (FONSI).

The public will have the opportunity to comment on the Draft EA and FONSI at the following location:

Rapid City Public Library 610 Quincy St Rapid City, SD 57701

Electronic copies will be made available at: https://www.ellsworth.af.mil/About-US/Environmental/

Please provide any comments within thirty (30) days of the posted date to Ellsworth Air Force Base, Attn: Mr. Greg Johnson, Environmental Compliance Chief, 28 CES/CEIE, 2125 Scott Dr., Ellsworth AFB, SD 57706; or by email at gregory johnson.8@us.af.mil, with the subject titled as ATTN: EAFB BASH EA.

PRIVACY ADVISORY NOTICE

Public comments on this Draft EA are requested pursuant to NEPA, 42 United States Code 4321, et seq. All written comments received during the comment period will be made available to the public and considered during the final EA preparation. Providing private address information with your comment is voluntary and such personal information will be kept confidential unless release is required by law. However, address information will be used to compile the project mailing list and failure to provide it will result in your name not being included on the mailing list.

Published twice at the total approximate cost of \$798.00 and can be viewed free of charge at www.sdpublicnotices.com.

EARLY PUBLIC NOTICE

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*** Proof of Publication ***

STATE OF SOUTH DAKOTA) County of Pennington) SS: SES Civil and Environmental LLC Olivia Roorbach 3550 ST. JOHNS BLUFF RD. SOUTH JACKSONVILLE FL 32224 ORDER NUMBER 51816 The undersigned, being duly sworn, upon his/her oath says: That he/she is now and was at all time hereinafter mentioned, a clerk of the RAPID CITY JOURNAL, a corporation of Rapid City, South Dakota, a legal and daily newspaper printed and published in Rapid City, in said County of Pennington, and has full and personal knowledge of all the facts herein stated as follows: that said newspaper is and at all of the times herein mentioned has been a legal and daily newspaper with a bonafide paid circulation of at least Two Hundred copies daily, and has been printed and published for at least one year prior to the first date of the published notice. This affidavit is a true and corrected copy of notice which appeared in said newspaper once each successive the first publication there of being on the day Section: Legal Category: 0064 Miscellaneous PUBLISHED ON: 10/28/2022, 10/29/2022 TOTAL AD COST: 127.94 FILED ON: 10/31/2022

EARLY PUBLIC NOTICE

NOTICE OF AVAILABILITY
DRAFT ENVIRONMENTAL
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(Published October 28 & 29, 2022, at the total approximate cost of

(Published October 28 & 29, 2022, at the total approximate cost of \$127.94 and may be viewed free of charge at www.sdpublicnotices.com) Legal No: 51816

Subscribed and sworn to before me this

20 22

Notary Public

My commission expires

Kelly L. Kanaan **NOTARY PUBLIC** SOUTH DAKOTA in and the second

Appendix B - Final Wetland Surveys to Support B-21 Environmental Impact Statement EAFB, SD

FINAL

Wetland Surveys to Support B-21 Environmental Impact Statement Ellsworth Air Force Base, South Dakota



Prepared for

Department of the Air Force Global Strike Command Ellsworth Air Force Base, South Dakota



Prepared by



1066 Commerce Park Drive Oak Ridge, TN 37830



November 2020

i

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Acronyms and Abbreviations

AFB Air Force Base
CWA Clean Water Act

EIS Environmental Impact Statement

EPA United State Environmental Protection Agency

L1UBHx Lacustrine-Limnetic-Unconsolidated Bottom-Excavated

NPDES National Pollutant Discharge Elimination System

NRCS Natural Resources Conservation Service

NWI National Wetlands Inventory

OWS oil-water separator
PEM Palustrine Emergent

R2UBx Riverine-Lower Perennial-Unconsolidated Bottom-Excavated

USACE United States Army Corps of Engineers

USAF United States Air Force

XCEL XCEL Engineering

Background and Methodology

1.1 Introduction

This report presents the results of wetland surveys conducted by XCEL Engineering (XCEL) at Ellsworth Air Force Base (AFB), South Dakota to support the Environmental Impact Statement (EIS) being prepared by the United States Air Force (USAF) for the beddown of the B-21 aircraft. The EIS analyzes the potential environmental impacts of locating the first of three potential beddown sites for the B-21, referred to as Main Operating Base 1, at either Ellsworth AFB or Dyess AFB, Texas. This report addresses wetland surveys only at Ellsworth AFB.

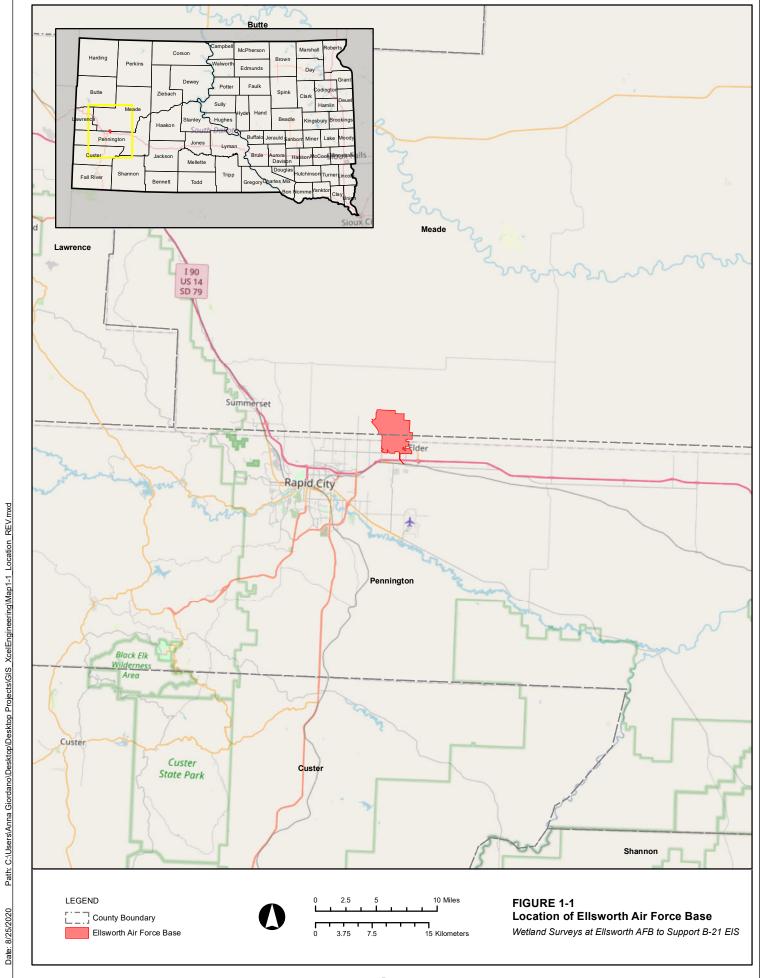
Ellsworth AFB is located in western South Dakota (Figure 1-1). The Base encompasses approximately 5,415 acres in Meade and Pennington Counties, and is approximately 7 miles northeast of Rapid City. The wetland surveys conducted for this project involved delineations of jurisdictional wetland boundaries and assessments of wetland characteristics. The surveys were conducted in three predetermined areas identified by the USAF based on their potential to contain wetlands and potential to be affected by beddown construction. These areas are referred to in this report as the Pond 1 Area, Pond 2 Area, and Pond 3 Area to correspond to the existing stormwater retention ponds in the areas and are shown on Figure 1-2.

Wetlands within the three pre-determined survey areas were delineated during past base-wide wetland surveys conducted in 1994 by Mariah Associates (Mariah Associates, 1994) and in 2003 by the USAF (Ellsworth AFB, 2003). The current wetland surveys provide an updated assessment of the jurisdictional boundaries of the wetlands based on current field conditions and federal wetland regulations. The wetland delineations conducted in 2003 are discussed in this report as applicable to assess differences between past and current jurisdictional boundaries of the wetlands.

1.2 Regulatory Background

The United States Environmental Protection Agency (EPA) and United States Army Corps of Engineers (USACE) jointly define wetlands as "areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas." Executive Order 11990, *Protection of Wetlands*, requires federal agencies to avoid, to the extent possible, the long- and short-term adverse impacts associated with the destruction or modification of wetlands, and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative.

Wetlands and surface water bodies, unless they qualify to be exempted, are under the regulatory jurisdiction of the federal Clean Water Act (CWA) Section 404 program. Section 404 of the CWA regulates the discharge of dredged or fill material into waters of the United States, including wetlands. Under the federal Section 404 program, no discharge of dredged or fill material may be permitted if a practicable alternative exists that is less damaging to the aquatic environment, or if the nation's waters would be significantly degraded. The Section 404 program is jointly administered by the EPA and USACE, with the USACE being responsible for Section 404 permit decisions.



Basemap courtesy of Esri.

Path: C:\Users\Anna Giordano\Desktop\Desktop Projects\GIS_XcelEngineering\Map1-2_Overview.mxd

Date: 9/2/2020

The Navigable Waters Protection Rule: Definition of "Waters of the United States", published in the Federal Register on April 21, 2020 (Volume 85, Number 77) and made effective on June 22, 2020, updated the scope of waters federally regulated under the CWA. In this Rule, the EPA and USACE redefined the types of waters that qualify as waters of the United States, referred to as jurisdictional waters, and the types of waters that do not qualify as waters of the United States, referred to as non-jurisdictional waters. The Rule identifies the following four categories of waters as being jurisdictional: territorial seas and traditional navigable waters; perennial and intermittent tributaries that contribute surface water flow to such waters; certain lakes, ponds, and impoundments of jurisdictional waters; and wetlands adjacent to other jurisdictional waters. The Rule excludes from the definition of "waters of the United States" all waters or features not included in the identified categories.

1.3 Methodology

Wetlands in the three pre-determined survey areas at Ellsworth AFB were surveyed by XCEL from July 28 to August 1, 2020. Prior to the field surveys, a desktop analysis was conducted to preliminarily assess site conditions and identify potential onsite wetland types and locations. The desktop analysis included review of the following data sources that contain information on wetlands at Ellsworth AFB:

- Ellsworth AFB Wetland Delineation Report (Mariah Associates, 1994)
- Ellsworth AFB Wetland Database and Mapping Report (Ellsworth AFB, 2003)
- Ellsworth AFB Integrated Natural Resources Management Plan (Ellsworth AFB, 2018)
- Ellsworth AFB Geographic Information System database
- National Wetlands Inventory (NWI) mapping
- True-color, ortho-rectified aerial photography
- Historic aerial photography and topographic mapping
- Natural Resources Conservation Service (NRCS) soil survey data (NRCS, 2020)

Wetland delineations were conducted by a senior wetland scientist in accordance with the *Corps of Engineers Wetlands Delineation Manual* (USACE, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0)* (USACE, 2010). Jurisdictional wetland boundaries were marked by flagging and the flagged points were recorded by a hand-held Trimble Geo 7X Global Positioning System unit with sub-meter accuracy. Data on soils, vegetation, and hydrology of the wetlands at selected sampling point locations were recorded on USACE Wetland Determination Data Forms for the Great Plains Region. Determinations of soil color were made using 2009 Munsell Soil Color Charts. Photographs of the wetlands and other features were taken at the sampling point locations and other locations within and in the vicinity of the wetlands.

The general characteristics of the delineated wetlands were assessed as part of the wetland surveys. The delineated wetlands were classified in accordance with the NWI classification system as described in *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et. al., 1979). In addition to the NWI classification, the wetlands were described in detail in terms of their type, hydrology, soils, vegetative composition, and other characteristics.

Results and Discussion

2.1 Results

A total of five jurisdictional wetlands were identified during the wetland surveys conducted at Ellsworth AFB to support the B-21 EIS. The wetlands are identified in Table 2-1 and shown on Figures 2-1, 2-2, and 2-3; detailed descriptions of the wetlands are provided in the subsections that follow. The USACE Wetland Determination Data Forms completed for the sampling points selected during the surveys are provided as Appendix A. Photographs taken at the sampling points and other locations during the surveys are provided as Appendix B.

Table 2-1. Jurisdictional Wetlands Identified During Surveys Wetland Surveys at Ellsworth AFB to Support B-21 EIS

Wetland	Location	Total Size (acres)	Wetland Components (NWI Classification)	NRCS Soil Types in Wetland
А	Pond 2 Area	1.33	Pond 2 - stormwater retention pond (L1UBHx) and herbaceous wetland (PEM)	Zigweid-Nihill complex, 6 to 15 percent slopes
В	Pond 2 Area	0.13	Herbaceous wetland (PEM)	Zigweid-Nihill complex, 6 to 15 percent slopes
С	Pond 1 Area	0.23	Channelized stream (R2UBx)	Nunn loam, 6 to 9 percent slopes and Satanta loam, 2 to 6 percent slopes
D	Pond 1 Area	5.31	Pond 1 - stormwater retention pond (L1UBHx), channelized stream (R2UBx), and herbaceous wetland (PEM)	Nunn loam, 6 to 9 percent slopes
E	Pond 3 Area	2.26	Herbaceous wetland (PEM)	Nunn clay loam, 2 to 6 percent slopes and Lohmiller and Glenberg soils, channeled

Notes:

L1UBHx = Lacustrine-Limnetic-Unconsolidated Bottom-Excavated

PEM = Palustrine-Emergent

NRCS = Natural Resources Conservation Service

R2UBx = Riverine-Lower Perennial-Unconsolidated Bottom-Excavated

The wetlands, as delineated, range in size from approximately 0.13 to 5.31 acres. Wetlands A and D consist of multiple wetland types/components, that include surface water bodies; Wetland C is also a surface water body. Based on review of historic aerial photography and topographic mapping, all the identified wetlands originated, either wholly or partially, as natural wetland/water systems, although they all have been physically altered during past development of the Base. For example, the stream component of Wetland D was diverted to the west in the late 1950s to accommodate construction of the Alert Apron at that time. This diversion created a new drainageway on the west side of the Alert Apron and modified the connected upstream and downstream systems. Based on their natural origin, hydrological connectivity, and current hydric characteristics, all the identified wetlands are jurisdictional in accordance with the Navigable Waters Protection Rule, which became effective on June 22, 2020.

Path: C:\Users\Anna Giordano\Desktop\Desktop Projects\GIS_XcelEngineering\Map2-1_Pond2Area.mxd

Date: 8/28/2020

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Date: 8/28/2020

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Date: 9/2/2020

Table 2-1 identifies the soil types in each wetland based on NRCS soil survey data (NRCS, 2020). Of the identified soil map units, only the *Satanta loam, 2 to 6 percent slopes* soils map unit, which occurs in a relatively small portion of Wetland C, and the *Nunn clay loam, 2 to 6 percent slopes* and *Lohmiller and Glenberg soils, channeled* soil map units, which occur in Wetland E, are classified by the NRCS as hydric soils. Soils in all the identified wetlands were determined to be hydric during the surveys based on their characteristics, which included high organic content, presence of redox features, and other hydric indictors, as indicated on the USACE Wetland Determination Data Forms provided as Appendix A. Overall, soils in the identified wetlands are likely more hydric than indicated by their corresponding NRCS soil map units as a result of regular inputs of drainage from contributing on-base developed areas over decades, which have caused the wetlands to have wetter than normal hydrology.

2.1.1 Wetland A

Wetland A is located in the Pond 2 Area, southeast of the Alert Apron and north of Kenney Road (Figure 2-1). Wetland A consists of Pond 2, which is a stormwater retention pond (NWI classification = L1UBx) and connected herbaceous wetland (NWI classification = PEM), which includes the banks/littoral area of the pond and adjacent wetland habitat. As delineated, Wetland A is approximately 1.33 acres.

Wetland A receives drainage from the southern end of the runway to the northeast via a culvert and from the alert apron to the northwest via two culverts (Figure 2-1). The drainage is retained in Pond 2, treated by the pond's oil-water separator (OWS), and discharged southward via a culvert under Kenney Road into Wetland B. During the field investigation, all three culverts that direct drainage into Pond 2 and the culvert that directs drainage out of Pond 2 into Wetland B had slow flowing water. Pond 2 had moderate water clarity; the depth of Pond 2 could not be estimated based on field observations. Standing water existed in certain portions of the herbaceous wetland component of Wetland A, outside Pond 2. Indicators of wetland hydrology observed at the Wetland A sampling points are identified on the corresponding USACE Wetland Determination Data Forms provided in Appendix A.

Information on the vegetation that existed in Wetland A during the survey is presented in Table 2-2. The dominant plant species observed at the Wetland A sampling points, which differ from those identified for the overall wetland, are listed on the corresponding USACE Wetland Determination Data Forms provided in Appendix A. The inundated basin of Pond 2 contained relatively small amounts of emergent vegetation, dominated by common cattail (*Typha latifolia*); no submerged or floating vegetation was observed within the pond. Overall vegetative cover within the pond was less than 2 percent. Overall vegetative cover in the herbaceous wetland component of Wetland A (outside Pond 2) ranged from approximately 75 to 90 percent, with trees and shrubs collectively accounting for less than 10 percent of the total vegetative cover. The tree and shrub strata were dominated by peach-leaf willow (*Salix amygdaloides*) and sandbar willow (*Salix interior*), respectively. The herbaceous strata was dominated by Torrey's rush (*Juncus torreyi*), blue vervain (*Verbena hastata*), curly dock (*Rumex crispus*), field sowthistle (*Sonchus arvensis*), bog willowherb (*Epilobium leptophyllum*), and common cattail. Other plant species observed in Wetland A are listed in Table 2-2.

Table 2-2. Vegetation in Wetland A

Wetland Surveys at Ellsworth AFB to Support B-21 EIS

Wetland	Overall	Plant Species Composition				
Component	Vegetative Cover	Dominant Species	Other Species			
Pond 2	< 2%	Common cattail (Typha latifolia)	None			
Herbaceous	75% - 90%	Torrey's rush (Juncus torreyi)	Peach-leaf willow (Salix amygdaloides			
Wetland		Blue vervain (Verbena hastata)	Sandbar willow (Salix interior)			
		Curly dock (Rumex crispus)	Russian olive (Elaeagnus angustifolia)			
		Field sow-thistle (Sonchus arvensis)	Late goldenrod (Solidago gigantea)			
		Bog willowherb (Epilobium	Common evening-primrose (Oenothera biennis)			
		leptophyllum)	Common mint (Mentha arvensis)			
		Common cattail (<i>Typha latifolia</i>)				

2.1.2 Wetland B

Wetland B is an herbaceous wetland (NWI classification = PEM) located in the Pond 2 Area, southeast of the Alert Apron and south of Kenney Road (Figure 2-1). As delineated, Wetland B is approximately 0.13 acre.

Wetland B receives drainage from Wetland A to the north via a culvert under Kenney Road (Figure 2-1). The drainage flows southeastward through Wetland B and is ultimately discharged off-base where it continues to flow southward. A concrete flume and channel have been constructed between the southeastern boundary of the wetland and the boundary of the Base to measure the discharge flow and minimize associated erosion potential; the location of the flume/channel serves as the National Pollutant Discharge Elimination System (NPDES) outfall point established for the contributing drainage area for Pond 2. During the field investigation, the culvert that directs drainage into Wetland B and the concrete flume/channel that directs drainage out of Wetland B had slow flowing water; the interior portions of the wetland contained standing water with no obvious flow. Indicators of wetland hydrology observed at the Wetland B sampling point are identified on the corresponding USACE Wetland Determination Data Form provided in Appendix A.

Information on the vegetation that existed in Wetland B during the survey is presented in Table 2-3. The dominant plant species observed at the Wetland B sampling point, which differ from those identified for the overall wetland, are listed on the corresponding USACE Wetland Determination Data Form provided in Appendix A. Overall vegetative cover in Wetland B ranged from approximately 50 to 75 percent, with trees and shrubs collectively accounting for less than 30 percent of the total vegetative cover. The tree and shrub strata were dominated by eastern cottonwood (*Populus deltoides*) trees and saplings. Overall herbaceous cover within the wetland was dominated by narrow-leaf cattail (*Typha angustifolia*), curly dock, and blue vervain. Other plant species observed in Wetland B are listed in Table 2-3.

Table 2-3. Vegetation in Wetland B

Wetland Surveys at Ellsworth AFB to Support B-21 EIS

Overell Vegetetive Cover	Plant Species Composition						
Overall Vegetative Cover	Dominant Species	Other Species					
50% - 75%	Eastern cottonwood (Populus deltoides)	Common mint (Mentha arvensis)					
	Narrow-leaf cattail (Typha angustifolia)	Bog willowherb (Epilobium leptophyllum)					
	Curly dock (Rumex crispus)						
	Blue vervain (Verbena hastata)						

2.1.3 Wetland C

Wetland C is a channelized stream (NWI classification = R2UBx) located in the Pond 1 Area, southwest of the Alert Apron and south of Kenney Road (Figure 2-2). As delineated, Wetland C is approximately 0.23 acre.

Wetland C has a channel that ranges from approximately 6 feet to 12 feet wide and steep banks that range from approximately 15 feet to 30 feet high in linear distance from toe-of-slope to top-of-bank. The channel and banks of the stream are mostly covered by riprap that is either loose or secured within gabion baskets, which has been added to minimize erosion potential. Wetland C receives drainage from Wetland D to the north via a culvert under Kenney Road (Figure 2-2). The drainage flows southeastward through Wetland C and is ultimately discharged off-base where it continues to flow southward. A concrete flume and channel have been constructed between the southeastern boundary of the wetland and the boundary of the Base to measure the discharge flow and minimize associated erosion potential; the location of the flume/ channel serves as the NPDES outfall point established for the contributing drainage area for Pond 1. During the field investigation, the set of culverts that direct drainage into Wetland C, the entire length of the stream, and the concrete flume/channel that directs drainage out of Wetland C had slow flowing water; the stream had moderate water clarity and ranged in depth from less than 1 inch to approximately 6 inches. Indicators of wetland hydrology observed at the Wetland C sampling point are identified on the corresponding USACE Wetland Determination Data Form provided in Appendix A.

Information on the vegetation that existed in Wetland C during the survey is presented in Table 2-4. The dominant plant species observed at the Wetland C sampling point, which differ slightly from those identified for the overall wetland, are listed on the corresponding USACE Wetland Determination Data Form provided in Appendix A. No emergent, submerged, or floating vegetation was observed within the inundated channel of the drainage ditch during the survey. Overall vegetative cover on the banks of the ditch ranged from approximately 25 to 40 percent, with trees and shrubs collectively accounting for less than 30 percent of the total vegetative cover. The tree and shrub strata were dominated by eastern cottonwood, peach-leaf willow, and sandbar willow trees and saplings. Overall herbaceous cover on the ditch banks was dominated by common cattail and three-square (*Schoenoplectus pungens*). Other plant species observed in Wetland C are listed in Table 2-4.

Table 2-4. Vegetation in Wetland C

Wetland Surveys at Ellsworth AFB to Support B-21 EIS

Overell Manatative Cover	Plant Species Co	omposition
Overall Vegetative Cover	Dominant Species	Other Species
25% - 40%	Eastern cottonwood (<i>Populus deltoides</i>)	Curly dock (Rumex crispus)
	Peach-leaf willow (Salix amygdaloides)	Blue vervain (Verbena hastata)
	Sandbar willow (Salix interior)	
	Common cattail (Typha latifolia)	
	Three-square (Schoenoplectus pungens)	

2.1.4 Wetland D

Wetland D is located in the Pond 1 Area, west and north of the Alert Apron and southwest of the runway (Figure 2-2). Wetland D consists of Pond 1, which is a stormwater retention pond (NWI classification = L1UBx); a channelized stream (NWI classification = R2UBx); and connected herbaceous wetland (NWI classification = PEM), which includes the banks/littoral area of the stream and adjacent wetland habitat. As delineated, Wetland D is approximately 5.31 acres.

Most of Pond 1 has relatively steep banks and little to no littoral area. The stream component of Wetland D has a channel that ranges from approximately 6 feet to 90 feet wide and moderately sloped to very steep banks that range from approximately 4 feet to over 100 feet high in linear distance from toe-of-slope to top-of-bank; the banks in certain portions of the stream are covered by riprap. The northern portion of Wetland D consists of two separate stream segments (Figure 2-2). The northeastern segment is the main stream channel. Drainage from the runway and other portions of the airfield to the north enters the main stream channel via a set of two culverts located at the delineated northeastern end of the stream (Figure 2-2). The northwestern segment is a tributary to the main stream channel; this tributary receives drainage from higher elevations to the north and west via overland flow. This tributary conveys drainage to the southeast and converges with the main stream channel east of the Fire Training Area (Figure 2-2). As shown on Figure 2-2, there is another segment of the main stream channel north of the delineated northeastern end of Wetland D; this stream segment was not delineated during this survey because it is part of a separate ongoing project and associated CWA Section 404 permit application. The drainage that enters the northern portion of Wetland D flows southward through the wetland, is retained in Pond 1 and treated by the pond's OWS, and is ultimately discharged southward via a culvert under Kenney Road into Wetland C.

During the field investigation, the set of culverts that direct drainage into the main stream channel and the entire length of the main stream channel had slow flowing water; the main stream channel had moderate water clarity and ranged in depth from less than 1 inch to greater than 3 feet. Most of the tributary to the main stream channel had standing water that was less than 2 inches deep with no obvious flow. Pond 1 had moderate water clarity; the depth of Pond 1 could not be estimated based on field observations. Indicators of wetland hydrology observed at the Wetland D sampling points are identified on the corresponding USACE Wetland Determination Data Forms provided in Appendix A.

Information on the vegetation that existed in Wetland D during the survey is presented in Table 2-5. The dominant plant species observed at the Wetland D sampling points, which differ from those identified for the overall wetland, are listed on the corresponding USACE Wetland Determination Data Forms provided in Appendix A. No emergent, submerged, or floating vegetation was observed in Pond 1 during the survey. The inundated channel of the stream contained emergent vegetation in some areas and no vegetation in other areas; no submerged or floating vegetation was observed in the stream channel. Overall vegetative cover within the stream channel ranged from approximately 30 to 45 percent.

Dominant emergent species in the stream channel included common cattail, Torrey's rush, and softstem bulrush (*Schoenoplectus tabernaemontani*). Overall vegetative cover in the herbaceous wetland component of Wetland D, which includes the banks/littoral area of the stream and adjacent wetland habitat, ranged from approximately 75 to 90 percent, with trees and shrubs collectively accounting for less than 2 percent of the total vegetative cover. The tree and shrub strata were dominated by peach-leaf willow and sandbar willow trees and saplings. Overall herbaceous cover was dominated by common cattail, narrow-leaf cattail, Torrey's rush, softstem bulrush, curly dock, blue vervain, field sow-thistle, common evening-primrose (*Oenothera biennis*), and common water hemlock (*Cicuta maculata*). Other plant species observed in Wetland D are listed in Table 2-5.

Table 2-5. Vegetation in Wetland D

Wetland Surveys at Ellsworth AFB to Support B-21 EIS

Wetland	Overall	Plant Species Composition				
Component	Vegetative Cover	Dominant Species	Other Species			
Pond 1	0%	None	None			
Stream	30% - 45%	Common cattail (<i>Typha latifolia</i>)	Narrow-leaf cattail (<i>Typha angustifolia</i>)			
		Torrey's rush (Juncus torreyi)				
		Softstem bulrush (Schoenoplectus tabernaemontani)				
Herbaceous Wetland	75% - 90%	Common cattail (<i>Typha latifolia</i>)	Peach-leaf willow (Salix amygdaloides)			
		Narrow-leaf cattail (Typha angustifolia)	Sandbar willow (Salix interior)			
		Torrey's rush (Juncus torreyi)	Northern reedgrass (Calamagrostis			
		Softstem bulrush (Schoenoplectus	stricta)			
		tabernaemontani)	Common mint (Mentha arvensis)			
		Curly dock (Rumex crispus)	Foxtail barley (Hordeum jubatum)			
		Blue vervain (Verbena hastata)	Kentucky blue grass (Poa pratensis)			
		Field sow-thistle (Sonchus arvensis)	Common sunflower (Helianthus annuus)			
		Common evening-primrose (<i>Oenothera</i> biennis)				
		Common water hemlock (Cicuta maculata)				

2.1.5 Wetland E

Wetland E is an herbaceous wetland (NWI classification = PEM) located in the Pond 3 Area, southwest of the runway near the northwestern boundary of the Base (Figure 2-3). As delineated, Wetland E is approximately 2.26 acres.

Wetland E has steep, tall banks throughout most of its area, especially in its northern portion where some of the banks are over 50 feet high in linear distance from toe-of-slope to top-of-bank. Remnants of an earthen dam, which formerly impounded water on its northern side and divided Wetland E into two separate wetlands, exists in the northern portion of the wetland (Figure 2-3). The dam is largely intact and measures approximately 15 feet high and 30 feet wide. A cut created through the dam allows drainage to flow from north to south; the dam was cut sometime between 1983 and 1994. The northern portion of Wetland E receives drainage from the northern portion of the airfield to the north via a set of two culverts and the southern portion of Wetland E receives drainage from Pond 3 to the east via a set of three culverts (Figure 2-3). Pond 3 is a stormwater retention pond that receives drainage from the northern portion of the airfield. The drainage flows southward through Wetland E and is ultimately discharged off-base where it continues to flow southward. A concrete flume and channel have been

constructed between the southern boundary of the wetland and the boundary of the Base to measure the discharge flow and minimize associated erosion potential; the location of the flume/channel serves as the NPDES outfall point established for the contributing drainage area for Pond 3. Pond 3 is hydrologically connected to Wetland E; however, the pond is non-jurisdictional because it is concrete-lined. Drainage from Pond 3 is treated by the pond's OWS before it is discharged into Wetland E. As shown on Figure 2-3, the southwestern portion of Wetland E extends off-base to the west.

During the field investigation, the set of culverts that direct drainage into Wetland E from Pond 3 and the concrete flume/channel that directs drainage out of Wetland E had slow flowing water; the interior portions of the wetland contained standing water with no obvious flow. There was no flow from the set of two culverts at the northern end of the wetland. Indicators of wetland hydrology observed at the Wetland E sampling points are identified on the corresponding USACE Wetland Determination Data Forms provided in Appendix A.

Information on the vegetation that existed in Wetland E during the survey is presented in Table 2-6. The dominant plant species observed at the Wetland E sampling points, which differ from those identified for the overall wetland, are listed on the corresponding USACE Wetland Determination Data Forms provided in Appendix A. Overall vegetative cover in Wetland E ranged from approximately 80 to 95 percent, with trees and shrubs collectively accounting for less than 5 percent of the total vegetative cover. The tree and shrub strata were dominated by peach-leaf willow and sandbar willow trees and saplings. Overall herbaceous cover within the wetland was dominated by sandbar willow, common cattail, common spike-rush (*Eleocharis palustris*), curly dock, and common mint. Other plant species observed in Wetland E are listed in Table 2-6.

Table 2-6. Vegetation in Wetland E

Wetland Surveys at Ellsworth AFB to Support B-21 EIS

Overall Veretetine Cover	Plant Species Composition							
Overall Vegetative Cover	Dominant Species	Other Species						
80% - 95%	Sandbar willow (<i>Salix interior</i>)	Peach-leaf willow (Salix amygdaloides)						
	Common cattail (Typha latifolia)	Rough barnyard grass (Echinochloa muricata)						
	Common spike-rush (Eleocharis palustris)	Giant ragweed (Ambrosia trifida)						
	Curly dock (Rumex crispus)	Lady's thumb (Persicaria maculosa)						
	Common mint (Mentha arvensis)	Common evening-primrose (Oenothera biennis)						
		Softstem bulrush (Schoenoplectus tabernaemontani)						
		Arum-leaf arrowhead Sagittaria cuneata						
		Foxtail barley (Hordeum jubatum)						
		Torrey's rush (<i>Juncus torreyi</i>)						

2.2 Comparison to Past Surveys

The wetlands delineated during this survey were also delineated during past base-wide wetland surveys conducted in 1994 by Mariah Associates (Mariah Associates, 1994) and in 2003 by the USAF (Ellsworth AFB, 2003). The wetland delineations conducted in 2003 are shown on Figures 2-1, 2-2, and 2-3 to assess how the jurisdictional wetland boundaries determined by that survey compare to those determined by the current survey. Table 2-7 compares the sizes of the wetlands determined by the two surveys.

Table 2-7. Wetland Sizes Determined by 2020 and 2003 Wetland Surveys Wetland Surveys at Ellsworth AFB to Support B-21 EIS

Wetland	Location	Total Wetland Size in 2020 (acres)	Total Wetland Size in 2003 (acres)
А	Pond 2 Area	1.33	1.41
В	Pond 2 Area	0.13	0.17
С	Pond 1 Area	0.23	0.20
D	Pond 1 Area	5.31	6.05
E	Pond 3 Area	2.26	1.95

As indicated on Figure 2-1, there are distinct differences between the 2020 and 2003 delineations of Wetland A. Two prominent differences between the delineations exist along the northeastern boundary of the wetland, where two areas determined to be wetland by the 2003 survey were determined to be upland by the 2020 survey. No indicators of wetland soils, hydrology, or vegetation currently exit in these two areas, which suggests that the areas may been inadvertently filled since the 2003 survey, potentially as part of land contouring conducted for erosion control on the northern side of the wetland, which is steeply sloped. Outside of these two areas, the 2003 and 2020 delineations resulted in comparable jurisdictional wetland boundaries, although more wetland area was identified during the 2020 survey in the western portion of the wetland.

The 2020 and 2003 delineations of Wetland B are comparable overall (Figure 2-1). The 2003 delineation included the area encompassed by the concrete flume and channel between the southeastern boundary of the wetland and the boundary of the Base (Figure 2-1), which serves as the NPDES outfall point for Pond 2. This area is concrete; therefore, it is non-jurisdictional and should be excluded from the jurisdictional boundary of the wetland. Lastly, the 2003 survey identified a separate wetland to the east of Wetland B, as shown on Figure 2-1. During the 2020 survey, this wetland was confirmed to be hydrologically isolated and, therefore, non-jurisdictional. In addition, the size of this wetland was determined to be smaller than indicated by the 2003 survey. This wetland currently extends only a few feet beyond the fence line boundary of the Base, suggesting that most of its original area may have been filled since the 2003 survey, potentially as part of land contouring conducted to improve vehicular access to the Pond 2 NPDES outfall point.

As indicated on Figure 2-2, the 2020 and 2003 delineations of Wetland C and Wetland D are comparable. Differences between the delineations are primarily evident in the northern portion of Wetland D, along the boundary of the northwestern tributary to the main stream channel. This tributary was shown to be connected to the main stream channel but was delineated as a separate wetland by the 2003 survey. Given that this tributary is hydrologically connected to the main stream channel, it should be treated as being part of the same wetland system instead of as a separate wetland. Lastly, the northernmost segment of the main stream channel shown on Figure 2-2 was delineated during the 2003 survey but not during the 2020 survey. This segment of the stream is part of a separate ongoing project and associated Section 404 permit application and, therefore, was not included in the 2020 delineation.

As indicated on Figure 2-3, there are distinct differences between the 2020 and 2003 delineations of Wetland E. Considerably more jurisdictional area was claimed in the northern portion of the wetland by the 2020 survey than the 2003 survey. The 2003 survey also delineated the area north of the former dam as being a separate wetland than the area south of the former dam. This dam was cut sometime between 1983 and 1994 and since then has not prevented drainage flow between the two areas; therefore, the areas should be treated as being part of the same wetland system instead of as separate wetlands. The 2003 delineation included the area encompassed by the concrete flume and channel

between the southern boundary of the wetland and the boundary of the Base (Figure 2-3), which serves as the NPDES outfall point for Pond 3. This area is concrete; therefore, it is non-jurisdictional and should be excluded from the jurisdictional boundary of the wetland. Lastly, the southwestern portion of Wetland E extends off-base to the west (Figure 2-3). The 2003 delineation closed off the boundary of this portion of the wetland at the fence line boundary of the Base. Given that this portion of the wetland extends off base, the boundary of the wetland in this location should not be closed off.

2.3 Jurisdictional Determination

Following completion of the wetland surveys, XCEL on behalf of the USAF, requested an approved Jurisdictional Determination (JD) for the wetland delineations from the USACE South Dakota Regulatory Office in Pierre, South Dakota. The draft version of this report along with the completed JD request form for the delineations were submitted to the USACE on September 14, 2020 to initiate the approved JD process. The approved JD for the wetland delineations (NWO-2020-01740-PIE) was issued by the USACE on November 3, 2020 (Appendix C). The approved JD did not include any revisions to the wetland delineations presented in this report. In addition to the wetlands/waters presented in this report, the issued JD also addressed a separate non-jurisdictional ditch identified as NOW-2020-01740-PIE-F (Appendix C).

2.4 Wetland Impacts

None of the wetlands identified during this survey are currently proposed to be impacted by the beddown of the B-21 aircraft at Ellsworth AFB. If the USAF proposes to impact one or more of the wetlands, the proposed impacts would be assessed in the ongoing B-21 EIS, and would be required to be authorized under the federal CWA Section 404 permitting program. Under Section 404(b)(1) of the CWA, permit applicants are required to show that they have, to the extent practicable, taken steps to avoid impacts to wetlands, minimize potential impacts to wetlands once they have avoided impacts, and provide compensatory mitigation for any remaining unavoidable impacts. There are currently no active commercial wetland mitigation banks that have a service area that includes Ellsworth AFB; therefore, permittee-responsible mitigation must be conducted on base or off base to compensate for unavoidable wetland impacts. On-base wetland mitigation has been successfully conducted at Ellsworth AFB in the past and a new on-base mitigation site is currently being designed to provide compensatory mitigation for proposed impacts to the northernmost segment of the stream component of Wetland D. As discussed previously, this stream segment was not delineated during this survey because it is part of a separate ongoing project and associated CWA Section 404 permit application. If compensatory mitigation is required for the B-21 beddown at Ellsworth AFB, on-base wetland mitigation opportunities would be evaluated for the project in coordination with the USACE.

SECTION 3

References

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Appendix A Wetland Determination Data Forms

Project/Site: _Wetland A	City/Cou	unty: Penning	ton County	Sampling Date:	7/28/2020
Applicant/Owner: Ellsworth AFB	-	-	State: SD	· -	
Investigator(s): Tunch Orsoy				· -	
			convex, none): Con		ne (%).
Subregion (LRR): G60A Lat:					
Soil Map Unit Name: Zigweid-Nihill complex, 6 to 15 percent slop			_		<u> </u>
Are climatic / hydrologic conditions on the site typical for this time of				·	
Are Vegetation No , Soil No , or Hydrology No significa	-		"Normal Circumstances		′ No
	-			·	<u> </u>
Are Vegetation No , Soil No , or Hydrology No naturally			eeded, explain any ans		
SUMMARY OF FINDINGS – Attach site map show	ing samp	ling point l	locations, transec	ts, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes X No		s the Sample	d Aron		
Hydric Soil Present? Yes X No	_ ;	vithin a Wetla		X No	
Wetland Hydrology Present? Yes X No		vitiliii a vvetia			_
Remarks:					
VEGETATION – Use scientific names of plants.					
	lute Domin	ant Indicator	Dominance Test wo	orksheet:	
Tree Stratum (Plot size:)		es? Status	Number of Dominant		
1. Salix amygdaloides 2	0 Y	FACW	That Are OBL, FACV		(4)
2			(excluding FAC-):		(A)
3			Total Number of Don	/	4 (D)
4			Species Across All S	otrata:	1 (B)
Sapling/Shrub Stratum (Plot size:)	20 = Total	Cover	Percent of Dominant That Are OBL, FACV		00 (A/B)
1. Salix interior 20) Y	FACW	That Ale OBL, FACV	v, or FAC	00 (A/B)
2.			Prevalence Index w		
3.			-	of: Multipl	
4			OBL species		
5			FACW species		
	<u>20</u> = Total	Cover	FAC species		
Herb Stratum (Plot size:) 1. Solidago gigantea 25	5 Y	FAC	UPL species		
2. Juncus torreyi		FACW	Column Totals:		
3. Verbena hastata	2 N	FACW		(' '	(-/
4. Rumex crispus) N	FAC		lex = B/A =	
5. Oenothera biennis 8	N	FACU	Hydrophytic Vegeta		
6. Typha latifolia 5	N	OBL		or Hydrophytic Veget	tation
7			X 2 - Dominance T 3 - Prevalence Ir		
8				ndex is ≤3.0 al Adaptations¹ (Prov	vido supporting
9				arks or on a separate	
10			Problematic Hyd	drophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size:)	5 = Total	Cover	¹ Indicators of hydric:	soil and wetland hyd	rology must
1			be present, unless di		
2.			Hydrophytic		
	= Total		Vegetation	· · ·	
% Bare Ground in Herb Stratum15			Present?	Yes X No _	
Remarks: Sampling point is in PEM component of wetland along bank/litto	ral area of =	and Trac and	chrub cover is bisher -	t campling paint the	in overall
wetland.	ıaı aιta UI β	onu. Hee and	annub cover is riigher at	ı sampımy pomi man	ı iii Ovelali

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SOIL	Sampling Point: ASP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

(inches)	Color (moist)	%	Color ((moist)	<u> </u>	Type ¹	Loc ²	Texture	Remarks
0 - 14	10YR 3/1	100						Org Muck	Saturated below 4"
								_	
¹ Type: C=Co	ncentration, D=Dep	oletion, RM=I	Reduced	Matrix, CS	=Covered	or Coated	Sand Gra	ains. ² Lo	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all L	.RRs, un	less other	wise note	ed.)			s for Problematic Hydric Soils ³ :
X Histosol	(A1)			_ Sandy G	leved Ma	trix (S4)		1 cm	Muck (A9) (LRR I, J)
	ipedon (A2)			_ Sandy R					t Prairie Redox (A16) (LRR F, G, H)
Black His				-	Matrix (S				Surface (S7) (LRR G)
	n Sulfide (A4)		_		lucky Min				Plains Depressions (F16)
	Layers (A5) (LRR	F)	_	_	Bleyed Ma	. ,		_	RR H outside of MLRA 72 & 73)
	ck (A9) (LRR F, G ,		-	-	l Matrix (F			`	ced Vertic (F18)
	Below Dark Surfac		-		ark Surfa				Parent Material (TF2)
	rk Surface (A12)	~ (/ \				rface (F7)			Shallow Dark Surface (TF12)
	ucky Mineral (S1)		-		epression				(Explain in Remarks)
-	lucky Peat or Peat	(S2) (I PP G	H) —			ssions (F1	6)		s of hydrophytic vegetation and
·	cky Peat or Peat (S		, ''') <u> </u>	-		'3 of LRR			nd hydrology must be present,
5 CITI WILL	cky real or real (o	3) (L IXIX I)		(IVILI	\A 12 & 1	J OI LININ	•••		s disturbed or problematic.
Restrictive I	ayer (if present):							I	3 disturbed of problematic.
	ayer (ii present).								
Type:									
Depth (inc	hes):							Hydric So	il Present? Yes X No
Remarks:									
HYDROLO	ΞY								
		1							
-	Irology Indicators:								
	ators (minimum of o	one required;			•				lary Indicators (minimum of two required)
Surface \	Nater (A1)			Salt Crust (B11)			Su	rface Soil Cracks (B6)
High Wa	ter Table (A2)			Aquatic Inv	ertebrates	s (B13)		Sp	arsely Vegetated Concave Surface (B8)
X Saturatio	n (A3)			Hydrogen S	Sulfide Od	lor (C1)		Dra	ainage Patterns (B10)
X Water Ma	arks (B1)			Dry-Seasor					idized Rhizospheres on Living Roots (C3)
	t Deposits (B2)			Oxidized R			na Roots (where tilled)
	osits (B3)		_	(where n		00 011 21111	19 1 10010 (ayfish Burrows (C8)
						d Inc. (C4)		' <u></u> '	• •
_	t or Crust (B4)			Presence o)		turation Visible on Aerial Imagery (C9)
	osits (B5)			Thin Muck	•	•			omorphic Position (D2)
Inundation	n Visible on Aerial	Imagery (B7))	Other (Exp	lain in Rei	marks)		FA	C-Neutral Test (D5)
Water-St	ained Leaves (B9)							Fro	ost-Heave Hummocks (D7) (LRR F)
Field Observ	ations:								
Surface Water	r Present?	'es N	lo X	Depth (inc	hes):				
Water Table I		es N							
Saturation Pr		es <u>X</u> N					\Matia	nd Hudrala	gy Present? Yes X No No
(includes cap		es <u> </u>	10	Depth (inc	nes):	JEIUW 4	_ wetta	ına nyarolog	gy Present? Tes No
	orded Data (stream	n gauge, mor	nitorina w	ell, aerial n	hotos. pre	evious insp	ections). i	f available:	
		JJ.,J	······· • • • • • • • • • • • • • • • •	, P	, P'		, , 1		
D '									
Remarks:									
	. • .	as slow flowi	ing water	draining in	to pond. F	Portion of p	ond near	sampling poi	nt has moderate water clarity and
unknown de	oth.								

Project/Site: Wetland A		City/Co	ounty:	Penningt	ton County	Sampling	g Date: 7/28/	2020
Applicant/Owner: Ellsworth AFB	_				State: SD Sam		Point: ASP	2
Investigator(s): Tunch Orsoy		Section, Township, Range: S18, T2N, R9E						
Landform (hillslope, terrace, etc.): Hillslope		Local	relief (concave,	convex, none):	Concave	Slope (%	b):
Subregion (LRR): G60A								
Soil Map Unit Name: Zigweid-Nihill complex, 6 to15 perce								
Are climatic / hydrologic conditions on the site typical for this								
Are Vegetation No , Soil No , or Hydrology No s	-				'Normal Circumstanc		Yes X	No
Are Vegetation No , Soil No , or Hydrology No n	-				eeded, explain any ar			
SUMMARY OF FINDINGS – Attach site map	• •			,			ŕ	es, etc.
Hydrophytic Vegetation Present? Yes X N						· ·		<u> </u>
Hydric Soil Present? Yes $\frac{X}{X}$ N				Sampled		V		
Wetland Hydrology Present? Yes X N			withir	n a Wetlar	nd? Yes_	X No		
Remarks:								
VEGETATION – Use scientific names of plan	ts.							
	Absolute	Domi	inant	Indicator	Dominance Test	vorksheet:		
Tree Stratum (Plot size:)	% Cover				Number of Domina			
1					That Are OBL, FAG	CW, or FAC	4	
2					(excluding FAC-):			(A)
3					Total Number of D		4	(5)
4					Species Across All	Strata:	4	(B)
Sapling/Shrub Stratum (Plot size:)		= Tota	l Cove	er	Percent of Domina		100	(A (D)
1 Salix interior	15	Υ		FACW	That Are OBL, FA	JW, or FAC:	100	(A/B)
2. Elaeagnus angustifolia	2	N	ı	FACU	Prevalence Index	worksheet:		
3.					Total % Cover			
4.					OBL species			
5					FACW species			
	17	= Tota	l Cove	er	FAC species			
Herb Stratum (Plot size:) 1 Verbena hastata	20	V		FACW	FACU species			
0	20			FAC	UPL species Column Totals:			
2. Sonchus arvensis 3 Epilobium leptophyllum	15	Y		OBL	Column Totals	(A)		(B)
4 Mentha arvensis	12	N		FACW	Prevalence II	ndex = B/A =		
Tvpha latifolia	10			OBL	Hydrophytic Vege	etation Indicat	ors:	
6					1 - Rapid Test			
7.					X 2 - Dominance			
8					3 - Prevalence		4	
9.					4 - Morpholog	ical Adaptation narks or on a s		
10					Problematic H		•	•
	77	= Tota	al Cove	er				
Woody Vine Stratum (Plot size:) 1					¹ Indicators of hydri be present, unless			y must
2					Hydrophytic			
00					Vegetation Present?	Vos V	No	
% Bare Ground in Herb Stratum23					riesell!	Yes X	NU	•
Remarks:								
Sampling point is in PEM component of wetland between point than in overall wetland.	westernmo	ost culv	ert an	d bank/litto	oral area of pond. Sh	rub cover is hi	gher at sampl	ing

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SOIL								Sampling Point: ASP2
Profile Desc	cription: (Describe	to the de	oth needed to docum	nent the	indicator	or confirn	n the absence of i	ndicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 14	10YR 4/1	95	2.5YR 5/6	5	C	M	Org Muck	Moist throughout

0 - 14	10YR 4/1	95 2	.5YR 5/6	5	С	M	Org Muck	Moist throughout			
		_									
·											
	-										
¹ Type: C=Co	oncentration, D=De	pletion, RM=Redu	ced Matrix, CS	=Covered	d or Coated	d Sand Gra	ains. ² Loc	ation: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators: (Appli	cable to all LRRs	unless other	wise note	ed.)		Indicators	for Problematic Hydric Soils ³ :			
X Histosol	(A1)		Sandy G	leyed Ma	trix (S4)		1 cm Muck (A9) (LRR I, J)				
Histic Ep	oipedon (A2)	Sandy R	edox (S5)		Coast Prairie Redox (A16) (LRR F, G, H)					
Black Hi	stic (A3)		Stripped	Matrix (S	66)		Dark S	urface (S7) (LRR G)			
Hydroge	n Sulfide (A4)		Loamy N	lucky Mir	neral (F1)		High Plains Depressions (F16)				
Stratified	d Layers (A5) (LRR	F)	Loamy C	Sleyed Ma	atrix (F2)		(LRR H outside of MLRA 72 & 73)				
1 cm Mu	ıck (A9) (LRR F, G	, H)	Depleted	l Matrix (F	- 3)		Reduced Vertic (F18)				
Depleted	d Below Dark Surfa	ce (A11)	Redox D	ark Surfa	ce (F6)		Red Parent Material (TF2)				
Thick Da	ark Surface (A12)		Depleted	l Dark Su	rface (F7)		Very Shallow Dark Surface (TF12)				
Sandy M	lucky Mineral (S1)		Redox D	epression	ns (F8)		Other (Explain in Remarks)				
	lucky Peat or Peat	(S2) (LRR G, H)	High Pla	ins Depre	essions (F1	16)	3Indicators	of hydrophytic vegetation and			
	icky Peat or Peat ((MLF	RA 72 & 7	3 of LRR	H)	wetland	d hydrology must be present,			
	·	, , ,	`			,	unless	disturbed or problematic.			
Restrictive I	_ayer (if present):										
Type:											
Depth (inc	ches):						Hydric Soil Present? Yes X No				
Remarks:							ı				
ı											

HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Aquatic Invertebrates (B13) Saturation (A3) Hydrogen Sulfide Odor (C1) X Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living F X Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9)	Geomorphic Position (D2)FAC-Neutral Test (D5)Frost-Heave Hummocks (D7) (LRR F)
Field Observations: Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches): Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Culvert west of sampling point has slow flowing water draining into pond.	Wetland Hydrology Present? Yes X No

Project/Site: Wetland B		City/Cou	unty: Penning	ton County	Sampli	ing Date: 7/28/	2020
Applicant/Owner: Ellsworth AFB		-	-	State: S		_	
Investigator(s): Tunch Orsoy		Section	, Township, Ra	inge:	S18, T2N, R	9E	
Landform (hillslope, terrace, etc.): Hillslope							o):
	Lat:		•	, –			
Soil Map Unit Name: Zigweid-Nihill complex							
Are climatic / hydrologic conditions on the site							
Are Vegetation No , Soil No , or Hydrol			·	"Normal Circums		,	Nο
Are Vegetation No , Soil No , or Hydrol		-		eeded, explain ar	•	<u></u>	
SUMMARY OF FINDINGS – Attach				·	•	,	es, etc.
	s <u>X</u> No						·
	s X No		s the Sampled within a Wetla		res X N	•	
Wetland Hydrology Present? Ye	s <u>X</u> No	- `	WILLIIII a VVELIA	iiu: i	les <u> </u>	·	
Remarks:							
VEGETATION – Use scientific nam	es of plants.						
T 0/ / (D) / :			nant Indicator	Dominance T	est worksheet:		
Tree Stratum (Plot size:) 1. Populus deltoides	20		es? Status FAC		minant Species		
-		_		(excluding FA	, FACW, or FAC C-):	3	(A)
2				,	•		_ ` ,
3 4				Total Number Species Acros		3	(B)
T.		= Total	Cover	Percent of Dec	minant Species		
Sapling/Shrub Stratum (Plot size:)				FACW, or FAC:	100	_ (A/B)
1				Provalence In	ndex worksheet:		
2					over of:		
3							
4					s :		
5		- Total	Cover				
Herb Stratum (Plot size:)		_ = Total	Cover		s :		
1. Typha angustifolia		Y	OBL	UPL species	:	x 5 =	
2. Rumex crispus	20	Y	FAC	Column Totals	s: (A)	(B)
3. Verbena hastata		N	FACW	Provolon	nce Index = B/A =	_	
4. Mentha arvensis		_ <u>N</u>	FACW		Vegetation Indic		
5. Epilobium leptophyllum		N	OBL		Test for Hydroph		
6					ance Test is >50		
7					ence Index is ≤3.		
8				4 - Morph	ological Adaptation	ons¹ (Provide su	
9					Remarks or on a	•	•
10	<u></u> 56	= Total	Cover	Problema	tic Hydrophytic V	egetation (Exp	lain)
Woody Vine Stratum (Plot size:)	_			nydric soil and we less disturbed or		/ must
2.				Hydrophytic			
		= Total		Vegetation	V V	Ma	
% Bare Ground in Herb Stratum44	_			Present?	Yes X	No	
Remarks:							
Tree cover is higher at sampling point than i	n overall wetland.						

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OIL								Sampling Point: BSP1		
Profile Desc Depth	ription: (Describe Matrix	to the depth ne		ment the income the income ment the income men		or confirn	n the absence o	of indicators.)		
(inches)	Color (moist)	% Co	olor (moist)	% <u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks		
0 - 14	10YR 4/1	100		_			Org Muck	Saturated throughout		
				_						
				_						
					. ———					
					· ——					
							· · · · · · · · · · · · · · · · · · ·			
Type: C=Co	oncentration, D=Dep	oletion, RM=Redu	ced Matrix, C	S=Covere	d or Coate	ed Sand G	rains. ² Loca	tion: PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators: (Applic	able to all LRRs	, unless othe	rwise not	ed.)		Indicators f	or Problematic Hydric Soils ³ :		
X Histosol	(A1)		Sandy	Gleyed Ma	atrix (S4)		1 cm Muck (A9) (LRR I, J)			
Histic Ep	pipedon (A2)		Sandy	Redox (S5	5)		Coast P	rairie Redox (A16) (LRR F, G, H)		
Black Hi	stic (A3)		Strippe	Stripped Matrix (S6) Dark Surface (S7) (LRR			rface (S7) (LRR G)			
Hydroge	n Sulfide (A4)		Loamy	Loamy Mucky Mineral (F1)				ains Depressions (F16)		
Stratified	Layers (A5) (LRR	F)	Loamy	Gleyed M	atrix (F2)		(LRR	R H outside of MLRA 72 & 73)		
1 cm Mu	ck (A9) (LRR F, G,	H)	Deplete	ed Matrix (F3)		Reduced Vertic (F18)			
Depleted	Below Dark Surfac	ce (A11)	Redox	Dark Surfa	ace (F6)		Red Par	rent Material (TF2)		
Thick Da	ark Surface (A12)		Deplete	ed Dark Su	urface (F7))	Very Sh	allow Dark Surface (TF12)		
	lucky Mineral (S1)		Redox	Depressio	ns (F8)			Explain in Remarks)		
-	Mucky Peat or Peat	(S2) (LRR G, H)	_	•	essions (F	16)		f hydrophytic vegetation and		
	cky Peat or Peat (S		(ML	RA 72 &	73 of LRR	(H)		hydrology must be present,		

Restrictive Layer (if present):

Туре: _____

Remarks:

Depth (inches): ____

unless disturbed or problematic.

Hydric Soil Present? Yes X No

HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Aquatic Invertebrates (B13) X Saturation (A3) Hydrogen Sulfide Odor (C1) X Water Marks (B1) Dry-Season Water Table (C2) X Sediment Deposits (B2) Oxidized Rhizospheres on Living R X Drift Deposits (B3) (where not tilled) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9)	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3)
Field Observations: Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches): Saturation Present? YesX _No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes X No
Remarks: Interior portion of wetland near sampling point has standing water with no obvious flow.	

Project/Site: Wetland C		City/Co	ounty:	Penningt	ton County	_ Sampling	Date:	29/2020
Applicant/Owner: Ellsworth AFB		•	•		State: SD	Sampling	Point: C	SP1
• •					nge: S13, T2N, R			
					convex, none): Conc		Slope	(%):
Subregion (LRR): G60A								
Soil Map Unit Name: Nunn loam, 6 to 9 percent slopes					NWI classif			
Are climatic / hydrologic conditions on the site typical for th								
	-						V	NI-
Are Vegetation No , Soil No , or Hydrology No :					'Normal Circumstances"			NO
Are Vegetation No , Soil No , or Hydrology No	naturally pro	blemat	tic?	(It ne	eeded, explain any answ	ers in Rema	arks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	j point l	ocations, transect	s, import	ant feat	ures, etc.
Hydrophytic Vegetation Present? Yes X	No.							
Hydric Soil Present? Yes X N				Sampled				
Wetland Hydrology Present? Yes X			withii	n a Wetlar	nd? Yes X	No _		
Remarks:								
VEGETATION – Use scientific names of plan					T = -			
Tree Stratum (Plot size:)	Absolute % Cover			Indicator Status	Dominance Test wor			
1. Salix amygdaloides	50	Y		FAC	Number of Dominant S That Are OBL, FACW			
2. Populus deltoides	30	Υ		FACW	(excluding FAC-):		4	(A)
3.					Total Number of Domi	inant		
4					Species Across All Str	rata:	4	(B)
	80	= Tota	I Cove	er	Percent of Dominant S	Species		
Sapling/Shrub Stratum (Plot size:)					That Are OBL, FACW		100	(A/B)
1					Prevalence Index wo	rksheet:		
2					Total % Cover of:	<u> </u>	Multiply b	oy:
3					OBL species			-
4		-			FACW species	x 2	! =	
J	-	= Tota	ıl Cove		FAC species	x 3	i =	
Herb Stratum (Plot size:)			0010	٥.	FACU species	x 4	. =	
1. Typha latifolia	8	Y		OBL	UPL species			
2. Schoenoplectus pungens	5	Y		OBL	Column Totals:	(A)		(B)
3					Prevalence Inde	x = B/A =		
4					Hydrophytic Vegetat			
5					1 - Rapid Test for			on
6					X 2 - Dominance Te		Ü	
7					3 - Prevalence Inc	dex is ≤3.0 ¹		
8					4 - Morphological			
9 10.					data in Remar		•	•
10.		= Tota			Problematic Hydr	ophytic Veg	etation' (E	explain)
Woody Vine Stratum (Plot size:) 1					¹ Indicators of hydric so be present, unless dis			
2.					Hydrophytic			
					Vegetation	os Y	No	
% Bare Ground in Herb Stratum 87					Present? Y	es X	NO	
Remarks:								
Sampling point is on lower bank of stream. Tree cover is	s higher at s	amplino	g poin	t than in o	verall wetland.			

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SOIL Sampling Point: CSP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			x Features	4 0				
(inches)	Color (moist)	<u></u> %	Color (moist)	<u>%</u> <u>Type</u>	Loc ²	<u>Texture</u>	Remarks		
0 - 8	10 YR 4/1	100				Org Muck	Saturated throughout		
> 8	Rocky								
	-								
									
							_		
							_		
1									
	oncentration, D=Dep				ated Sand Gr		ation: PL=Pore Lining, M=Matrix.		
-	Indicators: (Applic	able to all LF					or Problematic Hydric Soils ³ :		
Histosol				Gleyed Matrix (S4	ł)		uck (A9) (LRR I, J)		
Histic Epipedon (A2)				Redox (S5) Matrix (S6)			rairie Redox (A16) (LRR F, G, H) urface (S7) (LRR G)		
	Black Histic (A3) Hydrogen Sulfide (A4)			าเพลเกิร (56) Mucky Mineral (F	1)		ains Depressions (F16)		
	i Layers (A5) (LRR l	F)	-	Gleyed Matrix (F2		_	R H outside of MLRA 72 & 73)		
	ck (A9) (LRR F, G ,		-	d Matrix (F3)	- /	•	d Vertic (F18)		
	Below Dark Surfac			Dark Surface (F6))		rent Material (TF2)		
	ark Surface (A12)		Deplete	d Dark Surface (F	=7)		allow Dark Surface (TF12)		
Sandy M	lucky Mineral (S1)		Redox [Depressions (F8)		Other (E	Explain in Remarks)		
	lucky Peat or Peat (ins Depressions			of hydrophytic vegetation and		
5 cm Mu	cky Peat or Peat (S	3) (LRR F)	(ML	RA 72 & 73 of LI	RR H)		hydrology must be present,		
Destal atlant						unless o	disturbed or problematic.		
	_ayer (if present):								
Type:			_						
Depth (inc	ches):					Hydric Soil F	Present? Yes X No		
Remarks:									
HYDROLO	GV								
-	drology Indicators:								
	cators (minimum of c	ne requirea; o		•			y Indicators (minimum of two required)		
Surface	` '		Salt Crust	` '		Surface Soil Cracks (B6)			
	ter Table (A2)			vertebrates (B13)		Sparsely Vegetated Concave Surface (B8)			
X Saturation	` ,			Sulfide Odor (C1		·	age Patterns (B10)		
X Water M	, ,		-	n Water Table (C			zed Rhizospheres on Living Roots (C3)		
· 	nt Deposits (B2)			thizospheres on l	Living Roots		nere tilled)		
X Drift Dep	, ,		,	not tilled)		-	fish Burrows (C8)		
-	it or Crust (B4)			of Reduced Iron ((C4)		ration Visible on Aerial Imagery (C9)		
	osits (B5)			Surface (C7)		·	norphic Position (D2)		
	on Visible on Aerial	Imagery (B7)	Other (Exp	lain in Remarks)			Neutral Test (D5)		
	tained Leaves (B9)					Frost	-Heave Hummocks (D7) (LRR F)		
Field Observ			V =						
Surface Water			X Depth (inc						
Water Table			X Depth (inc						
Saturation Pr		'es _ ^ No	Depth (inc	ches): <u>0 - 8</u>	Wetl	and Hydrology	Present? Yes X No No		
(includes cap Describe Red	onary fringe) corded Data (stream	gauge, moni	toring well. aerial r	photos, previous	inspections)	if available:			
	222 2000 (000000)	J 30, 1110111			30o/,				
Remarks:									
	tream at sampling p	oint are cover	ed with riprap. Stre	eam has moderat	te flowing wa	ter and a depth	of about 2 inches at sampling point.		
	- 1 31		p - p		3				

Project/Site: Wetland D		City/Co	ounty: Pe	enningt	on County	_ Sampling	Date: 7/29/20	020
Applicant/Owner: Ellsworth AFB					State: SD	_ Sampling	Point: DSP1	
Investigator(s): Tunch Orsoy		Section	n, Townsh	iip, Rar	nge: S13, T2N, R8I	E		
					convex, none): Conc		Slope (%)	:
Subregion (LRR): G60A	Lat:	44° 7' 5	51.003" N		Long: 103° 5' 50.56	31" W	Datum: N	AD83
Soil Map Unit Name: Nunn loam, 6 to 9 percent slopes					NWI classif			
Are climatic / hydrologic conditions on the site typical for the								
Are Vegetation No , Soil No , or Hydrology No					Normal Circumstances"		Yes X N	lo
Are Vegetation No , Soil No , or Hydrology No					eded, explain any answ			
SUMMARY OF FINDINGS – Attach site map								s atc
		Samp	pinig po	JIIIC IX		3, IIIIport	ant reature	.s, etc.
Hydrophytic Vegetation Present? Yes X			Is the Sa	mpled	Area			
Hydric Soil Present? Yes X Wetland Hydrology Present? Yes X		,	within a	Wetlan	ıd? Yes X	No _		
Remarks:	INU							
Tromano.								
VEGETATION – Use scientific names of pla								
Tree Stratum (Plot size:)	Absolute % Cover				Dominance Test wor			
1				ilus	Number of Dominant : That Are OBL, FACW			
2.					(excluding FAC-):	, 01170		(A)
3.					Total Number of Domi	inant		
4.					Species Across All Str			(B)
					Percent of Dominant S	Species		
Sapling/Shrub Stratum (Plot size:)					That Are OBL, FACW			(A/B)
1					Prevalence Index wo	rksheet:		
2					Total % Cover of:		Multiply by:	
3					OBL species			
4					FACW species			
5		= Total	l Cover		FAC species	x 3	=	_
Herb Stratum (Plot size:)		- Total	00001		FACU species	x 4	=	_
1. Calamagrostis stricta	30	Y	FA	ACW	UPL species	x 5	=	_
2. Cicuta maculata	20	Y	0	BL	Column Totals:	(A)		(B)
3. Juncus torreyi	12	N	F/	ACW	Prevalence Inde	ν - P/Λ -		
4. Rumex crispus		N		AC .	Hydrophytic Vegetat			
5. Verbena hastata	$-\frac{3}{3}$	N		ACW	X 1 - Rapid Test for			
6. Schoenoplectus tabernaemontani		N		BL	2 - Dominance Te		o vogotation	
7					3 - Prevalence Inc			
8					4 - Morphological	Adaptations	s¹ (Provide sur	porting
9					data in Remar			
10			l Cover		Problematic Hydr	ophytic Veg	etation¹ (Expla	ain)
Woody Vine Stratum (Plot size:) 1.					¹ Indicators of hydric so be present, unless dis			must
2.					Hydrophytic			
					Vegetation			
% Bare Ground in Herb Stratum22					Present? Y	es X	No	
Remarks:								
Sampling point is in PEM component of wetland along b	ank/littoral ar	ea of s	tream.					

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SOIL	Sampling Point: DSP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			ox Features						
(inches)	Color (moist)	%	Color (moist)	%Type ¹	Loc ²	Texture	Remarks			
0 - 14	10YR 4/1	100				Org Muck	Saturated throughout			
				<u> </u>						
			-							
	-									
				<u> </u>						
			-							
			=Reduced Matrix, C		ted Sand G		ation: PL=Pore Lining, M=Matrix.			
		icable to all	LRRs, unless other				for Problematic Hydric Soils ³ :			
X Histosol	` '			Gleyed Matrix (S4))		luck (A9) (LRR I, J)			
	pipedon (A2)			Redox (S5)			Prairie Redox (A16) (LRR F, G, H)			
Black Histic (A3)				ed Matrix (S6)	,		urface (S7) (LRR G)			
	en Sulfide (A4)	· - \	 •	Mucky Mineral (F1	•		lains Depressions (F16)			
	d Layers (A5) (LRR			Gleyed Matrix (F2)	`	R H outside of MLRA 72 & 73) ed Vertic (F18)			
	uck (A9) (LRR F, G d Below Dark Surfa			ed Matrix (F3) Dark Surface (F6)			arent Material (TF2)			
	ark Surface (A12)	ice (ATT)		ed Dark Surface (F	7)		hallow Dark Surface (TF12)			
	Mucky Mineral (S1)			Depressions (F8)	• ,		Explain in Remarks)			
-	Mucky Peat or Peat			lains Depressions	(F16)		of hydrophytic vegetation and			
	ucky Peat or Peat (LRA 72 & 73 of LR			hydrology must be present,			
						unless disturbed or problematic.				
Restrictive	Layer (if present):									
Type:										
Depth (in	ches):					Hydric Soil	Present? Yes X No No			
Remarks:										
HYDROLO	GY									
Wetland Hy	drology Indicators	s:								
Primary India	cators (minimum of	one require	d; check all that app	oly)		Seconda	ry Indicators (minimum of two required)			
Surface	Water (A1)		Salt Crus	t (B11)		Surface Soil Cracks (B6)				
High Wa	ater Table (A2)		Aquatic II	nvertebrates (B13)		Sparsely Vegetated Concave Surface (B8)				
X Saturati	on (A3)			Sulfide Odor (C1)			nage Patterns (B10)			
X Water M	larks (B1)		Dry-Seas	on Water Table (C	2)	Oxid	lized Rhizospheres on Living Roots (C3)			
	nt Deposits (B2)		_ ′	Rhizospheres on L	,		here tilled)			
X Drift De				not tilled)	•		rfish Burrows (C8)			
	at or Crust (B4)		,	of Reduced Iron (C4)	-	ration Visible on Aerial Imagery (C9)			
	posits (B5)			k Surface (C7)	,	· <u></u>	morphic Position (D2)			
	on Visible on Aeria	l Imagery (B		(plain in Remarks)			-Neutral Test (D5)			
	tained Leaves (B9)	0 , (, `	,			t-Heave Hummocks (D7) (LRR F)			
Field Obser		<u>′</u>				<u>—</u>	, , , ,			
Surface Wat		Yes	No Depth (ii	nches):						
Water Table		· · · · · · · · · · · · · · · · · · ·	No Depth (ii							
Saturation P			No Depth (ii		Wet	land Hydrology	/ Present? Yes X No			
(includes cap		169	No Deptil (ii	iciles) · ·	Well	iana myarology	y riesent: Tes X NO			
		m gauge, m	onitoring well, aerial	photos, previous in	nspections),	if available:				
Remarks:										
				feet high; littoral ar	ea is 5 to 8 t	feet wide. Chan	nel near sampling point is about			
4 feet wide	e, 4 to 8 inches dee	p, and has o	lear moderate flow.							

Project/Site: _Wetland D	(Citv/Countv	Penningt	on County	Sampling	Date: 7/29/2	2020
				State: SD			
Investigator(s): Tunch Orsoy						·	
				convex, none): Con			١٠
	· · · · · · · · · · · · · · · · · · ·						NADOS
•				NWI class		PEM	
Are climatic / hydrologic conditions on the site typical for this			<u>X</u> No _	(If no, explain in	Remarks.)		
Are Vegetation No , Soil No , or Hydrology No sig	nificantly	disturbed?	Are "	Normal Circumstances	" present? \	res <u>X</u>	No
Are Vegetation No , Soil No , or Hydrology No na	turally pro	blematic?	(If ne	eded, explain any ansv	wers in Rema	arks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	samplin	g point le	ocations, transec	ts, import	ant featur	es, etc.
Hydrophytic Vegetation Present? Yes X No		Is th	e Sampled	Area			
Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No		with	in a Wetlan	nd? Yes <u> </u>	XNo_		
Remarks:							
Terraine.							
VEGETATION – Use scientific names of plants	s.						
		Dominant		Dominance Test wo	rksheet:		
		Species?		Number of Dominant			
1				That Are OBL, FACV (excluding FAC-):	√, or FAC	3	(A)
2					=		_ (//)
3				Total Number of Don Species Across All S		4	(B)
4	·			Species Across Air 3	ıı aıa.	<u> </u>	_ (b)
Sapling/Shrub Stratum (Plot size:)		= Total Cov	/er	Percent of Dominant That Are OBL, FACV		75	(A/B)
1				That Ale OBL, I ACV	v, or r AC.		_ (A/b)
2.				Prevalence Index w	orksheet:		
3.				Total % Cover or			
4.				OBL species			
5				FACW species			
		= Total Cov	/er	FAC species			
Herb Stratum (Plot size:)	00	V	EAC	FACU species			
1. Sonchus arvensis 2 Oenothera biennis	20	<u>Y</u> Y	FACU	UPL species			
2.	<u>12</u> 12	Y	FACU	Column Totals:	(A)		(B)
3. Verbena hastata 4. Typha latifolia	10	Y	OBL	Prevalence Ind	ex = B/A = _		
5. Salix interior	10		FACW	Hydrophytic Vegeta	tion Indicate	ors:	
6. Mentha arvensis	10	N	FACW	1 - Rapid Test fo	r Hydrophytic	c Vegetation	
7. Schoenoplectus tabernaemontani	7		OBL	X 2 - Dominance T	est is >50%		
8. Rumex crispus	5	N	FAC	3 - Prevalence Ir			
g. Cicuta maculata	3	N	OBL	4 - Morphologica data in Rema	al Adaptations	s ¹ (Provide su	ipporting
10. Juncus torreyi	2	N	FACW				
	91	= Total Cov	/er	Problematic Hyd	rophytic vege	etation (Expi	ain)
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric s			must
1				be present, unless di	Sturbed or pri	obiematic.	
2				Hydrophytic			
% Bare Ground in Herb Stratum		= Total Cov	/er	Vegetation Present?	Yes X	No	
Remarks:							
Sampling point is in PEM component of wetland along bar	nk/littoral a	rea of strea	ım.				

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SOIL	Sampling Point: DSP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix	0/		ox Feature		1 2	T = 1 do	Damanto	
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	<u>Texture</u> Org	Remarks Majot throughout	
0 - 14	10 YR 5/1	80	10YR 6/8		C	M		Moist throughout	
							-		
	-								
¹ Type: C=C	oncentration, D=De	pletion, RM=I	Reduced Matrix, C	S=Covere	d or Coate	ed Sand G	rains. ² L	ocation: PL=Pore Lining, M=Matrix.	
Ĭ.	Indicators: (Appli	cable to all L	RRs, unless other	erwise not	ed.)		Indicator	rs for Problematic Hydric Soils ³ :	
X Histosol	` '		Sandy	-				Muck (A9) (LRR I, J)	
	pipedon (A2)			Redox (S5				st Prairie Redox (A16) (LRR F, G, H)	
	istic (A3) en Sulfide (A4)			ed Matrix (S				Surface (S7) (LRR G)	
	d Layers (A5) (LRR	F)		Mucky Min Gleyed Ma	. ,		_	Plains Depressions (F16) LRR H outside of MLRA 72 & 73)	
	uck (A9) (LRR F, G,			ed Matrix (uced Vertic (F18)	
	d Below Dark Surfa			Dark Surfa	,			Parent Material (TF2)	
Thick D	ark Surface (A12)			ed Dark Su)	-	Shallow Dark Surface (TF12)	
	Mucky Mineral (S1)			Depressio				er (Explain in Remarks)	
	Mucky Peat or Peat			lains Depre				rs of hydrophytic vegetation and	
5 cm Mi	ucky Peat or Peat (S	53) (LRR F)	(M	LRA 72 & 1	73 of LRR	(H)		and hydrology must be present,	
Restrictive	Layer (if present):						urile	ss disturbed or problematic.	
Type:	Layer (ii present).								
Depth (in	iches).						Hydric Sc	oil Present? Yes ^X No	
Remarks:							Tiyano oc	711 Tesent: Tes No	
rtemants.									
IYDROLO	GY								
Wetland Hy	drology Indicators	s:							
Primary Indi	cators (minimum of	one required;	check all that app	oly)			Secon	dary Indicators (minimum of two required)	
Surface	Water (A1)		Salt Crus	t (B11)			Sı	urface Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic II	nvertebrate	es (B13)		Sparsely Vegetated Concave Surface (B8)		
Saturati	on (A3)		Hydroger	n Sulfide O	dor (C1)		Dr	rainage Patterns (B10)	
X Water N	/larks (B1)		Dry-Seas	on Water 1	Γable (C2)		0:	xidized Rhizospheres on Living Roots (C3)	
X Sedime	nt Deposits (B2)		Oxidized	Rhizosphe	res on Liv	ing Roots	(C3)	(where tilled)	
Drift De	posits (B3)	(where	not tilled)			Cr	rayfish Burrows (C8)		
	at or Crust (B4)	Presence	of Reduce	ed Iron (C	1)	Sa	aturation Visible on Aerial Imagery (C9)		
	posits (B5)		k Surface (eomorphic Position (D2)		
·	ion Visible on Aerial		Other (Ex	oplain in Re	emarks)		FAC-Neutral Test (D5)		
	Stained Leaves (B9)						Fr	ost-Heave Hummocks (D7) (LRR F)	
Field Obser			.,						
Surface Wat			o X Depth (ii						
Water Table			o X Depth (ii						
Saturation P		Yes N	o X Depth (ii	nches):		Wetl	land Hydrolo	egy Present? Yes X No No	
	pillary fringe) corded Data (strear	m gauge, mor	nitoring well, aerial	photos, pr	evious ins	pections),	, if available:		
	,								
Remarks:									
Stream ba	nk at sampling point	t is moderatel	y sloped; littoral a	rea is 10 to	15 feet w	ide. Chan	nel near sam	pling point is about	
	le, greater than 3 fe								

Project/Site: Wetland D	(City/Cou	nty: Penningt	on County	Sampling	Date: 7/30/20	20
Applicant/Owner: Ellsworth AFB		·		State: SD	Sampling	Point: DSP3	
Investigator(s): Tunch Orsoy	Ş	Section,	Township, Ra	nge: S13, T2N	I, R8E		
			•	convex, none):		Slope (%):	
Subregion (LRR): G60A							
Soil Map Unit Name: Nunn loam, 6 to 9 percent slopes				NWI cla			
Are climatic / hydrologic conditions on the site typical for thi							
Are Vegetation No , Soil No , or Hydrology No :	-			'Normal Circumstand		es X No	n
Are Vegetation No , Soil No , or Hydrology No				eded, explain any a			
SUMMARY OF FINDINGS – Attach site map							s, etc.
Hydrophytic Vegetation Present? Yes X N	No.						
Hydric Soil Present? Yes X			the Sampled		Y No		
Wetland Hydrology Present? Yes X		l w	rithin a Wetlar	na? Yes	X No		
Remarks:		•					
VEGETATION – Use scientific names of plan	nts.						
Table to the second sec		Domina	ant Indicator	Dominance Test	worksheet:		
Tree Stratum (Plot size:)			s? Status	Number of Domin			
1				That Are OBL, FA	CW, or FAC		
2				(excluding FAC-):	_		(A)
3				Total Number of D			
4				Species Across A	II Strata:		(B)
Carling/Charle Ctrature / Diet aires		= Total (Cover	Percent of Domina			
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FA	CW, or FAC:		(A/B)
1				Prevalence Index	k worksheet:		
3.				Total % Cove	er of:	Multiply by:	_
4				OBL species _	x 1	=	_
5.				FACW species _			
	!	= Total (Cover	FAC species			_
Herb Stratum (Plot size:)		.,	0.51	FACU species _	-		_
1. Typha latifolia			OBL	UPL species _			
2. Juncus torreyi	10		FACU	Column Totals: _	(A)	-	_ (B)
Poa pratensis Hordeum jubatum	8	N	FACW	Prevalence	Index = B/A = _		_
5. Helianthus annuus		N	FACU	Hydrophytic Veg	etation Indicate	ors:	
J				X 1 - Rapid Tes	t for Hydrophytic	Vegetation	
6				2 - Dominanc			
8				3 - Prevalence	e Index is ≤3.0 ¹		
9.					gical Adaptations marks or on a se		porting
10.				Problematic H		. ,	in)
	100	= Total (Cover				
Woody Vine Stratum (Plot size:) 1				¹ Indicators of hydr be present, unless			nust
2.				Hydrophytic			
	:			Vegetation Present?	Yes X	No	
% Bare Ground in Herb Stratum0				Fresent?	162	140	
Remarks:							
Sampling point is in PEM component of wetland adjace	ent to the nort	thwester	n tributary of t	he main stream cha	nnel.		

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SOIL								Sampling Point: _	DSP3
Profile Des	cription: (Describe	to the dep	oth needed to docum	nent the	indicator	or confirm	the absence	of indicators.)	
Depth	Matrix		Redo	x Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 7	10YR 4/1	100					Ora Muck	Moist throughout	

Depth	Matrix			x Feature					
(inches)	Color (moist)	<u> </u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 7	10YR 4/1	100					Org Muck	Moist throughout	
, ,	oncentration, D=Dep	•	•			d Sand Gr		on: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :	
		able to all Livi	Sandy (•			k (A9) (LRR I, J)	
X Histosol (A1) Histic Epipedon (A2)				Redox (S5	` '		Coast Prairie Redox (A16) (LRR F, G, H)		
Black Hi			d Matrix (S	•		Dark Surface (S7) (LRR G)			
_	n Sulfide (A4)		Mucky Mir			High Plains Depressions (F16)			
	l Layers (A5) (LRR F		Loamy Gleyed Matrix (F2)				(LRR H outside of MLRA 72 & 73)		
1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F3)							,	Vertic (F18)	
	Below Dark Surfac		Dark Surfa	•		Red Parent Material (TF2)			
	ark Surface (A12)	- ()	·		ırface (F7)		Very Shallow Dark Surface (TF12)		
	lucky Mineral (S1)		Redox Depressions (F8)				Other (Explain in Remarks)		
2.5 cm Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16)						16)	³ Indicators of hydrophytic vegetation and		
	(MLRA 72 & 73 of LRR H)			•	wetland hydrology must be present,				
5 cm Mucky Peat or Peat (S3) (LRR F)			(,	unless disturbed or problematic.		
estrictive L	ayer (if present):							·	
Type:			=.						
Depth (inc	ches):		-				Hydric Soil Pre	esent? Yes X No	
Remarks:							1		
YDROLO	CV								

HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of c	one required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3)X Water Marks (B1) Sediment Deposits (B2)X Drift Deposits (B3)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living F	Crayfish Burrows (C8)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Water-Stained Leaves (B9)	- · · · · · · · · · · · · · · · · · · ·	 Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Field Observations:		
Surface Water Present? Y	Yes No X Depth (inches):	
Water Table Present? Y	Yes No X Depth (inches):	
Saturation Present? Y (includes capillary fringe)	Yes No _X _ Depth (inches):	Wetland Hydrology Present? Yes X No No
Describe Recorded Data (stream Remarks:	n gauge, monitoring well, aerial photos, previous inspect	tions), if available:
		est via overland flow. There are lots of tire ruts containing

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: Wetland D	(City/Count	ty: Penningto	on County	Sampling D	ate: 7/30/2020
Applicant/Owner: Ellsworth AFB		•		State: SD	Sampling P	oint: DSP4
Investigator(s): _ Tunch Orsoy	;					
				convex, none): Con		
Subregion (LRR): G60A						
5 · /				NWI class		<u></u>
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation No , Soil No , or Hydrology No si	-			Normal Circumstance		s X No
Are Vegetation No , Soil No , or Hydrology No no				eded, explain any ans		
SUMMARY OF FINDINGS – Attach site map s						
Hydrophytic Vegetation Present? Yes X No						
Hydric Soil Present? Yes X No			the Sampled		V Na	
Wetland Hydrology Present? Yes X No		Wit	hin a Wetlan	id? Yes_	X No	
Remarks:		\!\				
VEGETATION – Use scientific names of plant	ts.					
		Dominan	nt Indicator	Dominance Test w	orksheet:	
Tree Stratum (Plot size:)	% Cover			Number of Dominan		
1				That Are OBL, FAC		
2				(excluding FAC-):		(A)
3				Total Number of Do		(5)
4				Species Across All S	Strata:	(B)
Sapling/Shrub Stratum (Plot size:)		= Total Co	over	Percent of Dominan		(4.45)
1				That Are OBL, FAC	W, or FAC:	(A/B)
2				Prevalence Index v	vorksheet:	
3.				Total % Cover of		
4.				OBL species		
5				FACW species		
		= Total Co	over	FAC species		
Herb Stratum (Plot size:)	45		EA C) A /	FACU species		
Juncus torreyi Schoenoplectus tabernaemontani	<u>45</u> 25	<u>Y</u> Y	_ FACW OBL	UPL species		
Tunha angustifalia	15	N	OBL	Column Totals:	(A)	(B)
Typna angustilolla Rumex crispus	3	N	FAC	Prevalence Inc	dex = B/A =	
5. Poa pratensis	3	N	FACU	Hydrophytic Veget	ation Indicators	s:
6. Sonchus arvensis	2	N	FAC	X 1 - Rapid Test f	or Hydrophytic \	/egetation
7. Hordeum jubatum	2	N	FACW	2 - Dominance		
8				3 - Prevalence I		
9				4 - Morphologic	al Adaptations¹ arks or on a sep	
10				Problematic Hyd		•
	95	= Total Co	over			
Woody Vine Stratum (Plot size:) 1				¹ Indicators of hydric be present, unless of		
2.				Hydrophytic		
				Vegetation	V Y	.1_
% Bare Ground in Herb Stratum5				Present?	Yes X	10
Remarks:						
Sampling point is in PEM component of wetland adjacen	t to the nort	thwestern	tributary of th	ne main stream chann	el.	

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SOIL	Sampling Point: _	DSP4

Profile Desc	ription: (Describe	to the depth n	eeded to docu	ment the	indicator	or confirn	n the absence of	of indicators.)
Depth	Matrix		x Feature	1	<u> </u>			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 14	10 YR 5/1	1	0YR 6/8	3			Org Muck	Saturated throughout
				_				
				- · ·			 .	
				-			 ·	_
				_				
	ncentration, D=Dep					d Sand G		ation: PL=Pore Lining, M=Matrix.
-	ndicators: (Applic	cable to all LRF						or Problematic Hydric Soils ³ :
X Histosol	` '		Sandy					uck (A9) (LRR I, J)
Histic Ep	ipedon (A2)		Sandy	Redox (So d Matrix (S				Prairie Redox (A16) (LRR F, G, H) urface (S7) (LRR G)
	n Sulfide (A4)			Mucky Mi	,			ains Depressions (F16)
	Layers (A5) (LRR	F)	-	Gleyed M			_	R H outside of MLRA 72 & 73)
	ck (A9) (LRR F, G,		Deplete	ed Matrix (F3)		Reduce	d Vertic (F18)
	Below Dark Surface	ce (A11)		Dark Surfa	` ,			rent Material (TF2)
	rk Surface (A12) ucky Mineral (S1)			ed Dark St Depressio	ırface (F7)	1	-	nallow Dark Surface (TF12) Explain in Remarks)
	lucky Peat or Peat	(S2) (I RR G. H			essions (F	16)		f hydrophytic vegetation and
·	cky Peat or Peat (S		-		73 of LRR			hydrology must be present,
								disturbed or problematic.
Restrictive L	ayer (if present):							
Type:			-					
Depth (inc	:hes):		_				Hydric Soil F	Present? Yes X No No
Remarks:								
HYDROLO	GY							
Wetland Hvd	Irology Indicators	<u> </u>						
_	ators (minimum of		eck all that app	ly)			Secondar	y Indicators (minimum of two required)
Surface \	Water (A1)	•	Salt Crust	(B11)			Surfa	ice Soil Cracks (B6)
	ter Table (A2)		Aquatic In		es (B13)			sely Vegetated Concave Surface (B8)
X Saturation			Hydrogen	Sulfide O	dor (C1)		Drain	age Patterns (B10)
X Water Ma	arks (B1)		Dry-Seaso	on Water	Γable (C2)		Oxidi	zed Rhizospheres on Living Roots (C3)
	t Deposits (B2)		Oxidized	Rhizosphe	res on Liv	ing Roots	(C3) (wh	nere tilled)
X Drift Dep				not tilled)			-	fish Burrows (C8)
_	t or Crust (B4)		Presence			1)		ration Visible on Aerial Imagery (C9)
	osits (B5)	(57)	Thin Mucl		. ,			norphic Position (D2)
	on Visible on Aerial	Imagery (B7)	Other (Ex	plain in Re	emarks)			Neutral Test (D5)
Field Observ	ained Leaves (B9)					1	FIOSI	-Heave Hummocks (D7) (LRR F)
Surface Water		Yes No _	X Donth (in	choc):				
		res No _ res No _				_		
Water Table I		res No _ resX No _			0 - 14	— Wot	land Hydrology	Present? Yes X No No
Saturation Pr (includes cap		res <u> </u>	Deptii (iii	icries)		_ well	ianu nyurology	riesent: res No
Describe Rec	corded Data (stream	n gauge, monito	ring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:								
The channe	of the tributary ne	ar the sampling	point has stand	ing water	that is less	than 2 in	ches deep with r	no obvious flow.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: Wetland E		Citv/Countv	: Meade C	County	Sampling	Date:	7/31/20)20
				State: SD	-			
Investigator(s): Tunch Orsoy								-
				convex, none): None		Slor	ne (%).	
Subregion (LRR): G60A L								
Soil Map Unit Name: Lohmiller and Glenberg soils, channeled						_ Datui PEM	II. <u>INA</u>	<u>D03</u>
•				NWI classific	<u></u>	- LIVI		
Are climatic / hydrologic conditions on the site typical for this tir								
Are Vegetation No , Soil No , or Hydrology No sign	-			Normal Circumstances"	•		No	'
Are Vegetation No , Soil No , or Hydrology No natu	ırally pro	blematic?	(If ne	eded, explain any answe	ers in Rema	arks.)		
SUMMARY OF FINDINGS - Attach site map sh	owing	samplin	g point le	ocations, transects	s, import	ant fe	atures	s, etc.
Hadarah fa Vandatian Property								
Hydrophytic Vegetation Present? Yes X No _ Hydric Soil Present? Yes X No _			e Sampled					
Wetland Hydrology Present? Yes X No		with	in a Wetlan	nd? Yes X	No_		•	
Remarks:								
VEGETATION – Use scientific names of plants.	•							
		Dominant		Dominance Test worl				
		Species?		Number of Dominant S That Are OBL, FACW,	•			
1				(excluding FAC-):	UITAC .	2		(A)
3				Total Number of Domii	nant			
4				Species Across All Stra		2		(B)
		= Total Cov	/er	Percent of Dominant S	inecies			
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW,		100		(A/B)
1				Prevalence Index wo	rkshoot.			
2				Total % Cover of:		Multiply	, bv.	
3				OBL species				
4				FACW species				
5		= Total Cov	uor.	FAC species				
Herb Stratum (Plot size:)		- Total Cov	/ei	FACU species				_
1. Echinochloa muricata	20	Υ	FACW	UPL species	x 5	=		_
2. Ambrosia trifida	20	<u>Y</u>	FAC	Column Totals:	(A)			_ (B)
3. Mentha arvenis	15	<u>N</u>	FACW	Prevalence Index	ν – Β/Λ –			
4. Persicaria maculosa	10	N	FACW	Hydrophytic Vegetati				
5. Typha latifolia	5 2	N	OBL	1 - Rapid Test for			ation	
6. Schoenoplectus tabernaemontani		N	OBL	X 2 - Dominance Te				
7. Sagittaria cuneata 8 Hordeum jubatum	2 2	N	OBL FACW	3 - Prevalence Ind				
U	2	N	FACW	4 - Morphological	Adaptations	s¹ (Provi	de supp	orting
				data in Remark	s or on a se	eparate	sheet)	
10	78	= Total Cov		Problematic Hydro	phytic Vege	etation ¹	(Explair	1)
Woody Vine Stratum (Plot size:)		= Total Cov	/ei	¹ Indicators of hydric so				ıust
1				be present, unless dist	urbed or pr	oblemat	ic.	
2				Hydrophytic				
_		= Total Cov	/er	Vegetation Present? Yes	ae X	No		
% Bare Ground in Herb Stratum 22				riesent: 16	es X	NO		
Remarks: The sampling point contains giant ragweed (Ambrosia trifida	a) and of	her snecies	that are no	t dominant species in the	overall we	tland		
The sampling point contains giant ragweed (Ambrosia linius	a, and Ol	nor apooles	and are no	t dominant apodica in the	, Sveran we	aunu.		

US Army Corps of Engineers B-39 Great Plains – Version 2.0

SOIL	Sampling Point:	ESP1
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of	ators.)	

	atrix		dox Features	_ 1	2		
(inches) Color (mo		Color (moist)			Loc ²	<u>Texture</u>	Remarks
0 - 8 10YR 3/1	95	5YR 5/8	5	<u> </u>	M	Org Muck	Moist throughout
> 8 Rocky							
							
¹ Type: C=Concentration,	D=Depletion, RM=	Reduced Matrix,	CS=Covered o	r Coated S	Sand Gr	rains. ² Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all	LRRs, unless oth	erwise noted	.)		Indicators for	or Problematic Hydric Soils ³ :
X Histosol (A1)		Sandy	Gleyed Matri	x (S4)		1 cm Mu	uck (A9) (LRR I, J)
Histic Epipedon (A2)		Sandy	Redox (S5)			Coast P	rairie Redox (A16) (LRR F, G, H)
Black Histic (A3)			ed Matrix (S6)				rface (S7) (LRR G)
Hydrogen Sulfide (A4)			y Mucky Miner			_	ains Depressions (F16)
Stratified Layers (A5)			y Gleyed Matri			,	H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR Depleted Below Dark			ted Matrix (F3)	•			d Vertic (F18) rent Material (TF2)
Thick Dark Surface (A			ted Dark Surfa	` ,			allow Dark Surface (TF12)
Sandy Mucky Mineral			Con Dann Gang			-	Explain in Remarks)
2.5 cm Mucky Peat or	. ,	·	Plains Depress	. ,)		f hydrophytic vegetation and
5 cm Mucky Peat or P	eat (S3) (LRR F)	(N	ILRA 72 & 73	of LRR H)	wetland	hydrology must be present,
						unless o	listurbed or problematic.
Restrictive Layer (if pres	ent):						
••							
Depth (inches):						Hydric Soil F	Present? Yes X No
IYDROLOGY							
Wetland Hydrology Indic	ators:						
Primary Indicators (minimu		d check all that an	nlv)			Secondar	y Indicators (minimum of two required)
Surface Water (A1)	an or one required	Salt Cru				·	ce Soil Cracks (B6)
High Water Table (A2	1		Invertebrates ((B13)			sely Vegetated Concave Surface (B8)
Saturation (A3)	,		n Sulfide Odor				age Patterns (B10)
X Water Marks (B1)			son Water Tab			·	zed Rhizospheres on Living Roots (C3)
Sediment Deposits (B	2)		l Rhizospheres		Roots (ere tilled)
X Drift Deposits (B3)	_,		e not tilled)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ,	ish Burrows (C8)
Algal Mat or Crust (B4)	,	e of Reduced	Iron (C4)			ation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	,	Thin Mu	ck Surface (C7	7)			norphic Position (D2)
Inundation Visible on	Aerial Imagery (B		xplain in Rema				Neutral Test (D5)
Water-Stained Leaves	(B9)					Frost-	Heave Hummocks (D7) (LRR F)
Field Observations:							
Surface Water Present?	Yes I	No X Depth (inches):				
Water Table Present?	Yes I	No X Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes 1	No X Depth (inches):				Present? Yes X No No
	stream gauge, mo	nitoring well, aeria	al photos, previ	ious inspe	ctions),	if available:	
Describe Recorded Data (3 3 .						
Remarks:							
Remarks:	ampling point. The		at direct draina	age from P	ond 3 a	and the concrete	flume/channel that directs drainage

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: Wetland E		City/C	County: _	Meade C	County	_ Sampling Date:	7/31/2020
Applicant/Owner: Ellsworth AFB					State: SD	_ Sampling Point	ESP2
Investigator(s): Tunch Orsoy		Section	on, Tow	nship, Ra	nge: S11, T2	2N, R8E	
Landform (hillslope, terrace, etc.): Fla					=		
	Lat: _						
Soil Map Unit Name: Nunn clay loam					NWI classifi		· ·
Are climatic / hydrologic conditions on t							
Are Vegetation No , Soil No , or		-			'Normal Circumstances"		X No
Are Vegetation No , Soil No , or		•			eeded, explain any answ		
SUMMARY OF FINDINGS – A							eatures, etc.
Hydrophytic Vegetation Present?	Yes <u>X</u> No					<u> </u>	
Hydric Soil Present?	Yes X No			Sampled a Wetlar		No	
Wetland Hydrology Present?	YesX No		Within	a wellai	iur res_ <u>^</u>	NO	
Remarks:							
VEGETATION – Use scientific	names of plants.						
		ute Dom			Dominance Test wor	ksheet:	
Tree Stratum (Plot size:		ver Spe			Number of Dominant S		
1					That Are OBL, FACW, (excluding FAC-):	or FAC	(A)
2					,		
3 4					Total Number of Domi Species Across All Str		(B)
		= Tot				· ·	,
Sapling/Shrub Stratum (Plot size:)	100	iai oovo		Percent of Dominant S That Are OBL, FACW,		(A/B)
1					Prevalence Index wo	wheels a st.	
2					Total % Cover of:		alv by:
3					OBL species		
4			-		FACW species		
5			tal Cava		FAC species		
Herb Stratum (Plot size:		= Tot	iai Cove	ı	FACU species		
1. Eleocharis palustris	50	Y	<u> </u>	OBL	UPL species	x 5 =	
2. Typha latifolia	25	Y		OBL	Column Totals:	(A)	(B)
3. Salix interior				FACW	Provalence Index	x = B/A =	
4. Rumex crispus				FAC	Hydrophytic Vegetati		
5. Oenothera biennis		<u>N</u>		FACU	X 1 - Rapid Test for		etation
6					2 - Dominance Te		
7					3 - Prevalence Inc		
8					4 - Morphological	Adaptations ¹ (Pro	vide supporting
9 10						ks or on a separat	
10.) = Tot			Problematic Hydro	ophytic Vegetation	n' (Explain)
Woody Vine Stratum (Plot size:1)				¹ Indicators of hydric so be present, unless dis		
2.					Hydrophytic		
		= Tot	al Cove		Vegetation	X	
% Bare Ground in Herb Stratum0					Present? Yo	es X No _	
Remarks:							

SOIL Sampling Point: ESP2

Profile Desc	ription: (Describe	to the depth n	eeded to docui	ment the i	indicator	or confirm	the absence of	indicators.)	
Depth	Matrix			x Feature	1				
(inches)	Color (moist)		Color (moist)	%	Type'	Loc ²	Texture	Remarks	
0 - 14	10YR 4/1	100					Org Muck	Saturated throughout	<u> </u>
-				_			·		
				-					
									
¹ Type: C=Co	ncentration, D=De	pletion, RM=Red	duced Matrix, C	S=Covered	d or Coate	d Sand Gr	ains. ² Locati	on: PL=Pore Lining, M=Mat	rix.
Hydric Soil I	ndicators: (Applic	cable to all LRF	s, unless othe	rwise not	ed.)		Indicators for	Problematic Hydric Soils	3:
X Histosol	(A1)		Sandy	Gleyed Ma	atrix (S4)		1 cm Muc	k (A9) (LRR I, J)	
	ipedon (A2)		Sandy l	Redox (S5	5)			nirie Redox (A16) (LRR F, G	, H)
Black His	` '			d Matrix (S	,			ace (S7) (LRR G)	
	n Sulfide (A4)		-	Mucky Mir			_	ns Depressions (F16)	
	Layers (A5) (LRR	,	-	Gleyed Ma d Matrix (l			•	H outside of MLRA 72 & 73 Vertic (F18)	3)
	ck (A9) (LRR F, G, Below Dark Surfac			Dark Surfa	,			nt Material (TF2)	
	rk Surface (A12)	50 (7111)			ırface (F7)			low Dark Surface (TF12)	
Sandy M	ucky Mineral (S1)			Depressio				plain in Remarks)	
	lucky Peat or Peat	. , .) High Pl	ains Depre	essions (F	16)		hydrophytic vegetation and	
5 cm Mu	cky Peat or Peat (S	33) (LRR F)	(ML	RA 72 & 7	73 of LRR	H)		ydrology must be present,	
							unless dis	sturbed or problematic.	
	ayer (if present):								
,, <u> </u>			-						
	:hes):		-				Hydric Soil Pro	esent? Yes X No	
Remarks:									
HYDROLO	GY								
Wetland Hyd	Irology Indicators	:							
Primary Indic	ators (minimum of	one required; ch	eck all that appl	y)			Secondary	Indicators (minimum of two	required)
Surface \	Water (A1)		Salt Crust	(B11)			Surface	e Soil Cracks (B6)	
High Wa	ter Table (A2)		Aquatic In		s (B13)			ly Vegetated Concave Surfa	ice (B8)
X Saturatio	n (A3)		Hydrogen	Sulfide O	dor (C1)		Drainag	ge Patterns (B10)	
X Water Ma	arks (B1)		Dry-Seaso	on Water 1	Γable (C2)		Oxidize	ed Rhizospheres on Living R	toots (C3)
Sedimen	t Deposits (B2)		Oxidized F	Rhizosphe	res on Liv	ing Roots ((C3) (whe	re tilled)	
X Drift Dep	osits (B3)		(where	not tilled)			Crayfis	h Burrows (C8)	
Algal Ma	t or Crust (B4)		Presence	of Reduce	ed Iron (C4	·)	Saturat	ion Visible on Aerial Imager	y (C9)
Iron Dep	osits (B5)		Thin Muck	Surface ((C7)		Geomo	orphic Position (D2)	
	on Visible on Aerial	Imagery (B7)	Other (Ex	olain in Re	emarks)			eutral Test (D5)	
	ained Leaves (B9)						Frost-H	leave Hummocks (D7) (LR	R F)
Field Observ			V						
Surface Water		Yes No _							
Water Table I		Yes No _						V	
Saturation Pr		Yes X No _	Depth (in	ches): <u>0</u>	- 14	_ Wetla	and Hydrology P	resent? Yes X No	·—
(includes cap Describe Rec	iliary fringe) orded Data (strean	n gauge, monito	ring well, aerial	photos. pr	evious ins	pections).	if available:		
	(50.501)	J J.,	J =::, 20::01	,, p.	, o	, , ,	· · · · · · · ·		
Remarks:									
	water at sampling	point but nocket	s exist nearby	Ground is	highly sati	urated			
otalianing	at camping	r s sat poorto	callet flourby.						

Appendix B Photographs



Northeast of Wetland A – Facing Southwest



Culvert at Northeastern End of Wetland A – Facing Northeast



Wetland A at Sampling Point ASP1 – Facing Southwest



Wetland A at Sampling Point ASP2 – Facing West



North of Wetland B – Facing South



Wetland B at Sampling Point BSP1 – Facing Southeast



Wetland B at Sampling Point BSP1 – Facing North



Concrete Flume/Channel at Southern End of Wetland B – Facing Southeast



Northern End of Wetland C – Facing North



Southern Portion of Wetland C – Facing Northwest



Concrete Flume/Channel at Southern End of Wetland C – Facing Southeast



Pond 1 – Facing Southeast



Wetland D at Sampling Point DSP1 – Facing East



Wetland D at Sampling Point DSP2 – Facing East



Wetland D at Sampling Point DSP3 – Facing North



Wetland D at Sampling Point DSP4 – Facing West



Northern End of Wetland D – Facing South



Northern End of Wetland D – Facing Northwest



Wetland E at Sampling Point ESP1 – Facing North



Concrete Flume/Channel at Southern End of Wetland E - Facing South



Southern Portion of Wetland E – Facing West



Pond 3 – Facing East



Wetland E at Sampling Point ESP2 – Facing North



Former Dam in Wetland $\mathsf{E}-\mathsf{Facing}$ South



Northern Portion of Wetland E – Facing Southwest

Approved Jurisdictional Determination



DEPARTMENT OF THE ARMY

CORPS OF ENGINEERS, OMAHA DISTRICT SOUTH DAKOTA REGULATORY OFFICE 28563 POWERHOUSE ROAD, ROOM 118 PIERRE, SOUTH DAKOTA 57501-6174

November 4, 2020

South Dakota Regulatory Office 28563 Powerhouse Road, Room 118 Pierre, South Dakota 57501

Ellsworth Air Force Base 28 CES Attn: Mark Howard 2125 Scott Drive Ellsworth Air Force Base, South Dakota 57706

Dear Mr. Howard:

Reference is made to the information received September 14, 2020, concerning Section 404 of the Clean Water Act permit requirements. The review area is located in portions of Sections 11 and 13, Township 8 East, Range 2 North and Section 18, Township 2 North, Range 9 East, Pennington and Meade County, South Dakota.

Based on the information provided, we have determined that there are waters of the United States (i.e. jurisdictional waters) located within the review area. Therefore, any activity involving the discharge of dredged or fill material within the waters of the United States would require a permit from the Corps of Engineers.

An approved jurisdictional determination (JD) has been completed for your project. This JD is valid for 5 years from the date of this letter. The JD is enclosed and also may be viewed at our website. The link to the website is shown below. The JD will be available on the website within 30 days. If you are not in agreement with the JD, you may request an administrative appeal under Corps of Engineers regulations found at 33 C.F.R. 331. Enclosed you will find a Notification of Administrative Appeal Options and Process and Request for Appeal form (RFA). Should you decide to submit an RFA form, it must be received by the Corps of Engineers Northwestern Division Office within 60 days from the date of this correspondence (by January 2, 2021). It is not necessary to submit a RFA if you do not object to the JD.

You can obtain additional information about the Regulatory Program from our website:

http://www.nwo.usace.army.mil/Missions/RegulatoryProgram/SouthDakota.aspx

If you have any questions, please feel free to contact this office at the above Regulatory Office address, or telephone Jeff Breckenridge at (605) 341-3169, ext. 3621 and reference action ID NWO-2020-01740-PIE.

Sincerely,

for Steven E. Naylor

Regulatory Program Manager,

South Dakota

Enclosures

CC:

XCEL Engineering (Orsoy)



I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): 11/3/2020

ORM Number: NWO-2020-01740-PIE

Associated JDs: N/A

Review Area Location¹: State/Territory: South Dakota City: Ellsworth Air Force Base

County/Parish/Borough: Pennington County

Center Coordinates of Review Area: Latitude 44.135796 Longitude -103.099058

II. FINDINGS

A. Summary: Check all that apply. At least one box from the following list MUST be selected. Complete the corresponding sections/tables and summarize data sources.

- The review area is comprised entirely of dry land (i.e., there are no waters or water features, including wetlands, of any kind in the entire review area). Rationale: N/A
- ☐ There are "navigable waters of the United States" within Rivers and Harbors Act jurisdiction within the review area (complete table in Section II.B).
- ☑ There are "waters of the United States" within Clean Water Act jurisdiction within the review area (complete appropriate tables in Section II.C).
- There are waters or water features excluded from Clean Water Act jurisdiction within the review area (complete table in Section II.D).

B. Rivers and Harbors Act of 1899 Section 10 (§ 10)²

§ 10 Name	§ 10 Size		§ 10 Criteria	Rationale for § 10 Determination	
N/A.	N/A.	N/A	N/A.	N/A.	

C. Clean Water Act Section 404

Territorial Seas and Traditional Navigable Waters ((a)(1) waters): ³								
(a)(1) Name (a)(1) Size (a)(1) Criteria Rationale for (a)(1) Determination								
N/A.	N/A. N/A.		N/A.	N/A.				

Tributaries ((a)	Tributaries ((a)(2) waters):						
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination			
NWO-2020- 01740-PIE-C	.23	acre(s)	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	This (a)(2) tributary flows to Boxelder Creek which flows to the Cheyenne River (TNW).			
NWO-2020- 01740-PIE-D	5.31	acre(s)	(a)(2) Perennial tributary	This (a)(2) tributary flows to Boxelder Creek which flows to the Cheyenne River (TNW).			

¹ Map(s)/figure(s) are attached to the AJD provided to the requestor.

² If the navigable water is not subject to the ebb and flow of the tide or included on the District's list of Rivers and Harbors Act Section 10 navigable waters list, do NOT use this document to make the determination. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Rivers and Harbors Act Section 10 navigability determination.

³ A stand-alone TNW determination is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where upstream or downstream limits or lake borders are established. A stand-alone TNW determination should be completed following applicable guidance and should NOT be documented on the AJD Form.



Tributaries ((a)	Tributaries ((a)(2) waters):						
(a)(2) Name	(a)(2) Size	(a)(2) Criteria	Rationale for (a)(2) Determination				
		contributes					
		surface water					
		flow directly or					
		indirectly to an					
		(a)(1) water in a					
		typical year.					

Lakes and ponds, and impoundments of jurisdictional waters ((a)(3) waters):						
(a)(3) Name	(a)(3) Size		(a)(3) Criteria	Rationale for (a)(3) Determination		
NWO-2020- 01740-PIE-A	1.33	acre(s)	(a)(3) Lake/pond or impoundment of a jurisdictional water contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	This is a stormwater detention pond constructed in an (a)(2) tributary to Boxelder Creek which flows to the Cheyenne River (TNW).		

Adjacent wetlands ((a)(4) waters):						
(a)(4) Name	(a)(4) Size		(a)(4) Criteria	Rationale for (a)(4) Determination		
NWO-2020- 01740-PIE-B	0.13	acre(s)	(a)(4) Wetland separated from an (a)(1)-(a)(3) water only by an artificial structure allowing a direct hydrologic surface connection between the wetland and the (a)(1)-(a)(3) water, in a typical year.	Flow from this wetland goes through a concrete flume to an (a)(2) tributary to Boxelder Creek which flows to the Cheyenne River (TNW).		
NWO-2020- 01740-PIE-E	2.26	acre(s)	(a)(4) Wetland abuts an (a)(1)- (a)(3) water.	This is a riverine wetland feature that directly abuts an (a)(2) tributary to Boxelder Creek which flows to the Cheyenne River (TNW).		

D. Excluded Waters or Features



Excluded waters ((b)(1) – (b)(12)): ⁴					
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination	
NWO-2020- 01740-PIE-F	2000	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This feature is a road ditch constructed wholly in uplands.	

III. SUPPORTING INFORMATION

- **A. Select/enter all resources** that were used to aid in this determination and attach data/maps to this document and/or references/citations in the administrative record, as appropriate.
 - ☑ Information submitted by, or on behalf of, the applicant/consultant: Wetland Surveys to Support B-21 Enivironmental Impact Statement Ellsworth Air Force Base, South Dakota, September 2020. Prepared by Xcel Engineering.

This information is sufficient for purposes of this AJD.

Rationale: N/A

- ☐ Data sheets prepared by the Corps: Title(s) and/or date(s).
- Photographs: Aerial: Google Earth various years.
- ☐ Corps site visit(s) conducted on: Date(s).
- Previous Jurisdictional Determinations (AJDs or PJDs): NWO-2004-30243-PIE, NWO-2008-00731-

PIE, and NWO-2019-00351-PIE.

- Antecedent Precipitation Tool: provide detailed discussion in Section III.B.
- ☐ USDA NRCS Soil Survey: Title(s) and/or date(s).
- ☐ USFWS NWI maps: Title(s) and/or date(s).
- USGS topographic maps: Bend 24K.

Other data sources used to aid in this determination:

Data Source (select)	Name and/or date and other relevant information
USGS Sources	N/A.
USDA Sources	N/A.
NOAA Sources	N/A.
USACE Sources	N/A.
State/Local/Tribal Sources	N/A.
Other Sources	N/A.

B. Typical year assessment(s): Tributaries were determined to be perennial based upon flowing water being observed and documented during the wetland delineation conducted 7/28/20 thru 8/1/20. The ATP showed

⁴ Some excluded waters, such as (b)(2) and (b)(4), may not be specifically identified on the AJD form unless a requestor specifically asks a Corps district to do so. Corps districts may, in case-by-case instances, choose to identify some or all of these waters within the review area.

⁵ Because of the broad nature of the (b)(1) exclusion and in an effort to collect data on specific types of waters that would be covered by the (b)(1) exclusion, four sub-categories of (b)(1) exclusions were administratively created for the purposes of the AJD Form. These four sub-categories are not new exclusions, but are simply administrative distinctions and remain (b)(1) exclusions as defined by the NWPR.



that this occurred during the dry season under slightly wetter than normal conditions right at the high end of the 30-Year Normal Range.

C. Additional comments to support AJD: N/A.

Path: C:\Users\Anna Giordano\Desktop\Desktop Projects\GIS_XcelEngineering\Map2-1_Pond2Area.mxd

Date: 8/28/2020

B-65

Path: C:\Users\Anna Giordano\Desktop\Desktop Projects\GIS_XcelEngineering\Map2-2_Pond2Area.mxd

Date: 8/28/2020

Path: C:\Users\Anna Giordano\Desktop\Desktop Projects\GIS_XcelEngineering\Map2-3_Pond3Area.mxd

Date: 9/2/2020



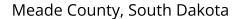
Appendix C - Information for Planning and Consultation (IPaC) Species List

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location





Local office

South Dakota Ecological Services Field Office

(605) 224-8693

(605) 224-1416

420 South Garfield Avenue, Suite 400

http://www.fws.gov/southdakotafieldoffice/



Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of

Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME STATUS

Black-footed Ferret Mustela nigripes

EXPN

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/6953

Northern Long-eared Bat Myotis septentrionalis

Threatened

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/9045

Birds

NAME

Red Knot Calidris canutus rufa

Threatened

Wherever found

There is **proposed** critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/1864

Whooping Crane Grus americana

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/758

Insects

NAME

Monarch Butterfly Danaus plexippus

Candidate

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/9743

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds
 https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS

INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Bald Eagle Haliaeetus leucocephalus

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1626

Black Tern Chlidonias niger

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3093

Black-billed Cuckoo Coccyzus erythropthalmus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399

Bobolink Dolichonyx oryzivorus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Chestnut-collared Longspur Calcarius ornatus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Ferruginous Hawk Buteo regalis

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/6038

Breeds Dec 1 to Aug 31

Breeds May 15 to Aug 20

Breeds May 15 to Oct 10

Breeds May 20 to Jul 31

Breeds May 1 to Aug 10

Breeds Mar 15 to Aug 15

Franklin's Gull Leucophaeus pipixcan

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 1 to Jul 31

Lark Bunting Calamospiza melanocorys

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Breeds May 10 to Aug 15

Lesser Yellowlegs Tringa flavipes

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

https://ecos.fws.gov/ecp/species/9679

Lewis's Woodpecker Melanerpes lewis

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9408

Breeds Apr 20 to Sep 30

Marbled Godwit Limosa fedoa

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9481

Breeds May 1 to Jul 31

Pinyon Jay Gymnorhinus cyanocephalus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9420

Breeds Feb 15 to Jul 15

Red-headed Woodpecker Melanerpes erythrocephalus
This is a Bird of Conservation Concern (BCC) throughout its

range in the continental USA and Alaska.

Breeds May 10 to Sep 10

Sprague's Pipit Anthus spragueii

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8964

Breeds May 10 to Aug 31

Willet Tringa semipalmata

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Apr 20 to Aug 5

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (-)

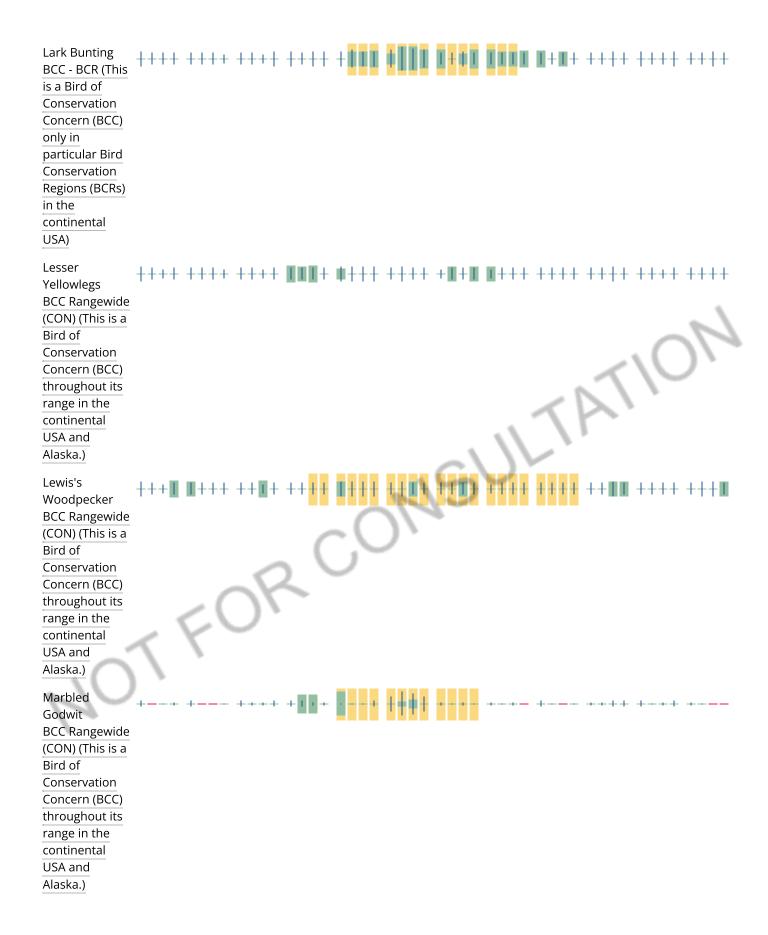
A week is marked as having no data if there were no survey events for that week.

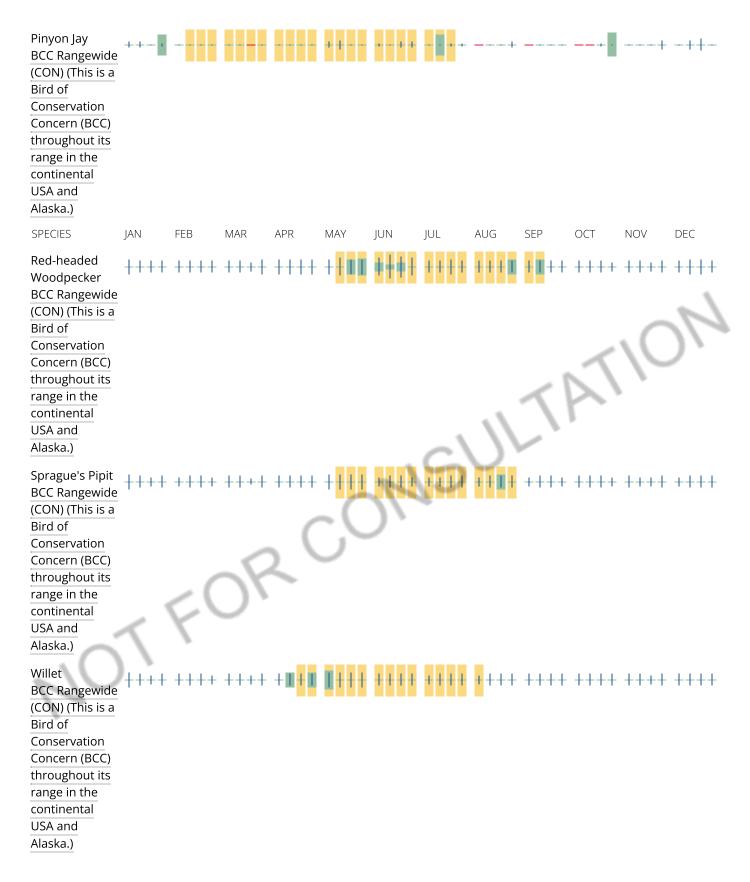
Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.









Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

<u>Nationwide Conservation Measures</u> describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure.

To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. <u>Additional measures</u> or <u>permits</u> may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey, banding, and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in

offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Coastal Barrier Resources System

Projects within the John H. Chafee Coastal Barrier Resources System (CBRS) may be subject to the restrictions on federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local Ecological Services Field Office or visit the CBRA Consultations website. The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

THERE ARE NO KNOWN COASTAL BARRIERS AT THIS LOCATION.

Data limitations

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the <u>official CBRS maps</u>. The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation

Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact CBRA@fws.gov.

Facilities

Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the <u>NWI map</u> to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Appendix D - Meade and Pennington Counties State Listed Species

State and Federally Listed Threatened, Endangered and Candidate Species Documented in South Dakota by County. Updated on 07/19/2016

The following list contains <u>documented</u> occurrences of both state and federally listed species by county in South Dakota. Records were compiled from the South Dakota Natural Heritage Database and expert knowledge of species occurrences. <u>Please note that the absence of a species from a county list does not preclude its presence and that a listing of a historical record does not necessarily mean the species still occurs in that county.</u>

Documentations of bird species consist of known breeding records with the exception of the whooping crane (*Grus americana*) for which all observations are included. However, please note that while the year-round distribution of the American dipper (*Cinclus mexicanus*) does not change, all other listed bird species may be found throughout the state during migration.

If more specific information is needed for a particular project site, please visit the following website to request a search of the Natural Heritage Database: http://gfp.sd.gov/wildlife/threatened-endangered/default.aspx

Species statuses include: FE = Federally Endangered, FT = Federally Threatened, PE = Proposed Endangered (Federal), PT = Proposed Threatened (Federal) C = Federal Candidate, SE = State Endangered, ST = State Threatened.

County	Common Name	Scientific Name	Status
Aurora	Topeka Shiner	Notropis topeka	FE
	Whooping Crane	Grus americana	FE, SE
Beadle	Topeka Shiner	Notropis topeka	FE
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
Bennett	Northern Pearl Dace	Margariscus nachtriebi	ST
	American Burying Beetle	Nicrophorus americanus	FE
	Northern Redbelly Dace	Chrosomus eos	ST
	Whooping Crane	Grus americana	FE, SE
	Swift Fox	Vulpes velox	ST
Bon Homme	Blacknose Shiner	Notropis heterolepis	SE
	Northern Redbelly Dace	Chrosomus eos	ST
	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Sturgeon Chub	Macrhybopsis gelida	ST
	Sicklefin Chub	Macrhybopsis meeki	ST
	Topeka Shiner	Notropis topeka	FE
	False Map Turtle	Graptemys pseudogeographica	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE

	Northern Long-eared Bat	Myotis septentrionalis	FT
	Northern River Otter	Lontra canadensis	ST
Brookings	American Burying Beetle	Nicrophorus americanus	FE
_	Poweshiek Skipperling	Oarisma poweshiek	FE
	Dakota Skipper	Hesperia dacotae	FT
	Northern Redbelly Dace	Chrosomus eos	ST
	Topeka Shiner	Notropis topeka	FE
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
	Western Prairie Fringed Orchid	Platanthera praeclara	FT
Brown	Dakota Skipper	Hesperia dacotae	FT
	Topeka Shiner	Notropis topeka	FE
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
Brule	Northern Redbelly Dace	Chrosomus eos	ST
	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Sturgeon Chub	Macrhybopsis gelida	ST
	Whooping Crane	Grus americana	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	FT
	Northern River Otter	Lontra canadensis	ST
Buffalo	Northern Redbelly Dace	Chrosomus eos	ST
	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	False Map Turtle	Graptemys pseudogeographica	ST
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
Butte	Finescale Dace	Chrosomus neogaeus	SE
	Longnose Sucker	Catostomus catostomus	ST
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
	Swift Fox	Vulpes velox	ST
Campbell	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
•	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	False Map Turtle	Graptemys pseudogeographica	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
Charles Mix	Banded Killifish	Fundulus diaphanus	SE
	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Sicklefin Chub	Macrhybopsis meeki	ST

	Sturgeon Chub	Macrhybopsis gelida	ST
	False Map Turtle	Graptemys pseudogeographica	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	FT
Clark	Northern River Otter	Lontra canadensis	ST
Clay	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Sicklefin Chub	Macrhybopsis meeki	ST
	Sturgeon Chub	Macrhybopsis gelida	ST
	Topeka Shiner	Notropis topeka	FE
	Eastern Hognose Snake	Heterodon platirhinos	ST
	False Map Turtle	Graptemys pseudogeographica	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Northern Long-eared Bat	Myotis septentrionalis	FT
	Northern River Otter	Lontra canadensis	ST
Codington	Dakota Skipper	Hesperia dacotae	FT
	Poweshiek Skipperling	Oarisma poweshiek	FE
	Topeka Shiner	Notropis topeka	FE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
Corson	Northern Redbelly Dace	Chrosomus eos	ST
	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Sicklefin Chub	Macrhybopsis meeki	ST
	Sturgeon Chub	Macrhybopsis gelida	ST
	False Map Turtle	Graptemys pseudogeographica	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
	Black-footed Ferret	Mustela nigripes	FE, SE
Custer	Blacknose Shiner	Notropis heterolepis	SE
	Longnose Sucker	Catostomus catostomus	ST
	Sturgeon Chub	Macrhybopsis gelida	ST
	American Dipper	Cinclus mexicanus	ST
	Osprey	Pandion haliaetus	ST
	Whooping Crane	Grus americana	FE, SE
	Black-footed Ferret	Mustela nigripes	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	FT
	Northern River Otter	Lontra canadensis	ST

	Swift Fox	Vulpes velox	ST
Davison	Topeka Shiner	Notropis topeka	FE
Day	Blacknose Shiner	Notropis heterolepis	SE
	Dakota Skipper	Hesperia dacotae	FT
	Poweshiek Skipperling	Oarisma poweshiek	FE
	Banded Killifish	Fundulus diaphanus	SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
Deuel	Dakota Skipper	Hesperia dacotae	FT
	Poweshiek Skipperling	Oarisma poweshiek	FE
	Banded Killifish	Fundulus diaphanus	SE
	Northern Redbelly Dace	Chrosomus eos	ST
	Topeka Shiner	Notropis topeka	FE
	Northern River Otter	Lontra canadensis	ST
Dewey	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
	Black-footed Ferret	Mustela nigripes	FE, SE
Douglas	Whooping Crane	Grus americana	FE, SE
Edmunds	Whooping Crane	Grus americana	FE, SE
Fall River	Finescale Dace	Chrosomus neogaeus	SE
	Osprey	Pandion haliaetus	ST
	Swift Fox	Vulpes velox	ST
Faulk	Whooping Crane	Grus americana	FE, SE
Grant	Dakota Skipper	Hesperia dacotae	FT
	Poweshiek Skipperling	Oarisma poweshiek	FE
	Blacknose Shiner	Notropis heterolepis	SE
	Northern Redbelly Dace	Chrosomus eos	ST
	Osprey	Pandion haliaetus	ST
	Northern River Otter	Lontra canadensis	ST
Gregory	American Burying Beetle	Nicrophorus americanus	FE
	Northern Pearl Dace	Margariscus nachtriebi	ST
	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Sicklefin Chub	Macrhybopsis meeki	ST
	Sturgeon Chub	Macrhybopsis gelida	ST
	False Map Turtle	Graptemys pseudogeographica	ST
	Piping Plover	Charadrius melodus	FT, ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE

	Whooping Crane	Grus americana	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	FT
Haakon	Sturgeon Chub	Macrhybopsis gelida	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
	Swift Fox	Vulpes velox	ST
Hamlin	Dakota Skipper	Hesperia dacotae	FT
	Poweshiek Skipperling	Oarisma poweshiek	FE
	Topeka Shiner	Notropis topeka	FE
	Northern River Otter	Lontra canadensis	ST
Hand	Whooping Crane	Grus americana	FE, SE
Hanson	Topeka Shiner	Notropis topeka	FE
	Northern River Otter	Lontra canadensis	ST
Harding	Sturgeon Chub	Macrhybopsis gelida	ST
	Peregrine Falcon	Falco peregrinus	SE
	Swift Fox	Vulpes velox	ST
Hughes	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Sicklefin Chub	Macrhybopsis meeki	ST
	False Map Turtle	Graptemys pseudogeographica	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	FT
	Northern River Otter	Lontra canadensis	ST
	Swift Fox	Vulpes velox	ST
Hutchinson	Topeka Shiner	Notropis topeka	FE
	Whooping Crane	Grus americana	FE, SE
Hyde	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Whooping Crane	Grus americana	FE, SE
	Swift Fox	Vulpes velox	ST
Jackson	Northern Redbelly Dace	Chrosomus eos	ST
	Sturgeon Chub	Macrhybopsis gelida	ST
	Whooping Crane	Grus americana	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	FT
	Swift Fox	Vulpes velox	ST
Jerauld	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
Jones	Sturgeon Chub	Macrhybopsis gelida	ST
	Whooping Crane	Grus americana	FE, SE

Kingsbury	Piping Plover	Charadrius melodus	FT, ST
Kiiigobai y	Whooping Crane	Grus americana	FE, SE
Lake	Northern River Otter	Lontra canadensis	ST
Lawrence	Finescale Dace	Chrosomus neogaeus	SE
Lawrence	Longnose Sucker	Catostomus catostomus	ST
	American Dipper	Cinclus mexicanus	ST
	Osprey	Pandion haliaetus	ST
	Northern Long-eared Bat	Myotis septentrionalis	LT
Lincoln	Northern Redbelly Dace	Chrosomus eos	ST
Lincom	Topeka Shiner	Notropis topeka	FE
	Lined Snake	Tropidoclonion lineatum	SE
	Northern River Otter	Lontra canadensis	ST
Luman			
Lyman	Pallid Sturgeon	Scaphirhynchus albus	FE, SE FT
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	
	Sturgeon Chub	Macrhybopsis gelida	ST
	False Map Turtle	Graptemys pseudogeographica	ST
	Whooping Crane	Grus americana	FE, SE
	Black-footed Ferret	Mustela nigripes	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	LT
	Northern River Otter	Lontra canadensis	ST
	Swift Fox	Vulpes velox	ST
Marshall	Dakota Skipper	Hesperia dacotae	FT
	Poweshiek Skipperling	Oarisma poweshiek	FE
	Whooping Crane	Gus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
McCook	Topeka Shiner	Notropis topeka	FE
	Northern River Otter	Lontra canadensis	ST
McPherson	Dakota Skipper	Hesperia dacotae	FT
	Banded Killifish	Fundulus diaphanus	SE
	Whooping Crane	Grus americana	FE, SE
Meade	Banded Killifish	Fundulus diaphanus	SE
	Longnose Sucker	Catostomus catostomus	ST
	Sturgeon Chub	Macrhybopsis gelida	ST
	American Dipper	Cinclus mexicanus	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Whooping Crane	Grus americana	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	LT
	Northern River Otter	Lontra canadensis	ST
	Swift Fox	Vulpes velox	ST
Mellette	Sturgeon Chub	Macrhybopsis gelida	ST
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	Whooping Crane	Grus americana	FE, SE

	Whooping Crane	Grus americana	FE, SE
Minnehaha	Topeka Shiner	Notropis topeka	FE
	Lined Snake	Tropidoclonion lineatum	SE
	Northern River Otter	Lontra canadensis	ST
	Western Prairie Fringed Orchid	Platanthera praeclara	FT
Moody	Dakota Skipper	Hesperia dacotae	FT
	Poweshiek Skipperling	Oarisma poweshiek	FE
	Blacknose Shiner	Notropis heterolepis	SE
	Topeka Shiner	Notropis topeka	FE
	Northern River Otter	Lontra canadensis	ST
Oglala Lakota	Sturgeon Chub	Macrhybopsis gelida	ST
	Swift Fox	Vulpes velox	ST
Pennington	Longnose Sucker	Catostomus catostomus	ST
	Sturgeon Chub	Macrhybopsis gelida	ST
	American Dipper	Cinclus mexicanus	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Osprey	Pandion haliaetus	ST
	Peregrine Falcon	Falco peregrinus	SE
	Whooping Crane	Grus americana	FE, SE
	Black-footed Ferret	Mustela nigripes	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	LT
	Northern River Otter	Lontra canadensis	ST
	Swift Fox	Vulpes velox	ST
Perkins	Whooping Crane	Grus americana	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	LT
	Swift Fox	Vulpes velox	ST
Potter	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
Roberts	Dakota Skipper	Hesperia dacotae	FT
	Poweshiek Skipperling	Oarisma poweshiek	FE
	Blacknose Shiner	Notropis heterolepis	SE
	Osprey	Pandion haliaetus	ST
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
Sandborn	Topeka Shiner	Notropis topeka	FE
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
Spink	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST

	Swift Fox	Vulpes velox	ST
Stanley	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Sicklefin Chub	Macrhybopsis meeki	ST
	False Map Turtle	Graptemys pseudogeographica	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
	Black-footed Ferret	Mustela nigripes	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	LT
	Northern River Otter	Lontra canadensis	ST
	Swift Fox	Vulpes velox	ST
Sully	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
	Swift Fox	Vulpes velox	ST
Todd	American Burying Beetle	Nicrophorus americanus	FE
	Blacknose Shiner	Notropis heterolepis	SE
	Finescale Dace	Chrosomus neogaeus	SE
	Northern Pearl Dace	Margariscus nachtriebi	ST
	Northern Redbelly Dace	Chrosomus eos	ST
	Black-footed Ferret	Mustela nigripes	FE, SE
Tripp	American Burying Beetle	Nicrophorus americanus	FE
• •	Blacknose Shiner	Notropis heterolepis	SE
	Northern Pearl Dace	Margariscus nachtriebi	ST
	Northern Redbelly Dace	Chrosomus eos	ST
	Sturgeon Chub	Macrhybopsis gelida	ST
	Whooping Crane	Grus americana	FE, SE
	Northern River Otter	Lontra canadensis	ST
Turner	Northern Redbelly Dace	Chrosomus eos	ST
	Topeka Shiner	Notropis topeka	FE
Union	American Burying Beetle	Nicrophorus americanus	FE
	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Finescale Dace	Chrosomus neogaeus	SE
	Sturgeon Chub	Macrhybopsis gelida	ST
	Sicklefin Chub	Macrhybopsis meeki	ST
	Eastern Hognose Snake	Heterodon platirhinos	ST
	False Map Turtle	Graptemys pseudogeographica	ST
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	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Northern Long-eared Bat	Myotis septentrionalis	LT
	Northern River Otter	Lontra canadensis	ST
Walworth	Northern Redbelly Dace	Chrosomus eos	ST
	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Sturgeon Chub	Macrhybopsis gelida	ST
	Sicklefin Chub	Macrhybopsis meeki	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Whooping Crane	Grus americana	FE, SE
	Northern Long-eared Bat	Myotis septentrionalis	LT
Yankton	Higgins Eye	Lampsilis higginsii	FE
	Scaleshell	Leptodea leptodon	FE
	Pallid Sturgeon	Scaphirhynchus albus	FE, SE
	Shovelnose Sturgeon	Scaphirhynchus platorynchus	FT
	Sicklefin Chub	Macrhybopsis meeki	ST
	Sturgeon Chub	Macrhybopsis gelida	ST
	Eastern Hognose Snake	Heterodon platirhinos	ST
	False Map Turtle	Graptemys pseudogeographica	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Piping Plover	Charadrius melodus	FT, ST
	Northern Long-eared Bat	Myotis septentrionalis	LT
	Northern River Otter	Lontra canadensis	ST
Ziebach	Sturgeon Chub	Macrhybopsis gelida	ST
	Interior Least Tern	Sternula antillarum athalassos	FE, SE
	Black-footed Ferret	Mustela nigripes	FE, SE
	Swift Fox	Vulpes velox	ST
	Whooping Crane	Grus americana	FE, SE