

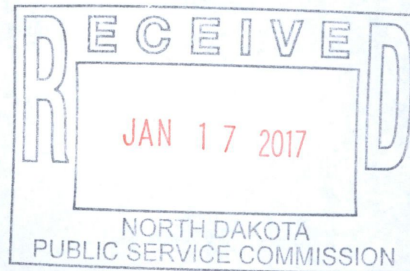
BRIDGER PIPELINE LLC

Environmental Division
Bob Dundas, P.G., Environmental Coordinator
Kate Forsting, Assistant Environmental Coordinator

Reply to:
P.O. Drawer 2360 (82602)
455 North Poplar
Casper, WY 82601
Phone: (307) 237-9301
Fax: (307) 266-0357

January 12, 2017

Patrick Fahn
Public Service Commission
600 E. Boulevard, Dept. 408
Bismarck, ND 58505-0480



RE: Case No. PU-09-750 – Four Bears Pipeline & Case No. PU-07-596 Alex Loop Tree/Shrub Mitigation Update

Dear Mr. Fahn:

As an update to the subject projects, Bridger Pipeline LLC has received written confirmation (see attached) from the North Dakota Forest Service that the Four Bears Pipeline and Alex Loop Tree and Mitigation planting projects to satisfy the requirements of the PSC tree and shrub mitigation related permit conditions have both been successfully completed. I have attached for your review the final report from the NDFS documenting that the results of their inspections.

Bridger Pipeline LLC is excited about completing this partnership with the NDFS and the successful completion of the tree and shrub planting projects. Bridger Pipeline LLC believes it has met or exceeded all of the requirements of the PSC tree and mitigation plan and respectfully requests closure of these reclamation matters.

Please call me at (307) 266-0411 or email at bob.dundas@truecos.com should you require any additional information.

Sincerely,

A handwritten signature in blue ink that reads "Bob Dundas".

Bob Dundas, P.G.
Environmental Coordinator

Attachments

File: BPLLC Four Bears Pipeline & Alex Loop

142 **PU-09-750** Filed: 1/17/2017 Pages: 12
Tree and Shrub Mitigation Update

Belle Fourche Pipeline Company
Bob Dundas, P.G.

98 **PU-07-596** Filed: 1/17/2017 Pages: 12
Tree and Shrub Mitigation Update

Belle Fourche Pipeline Company
Bob Dundas, P.G.



NORTH DAKOTA FOREST SERVICE

"To care for, protect and improve forest and natural resources to enhance the quality of life for present and future generations."

December 12, 2016

Bob Dundas
Bridger Pipeline, LLC
Environmental Coordinator
P. O. Drawer 2360
Casper, WY 82602

Dear Mr. Dundas,

Attached is the Project Report for the North Dakota Mitigation Inspection Partnership Program between the North Dakota Forest Service and Bridger Pipeline, LLC. The document serves as the inspection report for the approved program to replace 97,278 trees and shrubs lost as a result of the Four Bears Pipeline and the 100 trees lost due to the Alexander 8-inch Crude Oil Pipeline, and to comply with the North Dakota Public Service Commission mitigation requirements.

The program was initiated by the North Dakota Forest Service on February 29, 2016, following the receipt of the inspection payment. The program includes the 2016 monitoring of the 246 tree and shrub planting sites established in 2012, 2013 and 2014 within the Four Bears project and one tree and shrub planting site within the Alexander Loop project.

During the 2016 monitoring of the Four Bears Pipeline, 90,259 trees and shrubs are observed to be alive after a minimum of three growing seasons. This number exceeds the 75% (72,959) required. During the 2016 monitoring of the Alexander 8-inch Crude Oil Pipeline, 124 trees and shrubs are observed to be alive after three growing seasons. This is a survival rate of over 99%. The mitigation requirements for both of these projects are satisfied.

Thank you for the opportunity to assist Bridger Pipeline, LLC, with its mitigation tree inspection obligations set forth by the North Dakota Public Service Commission. Please do not hesitate to contact our office if you need further assistance or information.

Sincerely,

A handwritten signature in blue ink that reads "Larry A. Kotchman".

Larry A. Kotchman
State Forester

Enclosure

Report of 2016 Inspection Results
For the
Four Bears Pipeline and the Alexander 8-inch Pipeline
Tree Mitigation Projects

Prepared for:
Bob Dundas
Bridger Pipeline, LLC
PO Drawer 2360
Casper, WY 82602



Larry Kotchman, State Forester
NDSU- North Dakota Forest Service
307 First Street East
Bottineau, ND 58318
December 12, 2016

Mitigation criteria established by the Public Service Commission (PSC) ensures that trees and shrubs lost or destroyed during construction projects are replaced at a 2:1 ratio. As a result of the Four Bears Pipeline (a Bridger Pipeline, LLC project,) up to a maximum number of 97,278 trees and shrubs must have been planted to satisfy the mitigation requirements for this project. As a result of the Alexander 8-inch Crude Oil Pipeline (a Belle Fourche Pipeline Company project,) 100 trees and shrubs must have been planted to satisfy the mitigation requirements. For both projects, an additional number of trees and shrubs were planted to offset unanticipated mortality. Plantings were to be inspected to determine that 75% of the trees and shrubs were living after three growing seasons. Landowners impacted by the projects were offered a choice of having replacement trees and shrubs planted on their property or planted elsewhere at alternative locations. The remaining number of trees and shrubs were planted at alternative locations through cooperative projects with tree planting entities and private landowners.

The NDFS administered the mitigation tree planting programs in cooperation with local soil conservation districts and private tree planting vendors. Eligible conservation tree planting practices included living snow fences, windbreaks, wildlife plantings, riparian restoration and buffers, and vegetative fuel breaks.

As of December, 2014, the tree and shrub mitigation planting requirements resulting from both the Four Bears Pipeline and the Alexander 8-inch Crude Oil Pipeline were satisfied.

Four Bears Pipeline		
Year Planted	Number of Planting Sites	Number of Trees and Shrubs Planted
2012	89	28,380
2013	62	37,755
2014	95	40,521
TOTAL	246	106,656
The total number of trees and shrubs planted exceeds the 97,278 stems indicated in the tree planting partnership. An additional 9,378 trees and shrubs were planted to compensate for higher than anticipated mortality.		
75% required to be alive after three growing seasons		72,959

Alexander 8-inch Crude Oil Pipeline		
Year Planted	Number of Planting Sites	Number of Trees and Shrubs Planted
2014	1	125
TOTAL	1	125
The total number of trees and shrubs planted exceeds the 100 stems indicated in the tree planting partnership. An additional 25 trees and shrubs were planted to compensate for higher than anticipated mortality.		
75% required to be alive after three growing seasons		75

In 2016, NDFS again partnered with local soil conservation districts to monitor the tree and shrub planting projects. All plantings have been installed for at least three growing seasons. Observations indicate that both projects exceed the required numbers of trees and shrubs still alive.

	Number of Planting Sites Inspected	Number of Trees and Shrubs Planted	Number of Trees and Shrubs Alive	Number Required to be alive
Four Bears Pipeline	239	104,582	90,259	72,959
Alexander 8-inch Crude Oil Pipeline	1	125	124	75
Not Inspected	7	2,074		

As of December, 2016, the tree and shrub mitigation survival requirements resulting from both the Four Bears Pipeline and the Alexander 8-inch Crude Oil Pipeline are satisfied. Detailed inspection results can be found in Appendix A, attached.

Appendix A

Planting Year	County	Q	Four Bears Pipeline			Mitigation Trees/Shrubs Planted	Number Alive	Inspection Date
			S	T	R			
2012	Adams	NE	20	130	91	562	338	7/7/2016
2012	Billings	NE	3	141	100	263	241	6/22/2016
2012	Burke	SE	21	160	94	181	-	7/25/2016
2012	Burleigh	SW	33	139	75	276	182	7/12/2016
2012	Burleigh	NE	7	141	77	295	251	7/28/2016
2012	Burleigh	SW	28	141	79	275	257	7/25/2016
2012	Burleigh	NW & SW	18	141	77	347	273	7/25/2016
2012	Burleigh	SW	12	138	79	291	282	6/28/2016
2012	Burleigh	SW	29	139	76	323	315	7/25/2016
2012	Burleigh	SW	32	137	75	385	370	7/21/2016
2012	Burleigh	NW & SE	18	139	79	634	393	6/14/2016
2012	Burleigh	NWNW	13	137	78	443	418	7/13/2016
2012	Burleigh	NE	17	139	75	514	489	7/20/2016
2012	Burleigh	NW	4	140	79	665	498	7/27/2016
2012	Burleigh	SE	26	144	78	549	528	7/18/2016
2012	Burleigh	SE	1	140	80	735	553	7/26/2016
2012	Burleigh	NE	29	137	78	657	592	7/26/2016
2012	Burleigh	NE	27	144	77	973	676	7/21/2016
2012	Burleigh	NE & SE	24	137	79	700	678	7/20/2016
2012	Burleigh	NW	32	140	79	741	726	7/11/2016
2012	Burleigh	SE	22	142	75	1,007	826	7/12/2016
2012	Burleigh	NE	13	137	78	933	893	7/13/2016
2012	Burleigh	SW	17	141	79	1,480	1,288	7/27/2016
2012	Burleigh	SW	20	140	80	1,537	1,398	7/25/2016
2012	Divide	SE	2	161	95	256	256	4/12/2016
2012	Divide	NW	25	162	97	603	600	4/13/2016
2012	Divide	S	5	163	96	664	664	4/13/2016
2012	Divide	NE	23	163	99	737	737	4/14/2016
2012	Divide	SE	34	164	95	1,466	1,460	4/12/2016
2012	Divide	NW	3	163	95	1,521	1,519	4/12/2016
2012	Grant	NW&NE	24	135	90	437	406	7/28/2016
2012	McKenzie	NW & SE	3 & 34	151 & 152	58	1,516	1,444	7/14/2016
2012	McKenzie	SE/NE	6 & 31	150 & 151	98	3,194	2,983	7/19/2019

2012	McLean	NW	10	145	79	48	13	7/29/2016
2012	McLean	SE	10	144	82	87	57	6/24/2016
2012	McLean	NE	4	143	81	149	132	7/29/2016
2012	McLean	SE & SW	11	147	80	457	238	6/14/2016
2012	McLean	SE	24	143	80	265	253	7/27/2016
2012	McLean	NW	34	143	80	265	260	7/26/2016
2012	McLean	SE	3	147	79	654	303	6/14/2016
2012	McLean	SW	4	143	80	382	382	7/27/2016
2012	McLean	SW	19	144	81	403	400	7/27/2016
2012	McLean	NE	21	148	81	634	504	7/28/2016
2012	McLean	SE	17	146	84	1,575	1,575	7/13/2016
2012	Mercer	SW	26	145	86	152	116	6/23/2016
2012	Mercer	SE	3	145	85	171	124	6/23/2016
2012	Mercer	NW	7	144	86	284	266	6/22/2016
2012	Mercer	NE	26	146	86	390	328	6/23/2016
2012	Morton	SE	4	139	81	200	196	7/25/2016
2012	Morton	SE	8	140	86	330	327	7/28/2016
2012	Morton	NW	13	140	18	420	370	7/25/2016
2012	Morton	NE	19	140	81	397	392	7/25/2016
2012	Morton	NE	22	139	79	892	584	7/26/2016
2012	Morton	SW	3	139	83	892	868	7/13/2016
2012	Oliver	SW/SE	14	142	84	524	510	7/18/2016
2012	Sioux	NW	3	130	80	355	156	7/29/2016
2012	Stark	SW	2	140	98	83	80	6/22/2016
2012	Ward	SE	7	160	88	196	196	7/25/2016
2012	Williams	NW	15	156	101	213	213	5/16/2016
2012	Williams	SW	8	159	102	894	870	5/16/2016
2013	Barnes	NW	20	138	61	224	138	5/24/2016
2013	Billings	SE	19	139	100	234	220	6/22/2016
2013	Bottineau	NE	14	162	75	136	136	6/23/2016
2013	Bottineau	SE	2	161	76	226	200	6/23/2016
2013	Bottineau	SW	31	162	76	226	226	6/20/2016
2013	Bottineau	NE	13	162	76	378	363	6/23/2016
2013	Burke	NW	8	162	91	377	127	7/25/2016
2013	Burke	SE	32	159	93	334	334	7/25/2016
2013	Burleigh	SE	10	143	80	409	152	7/21/2016
2013	Burleigh	NW	36	140	80	383	325	7/27/2016
2013	Burleigh	NW	4	140	79	413	339	7/27/2016
2013	Burleigh	NE	13	137	78	375	354	7/13/2016
2013	Burleigh	NE	29	137	78	586	556	7/26/2016
2013	Burleigh	NE	23	138	79	606	592	7/11/2016
2013	Burleigh	SW	35	141	80	853	812	7/21/2016
2013	Cavalier	SENE	4	162	58	243	172	6/28/2016
2013	Dunn	NE	30	145	97	113	83	7/26/2016
2013	Dunn	SE	4	142	95	463	449	7/27/2016

2013	Foster	NW	17	146	64	195	192	7/21/2016
2013	Foster	NW	3	145	66	551	529	7/21/2016
2013	Golden Valley	NE	15	140	105	180	170	6/23/2016
2013	Grand Forks	NE	21	151	51	81	39	7/18/2016
2013	Grand Forks	NW	10	150	51	104	69	7/18/2016
2013	Grand Forks	NE	19	151	51	181	104	7/18/2016
2013	Grand Forks	NW	17	154	52	214	131	7/18/2016
2013	Grand Forks	SW	12	152	54	146	138	7/18/2016
2013	Grand Forks	NE	21	151	51	272	168	7/18/2016
2013	Grand Forks	SW	35	150	50	341	317	7/18/2016
2013	Grant	SW	23	134	89	3	3	7/28/2016
2013	LaMoure	NW	6	134	66	230	188	6/13/2016
2013	LaMoure	NE	17	133	64	314	298	6/16/2016
2013	LaMoure	NE	11	133	59	379	379	6/16/2016
2013	LaMoure	SW	3	134	64	565	533	6/16/2016
2013	McLean	SW	21	146	82	230	13	6/16/2016
2013	McLean	SW	13	144	82	80	76	6/26/2016
2013	McLean	SW	4	150	78	109	105	5/24/2016
2013	McLean	NW	34	143	80	145	132	7/27/2016
2013	McLean	NW	25	146	84	104	134	6/24/2016
2013	McLean	NW	9	148	81	207	206	6/14/2016
2013	McLean	NE/NW	12	147	81	324	250	6/21/2016
2013	McLean	SW	11	143	80	396	388	7/26/2016
2013	McLean	SE	17	146	84	985	867	7/13/2016
2013	Mercer	SW	28	145	87	93	91	6/22/2016
2013	Mercer	SE	24	141	88	117	117	6/2/2016
2013	Mercer	SE	25	144	86	172	132	6/24/2016
2013	Mercer	NE	17	144	86	221	219	6/23/2016
2013	Mercer	SE	14	144	89	251	249	6/22/2016
2013	Mercer	NE	29	145	85	343	302	6/22/2016
2013	Mercer	SW	17	145	84	387	367	6/24/2016
2013	Mercer	SE	32	144	87	446	399	6/24/2016
2013	Morton	SW	12	138	89	1,384	1,192	7/28/2016
2013	Oliver	SW	32	143	81	2,394	1,497	5/25/2016
2013	Pembina	SW	28	162	56	95	42	7/28/2016
2013	Pembina	NW	32	162	56	122	88	7/26/2016
2013	Pembina	NW	4	162	56	118	97	7/27/2016
2013	Pembina	SW	36	162	54	132	109	7/28/2016

2013	Pembina		10 & 14	162	53	144	111	7/29/2016
2013	Pembina	SW	9	160	53	137	136	7/26/2016
2013	Pembina	SE/SE	6&1	163	53&52	183	178	7/27/2016
2013	Pembina		9	163	56	385	283	7/27/2016
2013	Ramsey	NE	3	154	65	301	285	6/28/2016
2013	Ransom	NW	16	135	57	788	578	6/6/2016
2013	Stark	SW	32	140	95	228	197	6/21/2016
2013	Stark	SW	34	140	94	300	272	6/21/2016
2013	Stark	SE	11	141	96	301	276	7/28/2016
2013	Stark	NW	15	138	97	306	298	6/28/2016
2013	Stark	NE	31	139	94	391	384	6/24/2016
2013	Stark	NE	14	140	95	464	458	6/21/2016
2013	Stark	SE	25	140	96	484	484	6/24/2016
2013	Stark	SE	25	140	96	725	724	6/24/2016
2013	Steele	NE	29	148	54	191	157	6/10/2016
2013	Steele	SW	5	148	56	297	287	6/10/2016
2013	Stutsman	NE	5	140	64	92	80	5/24/2016
2013	Stutsman	NW	4	140	65	242	203	5/24/2016
2013	Towner	E	16	158	66	135	40	7/16/2016
2013	Towner	SE	5	161	66	110	50	5/24/2016
2013	Towner	NE	18	163	65	109	71	6/14/2016
2013	Walsh	NW	21	157	55	145	71	6/2/2016
2013	Walsh	SE	19	157	56	117	116	5/17/2016
2013	Walsh	NW	35	156	57	170	170	6/2/2016
2013	Ward	SW	2	153	83	668	487	7/26/2016
2013	Wells	NW	12	148	70	46	34	7/27/2016
2013	Wells	NW	7	142	62	223	127	7/17/2016
2013	Wells	SW	8	149	72	222	200	7/28/2016
2013	Wells	NW	8	149	68	223	204	5/24/2016
2013	Wells	NW	31	148	70	212	212	7/27/2016
2013	Wells	NW	13	147	69	303	237	7/27/2016
2013	Wells	SW	26	146	72	328	249	7/28/2016
2014	Bottineau	NE	20	161	75	101	98	6/24/2016
2014	Bottineau	SE	11	161	74	115	101	6/24/2016
2014	Bottineau	NE	9	162	81	115	114	6/15/2016
2014	Bottineau	SE	5	160	74	159	149	6/24/2016
2014	Bottineau	NW	9	162	75	159	150	6/23/2016
2014	Bottineau	SW	31	162	76	174	164	6/23/2016
2014	Bottineau	SE	13	160	79	293	249	6/15/2016
2014	Bottineau	NW	7	162	75	287	275	6/23/2016
2014	Bottineau	NW	9	160	76	324	324	6/20/2016
2014	Bottineau	NE & SW	31	163	74	775	755	6/23/2016
2014	Burleigh	SW	28	138	79	108	95	7/26/2016
2014	Burleigh	SE	14	139	80	225	175	7/26/2016

2014	Burleigh	SE	14	139	80	225	191	7/26/2016
2014	Burleigh	SW	8	140	79	280	253	7/27/2016
2014	Burleigh	SW	36	143	79	400	388	7/20/2016
2014	Burleigh	NE	9	140	79	600	520	7/27/2016
2014	Burleigh	E2E2	24	137	79	560	547	7/20/2016
2014	Burleigh	NE	23	138	79	560	549	7/11/2016
2014	Burleigh	SE	18	140	80	595	572	7/13/2016
2014	Burleigh	SW	23	141	75	670	663	7/20/2016
2014	Burleigh	NE	16	140	80	705	705	6/28/2016
2014	Burleigh	NW	21	137	77	762	737	7/11/2016
2014	Burleigh	SE	32	140	78	800	795	7/26/2016
2014	Burleigh	SW	4	137	78	880	836	7/25/2016
2014	Burleigh	NW	15	142	81	920	874	7/13/2016
2014	Dunn	SE	30	146	95	71	40	7/27/2016
2014	Dunn	NE	30	145	94	50	48	7/27/2016
2014	Dunn	NE	26	146	96	224	119	7/27/2016
2014	Dunn	NE	3	143	97	175	162	7/28/2016
2014	Dunn	NW	30	143	95	253	216	7/8/2016
2014	Dunn	NW	13	145	94	608	573	7/27/2016
2014	McKenzie	SW	18	152	95	30	29	7/20/2016
2014	McKenzie	N2/S2	29/20	149	95	31	30	7/27/2016
2014	McKenzie	SW	1	149	96	239	185	7/20/2016
2014	McLean	NW	6	146	82	172	45	7/27/2016
2014	McLean	NE	36	147	81	173	151	6/14/2016
2014	McLean	NW	34	143	80	190	190	6/2/2016
2014	McLean	Lot 7	34	143	80	221	221	7/27/2016
2014	McLean	NW	32	148	80	258	257	6/14/2006
2014	McLean	NE	31	147	79	313	313	6/14/2016
2014	McLean	NE	10	144	81	2,645	904	8/4/2016
2014	Mercer	SW	22	144	90	140	70	6/22/2016
2014	Mercer	NE	26	144	88	141	112	6/24/2016
2014	Mercer	SW	2	145	86	143	134	6/23/2016
2014	Mercer	NE	36	147	86	297	241	6/24/2016
2014	Mercer	SW	28	145	87	364	298	6/22/2016
2014	Mercer	NE	29	145	85	330	301	6/22/2016
2014	Mercer	NW	27	147	85	386	378	6/24/2016
2014	Mercer	NW	14	144	87	392	379	6/23/2016
2014	Mercer	SE	15	145	86	417	398	6/23/2016
2014	Morton	NW	28	136	83	383	89	8/1/2016
2014	Morton	NW	24	139	85	196	196	7/28/2016
2014	Morton	NW	14	138	84	392	210	7/28/2016
2014	Morton	SW	29	137	81	308	227	7/25/2016
2014	Morton	NW	1	138	86	495	384	7/28/2016
2014	Morton	SW	33	137	81	400	400	8/1/2016
2014	Morton	NW	13	140	82	403	403	7/25/2016
2014	Morton	SW	32	136	81	569	446	8/1/2016

2014	Morton	W2W2	4	135	81	766	560	8/1/2016
2014	Renville	SE	3	161	84	530	530	6/27/2016
2014	Stark	NW	15	138	97	150	99	6/28/2016
2014	Stark	SW	2	140	98	176	142	6/22/2016
2014	Stark	SW	16	140	96	161	157	6/28/2016
2014	Stark	NE	6	138	96	168	168	6/28/2016
2014	Stark	SE	14	140	97	181	181	6/23/2016
2014	Stark	SW	26	140	98	223	223	6/23/2016
2014	Stark	SE	18	140	96	242	240	6/22/2016
2014	Stark	SE	12	140	96	274	272	6/24/2016
2014	Stark	NW	33	139	94	299	298	6/24/2016
2014	Stark	SW	22	139	95	300	300	6/24/2016
2014	Stark	NE	31	139	94	303	301	6/24/2016
2014	Stark	NE	15	140	94	345	340	6/21/2016
2014	Stark	NE	36	141	93	419	387	6/21/2016
2014	Stark	SW	16	138	92	516	459	6/21/2016
2014	Stark	SE	12	140	96	499	499	6/23/2016
2014	Stark	NW	6	140	93	660	511	6/23/2016
2014	Stark	SE	21	140	99	584	515	6/22/2016
2014	Stark	SE	25	140	96	587	584	6/24/2016
2014	Stark	SW	23	139	97	802	612	6/28/2016
2014	Stark	NE	2	137	100	765	684	6/22/2016
2014	Stark	SW	17	138	95	745	693	6/23/2016
2014	Stark	NE	33	139	96	772	768	6/23/2016
2014	Stark	NW	28	139	94	1,001	976	6/24/2016
2014	Stark	NW	24	137	91	1,111	1,103	6/21/2016
2014	Stark	SW	6	140	99	1,335	1,302	6/22/2016
2014	Stark	SW	30	141	93	2,301	1,746	6/21/2016
2014	Towner	SE	26	162	67	245	150	6/16/2016
2014	Towner	SE	2	158	68	233	214	5/24/2016
2014	Towner	SE	33	162	68	283	270	5/24/2016
2014	Towner	SE	11	158	67	400	360	6/16/2016
2014	Towner	S	13	162	67	373	373	6/16/2016
						104,582	90,259	
2012	Adams	NE	8	130	91	233		Not Inspected
2012	Burleigh		22, 27 & 28, 26	137	76 & 77	1,050		Not Inspected
2013	Stark	SW	32	140	95	220		Not Inspected
2014	Dunn	SW	29	142	97	2		Not Inspected
2014	Dunn	NE	4	145	95	26		Not Inspected
2014	Dunn	NE	5	145	96	73		Not Inspected
2014	Towner	W	12	159	66	470		Not Inspected

Alexander 8-inch Crude Oil Pipeline

Planting Year	County	Q	S	T	R	Mitigation Trees/Shrubs Planted	Number Alive	Inspection Date
2014	Billings	SW	36	141	99	125	124	6/22/16