

**Soil Characteristics for Each Soil Map Unit within the
Project Area**

Exhibit C										
Soil Characteristics for Each Soil Map Unit within the Project area										
Map Unit Name	Map Unit Symbol ^a	Pipeline Crossing Length (feet)	Prime Farmland ^a	Hydric Soils ^a	Compaction Potential ^a	Erosion Potential ^{a, c}	Steep Slopes ^{a, d}	Shallow Bedrock ^{a, e}	Shallow Natric Layer ^{a, f}	Re-vegetation Potential
Pipeline										
Campbell County										
Tonka silt loam, undrained, 0 to 1 percent slopes	C001A	577	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Parnell silty clay loam, undrained, 0 to 1 percent slopes	C008A	375	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Heil silt loam, undrained, 0 to 1 percent slopes	C020A	488	Not Prime Farmland	Yes	High	Low	No	No	Yes	Low
Ludden silty clay loam, strongly saline, 0 to 1 percent slopes, occasionally flooded	C058A	168	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Zahl-Max loams, 15 to 25 percent slopes	C153E	1,556	Not Prime Farmland	Yes	High	High	No	No	No	Low
Vida very stony loam, 3 to 15 percent slopes	C172D	199	Not Prime Farmland	Yes	Moderate	Low	Yes	No	No	Low
Vida-Zahl loams, 6 to 9 percent slopes	C175C	14,532	Not Prime Farmland	Yes	High	Moderate	Yes	No	No	Low
Vida-Zahl loams, 6 to 15 percent slopes	C175D	328	Not Prime Farmland	Yes	High	Moderate	Yes	No	No	Low
Bowbells loam, 0 to 3 percent slopes	C201A	4,696	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Williams-Bowbells loams, 0 to 3 percent slopes	C210A	9,463	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Williams-Bowbells loams, 3 to 6 percent slopes	C210B	52,691	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Williams-Vida loams, 3 to 6 percent slopes	C212B	2,303	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Williams-Vida loams, 6 to 9 percent slopes	C212C	27,013	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate

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Hamerly loam, 0 to 3 percent slopes	C270A	970	Prime Farmland	Yes	High	Low	No	No	No	High
Farnuf loam, 0 to 2 percent slopes	C416A	897	Farmland of Statewide Importance	No	High	Low	No	No	No	High
Farnuf loam, 2 to 6 percent slopes	C416B	1,704	Farmland of Statewide Importance	No	High	Low	No	No	No	High
Straw-Fluvaquents channeled, complex, 0 to 2 percent slopes, frequently flooded	C491A	810	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Ranslo-Harriet loams, 0 to 2 percent slopes, occasionally flooded	C578A	1,049	Not Prime Farmland	Yes	High	Low	No	No	Yes	Low
Bryant silt loam, 2 to 6 percent slopes	C732B	1,175	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Bryant-Grassna silt loams, 0 to 2 percent slopes	C745A	953	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	High
Bryant-Grassna silt loams, 2 to 6 percent slopes	C745B	1,083	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	High
Williams-Noonan loams, 0 to 6 percent slopes	C772B	567	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Bowdle loam, 0 to 2 percent slopes	C810A	2,581	Farmland of Statewide Importance	No	High	Moderate	No	No	No	High
Bowdle loam, 2 to 6 percent slopes	C810B	5,755	Farmland of Statewide Importance	No	High	Moderate	No	No	No	High
Lehr loam, 0 to 2 percent slopes	C816A	3,710	Not Prime Farmland	Yes	High	Moderate	No	No	No	Moderate

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Lehr loam, 2 to 6 percent slopes	C816B	6,321	Not Prime Farmland	Yes	High	Moderate	No	No	No	Moderate
Vida very stony loam, 3 to 15 percent slopes	C819B	8,786	Not Prime Farmland	Yes	High	Moderate	No	No	No	Moderate
Wabek-Lehr-Appam complex, 9 to 25 percent slopes	C870E	203	Not Prime Farmland	Yes	High	High	Yes	No	No	Low
Wabek-Appam complex, 6 to 9 percent slopes	C874C	563	Not Prime Farmland	Yes	Moderate	High	No	No	No	Low
Wabek-Lehr complex, 6 to 9 percent slopes	C877C	1,993	Not Prime Farmland	Yes	Moderate	High	No	No	No	Low
Pits, gravel and sand, 0 to 60 percent slopes	C990F	243	Not Prime Farmland	No	Not Rated	High	Yes	No	No	Low
McPherson County										
Tonka-Nishon silt loams, 0 to 1 percent slopes	C004A	228	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Heil silt loam, undrained, 0 to 1 percent slopes	C020A	238	Not Prime Farmland	Yes	High	Low	No	No	Yes	Low
Vallers loam, undrained, 0 to 1 percent slopes	C022A	112	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Nishon-Heil silt loams, 0 to 1 percent slopes	C031A	326	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Vida-Williams loams, 3 to 6 percent slopes	C136B	1,364	Farmland of Statewide Importance	Yes	High	Moderate	No	No	No	High
Williams-Bowbells-Tonka, undrained complex, 0 to 6 percent slopes	C150B	1,730	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Vida-Williams-Bowbells loams, 3 to 15 percent slopes	C177D	1,294	Not Prime Farmland	Yes	High	Moderate	Yes	No	No	Moderate
Bowbells loam, 3 to 6 percent slopes	C201B	987	Prime Farmland	Yes	High	Low	No	No	No	High

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Williams-Bowbells loams, 0 to 3 percent slopes	C210A	1,622	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Williams-Bowbells loams, 3 to 6 percent slopes	C210B	7821	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Niobell-Noonan loams, 3 to 6 percent slopes	C661B	1,295	Not Prime Farmland	Yes	High	Moderate	No	No	No	Moderate
Bryant-Grassna silt loams, 0 to 2 percent slopes	C745A	5,121	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Bryant-Grassna silt loams, 2 to 6 percent slopes	C745B	7,395	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Bowdle loam, 0 to 2 percent slopes	C810A	2,317	Farmland of Statewide Importance	No	High	Low	No	No	No	Moderate
Lehr loam, 0 to 2 percent slopes	C816A	909	Not Prime Farmland	No	High	Moderate	No	No	No	Moderate
Lehr loam, 2 to 6 percent slopes	C816B	617	Not Prime Farmland	No	High	Moderate	No	No	No	Moderate
Lehr-Bowdle loams, 2 to 6 percent slopes	C817B	1,592	Not Prime Farmland	No	High	Moderate	No	No	No	Moderate
Edmunds County										
Tonka-Nishon silt loams, 0 to 1 percent slopes	C004A	3,290	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Parnell silty clay loam, undrained, 0 to 1 percent slopes	C008A	989	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Heil silt loam, undrained, 0 to 1 percent slopes	C020A	346	Not Prime Farmland	Yes	High	Low	No	No	Yes	Low
Williams-Bowbells-Tonka, undrained complex, 0 to 6 percent slopes	C150B	68,424	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High

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Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Vida-Zahl loams, 6 to 9 percent slopes	C175C	5,016	Not Prime Farmland	Yes	High	Moderate	Yes	No	No	Moderate
Vida-Williams-Bowbells loams, 3 to 15 percent slopes	C177D	147	Not Prime Farmland	Yes	High	Moderate	Yes	No	No	Moderate
Williams-Bowbells loams, 3 to 6 percent slopes	C210B	76,709	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Williams-Bowbells loams, 6 to 9 percent slopes	C210C	4,705	Farmland of Statewide Importance	Yes	Moderate	Moderate	No	No	No	High
Mondamin silty clay loam, 0 to 2 percent slopes	C420A	5,463	Prime Farmland if Irrigated	Yes	Low	Low	No	No	No	Moderate
Mondamin silty clay loam, 2 to 6 percent slopes	C420B	5,103	Prime Farmland if Irrigated	Yes	Low	Moderate	No	No	No	Moderate
Mondamin-Heil complex, 0 to 2 percent slopes	C430A	1,423	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Grassna silt loam, 0 to 2 percent slopes	C457A	174	Prime Farmland	Yes	High	Low	No	No	No	High
Niobell-Noonan loams, 3 to 6 percent slopes	C661B	1,379	Not Prime Farmland	Yes	High	Moderate	No	No	No	Moderate
Bowbells-Niobell loams, 0 to 3 percent slopes	C670A	5,584	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Bryant silt loam, 0 to 2 percent slopes	C732A	278	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Bryant silt loam, 2 to 6 percent slopes	C732B	6,955	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High

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Temvik-Bryant complex, 2 to 6 percent slopes	C741B	1,463	Prime Farmland if Irrigated	Yes	Moderate	Low	No	No	No	Moderate
Temvik-Grassna silt loams, 2 to 6 percent slopes	C742B	1,209	Prime Farmland if Irrigated	Yes	Moderate	Low	No	No	No	Moderate
Bryant-Grassna silt loams, 2 to 6 percent slopes	C745B	2,062	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Bowdle loam, 2 to 6 percent slopes	C810B	138	Farmland of Statewide Importance	No	High	Moderate	No	No	No	High
Faulk County										
Tonka-Nishon silt loams, 0 to 1 percent slopes	C004A	3,707	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Parnell silty clay loam, undrained, 0 to 1 percent slopes	C008A	151	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Nishon silt loam, 0 to 1 percent slopes	C030A	2,964	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Zahl-Williams-Zahill complex, 6 to 9 percent slopes	C135C	538	Not Prime Farmland	Yes	High	Moderate	No	No	No	Moderate
Vida-Williams-Bowbells loams, 3 to 9 percent slopes	C138C	3,601	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Zahill-Straw complex, 2 to 25 percent slopes	C139E	697	Not Prime Farmland	Yes	High	High	Yes	No	No	Low
Williams-Bowbells-Tonka, undrained complex, 0 to 6 percent slopes	C150B	21,122	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Max-Arnegard loams, 0 to 3 percent slopes	C167A	666	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate

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Max-Arnegard-Zahl loams, 0 to 6 percent slopes	C168B	13,494	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Williams-Zahill-Bowbells loams, 3 to 15 percent slopes	C173D	4,654	Not Prime Farmland	Yes	High	Moderate	Yes	No	No	Low
Bowbells loam, 0 to 3 percent slopes	C201A	317	Prime Farmland	Yes	High	Low	No	No	No	High
Williams-Bowbells loams, 0 to 3 percent slopes	C210A	30,402	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Williams-Bowbells loams, 3 to 6 percent slopes	C210B	21,107	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Straw loam, 0 to 2 percent slopes	C490A	1,357	Prime Farmland	Yes	High	Low	No	No	No	High
Straw-Fluvaquents channeled, complex, 0 to 2 percent slopes, frequently flooded	C491A	2,050	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Noonan-Miranda loams, 0 to 6 percent slopes	C556B	4,199	Not Prime Farmland	Yes	High	Low	No	No	Yes	Moderate
Ranslo-Harriet loams, 0 to 2 percent slopes, occasionally flooded	C578A	1,095	Not Prime Farmland	Yes	High	Low	No	No	Yes	Moderate
Harriet loam, 0 to 2 percent slopes	C584A	426	Not Prime Farmland	Yes	High	Low	No	No	Yes	Moderate
Niobell-Noonan-Max loams, 0 to 3 percent slopes	C650A	4,985	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Niobell-Noonan loams, 0 to 3 percent slopes	C661A	3,790	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Williams-Niobell loams, 3 to 6 percent slopes	C667B	5,076	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Max-Niobell-Noonan loams, 3 to 6 percent slope	C672B	8,195	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate

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Bryant-Grassna silt loams, 0 to 2 percent slopes	C745A	3,180	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Tally fine sandy loam, 0 to 2 percent slopes	C769A	2,932	Prime Farmland if Irrigated	Yes	High	Moderate	No	No	No	Moderate
Tally fine sandy loam, 2 to 6 percent slopes	C769B	203	Prime Farmland if Irrigated	Yes	High	Moderate	No	No	No	Moderate
Williams-Bowbells-Noonan loams, 0 to 3 percent slopes	C773A	2,567	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Bowdle loam, 0 to 2 percent slopes	C810A	2,814	Farmland of Statewide Importance	No	Low	Low	No	No	No	High
Lehr loam, 0 to 2 percent slopes	C816A	273	Not Prime Farmland	No	Low	Low	No	No	No	Moderate
Lehr loam, 2 to 6 percent slopes	C816B	212	Not Prime Farmland	No	High	Moderate	No	No	No	Moderate
Pits, gravel and sand, 0 to 60 percent slopes	C990F	540	Not Prime Farmland	No	Not Rated	Low	Yes	No	No	Low
Spink County										
Beadle-Stickney complex, 0 to 2 percent slopes	BeA	37,914	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Beadle-Stickney complex, 0 to 2 percent slopes, very stony	BfA	3,785	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Tonka silt loam, undrained, 0 to 1 percent slopes	C001A	272	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Tonka-Rimlap silt loams, 0 to 1 percent slopes	C010A	477	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Heil silt loam, undrained, 0 to 1 percent slopes	C020A	274	Not Prime Farmland	Yes	High	Low	No	No	Yes	Moderate

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Lowe loam, 0 to 2 percent slopes, occasionally flooded	C054A	2,460	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Zahl-Zahill loams, 15 to 40 percent slopes	C058A	479	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Zahl-Zahill complex, 15 to 40 percent slopes	C133F	164	Not Prime Farmland	Yes	High	High	Yes	No	No	Low
Williams-Niobell-Tonka complex, 0 to 6 percent slopes	C147B	6,410	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Max-Arnegard loams, 0 to 3 percent slopes	C167A	8,850	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Max-Arnegard-Zahl loams, 0 to 6 percent slopes	C168B	27,589	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Max-Zahl-Arnegard loams, 3 to 9 percent slopes	C168C	697	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Noonan-Miranda loams, 0 to 6 percent slopes	C556B	3,317	Not Prime Farmland	Yes	High	Low	No	No	Yes	Moderate
Miranda-Heil complex, 0 to 3 percent slopes	C558A	1,150	Not Prime Farmland	Yes	High	Low	No	No	Yes	Moderate
Ranslo loam, 0 to 2 percent slopes	C575A	610	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Niobell-Noonan loams, 0 to 3 percent slopes	C661A	2,409	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Williams-Niobell loams, 0 to 3 percent slopes	C667A	8,100	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Williams-Niobell loams, 3 to 6 percent slopes	C667B	498	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Niobell-Noonan-Heil complex, 0 to 3 percent slopes	C668A	2,647	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate

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Crossplain-Tetonka complex, 0 to 1 percent slopes	Ct	619	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Delmont-Enet loams, 0 to 2 percent slopes	DeA	1,854	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Dudley-Jerauld silt loams, 0 to 2 percent slopes	Du	3,827	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Ethan-Hand loams, 9 to 20 percent slopes	EnD	3,203	Not Prime Farmland	Yes	High	High	No	No	No	Moderate
Cresbard-Cavour loams, 0 to 3 percent slopes	G124A	1,658	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Cavour-Ferney loams, 0 to 3 percent slopes	G129A	2,097	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Ferney-Heil, till substratum complex, 0 to 3 percent slopes	G133A	1,017	Not Prime Farmland	Yes	High	Low	No	No	Yes	Moderate
Forman-Cresbard-Tonka complex, 0 to 3 percent slopes	G136A	219	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Forman-Cresbard loams, 0 to 3 percent slopes	G139A	1,409	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Forman-Buse-Aastad loams, 1 to 6 percent slopes	G190B	5,444	Prime Farmland	Yes	High	Low	No	No	No	High
Forman-Buse-Aastad loams, 3 to 9 percent slopes	G190C	1,639	Farmland of Statewide Importance	Yes	High	Moderate	No	No	No	High
Aastad-Forman loams, 0 to 3 percent slopes	G193A	733	Prime Farmland	Yes	High	Low	No	No	No	High
Buse-Vida, moist-Forman loams, 9 to 25 percent slopes	G193E	582	Not Prime Farmland	Yes	High	High	Yes	No	No	Low
Aastad-Tonka complex, 0 to 3 percent slopes	G195A	464	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate

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Bearden silt loam, saline, 0 to 2 percent slopes	G453A	484	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Aberdeen-Nahon-Heil silt loams, till substratum, 0 to 2 percent slopes	G476A	517	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Lowe loam, very poorly drained, 0 to 1 percent slopes, frequently flooded	G522A	238	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Lowe-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded	G523A	772	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Lamoure silty clay loam, somewhat poorly drained, 0 to 1 percent slopes, frequently flooded	G533A	243	Prime Farmland if Drained	Yes	High	Moderate	No	No	No	Moderate
Playmoor silty clay loam, 0 to 2 percent slopes, frequently flooded	G543A	67	Not Prime Farmland	Yes	High	High	No	No	No	Low
Ranslo-Harriet loams, 0 to 2 percent slopes, occasionally flooded	G553A	367	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Ranslo silty clay loam, 0 to 1 percent slopes, occasionally flooded	G557A	177	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Great Bend-Beotia silt loams, 0 to 2 percent slopes	G720A	1,509	Prime Farmland	Yes	High	Low	No	No	No	High
Great Bend-Beotia silt loams, till substratum, 0 to 2 percent slopes	G721A	2,642	Prime Farmland	Yes	High	Low	No	No	No	High
Great Bend-Zell silt loams, 2 to 6 percent slopes	G722B	2,538	Prime Farmland	Yes	High	Low	No	No	No	High
Kranzburg-Cresbard silt loams, 0 to 2 percent slopes	G796A	2,128	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High

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Harmony-Beotia silt loams, till substratum, 0 to 2 percent slopes	G863A	1,955	Prime Farmland	Yes	High	Low	No	No	No	High
Harmony-Aberdeen silt loams, till substratum, 0 to 2 percent slopes	G865A	5,387	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Beotia-Rondell silt loams, 0 to 2 percent slopes	G872A	169	Prime Farmland	Yes	High	Low	No	No	No	High
Beotia-Winship silt loams, till substratum, 0 to 2 percent slopes	G874A	457	Prime Farmland	Yes	High	Low	No	No	No	High
Hand-Bonilla loams, 0 to 3 percent slopes	HcA	1,804	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Hand-Carthage fine sandy loams, 0 to 3 percent slopes	HdA	3,003	Prime Farmland if Irrigated	Yes	High	Moderate	No	No	No	Moderate
Hand-Ethan loams, 6 to 9 percent slopes	HfC	1,296	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	High
Hand-Ethan-Bonilla loams, 1 to 6 percent slopes	HgB	6,550	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Hand-Ethan-Bonilla loams, 2 to 9 percent slopes	HgC	700	Farmland of Statewide Importance	Yes	High	Moderate	No	No	No	High
Hand-Ethan-Carthage complex, 1 to 6 percent slopes	HhB	2,318	Prime Farmland if Irrigated	Yes	High	Moderate	No	No	No	Moderate
Hand-Talmo complex, 2 to 6 percent slopes	HjB	6,866	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Hand-Talmo complex, 6 to 9 percent slopes	HjC	2,281	Not Prime Farmland	Yes	High	Moderate	Yes	No	No	Low

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Houdek-Ethan-Prosper loams, 1 to 6 percent slopes	HtB	1,628	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Houdek-Stickney complex, 0 to 2 percent slopes	HwA	1,497	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Houdek-Stickney-Tetonka complex, 0 to 2 percent slopes	HxA	3,053	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Jerauld-Hoven silt loams, 0 to 2 percent slopes	Jh	545	Not Prime Farmland	Yes	High	Low	No	No	Yes	Low
Stickney-Dudley silt loams, 0 to 2 percent slopes	St	2,314	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Stickney-Dudley-Hoven silt loams, 0 to 2 percent slopes	Su	4,499	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Tetonka silt loam, 0 to 1 percent slopes	Te	308	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Beadle County										
Beadle loam, 0 to 2 percent slopes	BaA	46,942	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Beadle loam, 2 to 6 percent slopes	BaB	18,082	Farmland of Statewide Importance	Yes	High	Moderate	No	No	No	High
Beadle loam, 6 to 9 percent slopes	BaC	3,832	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Beadle-Dudley complex, 0 to 2 percent slopes	BdA	13,192	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Betts stony loam, 6 to 40 percent slopes	BeD	2,667	Not Prime Farmland	No	High	Low	Yes	No	No	Low
Betts-Ethan loams, 9 to 21 percent slopes	BfD	3,993	Not Prime Farmland	No	High	High	Yes	No	No	Low

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Bon silt loam	Bo	1,508	Prime Farmland	Yes	High	Low	No	No	No	High
Bon silt loam, channeled	Bx	2,995	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Carthage fine sandy loam, 2 to 6 percent slopes	CaB	126	Farmland of Statewide Importance	Yes	Moderate	Moderate	No	No	No	High
Carthage fine sandy loam, 6 to 9 percent slopes	CaC	363	Farmland of Statewide Importance	Yes	Moderate	Moderate	Yes	No	No	Moderate
Carthage-Blendon fine sandy loams, 0 to 2 percent slopes	CbA	1,155	Farmland of Statewide Importance	Yes	Moderate	Moderate	No	No	No	Moderate
Davis loam, 2 to 9 percent slopes	DaB	2,881	Farmland of Statewide Importance	No	High	Low	No	No	No	High
Delmont loam, 0 to 2 percent slopes	DeA	181	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Dudley-Stickney silt loams, 0 to 3 percent slopes	DsA	10,617	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Dudley-Tetonka silt loams	DtA	2,573	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Egas silty clay loam	Eg	624	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Elsmere loamy fine sand, loamy substratum	Em	1,142	Not Prime Farmland	Yes	Moderate	Moderate	No	No	No	Moderate
Enet loam, 0 to 2 percent slopes	EnA	3,429	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Forestburg-Doger loamy fine sands, 0 to 3 percent slopes	FrA	996	Not Prime Farmland	Yes	High	Moderate	No	No	No	Moderate
Houdek-Prosper loams, 0 to 2 percent slopes	GbA	7,025	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Bend-Edwin silt loams, 2 to 6 percent slopes	GzB	2,962	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Houdek-Ethan loams, 6 to 9 percent slopes	HeC	1,801	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Houdek-Prosper loams, 0 to 2 percent slopes	HoA	8,703	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Houdek-Prosper loams, 2 to 6 percent slopes	HoB	3,513	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Hoven silt loam	Hv	460	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
LaDelle silt loam	La	1,415	Prime Farmland	Yes	High	Low	No	No	No	High
Lane silt loam, 0 to 2 percent slopes	LnA	3,091	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Prosper-Davison loams, 0 to 3 percent slopes	PrA	1,570	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Shue loamy fine sand	Sh	380	Not Prime Farmland	Yes	Moderate	Moderate	No	No	No	Moderate
Spottswood loam	Sp	878	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Tetonka-Hoven silt loams	Te	721	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Edwin silt loam, 6 to 12 percent slopes	ZeC	529	Not Prime Farmland	No	High	High	Yes	No	No	Low

Kingsbury County

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Beadle loam, 2 to 6 percent slopes	BdB	692	Prime Farmland if Irrigated	Yes	High	Moderate	No	No	No	Moderate
Beadle-Dudley complex, 0 to 2 percent slopes	BeA	1,629	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Bon loam	Bn	991	Prime Farmland	Yes	High	Low	No	No	No	High
Bon loam, channeled	Bo	1,229	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Clarno-Bonilla loams, 0 to 2 percent slopes	CbA	19,702	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Clarno-Ethan-Bonilla loams, 1 to 6 percent slopes	CeB	19,022	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Clarno-Ethan-Bonilla loams, 2 to 9 percent slopes	CeC	385	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Crossplain-Tetonka complex	Ct	5,894	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Delmont-Talmo loams, 2 to 6 percent slopes	DtB	605	Not Prime Farmland	Yes	High	Moderate	No	No	No	Moderate
Ethan-Bon, channeled, loams, 0 to 20 percent slopes	EoD	2,540	Not Prime Farmland	No	High	High	Yes	No	No	Low
Ethan-Clarno loams, 9 to 15 percent slopes	EtD	1,376	Not Prime Farmland	No	High	High	Yes	No	No	Low
Houdek-Prosper loams, 1 to 6 percent slopes	HpB	1,373	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Houdek-Stickney complex, 0 to 2 percent slopes	HsA	28,613	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Houdek-Stickney complex, 2 to 6 percent slopes	HsB	2,344	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Houdek-Stickney-Tetonka complex	Ht	22,045	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Stickney-Dudley silt loams	St	368	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Stickney-Dudley-Hoven silt loams	Sv	6,524	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Miner County										
Arlo clay loam	Ar	265	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Baltic silty clay loam	Ba	597	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Bon silt loam	Bo	1,002	Prime Farmland	Yes	High	Low	No	No	No	High
Clarno-Bonilla loams, 0 to 3 percent slopes	CfA	17,587	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Clarno-Bonilla loams, 1 to 6 percent slopes	CfB	8,985	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Clarno-Crossplain loams, 0 to 2 percent slopes	CgA	30,699	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Clarno-Ethan complex, 2 to 6 percent slopes	CkB	1,159	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Clarno-Stickney-Tetonka complex, 0 to 2 percent slopes	CnA	152	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Crossplain-Tetonka complex	Ct	10,595	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Enet-Delmont loams, 0 to 4 percent slopes	EdA	2,439	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Ethan-Clarno complex, 6 to 9 percent slopes	EgC	331	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Clarno-Stickney-Tetonka complex, 0 to 2 percent slopes	La	411	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Tetonka silt loam	Te	504	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Lake County										
Badus silty clay loam	Ba	974	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Clarno-Ethan loams, 9 to 16 percent slopes	Bc	346	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Beadle-Dudley complex, 0 to 2 percent slopes	BdA	144	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Clarno loam, 0 to 2 percent slopes	CaA	778	Prime Farmland	Yes	High	Low	No	No	No	High
Clarno loam, 2 to 6 percent slopes	CaB	6,891	Prime Farmland	Yes	High	Low	No	No	No	High
Clarno loam, 6 to 9 percent slopes	CaC	1,817	Farmland of Statewide Importance	Yes	High	Moderate	No	No	No	High
Clarno-Ethan loams, 2 to 6 percent slopes	CeB	649	Prime Farmland	Yes	High	Low	No	No	No	High

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Clarno-Ethan loams, 6 to 9 percent slopes	CeC	7,462	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Clarno-Ethan loams, 9 to 16 percent slopes	CeD	3,138	Not Prime Farmland	Yes	High	Moderate	Yes	No	No	Low
Egan silty clay loam, 6 to 9 percent slopes	EaC	3,206	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Egan-Beadle complex, 0 to 2 percent slopes	EbA	969	Prime Farmland	Yes	High	Low	No	No	No	High
Egan-Beadle complex, 2 to 6 percent slopes	EbB	10,790	Prime Farmland	Yes	High	Low	No	No	No	High
Egan-Beadle complex, 6 to 9 percent slopes	EbC	3,995	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Egan-Ethan complex, 2 to 6 percent slopes	Eeb	1,985	Prime Farmland	Yes	High	Low	No	No	No	High
Egan-Ethan complex, 6 to 9 percent slopes, eroded	EeC2	4,220	Not Prime Farmland	Yes	High	Moderate	Yes	No	No	Low
Egan-Viborg silty clay loams, 0 to 3 percent slopes	EgA	1,306	Prime Farmland	Yes	High	Low	No	No	No	High
Egan-Wentworth silty clay loams, 2 to 6 percent slopes	EhB	13,703	Prime Farmland	Yes	High	Low	No	No	No	High
Ethan-Betts loams, 21 to 40 percent slopes	EoF	249	Not Prime Farmland	No	High	High	Yes	No	No	Low
Ethan-Clarno loams, 16 to 21 percent slopes	ErE	652	Not Prime Farmland	No	High	High	Yes	No	No	Low
Ethan-Davis stony complex, 3 to 21 percent slopes	EsE	3,708	Not Prime Farmland	Yes	High	Low	Yes	No	No	Low
Ethan-Davis stony complex, 3 to 21 percent slopes	EtD	1,033	Not Prime Farmland	Yes	High	Low	Yes	No	No	Low
Houdek-Prosper loams, 0 to 3 percent slopes	HpA	2,050	Prime Farmland	Yes	High	Low	No	No	No	High

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Lamo silty clay loam	La	407	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Worthing silty clay loam, ponded	Mar	302	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Prosper loam, 0 to 2 percent slopes	PrA	2,209	Prime Farmland	Yes	High	Low	No	No	No	High
Rauville silty clay loam	Ra	753	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Huntimer silty clay loam, 0 to 2 percent slopes	ScA	3,781	Prime Farmland	Yes	High	Low	No	No	No	High
Huntimer silty clay loam, 2 to 6 percent slopes	SdB	5,537	Prime Farmland	Yes	High	Low	No	No	No	High
Stickney-Tetonka complex, 0 to 2 percent slopes	StA	503	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Talmo-Delmont loams, 6 to 21 percent slopes	TdE	205	Not Prime Farmland	Yes	High	High	Yes	No	No	Moderate
Tetonka silt loam	Te	1,505	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Viborg silty clay loam, 0 to 2 percent slopes	VbA	2,825	Prime Farmland	Yes	High	Low	No	No	No	High
Viborg-Egan silty clay loams, 2 to 6 percent slopes	VgB	1,984	Prime Farmland	Yes	High	Low	No	No	No	High
Wentworth-Egan silty clay loams, 0 to 2 percent slopes	WeA	406	Prime Farmland	Yes	High	Low	No	No	No	High
Whitewood silty clay loam	Wh	5,997	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Worthing silty clay loam	Wo	2,130	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
McCook County										

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Egan-Ethan complex, 5 to 9 percent slopes	EaC	2,041	Farmland of Statewide Importance	Yes	High	Moderate	No	No	No	High
Huntimer silty clay loam, 0 to 2 percent slopes	HuA	560	Prime Farmland	Yes	High	Low	No	No	No	High
Wentworth silty clay loam, 0 to 2 percent slopes	WaA	1,081	Prime Farmland	Yes	High	Low	No	No	No	High
Wentworth silty clay loam, 2 to 5 percent slopes	WbB	1,067	Prime Farmland	Yes	High	Low	No	No	No	High
Wentworth-Ethan complex, 2 to 5 percent slopes	WcB	1,190	Prime Farmland	Yes	High	Low	No	No	No	High
Whitewood silt loam	Wh	393	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Worthing silty clay loam	Wo	2,746	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Minnehaha County										
Alcester silty clay loam, 2 to 6 percent slopes	AcB	400	Prime Farmland	No	High	Low	No	No	No	High
Baltic silty clay loam, 0 to 1 percent slopes	Ba	1,191	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Betts-Ethan loams, 15 to 40 percent slopes	BeE	140	Not Prime Farmland	Yes	High	High	Yes	No	No	Low
Chancellor silty clay loam, 0 to 1 percent slopes	Cb	621	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Chancellor-Tetonka complex, 0 to 1 percent slopes	Cc	6,775	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Davison-Crossplain clay loams, 0 to 2 percent slopes	Dd	4,335	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Egan-Ethan complex, 2 to 6 percent slopes	EaB	1,400	Prime Farmland	Yes	High	Low	No	No	No	High

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Egan-Ethan-Trent complex, 1 to 6 percent slopes	EeB	52,056	Prime Farmland	Yes	High	Low	No	No	No	High
Egan-Trent silty clay loams, 0 to 2 percent slopes	EfA	1,243	Prime Farmland	Yes	High	Low	No	No	No	High
Egan-Wentworth-Trent silty clay loams, 1 to 6 percent slopes	EgB	9,562	Prime Farmland	Yes	High	Low	No	No	No	High
Ethan-Betts loams, 9 to 15 percent slopes	EpD	688	Not Prime Farmland	Yes	High	High	Yes	No	No	Low
Ethan-Clarno loams, 6 to 25 percent slopes, very stony	EsE	1,302	Not Prime Farmland	Yes	High	Low	Yes	No	No	Low
Ethan-Clarno loams, 9 to 15 percent slopes	EtD	7,427	Not Prime Farmland	Yes	High	High	Yes	No	No	Low
Ethan-Egan complex, 6 to 9 percent slopes	EuC	25,140	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Ethan, very stony-Egan complex, 2 to 9 percent slopes	ExC	915	Not Prime Farmland	Yes	High	High	Yes	No	No	Low
Huntimer silty clay loam, 0 to 2 percent slopes	HuA	5,483	Prime Farmland	Yes	High	Low	No	No	No	High
Huntimer silty clay loam, 2 to 6 percent slopes	HuB	2,576	Prime Farmland	Yes	High	Low	No	No	No	High
Lamo silty clay loam, 0 to 1 percent slopes	La	174	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Obert silty clay loam, 0 to 1 percent slopes	Ob	350	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Salmo silty clay loam, 0 to 1 percent slopes	Sa	1,139	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Tetonka silt loam, 0 to 1 percent slopes	Te	209	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Wakonda-Chancellor silty clay loams, 0 to 2 percent slopes	Wa	2,824	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Wentworth-Chancellor-Wakonda silty clay loams, 0 to 2 percent slopes	WcA	1947	Prime Farmland	Yes	High	Low	No	No	No	High
Wentworth-Trent silty clay loams, 0 to 2 percent slopes	WhA	862	Prime Farmland	Yes	High	Low	No	No	No	High
Whitewood silty clay loam, 0 to 2 percent slopes	Wk	462	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Worthing silty clay loam, 0 to 1 percent slopes	Wo	1,482	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Worthing-Davison complex, 0 to 2 percent slopes	Wr	4,981	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Turner County										
Baltic silty clay loam, 0 to 1 percent slopes	Ba	1,320	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Chancellor-Tetonka silty clay loams	Ca	375	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Delmont-Enet loams, 2 to 6 percent slopes	DeB	347	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Dempster-Graceville silty clay loams, 1 to 5 percent slopes	DgB	794	Prime Farmland	Yes	High	Low	No	No	No	High
Egan-Ethan complex, 2 to 6 percent slopes	EeB	2,705	Prime Farmland	Yes	High	Low	No	No	No	High
Egan-Trent silty clay loams, 0 to 2 percent slopes	EfA	69	Prime Farmland	Yes	High	Low	No	No	No	High
Egan-Wentworth-Trent silty clay loams, 1 to 6 percent slopes	EgB	383	Prime Farmland	Yes	High	Low	No	No	No	High

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Ethan-Egan complex, 5 to 9 percent slopes	EtC	890	Farmland of Statewide Importance	Yes	High	Moderate	No	No	No	High
Huntimer silty clay loam, 0 to 2 percent slopes	HuA	73	Prime Farmland	Yes	High	Low	No	No	No	High
Lincoln County										
Alcester silty clay loam, 0 to 2 percent slopes	AcA	616	Prime Farmland	Yes	High	Low	No	No	No	High
Bon soils, frequently flooded	Bo	957	Not Prime Farmland	No	High	Low	No	No	No	Moderate
Chancellor-Tetonka silty clay loams	Ca	10,526	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Chancellor-Viborg silty clay loams	Cd	11,443	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Chancellor-Wakonda-Tetonka complex	Ch	751	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Davis loam	Da	868	Prime Farmland	Yes	High	Low	No	No	No	High
Delmont loam, 2 to 6 percent slopes	DeB	358	Prime Farmland if Irrigated	Yes	High	Low	No	No	No	Moderate
Delmont and Talmo soils, 2 to 9 percent slopes	DkB	585	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Egan silty clay loam, 3 to 6 percent slopes	EaB	5,269	Prime Farmland	Yes	High	Low	No	No	No	High
Egan-Chancellor silty clay loams, 0 to 4 percent slopes	EcB	6,271	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Egan-Shindler complex, 2 to 6 percent slopes	EsB	1,233	Prime Farmland	Yes	High	Low	No	No	No	High

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
Egan-Shindler complex, 6 to 9 percent slopes	EsC	2,251	Farmland of Statewide Importance	Yes	High	Moderate	Yes	No	No	Moderate
Egan-Worthing complex, 0 to 6 percent slopes	EwB	12,365	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Graceville silty clay loam	Gr	3,590	Prime Farmland	Yes	High	Low	No	No	No	High
Huntimer silty clay loam, 0 to 2 percent slopes	HuA	8,830	Prime Farmland	Yes	High	Low	No	No	No	High
Lamo silty clay loam	La	472	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Shindler and Talmo soils, 6 to 30 percent slopes	StD	263	Not Prime Farmland	Yes	High	High	No	No	No	Low
Tetonka silty clay loam	Te	15,745	Prime Farmland if Drained	No	High	Low	No	No	No	Moderate
Wentworth silty clay loam, 0 to 2 percent slopes	WeA	31,301	Prime Farmland	Yes	High	Low	No	No	No	High
Wentworth silty clay loam, 0 to 2 percent slopes	WhA	7,911	Prime Farmland if Drained	Yes	High	Low	No	No	No	Moderate
Worthing silty clay	Ws	15,745	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate
Pump Station										
Spink County										
Houdek-Stickney complex, 0 to 2 percent slopes	HwA	4.3	Farmland of Statewide Importance	Yes	High	Low	No	No	No	High
Jerauld-Hoven silt loams, 0 to 2 percent slopes	Jh	4.7	Not Prime Farmland	Yes	High	Low	No	No	Yes	Moderate
Stickney-Dudley-Hoven silt loams, 0 to 2 percent slopes	Su	<0.1	Not Prime Farmland	Yes	High	Low	No	No	No	Moderate

Exhibit C

Soil Characteristics for Each Soil Map Unit within the Project area

Map Unit Name	Map Unit Symbol^a	Pipeline Crossing Length (feet)	Prime Farmland^a	Hydric Soils^a	Compaction Potential^a	Erosion Potential^{a, c}	Steep Slopes^{a, d}	Shallow Bedrock^{a, e}	Shallow Natric Layer^{a, f}	Re-vegetation Potential
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^a As designated by the Natural Resources Conservation Service.
^b Represents total length (in feet) crossed by the pipeline facilities.
^c Erosion Potential – Based on land capability class and subclass: High (subclass Ve-VIIIe), Moderate (subclass IIIe-IVe), and Low (remaining subclasses).
^d Steep Slopes - Represents soils with slopes greater than 8 percent.
^e Shallow bedrock – Represents soils with unconsolidated rock 60 inches or less from the surface.
^f Shallow Natric layers – Represents subsoil layers with a large accumulation of sodium salts that can reduce plant growth within 18 inches or less from the surface.