

Marathon Petroleum Logistics



1611 E. Century Ave., Ste. 300
Bismarck, ND 58503

January 28, 2022

RECEIVED

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NORTH DAKOTA
PUBLIC SERVICE COMMISSION

Patrick Fahn
Director, Public Utilities Division
North Dakota Public Service Commission
600 East Boulevard, Dept. 408
Bismarck, ND 58505-0480

RE: BakkenLink Pipeline LLC Tree and Shrub Plan (Case No. PU-10-218)

Mr Fahn and Commissioners:

The BakkenLink Pipeline Tree and Shrub Restoration Plan, (Case No. PU-10-218, Revised April 15, 2016) Section 4.0 Replacement Monitoring requires BakkenLink Pipeline LLC to submit a report identifying the condition of replacement plantings prior to October 1 of each year. A report to satisfy this requirement was submitted to the Commission on September 13, 2019. It was reformatted and submitted on October 16, 2019.

A communication from Mr. Fahn to myself in March of 2020, indicated that since a large percentage of the trees and shrubs in the 2019 report were planted in 2018, Marathon would report to the Commission an updated count for trees and shrubs surviving in 2021. Of note, all plantings completed in 2018 were part of our partnership program with the North Dakota Forest Service.

This report shows the number of plantings and the 3-year mortality rate for Forest Service plantings occurring in 2017 and 2018. As of December 2021, 26,600 stems were still alive from the total of 35,933 planted. These numbers added to the 3-year mortality rates of the remaining plantings (23,401) as listed in the 2019 report equal 75%.

The replacement monitoring requirement of the BakkenLink Pipeline and Shrub Restoration Plan has been satisfied.

If there are questions, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Darren Snow'.

Darren Snow
Ops Director – G&P Operations West-Northwest Area
Telephone: 701-250-1960
Email: DJSnow@marathonpetroleum.com

268 PU-10-218 Filed: 2/1/2022 Pages: 10
Response to 13 March 2020 letter regarding tree and shrub mitigation

Marathon Petroleum Logistics
Darren Snow, Oper Director

**Tesoro (Andeavor) (Marathon) - Bakken Link
Mitigation Tree Planting Partnership
December 2021 Project Update**

**Prepared for:
LaDonna Emineth
Marathon Petroleum Corporation
1611 E. Century Ave., Suite 300
Bismarck, ND 58503**



**Tom Claeys, State Forester
NDSU - NORTH DAKOTA FOREST SERVICE
916 East Interstate Avenue
Bismarck, ND 58503
December 3, 2021**

Overview

Mitigation criteria established by the Public Service Commission (PSC) ensures that trees lost or destroyed during construction projects are replaced at a 2:1 ratio. A minimum of 75% of these replacement trees and shrubs must be living at the end of three growing seasons in order to meet the mitigation requirements. The PSC is responsible for authorizing mitigation tree planting partnerships. As a result of the BakkenLink Pipeline LLC Project Case No. PU-10-218, 23,375 trees must be planted to satisfy the mitigation requirements for this project. The PSC has determined in this instance that one tree will equal four shrubs for mitigation purposes. An additional 2,338 trees will be planted to offset unanticipated mortality for an overall project total of 25,713 trees. Landowners impacted by the project were offered the opportunity of having replacement trees planted on their property. The remaining trees will be planted at alternative locations through cooperative projects with tree planting entities and private landowners statewide.

The NDFS administers a mitigation tree planting program in cooperation with local soil conservation districts. Interested landowners desiring to establish appropriate conservation tree plantings apply with the NDFS for assistance. Eligible landowners are encouraged to work directly with local soil conservation district partners to secure professional tree planting design assistance and tree planting services. Practice specifications are influenced by species suitability, soil characteristics, topography, land-use and the landowner's objectives. Eligible conservation tree planting practices included, but were not limited to, living snow fences, windbreaks, wildlife plantings, riparian restoration and buffers, and vegetative fuel breaks.

All scheduled plantings have been completed. As described in the project agreement, survival counts are conducted April-November for three years following planting. Annual survival reports are due by December 31 of each monitoring year. Report values represent the most complete and accurate information at the time of the report.

2017 Plantings

A total of 7,512 trees and 10,752 shrubs were planted during the 2017 planting season. These 18,264 trees and shrubs were the equivalent of 10,200 stems towards fulfillment of the 23,375 stems required under the agreement. However, stem mortality due to drought conditions was high. Plantings in 2017 were centralized in Dunn, Stark and Billings Counties due to mitigation priorities. Unfortunately, this region was the center of the severe drought conditions during the 2017 growing season. Tree survival was significantly lower than average due to these conditions. Overall survival for plantings in these counties was approximately 50%. Additional trees were planted in spring 2018 in anticipation of this poor survival. Many trees were also replanted (at landowner expense) in 2018 and 2019 to replace trees and shrubs that died in 2017.

2018 Plantings

Plantings in 2018 were expanded to include Dunn, Stark, Billings, Burleigh, Morton, Cass, and Grand Forks. The equivalent of 25,733 total stems were planted in these counties, in 2018 alone. Survival and growth was reported as being at or above average due to well-timed spring rains and easing of drought conditions.

Overall planting and survival

A total of 28,231 trees and 30,807 shrubs were been planted towards the number required under this mitigation partnership. These trees and shrubs are the equivalent of 35,933 stems towards the 23,375 stems required to satisfy the mitigation requirements for this project; more than 10,000 stems above the number required. A total of 26,600 eligible stems are alive as of this final report. This represents a survival rate of 74% for the total stems planted and 3,225 stems more than required.

Activity	Status
Funds provided by (BakkenLink Pipeline LLC) to the North Dakota Forest Service and deposited in the Trees for North Dakota Trust Fund to finance this program.	COMPLETED
North Dakota Forest Service (NDFS) meets with partners to outline Mitigation Tree Planting Partnership procedures.	COMPLETED
SCD meets with landowner on site to design tree planting. All plantings will follow Natural Resources Conservation Service (NRCS) practice specifications and ND CONS-4 (tree planting planning worksheets) will be completed.	January – March 2017 COMPLETED January – March 2018 COMPLETED
Tree planting plan (ND CONS-4) is developed and submitted to NDFS with tree planting cost estimates. Plans are submitted to Appropriate State and Tribal Historic Preservation Offices. Plans reviewed and ranked by NDFS Tree Conservation Assistance Program review committee. Award Letters and agreements are executed between NDFS and landowners and copies are sent to SCDs.	April – May 2017 COMPLETED April – May 2018 COMPLETED
Landowner prepares site for tree planting. Trees are planted and weed barrier is installed.	May- June 2017 COMPLETED May- June 2018 COMPLETED
Vendor Reimbursement Form and “As Planted” ND CONS-4 is completed by SCD or vendor and submitted to NDFS. Reimbursements are made through the NDSU Business Office.	June-November 2017 COMPLETED June-November 2018 COMPLETED
Landowner maintains trees as per agreement.	Ten year agreements initiated in 2017, 2018.
Tree planting sites are inspected for survival.	April - November 2018 (2017 plantings) COMPLETED April - November 2019 (2017 & 2018 plantings) COMPLETED April - November 2020 (2017 & 2018 plantings) NOT REQUIRED April - November 2021 (2017 & 2018 plantings) COMPLETED
NDFS provides an annual project summary report for filing with the PSC. The summary will outline the numbers planted, locations and mortality rates.	December 31, 2017 COMPLETED December 31, 2018 COMPLETED December 31, 2019 COMPLETED December 31, 2020 NOT REQUIRED December 31, 2021 COMPLETED

Appendix A- 2017 Planting Information

Agreement No.	Year Planted	Trees	Shrubs (= 0.25 trees)	Total Stems Planted	County	QTR	SEC	TWP	RNG
TCAP17001	2017	112	80	132	Barnes	SE	25	143	58
TCAP17002	2017	283	200	333	Billings	NW	28	142	98
TCAP17003	2017	74	0	74	Dunn	NW	32	141	96
TCAP17004	2017	21	191	69	Dunn	NW	32	141	96
TCAP17005	2017	61	143	97	Dunn	SE	30	144	96
TCAP17006	2017	464	660	629	Dunn	NE	21	142	95
TCAP17007	2017	82	579	227	Grant	SE	9	137	90
TCAP17008	2017	42	227	99	Stark	NW	12	140	93
TCAP17009	2017	71	276	140	Stark	NW	24	139	97
TCAP17010	2017	102	525	233	Stark	SW	31	140	94
TCAP17011	2017	724	350	812	Stark	SW	7	137	92
TCAP17012	2017	193	276	262	Stark	NE	32	138	92
TCAP17013	2017	130	0	130	Stark	SW	16	140	96
TCAP17014	2017	192	42	203	Stark	SE	34	141	93
TCAP17015	2017	340	1026	597	Stark	NE	25	139	96
TCAP17016	2017	233	0	233	Stark	SE	20	139	95
TCAP17017	2017	232	0	232	Stark	SW	2	140	98
TCAP17018	2017	276	413	379	Stark	NW	5	139	95
TCAP17019	2017	184	275	253	Stark	NW	5	139	95
TCAP17024	2017	126	438	236	Stark	S	19	138	94
TCAP17025	2017	188	292	261	Stark	SW	3	142	100
TCAP17026	2017	225	0	225	Burleigh	SW	4	137	78
TCAP17027	2017	253	0	253	Burleigh	SW	13	139	75
TCAP17028	2017	92	113	120	Burleigh	SE	33	137	78
TCAP17029	2017	142	250	205	Burleigh	NE	23	138	79
TCAP17030	2017	168	1514	547	Stark	SW	5	139	99
TCAP17031	2017	807	538	942	Burleigh	SW	26	137	75
TCAP17033	2017	102	110	130	Dunn	NE	10	145	95
WRI16037	2017	480	1200	780	Dunn	NW	25	146	96
WRI16050	2017	120	100	145	Dunn	SW	7	141	92
WRI17003	2017	305	231	363	Dunn	SW	8	144	97
WRI17008	2017	688	703	864	Billings	NE	1	141	99
TOTAL		TREES 7,512	SHRUBS 10,752	Eligible Stem Value 10,200					

Appendix B- 2018 Planting Information

Agreement No.	Year Planted	Trees	Shrubs (= 0.25 trees)	Total Stems Planted	County	QTR	SEC	TWP	RNG
TCAP17021	2018	216	138	251	Billings	NW	28	142	98
TCAP17023	2018	215	125	246	Stark	NE	6	140	95
TCAP17032	2018	125	251	188	Burleigh	SE	29	139	79
TCAP17034	2018	138	0	138	Stark	SE	12	139	98
TCAP17035	2018	348	0	348	Stark	S1/2	27	139	96
TCAP17036	2018	140	39	150	Stark	NE	33	139	94
TCAP17037	2018	128	39	138	Dunn	SW	25	141	94
TCAP17038	2018	348	0	348	Dunn	SW	4	143	93
TCAP17039	2018	154	104	180	Stark	SE	3	139	98
TCAP17040	2018	347	172	390	Stark	NW	16	140	96
TCAP17041	2018	114	80	134	Stark	NE	2	137	99
TCAP17042	2018	137	0	137	Stark	SW	26	140	98
TCAP17045	2018	2026	713	2204	Stark	SW	28	139	99
TCAP17047	2018	420	0	420	Stark	NW	12	140	98
TCAP17048	2018	191	253	254	Burleigh	SW	15	142	80
TCAP17049	2018	267	617	421	Burleigh	SW	35	142	80
TCAP17050	2018	175	75	194	Stark	SW	9	138	92
TCAP17051	2018	111	54	125	Stark	NE	23	138	96
TCAP17052	2018	218	63	234	Stark	SW	32	140	95
TCAP17054	2018	279	290	352	Burleigh	NW	7	138	78
TCAP17055	2018	277	516	406	Burleigh	SE	18	140	80
TCAP17056	2018	414	854	628	Burleigh	SW	30	143	77
TCAP17057	2018	390	0	390	Burleigh	NE	20	137	78
TCAP17058	2018	487	805	688	Burleigh	NE	35	146	74
TCAP17059	2018	267	366	359	Burleigh	NE	35	146	74
TCAP17060	2018	357	130	390	Burleigh	SW	2	141	80
TCAP17061	2018	580	0	580	Burleigh	SE	29	137	76
TCAP17062	2018	224	0	224	Burleigh	SE	1	140	80
TCAP17064	2018	757	1172	1050	Burleigh	NW	31	141	75
TCAP17066	2018	157	166	199	Stark	SE	8	139	94
TCAP17067	2018	259	0	259	Burleigh	SE	10	142	81
TCAP17068	2018	314	741	499	Burleigh	NE	19	140	80
TCAP17069	2018	73	82	94	Burleigh	SW	14	142	80
TCAP17070	2018	676	0	676	Burleigh	NW	16	139	76
TCAP17071	2018	95	484	216	Stark	SW	21	137	98
TCAP17072	2018	164	405	265	Burleigh	SE	31	140	77
TCAP17074	2018	132	141	167	Burleigh	SW	13	140	81

TCAP17075	2018	302	402	403	Cass	XX	5	136	50
TCAP17076	2018	0	2300	575	Cass	XX	34	142	52
TCAP17077	2018	752	0	752	Cass	SW	9	139	53
TCAP17078	2018	230	24	236	Cass	NW	14	137	50
TCAP17079	2018	144	185	190	Cass	SW	35	137	51
TCAP17080	2018	109	383	205	Grand Forks	SE	6; 12	154; 152	54; 55
TCAP17081	2018	20	267	87	Stark	NW	28	138	96
TCAP17082	2018	954	533	1087	Stark	NW	5; 23	137; 138	91; 92
TCAP17083	2018	620	514	749	Burleigh	NW	30	143	75
TCAP17084	2018	277	0	277	Grand Forks	N1/2	3	149	52
TCAP17085	2018	134	410	237	Grand Forks	NE	33	150	51
TCAP17086	2018	295	648	457	Grand Forks	SE	13	151	56
TCAP17087	2018	67	152	105	Grand Forks	SE	11	149	51
TCAP17088	2018	171	584	317	Grand Forks	NE	34	150	50
TCAP17089	2018	104	93	127	Grand Forks	NW	6	154	51
TCAP17090	2018	103	246	165	Grand Forks	SW	34	151	53
TCAP17091	2018	406	592	554	Burleigh	SW	11	139	79
TCAP17092	2018	230	190	278	Burleigh	NE	7	143	76
TCAP17093	2018	2309	292	2382	Burleigh	SE	32	140	79
TCAP17094	2018	64	33	72	Morton	NE	11	138	85
TCAP17095	2018	76	439	186	Morton	NW	14	138	84
TCAP17096	2018	143	622	299	Morton	SW	21	138	84
TCAP17097	2018	198	242	259	Morton	NW	7	139	81
TCAP17098	2018	595	628	752	Morton	SW	21	137	85
TCAP17099	2018	187	289	259	Burleigh	NE	19	139	78
TCAP17100	2018	126	0	126	Stark	SE	32	140	95
TCAP17101	2018	81	228	138	Stark	NE	22	138	100
TCAP17102	2018	172	100	197	Stark	SW	3	142	100
TCAP17103	2018	0	249	62	Burleigh	NW	12	139	79
TCAP17104	2018	130	421	235	Burleigh	SE	27	138	79
TCAP17105	2018	0	114	29	Burleigh	NW	6	142	77

TOTAL	TREES	SHRUBS	Eligible Stem Value
	20,719	20,055	25,733

Appendix C –Planting Survival Information

Application No.	Trees	Shrubs	Total Stems Planted	Planting Year	County	Survival-Trees	Survival-Shrubs	Total Stems
TCAP17001	112	80	132	2017	Barnes	105	75	124
TCAP17002	283	200	333	2017	Billings	277	196	326
TCAP17003	74	0	74	2017	Dunn	68	0	68
TCAP17004	21	191	69	2017	Dunn	7	66	24
TCAP17005	61	143	97	2017	Dunn	58	135	92
TCAP17006	464	660	629	2017	Dunn	416	592	564
TCAP17007	82	579	227	2017	Grant	77	545	213
TCAP17008	42	227	99	2017	Stark	24	127	55
TCAP17009	71	276	140	2017	Stark	70	270	137
TCAP17010	102	525	233	2017	Stark	96	494	219
TCAP17011	724	350	812	2017	Stark	601	291	674
TCAP17012	193	276	262	2017	Stark	179	257	244
TCAP17013	130	0	130	2017	Stark	129	0	129
TCAP17014	192	42	203	2017	Stark	165	36	174
TCAP17015	340	1026	597	2017	Stark	337	1016	591
TCAP17016	233	0	233	2017	Stark	231	0	231
TCAP17017	232	0	232	2017	Stark	128	0	128
TCAP17018	276	413	379	2017	Stark	268	401	368
TCAP17019	184	275	253	2017	Stark	162	242	222
TCAP17021	216	138	251	2018	Billings	212	135	245
TCAP17023	160	250	223	2018	Stark	211	123	241
TCAP17024	126	438	236	2017	Stark	125	434	233
TCAP17025	188	292	261	2017	Stark	169	263	235
TCAP17026	225	0	225	2017	Burleigh	178	0	178
TCAP17027	253	0	253	2017	Burleigh	228	0	228
TCAP17028	92	113	120	2017	Burleigh	76	93	99
TCAP17029	142	250	205	2017	Burleigh	124	218	179
TCAP17030	168	1514	547	2017	Stark	151	1363	492
TCAP17031	807	538	942	2017	Burleigh	734	489	856
TCAP17032	202	248	264	2018	Burleigh	110	222	166
TCAP17033	102	110	130	2017	Dunn	98	106	124
TCAP17034	168	0	168	2018	Stark	54	0	54
TCAP17035	336	400	436	2018	Stark	348	0	348
TCAP17036	70	118	100	2018	Stark	136	38	145
TCAP17037	128	39	138	2018	Dunn	128	39	138
TCAP17038	348	0	348	2018	Dunn	271	0	271
TCAP17039	0	267	67	2018	Stark	146	99	171
TCAP17040	402	200	452	2018	Stark	312	155	351
TCAP17041	84	125	115	2018	Stark	98	69	115
TCAP17042	268		268	2018	Stark	101	0	101

TCAP17045	1675	700	1850	2018	Stark	1742	613	1896
TCAP17047	435	0	435	2018	Stark	155	0	155
TCAP17048	285	400	385	2018	Burleigh	148	196	197
TCAP17049	412	931	645	2018	Burleigh	207	478	326
TCAP17050	134	63	150	2018	Stark	166	71	184
TCAP17051	80	414	184	2018	Stark	110	53	123
TCAP17052	133	75	152	2018	Stark	218	63	234
TCAP17054	317	163	358	2018	Burleigh	274	285	345
TCAP17055	270	569	412	2018	Burleigh	244	454	357
TCAP17056	563	700	738	2018	Burleigh	390	804	590
TCAP17057	445	0	445	2018	Burleigh	217	0	217
TCAP17058	526	724	707	2018	Burleigh	0	0	0
TCAP17059	326	483	447	2018	Burleigh	0	0	0
TCAP17060	364	167	406	2018	Burleigh	312	113	340
TCAP17061	616	0	616	2018	Burleigh	271	0	271
TCAP17062	314	0	314	2018	Burleigh	103	0	103
TCAP17064	932	1200	1232	2018	Burleigh	435	673	603
TCAP17066	117	175	161	2018	Stark	154	163	195
TCAP17067	294	0	294	2018	Burleigh	211	0	211
TCAP17068	365	826	572	2018	Burleigh	233	550	371
TCAP17069	109	113	137	2018	Burleigh	70	79	90
TCAP17070	690	0	690	2018	Burleigh	333	0	333
TCAP17071	95	484	611	2018	Stark	82	416	186
TCAP17072	155	388	252	2018	Burleigh	121	298	195
TCAP17074	125	225	181	2018	Burleigh	70	74	88
					Richland/			
TCAP17075	373	498	498	2018	Cass	228	304	304
TCAP17076	0	2300	575	2018	Cass	0	2131	533
TCAP17077	804	0	804	2018	Cass	739	0	739
TCAP17078	320	144	356	2018	Cass	174	18	179
TCAP17079	173	281	243	2018	Cass	108	139	143
TCAP17080	121	420	226	2018	Grand Forks	99	348	186
TCAP17081	22	267	89	2018	Stark	18	243	79
TCAP17082	996	526	1128	2018	Stark	801	448	913
TCAP17083	609	500	734	2018	Burleigh	436	361	526
TCAP17084	300	0	300	2018	Grand Forks	166	0	166
TCAP17085	151	320	231	2018	Grand Forks	88	270	155
TCAP17086	296	685	467	2018	Grand Forks	211	464	327
TCAP17087	69	166	111	2018	Grand Forks	48	109	75
TCAP17088	184	629	341	2018	Grand Forks	111	380	206
TCAP17089	100	104	126	2018	Grand Forks	94	84	115
TCAP17090	108	270	176	2018	Grand Forks	79	188	126
TCAP17091	441	582	587	2018	Burleigh	348	507	475
TCAP17092	232	188	279	2018	Burleigh	125	104	151
TCAP17093	2309	292	2382	2018	Burleigh	1085	137	1120

TCAP17094	64	34	73	2018	Morton	46	24	52
TCAP17095	80	453	193	2018	Morton	54	309	131
TCAP17096	180	700	355	2018	Morton	111	481	231
TCAP17097	246	300	321	2018	Morton	194	237	254
TCAP17098	617	637	776	2018	Morton	132	139	167
TCAP17099	181	324	262	2018	Burleigh	139	215	192
TCAP17100	100	0	100	2018	Stark	126	0	126
TCAP17101	138	276	207	2018	Stark	73	205	124
TCAP17102	130	75	149	2018	Stark	158	92	181
TCAP17103	0	250	63	2018	Burleigh	0	200	50
TCAP17104	161	825	367	2018	Burleigh	88	285	159
TCAP17105	0	342	86	2018	Burleigh	0	99	25
WRI16037	480	1200	780	2017	Dunn	0	0	0
WRI16050	120	100	145	2017	Dunn	89	74	107
WRI17003	305	231	363	2017	Dunn	258	195	307
WRI17008	688	703	864	2017	Billings	647	661	812
							TOTAL	26,600