

**Dakota Access, LLC**  
**Dakota Access Pipeline Project (ND)**

**Wetland and Waterbody Delineation Report**

**May 15, 2015**



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## INTRODUCTION

Dakota Access, LLC is proposing to build a crude oil pipeline that will run from Stanley, North Dakota, to Patoka, Illinois. The Project, referred to as the Dakota Access Pipeline Project (DAPL), will span approximately 1,134 miles through North Dakota, South Dakota, Iowa, and Illinois. This document focuses on the results of wetland and waterbody delineations for the North Dakota segment of the Project, which crosses seven counties (Mountrail, Williams, McKenzie, Dunn, Mercer, Morton, and Emmons) and covers 359 miles in length (**Appendix A**). Wetland and waterbody features within the Project corridor were identified and delineated following the prescribed U.S. Army Corps of Engineers (USACE) methodologies. These surveys were conducted between August and October 2014 with additional survey work conducted in April and May 2015. The collected data were used to determine impacts as described in this document.

## METHODS

### Preliminary Data Gathering

Information including the U.S. Fish and Wildlife Service National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), Soil Survey Geographic Database (SSURGO), and aerial imagery were evaluated prior to and during field evaluations.

### Field Evaluations

Field evaluations were conducted by qualified biologists working in two-person crews. Surveys were conducted within an established environmental survey corridor (400') generally centered along the proposed pipeline. To date, field survey efforts have been completed on all tracts with granted landowner access. Supplemental field surveys will occur on the remaining "denied" tracts as access is authorized.

#### *Data Collection and Nomenclature*

All spatial field data were collected using the Global Coordinate System WGS 1984 coordinate system. All wetland boundaries and waterbody lines were mapped using a sub-meter GPS unit (Trimble® GeoXT 6000) instead of the use of flagging in the field. Collected field data were then post-processed using the Medora6 CORS base station.

Wetland and waterbody features were assigned unique identification numbers. These feature IDs were based on feature type ("w" for wetland/ "p" for pond or excavated basin/ "s" for waterbody), crew number, county, and a sequential feature number for that specific crew. Sequential numbers were assigned independently for each feature type within each county.

#### *Wetlands*

Wetland features encountered by field crews were delineated utilizing the Routine "Onsite" Determination Method contained in the USACE Wetlands Delineation Manual (1987) and the Great Plains Regional Supplement (Version 2.0, 2010). Wetland boundaries were determined based on the evaluation of the three parameters (hydric soils, hydrophytic vegetation, and wetland hydrology) required for an area to be defined as a jurisdictional wetland.

A representative sample transect was placed in an area transitioning from upland to wetland for each documented wetland feature. A USACE wetland determination form was completed for both the wetland sample point and the comparative upland sample point. The exception to this practice was in the case of multiple wetland features that were both similar in community classification and in close proximity to one another.

Soil pits were excavated by hand using a shovel or Dutch auger, to a minimum depth of 18 inches when possible. Soil characteristics such as matrix/mottle colors and texture were described and recorded; these features were used to determine the presence or absence of hydric soil field indicators (Vasilas et al. 2010) and noted on the field forms. Soil pits were not excavated if the site was in close proximity to existing pipelines, other buried utility lines, or roadsides. In those situations, wetland soils were assumed hydric based on appropriate landscape position and vegetative composition. The dominant vegetation species for each sample point were visually estimated using areal percent cover. Hydrologic indicators were also evaluated for primary and secondary indicators (i.e. the presence or absence of inundated and/or saturated soils, salt crust or algal mat, drainage patterns, water marks, etc).

Each delineated wetland was documented with a representative photograph and classified using both the Cowardin Classification System (Cowardin et al. 1979) and Circular 39 methodologies. Lakes, ponds, and other small areas of open water were also delineated as pond features. Roadside ditches were delineated as wetlands when hydrology was present and the area was entirely vegetated and dominated by hydrophytic vegetation, but lacked a bed and bank (i.e. was not classifiable as a waterbody).

#### *Waterbodies*

Waterbody features were delineated by mapping both banks if the feature was greater than ten feet in width, or just a centerline if the width was less than or equal to ten feet. Data recorded for each waterbody included bank height/width/slope, ordinary high water mark height/width, direction and rate of water flow, substrate, and cover of riparian vegetation. Representative photographs were also taken for documentation purposes, both parallel and perpendicular to the feature. Waterbodies were classified according to the Cowardin system, which includes ephemeral (R6), intermittent (R4SB), or perennial (R2UB/R2US) designation. Artificial drainages including roadside ditches were delineated as waterbodies when a bed and bank were present and/or a culvert system was present.

#### *Upland NWI Wetlands*

Some areas previously identified as wetlands in the U.S. Fish and Wildlife Service NWI were in fact entirely upland. In these situations, field crews collected a sample point to indicate that they evaluated the suspected feature in the field, but deemed the area to be upland.

#### *Upland NHD Waterbodies*

Some areas previously identified as waterbodies in the U.S. Geological Survey NHD were in fact entirely upland and lacked a defined bed and bank. In these situations, field crews documented the upland nature of the feature by collecting a sample point to indicate that this area had been evaluated in the field.

## RESULTS

### *Uplands*

The majority of the Project area is upland and includes row crop, pasture and rangeland, native grassland communities and wooded communities. Much of the pasture and rangeland along the corridor is dominated by non-native grasses. Smooth brome (*Bromus inermis*), Kentucky bluegrass (*Poa pratensis*), and crested wheatgrass (*Agropyron cristatum*) are the most dominant species in these areas. The rangelands also have a strong presence of the invasive leafy spurge (*Euphorbia esula*) and Canada thistle (*Cirsium arvense*). The lower draws associated with these rangelands are often dominated by fireberry hawthorn (*Crataegus chrysocarpa*) and Sprengel's sedge (*Carex sprengelii*).

The native grasslands along the corridor are mostly areas utilized for grazing purposes but dominated by native graminoids. The dominant species in these areas include little bluestem (*Schizachyrium scoparium*), western wheatgrass (*Pascopyrum smithii*), green needlegrass (*Nassella viridula*), blue grama (*Bouteloua gracilis*), Flodman's thistle (*Cirsium flodmanii*), white sagebrush (*Artemisia ludoviciana*), prairie sagewort (*Artemisia frigida*), pussytoes (*Antennaria* spp.), creeping juniper (*Juniperus horizontalis*), and pasque flower (*Anemone patens*).

Wooded upland communities encountered are mostly dominated by bur oak (*Quercus macrocarpa*), quaking aspen (*Populus tremuloides*), Rocky Mountain juniper (*Juniperus scopulorum*), green ash (*Fraxinus pennsylvanica*), and choke cherry (*Prunus virginiana*).

### *Wetlands*

As indicated, the survey corridor has a linear length of approximately 359 miles. In terms of acreage, the Project footprint equates to 17,827 acres, of which 16,399 acres have been evaluated in the field for wetlands and waterbodies. The remaining acreage has not been surveyed due to the lack of permission by those property owners. Impacts have been assessed and included herein for the entire right-of-way, with aerial interpretation and NWI data being utilized for tracts without access.

In general, the majority of wetlands documented within the Project footprint were of only one Cowardin class. In total, 509 wetlands have been documented thus far within the Project corridor. This includes 453 palustrine emergent (PEM) wetlands, one palustrine scrub-shrub (PSS) wetlands, four palustrine forested (PFO) wetlands, and 51 palustrine unconsolidated bottom (PUB) wetlands. **Table** includes the number of features based on Cowardin class that were documented by County during field surveys along with NWI tracts lacking survey coverage. A complete list of wetland features documented is provided in **Appendix B**, which sorts the features numerically based on milepost (separated by Mainline and Supply Line mileposts). Associated data forms are provided in **Appendix C**.

COUNTY	PEM	PSS	PFO	PUB
Dunn <sup>1</sup>	38	0	3	2
Emmons	26	0	1	5
McKenzie <sup>2</sup>	57	0	0	7
Mercer	48	0	0	3
Morton <sup>3</sup>	111	1	0	11
Mountrail <sup>4</sup>	83	0	0	14
Williams <sup>5</sup>	103	0	0	12
<b>Totals</b>	<b>466</b>	<b>1</b>	<b>4</b>	<b>54</b>

<sup>1</sup> Dunn County calculations included 5 NWI features  
<sup>2</sup> McKenzie County calculations included 2 NWI features  
<sup>3</sup> Morton County calculations included 2 NWI features  
<sup>4</sup> Mountrail County calculations included 1 NWI feature  
<sup>5</sup> Williams County calculations included 6 NWI features

The majority of wetlands associated with the Project corridor are PEM features. The vegetation associated with PEM wetlands includes both graminoids and forbs with graminoids dominating most of the features. Dominant graminoids in emergent wetlands include water sedge (*Carex aquatilis*), smooth cone sedge (*Carex laeviconica*), woolly sedge (*Carex pellita*), plains oval sedge (*Carex brevior*), prairie cordgrass (*Spartina pectinata*), spike-rushes (including *Eleocharis acicularis*, *E. compressa*, *E. palustris*), American barnyard grass (*Echinochloa muricata*), quackgrass (*Elymus repens*), arctic rush (*Juncus arcticus*), and common three-square (*Schoenoplectus pungens*). In the alkaline and saline wetlands, salt grass (*Distichlis spicata*), foxtail barley (*Hordeum jubatum*), and Nuttall's alkali grass (*Puccinellia nuttalliana*) are the dominant species, but also includes saltmarsh bulrush (*Bolboschoenus maritimus*) and pursh seepweed (*Suaeda calceoliformis*). Common forbs in emergent wetland communities include dock species (*Rumex* spp.), water smartweed (*Persicaria amphibia*), common knotgrass (*Polygonum aviculare*), and white paniced aster (*Symphotrichum lanceolatum*). The marsh systems are dominated by narrow-leaf cattail (*Typha angustifolia*), hybrid cattail (*Typha x glauca*), and northern water-plantain (*Alisma triviale*). Farmed wetlands include species such as barnyard grass (*Echinochloa crus-galli*), American barnyard grass, and foxtail barley.

PFO wetlands were extremely uncommon within the Project corridor, with only four features documented. These communities were found in moist ravines and often dominated by green ash and occasionally box elder (*Acer negundo*) with smooth cone sedge, clustered field sedge (*Carex praegracilis*), fowl bluegrass (*Poa palustris*), wild black currant (*Ribes americanum*) and stinging nettle (*Urtica dioica*) in the understory.

Only one PSS wetland was documented during survey efforts. This community is dominated by sandbar willow (*Salix interior*) and graminoids including reed canary grass (*Phalaris arundinacea*) and Canada bluejoint (*Calamagrostis canadensis*).

PUB waterbody features were fairly common along the Project corridor. These were generally excavated features lacking submergent vegetation and occasionally associated with PEM wetlands.

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Within the Project corridor 258.2 acres of field delineated wetlands and 3.6 acres of NWI mapped wetlands collectively total 261.8 acres of wetlands. Dakota Access has designed the pipeline in North Dakota to avoid permanent fill in wetlands. Temporary impacts to wetlands will be limited to the construction phase. Permanent PFO impacts will be limited to conversion of cover type from PFO to PEM within the maintained corridor centered on the pipeline. The anticipated temporary and permanent wetland impacts within the Project workspace including delineated and NWI desktop acreage amounts to 73.92 (**Table 2**).

<b>Feature Type</b>	<b>Temporary Impacts</b>	<b>Permanent Impacts</b>
	<b>Acreage</b>	<b>Acreage</b>
PFO	0	0.31*
PSS	0.24	0
PEM	64.27	0
PUB	9.1	0
<b>Total</b>	<b>73.61</b>	<b>0.31*</b>

\*The permanent PFO impact is a conversion of cover type to PEM within the maintained corridor, not a permanent loss.

*Waterbodies*

There were a total of 263 waterbodies documented within the Project corridor. **Table 3** indicates the number of features by class per county along with NHD features for those tracts lacking survey coverage. A complete list of documented waterbody features is provided in **Appendix D** and associated data forms are provided in **Appendix E**.

<b>COUNTY</b>	<b>Ditch</b>	<b>Ephemeral</b>	<b>Intermittent</b>	<b>Perennial</b>	<b>NHD</b>
Dunn	0	13	15	18	2
Emmons	0	11	8	12	0
McKenzie	1	13	14	15	11
Mercer	0	5	13	12	0
Morton	1	23	22	16	9
Mountrail	0	4	1	3	7
Williams	1	23	10	9	8
<b>Total</b>	<b>3</b>	<b>92</b>	<b>83</b>	<b>85</b>	<b>37</b>

*Facility Sites*

As stated previously, six facility sites will be constructed, some of which have alternative sites which have been analyzed while final design underway. All sites, including the alternative sites are Stanley Alternate 1, Stanley, Ramberg, Ramberg Alternate 1, Ramberg CoLocate Alternate 2, Epping, Epping CoLocate, Trenton, Trenton CoLocate, Watford City, and Johnsons Corner. The facilities are located along the Supply Line in Mountrail, McKenzie, and Williams counties. Two PEM wetlands were delineated within the Stanley Alternate 1 site, one NHD waterbody was documented within Watford City site and one PEM wetland and one ephemeral stream were delineated at Johnsons corner, but impacts have not been finalized due to ongoing design of these sites.

## REFERENCES

- Cowardin, L. M., V. Carter, F.C. Golet, and E.D. LaRoe. 1979 Classification of wetlands and deepwater habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service, Office of Biological Services, Washington, D.C.
- U.S. Army Corps of Engineers (USACE). 2010. Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Great Plains Region. Version 2.0. U.S. Army Engineers Research and Development Center, Vicksburg, MS.
- U.S. Army Corps of Engineers Environmental Laboratory (USACE). 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineers Waterways Experiment Station, Vicksburg, MS.
- United States Department of Agriculture, Natural Resources Conservation Service. 2010. Field Indicators of Hydric Soils in the United States, Version 7.0. L.M. Vasilas, G.W. Hurt, and C.V. Noble (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

# **APPENDIX A. FEATURE MAP SET**

## **APPENDIX B. WETLAND FEATURE LIST**

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<b>Feature ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-k3-mt-002	PEM	Mountrail	0.14	0	Supply Line	1	Y
w-k3-mt-003	PEM	Mountrail	0.16	0.5	Supply Line	1	Y
w-k3-mt-004	PEM	Mountrail	0.29	0.5	Supply Line	1	Y
w-k7-mt-001	PEM	Mountrail	0.58	1	Supply Line	2	Y
w-k3-mt-001	PEM	Mountrail	0.26	1.5	Supply Line	2	Y
w-k7-mt-002	PEM	Mountrail	0.98	1.5	Supply Line	2	Y
p-k2-mt-001	PUB	Mountrail	6.66	3.5	Supply Line	4	Y
w-k2-mt-012	PEM	Mountrail	0.68	3.5	Supply Line	4	Y
w-k2-mt-013	PEM	Mountrail	0.69	4	Supply Line	4	Y
w-k2-mt-014	PEM	Mountrail	0.31	4	Supply Line	4	Y
w-kc4-mt-007	PEM	Mountrail	0.09	5	Supply Line	5	N
w-kc4-mt-008	PEM	Mountrail	0.42	5	Supply Line	5	N
w-m4-mt-012	PEM	Mountrail	0.61	5.5	Supply Line	5	Y
p-m4-mt-011	PUB	Mountrail	0.42	5.5	Supply Line	5	Y
w-m4-mt-017	PEM	Mountrail	0.16	5.5	Supply Line	5	N
w-m4-mt-016	PEM	Mountrail	0.30	5.5	Supply Line	5	N
w-kc4-mt-001	PEM	Mountrail	0.22	5.5	Supply Line	5	Y
w-kc4-mt-003	PEM	Mountrail	0.78	5.5	Supply Line	5	Y
p-kc4-mt-001	PUB	Mountrail	0.41	5.5	Supply Line	5	Y
p-kc4-mt-002	PUB	Mountrail	1.42	5.5	Supply Line	5	Y
w-kc4-mt-004	PEM	Mountrail	0.62	5.5	Supply Line	5	Y
w-kc4-mt-005	PEM	Mountrail	0.12	5.5	Supply Line	5	N
w-kc4-mt-006	PEM	Mountrail	0.34	5.5	Supply Line	5	N
w-k2-mt-017	PEM	Mountrail	0.14	5.5	Supply Line	7	Y
w-k2-mt-016	PEM	Mountrail	2.47	5.5	Supply Line	5	Y
p-m4-mt-009	PUB	Mountrail	21.11	6	Supply Line	7	Y
w-m4-mt-014	PEM	Mountrail	0.77	6.5	Supply Line	7	Y
w-m4-mt-015	PEM	Mountrail	0.10	6.5	Supply Line	7	N
w-m4-mt-013	PEM	Mountrail	2.96	6.5	Supply Line	7	N
p-m4-mt-010	PUB	Mountrail	0.06	6.5	Supply Line	7	Y
w-k2-mt-019	PEM	Mountrail	0.43	6.5	Supply Line	7	Y
w-k2-mt-020	PEM	Mountrail	0.66	6.5	Supply Line	7	Y
p-m4-mt-003	PUB	Mountrail	0.38	7	Supply Line	8	Y
w-m4-mt-006	PEM	Mountrail	0.33	7	Supply Line	8	N
w-m4-mt-005	PEM	Mountrail	0.18	7	Supply Line	8	N
w-k2-mt-021	PEM	Mountrail	0.18	7	Supply Line	8	Y
w-m4-mt-002	PEM	Mountrail	1.18	7.5	Supply Line	8	Y
p-m4-mt-002	PUB	Mountrail	0.15	7.5	Supply Line	8	Y
w-m4-mt-004	PEM	Mountrail	0.54	7.5	Supply Line	8	N
w-m4-mt-008	PEM	Mountrail	0.35	7.5	Supply Line	8	N
w-m4-mt-003	PEM	Mountrail	0.03	7.5	Supply Line	8	N
p-m4-mt-004	PUB	Mountrail	0.19	7.5	Supply Line	8	Y
p-m4-mt-005	PUB	Mountrail	0.12	7.5	Supply Line	8	Y
w-k7-mt-003	PEM	Mountrail	0.39	7.5	Supply Line	8	Y
w-k7-mt-004	PEM	Mountrail	0.30	7.5	Supply Line	8	Y
w-m4-mt-009	PEM	Mountrail	1.36	8	Supply Line	8	N

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-m4-mt-011	PEM	Mountrail	0.18	8	Supply Line	8	N
p-m4-mt-006	PUB	Mountrail	0.24	8	Supply Line	8	Y
p-m4-mt-008	PUB	Mountrail	0.12	8	Supply Line	8	Y
w-k4-mt-009	PEM	Mountrail	0.17	8	Supply Line	9	Y
p-k4-mt-001	PUB	Mountrail	2.88	8	Supply Line	9	Y
w-m4-mt-023	PEM	Mountrail	0.27	8.5	Supply Line	9	N
w-k7-mt-005	PEM	Mountrail	0.37	8.5	Supply Line	9	Y
w-k7-mt-006	PEM	Mountrail	0.31	8.5	Supply Line	9	Y
w-k4-mt-006	PEM	Mountrail	1.47	8.5	Supply Line	9	Y
w-k4-mt-007	PEM	Mountrail	0.03	8.5	Supply Line	9	Y
w-k4-mt-008	PEM	Mountrail	2.37	8.5	Supply Line	9	Y
w-k7-mt-007	PEM	Mountrail	0.45	9	Supply Line	9	Y
w-k7-mt-008	PEM	Mountrail	0.66	9	Supply Line	9	Y
w-k2-mt-010	PEM	Mountrail	1.05	9	Supply Line	10	Y
w-k2-mt-011	PEM	Mountrail	1.24	9	Supply Line	9	Y
w-k2-mt-005	PEM	Mountrail	0.04	9.5	Supply Line	10	Y
w-k2-mt-006	PEM	Mountrail	0.13	9.5	Supply Line	10	Y
w-k2-mt-007	PEM	Mountrail	0.17	9.5	Supply Line	10	Y
w-k2-mt-008	PEM	Mountrail	1.89	9.5	Supply Line	10	Y
w-k2-mt-009	PEM	Mountrail	0.33	9.5	Supply Line	10	Y
w-k2-mt-004	PEM	Mountrail	0.10	10	Supply Line	10	Y
w-k4-mt-014	PEM	Mountrail	0.12	11	Supply Line	11	Y
w-k4-mt-015	PEM	Mountrail	0.18	11	Supply Line	11	Y
w-k4-mt-016	PEM	Mountrail	0.75	11.5	Supply Line	11	Y
w-k4-mt-017	PEM	Mountrail	0.05	11.5	Supply Line	11	Y
w-k4-mt-018	PEM	Mountrail	1.22	11.5	Supply Line	11	Y
w-k4-mt-019	PEM	Mountrail	0.33	11.5	Supply Line	11	Y
w-k2-mt-003	PEM	Mountrail	0.26	12	Supply Line	12	Y
w-k2-mt-022	PEM	Mountrail	0.54	12.5	Supply Line	12	Y
w-k2-mt-023	PEM	Mountrail	0.47	12.5	Supply Line	12	Y
w-k2-mt-024	PEM	Mountrail	0.52	12.5	Supply Line	12	Y
w-k2-mt-025	PEM	Mountrail	0.34	12.5	Supply Line	12	Y
w-k2-mt-026	PEM	Mountrail	0.24	12.5	Supply Line	12	Y
w-k2-mt-027	PEM	Mountrail	0.55	12.5	Supply Line	12	Y
w-k2-mt-028	PEM	Mountrail	0.44	13	Supply Line	13	Y
w-k2-mt-029	PEM	Mountrail	0.59	13	Supply Line	13	Y
w-k2-mt-030	PEM	Mountrail	0.15	13.5	Supply Line	13	Y
w-k2-mt-031	PEM	Mountrail	0.51	13.5	Supply Line	13	Y
w-k2-mt-032	PEM	Mountrail	0.77	14	Supply Line	13	Y
w-k2-mt-034	PEM	Mountrail	0.47	14	Supply Line	13	Y
w-k4-mt-020	PEM	Mountrail	0.19	14.5	Supply Line	14	Y
p-k4-mt-002	PUB	Mountrail	0.53	14.5	Supply Line	14	Y
w-kc4-mt-030	PEM	Mountrail	0.00	15.5	Supply Line	14	N
w-k4-mt-004	PEM	Mountrail	0.10	15.5	Supply Line	15	Y
w-k4-mt-005	PEM	Mountrail	0.06	15.5	Supply Line	15	Y
w-k1-mt-001	PEM	Mountrail	0.27	21	Supply Line	19	Y

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-m3-mt-001	PEM	Mountrail	0.36	22	Supply Line	20	Y
w-k4-mt-001	PEM	Mountrail	0.71	22	Supply Line	20	Y
w-k4-mt-002	PEM	Mountrail	0.10	22.5	Supply Line	20	Y
w-k4-mt-003	PEM	Mountrail	0.05	22.5	Supply Line	21	Y
p-k8-wi-001	PUB	Williams	0.36	23	Supply Line	21	Y
w-k8-wi-001	PEM	Williams	0.37	23	Supply Line	21	Y
w-k4-wi-009	PEM	Williams	0.05	23.5	Supply Line	21	Y
w-k4-wi-006	PEM	Williams	0.14	24	Supply Line	22	Y
w-k4-wi-007	PEM	Williams	0.69	24	Supply Line	22	Y
w-k4-wi-008	PEM	Williams	0.07	24	Supply Line	22	Y
w-k4-wi-011	PEM	Williams	0.13	24	Supply Line	22	Y
w-k4-wi-012	PEM	Williams	0.61	25.5	Supply Line	23	Y
p-k4-wi-001	PUB	Williams	0.21	25.5	Supply Line	23	Y
w-m1-wi-014	PEM	Williams	0.20	27	Supply Line	25	N
w-m1-wi-001	PEM	Williams	0.99	27	Supply Line	24	Y
w-k3-wi-004	PEM	Williams	0.06	27.5	Supply Line	26	Y
w-k3-wi-003	PEM	Williams	0.16	28	Supply Line	26	Y
w-k3-wi-005	PEM	Williams	0.28	28.5	Supply Line	26	Y
w-k3-wi-006	PEM	Williams	0.12	28.5	Supply Line	26	Y
w-k3-wi-007	PEM	Williams	0.06	29.5	Supply Line	27	Y
w-k3-wi-008	PEM	Williams	1.46	30.5	Supply Line	28	Y
w-k3-wi-009	PEM	Williams	0.10	31.5	Supply Line	29	Y
w-k3-wi-010	PEM	Williams	0.38	32	Supply Line	29	Y
w-m1-wi-009	PEM	Williams	0.01	32.5	Supply Line	30	Y
w-k3-wi-013	PEM	Williams	1.06	32.5	Supply Line	30	Y
w-k3-wi-012	PEM	Williams	3.77	33	Supply Line	30	Y
w-k3-wi-011	PEM	Williams	0.36	33.5	Supply Line	31	Y
p-k3-wi-002	PUB	Williams	0.39	34	Supply Line	31	Y
w-k3-wi-014	PEM	Williams	0.07	34.5	Supply Line	31	Y
w-k3-wi-015	PEM	Williams	2.03	35	Supply Line	32	Y
w-k3-wi-016	PEM	Williams	0.42	35	Supply Line	32	Y
w-k3-wi-017	PEM	Williams	0.10	35	Supply Line	32	Y
w-k2-wi-020	PEM	Williams	0.28	36.5	Supply Line	33	Y
w-k2-wi-021	PEM	Williams	0.95	37	Supply Line	33	Y
w-m1-wi-015	PEM	Williams	0.11	37.5	Supply Line	34	Y
w-k4-wi-016	PEM	Williams	0.01	37.5	Supply Line	33	Y
p-k8-wi-002	PUB	Williams	0.40	38	Supply Line	34	Y
w-k8-wi-006	PEM	Williams	0.12	38	Supply Line	34	Y
p-k4-wi-002	PUB	Williams	0.45	39.5	Supply Line	35	Y
w-k4-wi-015	PEM	Williams	0.09	39.5	Supply Line	35	Y
p-m1-wi-004	PUB	Williams	0.02	39.5	Supply Line	35	Y
w-k4-wi-014	PEM	Williams	0.41	42	Supply Line	37	Y
w-k4-wi-013	PEM	Williams	0.19	43	Supply Line	38	Y
w-k4-wi-017	PEM	Williams	0.61	43.5	Supply Line	39	Y
w-k4-wi-018	PEM	Williams	2.51	44	Supply Line	39	Y
w-k4-wi-019	PEM	Williams	0.06	44	Supply Line	39	Y

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-m3-wi-009	PEM	Williams	1.84	45.5	Supply Line	40	N
w-m3-wi-008	PEM	Williams	0.82	46	Supply Line	41	Y
w-k4-wi-020	PEM	Williams	0.01	47.5	Supply Line	42	Y
w-k3-wi-021	PEM	Williams	0.02	48	Supply Line	42	Y
w-k3-wi-022	PEM	Williams	0.07	48	Supply Line	42	Y
w-m3-wi-003	PEM	Williams	0.66	49.5	Supply Line	43	Y
w-m3-wi-004	PEM	Williams	0.66	49.5	Supply Line	43	N
w-m3-wi-005	PEM	Williams	0.44	49.5	Supply Line	43	N
w-k3-wi-020	PEM	Williams	0.15	49.5	Supply Line	45	Y
w-k3-wi-018	PEM	Williams	2.39	51	Supply Line	46	Y
w-k3-wi-019	PEM	Williams	0.34	52	Supply Line	46	Y
w-k3-wi-001	PEM	Williams	0.84	52.5	Supply Line	47	Y
p-k3-wi-001	PUB	Williams	0.61	52.5	Supply Line	47	Y
w-k3-wi-002	PEM	Williams	0.85	53.5	Supply Line	48	Y
w-k4-wi-005	PEM	Williams	1.51	54.5	Supply Line	48	Y
w-k4-wi-003	PEM	Williams	0.29	56.5	Supply Line	50	Y
w-k8-wi-005	PEM	Williams	0.08	60.5	Supply Line	53	Y
w-m1-wi-026	PEM	Williams	0.34	61	Supply Line	54	Y
w-k1-wi-001	PEM	Williams	0.11	61.5	Supply Line	54	Y
w-k1-wi-002	PEM	Williams	3.34	61.5	Supply Line	54	Y
w-k1-wi-003	PEM	Williams	0.02	61.5	Supply Line	54	Y
w-m8-wi-001	PEM	Williams	0.25	62	Supply Line	54	Y
w-m8-wi-002	PEM	Williams	1.34	62	Supply Line	54	N
w-m8-wi-003	PEM	Williams	0.02	62	Supply Line	54	N
w-m8-wi-009	PEM	Williams	0.20	65.5	Supply Line	57	Y
w-m8-wi-010	PEM	Williams	0.24	65.5	Supply Line	57	N
w-m8-wi-011	PEM	Williams	0.04	65.5	Supply Line	57	N
w-m8-wi-012	PEM	Williams	0.03	65.5	Supply Line	57	N
w-m8-wi-013	PEM	Williams	1.02	65.5	Supply Line	57	N
p-m8-wi-001	PUB	Williams	0.13	65.5	Supply Line	57	Y
p-m8-wi-002	PUB	Williams	0.13	65.5	Supply Line	57	Y
w-m8-wi-016	PEM	Williams	0.05	66.5	Supply Line	58	Y
w-m8-wi-018	PEM	Williams	0.08	67.5	Supply Line	59	N
p-m8-wi-003	PUB	Williams	0.24	67.5	Supply Line	59	Y
w-m8-wi-020	PEM	Williams	0.15	68.5	Supply Line	60	N
w-m8-wi-021	PEM	Williams	3.13	69	Supply Line	60	N
w-m8-wi-019	PEM	Williams	0.05	69	Supply Line	60	Y
w-m8-wi-022	PEM	Williams	0.03	69.5	Supply Line	60	N
w-m8-wi-024	PEM	Williams	0.02	71.5	Supply Line	62	Y
w-m8-wi-025	PEM	Williams	0.23	71.5	Supply Line	62	Y
w-m8-wi-026	PEM	Williams	0.04	71.5	Supply Line	62	N
w-m8-wi-027	PEM	Williams	0.02	71.5	Supply Line	62	N
p-m8-wi-004	PUB	Williams	0.16	71.5	Supply Line	62	Y
w-m4-wi-019	PEM	Williams	0.00	72.5	Supply Line	62	N
w-m4-wi-018	PEM	Williams	0.46	72.5	Supply Line	62	Y
w-m4-wi-020	PEM	Williams	0.02	72.5	Supply Line	62	N

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-m4-wi-017	PEM	Williams	0.06	73.5	Supply Line	63	Y
w-m4-wi-016	PEM	Williams	0.78	76	Supply Line	65	Y
w-m4-wi-015	PEM	Williams	0.84	77	Supply Line	66	N
w-m4-wi-014	PEM	Williams	0.89	77.5	Supply Line	66	Y
w-m4-wi-011	PEM	Williams	0.07	78	Supply Line	67	Y
w-m4-wi-012	PEM	Williams	0.11	78.5	Supply Line	67	N
w-m4-wi-013	PEM	Williams	0.13	78.5	Supply Line	67	N
w-k8-wi-004	PEM	Williams	0.05	79.5	Supply Line	68	Y
w-m4-wi-009	PEM	Williams	0.27	80	Supply Line	68	N
w-m4-wi-010	PEM	Williams	0.11	80	Supply Line	68	N
w-m4-wi-005	PEM	Williams	1.13	80.5	Supply Line	69	Y
w-m4-wi-006	PEM	Williams	0.03	80.5	Supply Line	68	N
w-m4-wi-007	PEM	Williams	0.29	80.5	Supply Line	69	N
w-m4-wi-008	PEM	Williams	0.01	80.5	Supply Line	69	N
w-m4-wi-003	PEM	Williams	0.33	83.5	Supply Line	73	Y
w-k4-wi-002	PEM	Williams	0.42	85.5	Supply Line	74	Y
w-k4-wi-001	PEM	Williams	0.69	89.5	Supply Line	78	Y
w-m4-wi-023	PEM	Williams	0.18	91.5	Supply Line	79	N
w-k4-wi-004	PEM	Williams	1.31	91.5	Supply Line	79	Y
w-m4-wi-022	PEM	Williams	0.00	92	Supply Line	80	Y
w-k8-wi-003	PEM	Williams	0.51	92.5	Supply Line	80	Y
w-m1-mc-022	PEM	McKenzie	0.05	103.5	Supply Line	89	Y
w-k3-mk-022	PEM	McKenzie	0.13	103.5	Supply Line	89	Y
w-k3-mk-021	PEM	McKenzie	0.35	104	Supply Line	89	Y
w-m1-mc-025	PEM	McKenzie	0.22	104.5	Supply Line	90	Y
w-k2-mk-001	PEM	McKenzie	0.20	104.5	Supply Line	90	Y
w-k2-mk-003	PEM	McKenzie	0.48	107.5	Supply Line	93	Y
w-k8-mk-001	PEM	McKenzie	0.22	108	Supply Line	93	Y
p-k3-mk-003	PUB	McKenzie	0.51	108.5	Supply Line	94	Y
w-k3-mk-018	PEM	McKenzie	0.06	108.5	Supply Line	93	Y
w-k3-mk-020	PEM	McKenzie	0.15	108.5	Supply Line	94	Y
w-k3-mk-019	PEM	McKenzie	0.40	109	Supply Line	94	Y
w-k8-mk-004	PEM	McKenzie	0.10	116	Supply Line	100	Y
w-k8-mk-002	PEM	McKenzie	0.75	116.5	Supply Line	100	Y
w-k8-mk-003	PEM	McKenzie	0.65	116.5	Supply Line	100	Y
w-k2-mk-002	PEM	McKenzie	0.09	119	Supply Line	102	Y
w-m8-mc-005	PEM	McKenzie	0.15	128.5	Supply Line	110	N
w-m8-mc-004	PEM	McKenzie	5.17	128.5	Supply Line	110	Y
w-k3-mk-017	PEM	McKenzie	2.05	128.5	Supply Line	110	Y
w-m8-mc-001	PEM	McKenzie	0.04	129.5	Supply Line	111	Y
w-m8-mc-002	PEM	McKenzie	0.06	129.5	Supply Line	111	N
w-m8-mc-003	PEM	McKenzie	0.08	129.5	Supply Line	111	Y
w-m1-mc-019	PEM	McKenzie	0.04	130.5	Supply Line	112	Y
w-m3-mc-011	PEM	McKenzie	0.03	135.5	Supply Line	116	Y
w-m3-mc-010	PEM	McKenzie	0.20	136	Supply Line	117	Y
w-m3-mc-009	PEM	McKenzie	0.16	136.5	Supply Line	117	N

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-k2-mk-006	PEM	McKenzie	0.77	137.5	Supply Line	118	Y
w-k2-mk-005	PEM	McKenzie	0.02	138	Supply Line	118	Y
w-k3-mk-015	PEM	McKenzie	0.07	140.5	Supply Line	120	Y
p-k3-mk-002	PUB	McKenzie	0.07	140.5	Supply Line	120	Y
w-k3-mk-016	PEM	McKenzie	0.20	140.5	Supply Line	120	Y
w-k3-mk-014	PEM	McKenzie	0.09	141.5	Supply Line	121	Y
w-m3-mc-008	PEM	McKenzie	1.09	142	Supply Line	121	Y
w-k3-mk-011	PEM	McKenzie	1.81	142.5	Supply Line	122	Y
w-k3-mk-012	PEM	McKenzie	0.65	142.5	Supply Line	122	Y
w-k3-mk-013	PEM	McKenzie	3.11	142.5	Supply Line	122	Y
w-k3-mk-004	PEM	McKenzie	0.49	144	Supply Line	123	Y
w-k3-mk-003	PEM	McKenzie	0.07	144.5	Supply Line	123	Y
w-m1-mc-017	PEM	McKenzie	0.12	145	Supply Line	124	Y
w-m1-mc-018	PEM	McKenzie	0.06	145	Supply Line	124	N
w-k3-mk-002	PEM	McKenzie	0.31	145	Supply Line	124	Y
w-k3-mk-001	PEM	McKenzie	0.05	145.5	Supply Line	124	Y
w-k8-mk-005	PEM	McKenzie	2.62	147.5	Supply Line	126	Y
w-m1-mc-016	PEM	McKenzie	0.73	147.5	Supply Line	126	Y
w-m3-mc-013	PEM	McKenzie	0.12	0	Mainline	127	Y
p-m1-mc-002	PUB	McKenzie	0.17	0.5	Mainline	127	Y
w-m1-mc-013	PEM	McKenzie	0.60	0.5	Mainline	127	Y
p-m1-mc-004	PUB	McKenzie	0.37	0.5	Mainline	127	Y
w-m1-mc-012	PEM	McKenzie	0.05	0.5	Mainline	127	N
p-m1-mc-003	PUB	McKenzie	0.06	0.5	Mainline	127	Y
w-m1-mc-014	PEM	McKenzie	0.03	0.5	Mainline	127	N
w-m1-mc-010	PEM	McKenzie	0.09	1.5	Mainline	128	Y
w-m1-mc-011	PEM	McKenzie	0.05	1.5	Mainline	128	N
w-k3-mk-005	PEM	McKenzie	0.04	2.5	Mainline	128	Y
w-m1-mc-008	PEM	McKenzie	0.11	4	Mainline	130	Y
w-k3-mk-006	PEM	McKenzie	1.03	4	Mainline	130	Y
p-k3-mk-001	PUB	McKenzie	0.09	4	Mainline	130	Y
w-k3-mk-007	PEM	McKenzie	0.11	5	Mainline	131	Y
w-m1-mc-009	PEM	McKenzie	1.06	5	Mainline	130	Y
p-m1-mc-001	PUB	McKenzie	0.29	5	Mainline	130	Y
w-k3-mk-008	PEM	McKenzie	0.09	5.5	Mainline	131	Y
w-k3-mk-010	PEM	McKenzie	0.05	6	Mainline	131	Y
w-k3-mk-009	PEM	McKenzie	1.57	6.5	Mainline	132	Y
w-k3-du-002	PEM	Dunn	0.10	12	Mainline	136	Y
w-k3-du-003	PEM	Dunn	0.07	12	Mainline	136	Y
w-k3-du-004	PEM	Dunn	0.04	12.5	Mainline	137	Y
w-m1-du-007	PFO	Dunn	0.34	16.5	Mainline	140	Y
w-m1-du-002	PFO	Dunn	4.11	16.5	Mainline	140	N
w-m8-du-003	PEM	Dunn	0.07	23	Mainline	145	Y
w-m8-du-004	PEM	Dunn	0.03	23	Mainline	145	N
w-k1-du-004	PEM	Dunn	0.36	27	Mainline	148	Y
w-m1-du-003	PEM	Dunn	0.07	32	Mainline	152	N

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-m1-du-004	PEM	Dunn	0.42	32	Mainline	152	Y
w-m3-du-004	PEM	Dunn	0.04	34	Mainline	154	Y
w-m4-du-012	PEM	Dunn	0.23	36.5	Mainline	156	Y
w-k1-du-002	PEM	Dunn	0.20	37.5	Mainline	157	Y
w-k1-du-001	PEM	Dunn	2.49	38	Mainline	157	Y
w-k3-du-006	PEM	Dunn	0.50	41	Mainline	160	Y
w-k3-du-007	PEM	Dunn	0.18	41	Mainline	160	Y
w-k1-du-003	PEM	Dunn	1.11	44	Mainline	162	Y
w-k3-du-008	PEM	Dunn	0.20	45	Mainline	163	Y
w-k3-du-009	PEM	Dunn	0.61	46.5	Mainline	164	Y
w-m4-du-008	PEM	Dunn	0.95	47	Mainline	165	N
w-m4-du-009	PEM	Dunn	0.07	47	Mainline	165	N
w-k3-du-010	PEM	Dunn	0.18	47	Mainline	165	Y
w-m4-du-007	PEM	Dunn	0.15	47.5	Mainline	165	Y
w-m3-du-001	PEM	Dunn	0.07	48	Mainline	166	Y
w-m3-du-002	PEM	Dunn	0.04	48	Mainline	166	N
p-m8-du-001	PUB	Dunn	0.59	49	Mainline	166	Y
w-m8-du-007	PEM	Dunn	1.04	49	Mainline	167	Y
w-k3-du-005	PEM	Dunn	0.60	50.5	Mainline	168	Y
w-m4-du-004	PEM	Dunn	1.13	51	Mainline	168	Y
w-m4-du-005	PEM	Dunn	0.33	51	Mainline	168	N
w-m1-du-006	PEM	Dunn	0.36	52.5	Mainline	170	Y
w-m1-du-005	PEM	Dunn	0.06	53.5	Mainline	170	Y
w-m4-du-001	PEM	Dunn	0.07	54	Mainline	171	Y
w-m1-du-001	PEM	Dunn	0.27	54	Mainline	171	Y
w-k3-du-011	PEM	Dunn	0.63	58	Mainline	174	Y
w-k3-du-012	PEM	Dunn	0.18	58	Mainline	174	Y
w-k3-du-001	PEM	Dunn	0.42	60	Mainline	176	Y
w-m4-du-003	PFO	Dunn	0.03	60.5	Mainline	176	Y
w-k7-me-002	PEM	Mercer	0.24	63	Mainline	178	Y
w-m3-me-010	PEM	Mercer	0.04	66.5	Mainline	181	Y
w-k4-me-001	PEM	Mercer	0.22	69	Mainline	183	Y
w-k4-me-002	PEM	Mercer	0.23	69	Mainline	183	Y
w-k4-me-003	PEM	Mercer	0.67	69	Mainline	183	Y
w-k4-me-005	PEM	Mercer	0.02	69	Mainline	183	Y
w-k3-me-020	PEM	Mercer	0.17	69.5	Mainline	183	Y
w-k3-me-022	PEM	Mercer	0.35	69.5	Mainline	183	Y
w-k3-me-023	PEM	Mercer	0.30	69.5	Mainline	183	Y
w-k3-me-024	PEM	Mercer	0.41	69.5	Mainline	183	Y
w-k4-me-006	PEM	Mercer	0.09	71.5	Mainline	185	Y
w-k3-me-015	PEM	Mercer	0.21	73	Mainline	186	Y
w-k3-me-016	PEM	Mercer	0.82	73	Mainline	186	Y
w-k3-me-025	PEM	Mercer	0.22	73	Mainline	186	Y
w-k3-me-014	PEM	Mercer	0.18	74	Mainline	187	Y
w-k3-me-012	PEM	Mercer	0.80	74.5	Mainline	188	Y
w-k3-me-013	PEM	Mercer	1.10	74.5	Mainline	187	Y

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-k3-me-008	PEM	Mercer	0.12	75.5	Mainline	188	Y
w-k3-me-009	PEM	Mercer	0.23	76	Mainline	189	Y
w-m3-me-002	PEM	Mercer	0.02	76.5	Mainline	189	Y
w-k3-me-006	PEM	Mercer	0.56	79	Mainline	191	Y
w-k3-me-004	PEM	Mercer	0.45	79.5	Mainline	192	Y
w-k3-me-005	PEM	Mercer	0.59	79.5	Mainline	192	Y
w-k3-me-007	PEM	Mercer	0.03	79.5	Mainline	192	Y
w-k3-me-003	PEM	Mercer	0.16	80	Mainline	192	Y
w-k3-me-001	PEM	Mercer	0.01	80.5	Mainline	192	Y
w-k3-me-002	PEM	Mercer	0.09	80.5	Mainline	192	Y
w-m1-me-002	PEM	Mercer	0.00	82.5	Mainline	193	Y
w-k2-me-001	PEM	Mercer	0.02	84	Mainline	195	Y
w-k2-me-002	PEM	Mercer	0.01	84	Mainline	195	Y
w-m1-me-001	PEM	Mercer	1.96	84	Mainline	195	Y
w-m3-me-005	PEM	Mercer	0.02	84.5	Mainline	195	Y
w-m1-me-008	PEM	Mercer	0.05	84.5	Mainline	195	Y
w-m1-me-009	PEM	Mercer	0.03	84.5	Mainline	195	Y
w-m1-me-007	PEM	Mercer	0.09	85	Mainline	196	Y
w-m1-me-010	PEM	Mercer	0.01	85	Mainline	196	Y
p-m1-me-001	PUB	Mercer	0.08	85	Mainline	196	Y
w-m1-me-011	PEM	Mercer	0.15	85	Mainline	196	Y
p-m1-me-002	PUB	Mercer	0.03	86	Mainline	196	Y
w-m1-me-012	PEM	Mercer	0.38	86	Mainline	196	Y
w-m1-me-013	PEM	Mercer	0.12	86	Mainline	196	Y
w-m1-me-014	PEM	Mercer	0.19	86	Mainline	196	Y
w-m1-me-016	PEM	Mercer	0.14	86	Mainline	197	Y
w-m1-me-015	PEM	Mercer	3.54	87	Mainline	197	Y
w-k3-me-017	PEM	Mercer	0.17	87.5	Mainline	198	Y
p-m3-me-001	PUB	Mercer	0.06	88	Mainline	198	Y
w-m3-me-008	PEM	Mercer	0.13	88	Mainline	198	Y
w-k4-me-007	PEM	Mercer	0.04	88.5	Mainline	199	Y
w-k1-me-001	PEM	Mercer	0.05	89.5	Mainline	200	Y
w-m3-me-009	PEM	Mercer	0.84	90	Mainline	200	Y
w-m4-me-001	PEM	Mercer	1.69	91	Mainline	201	Y
w-m1-mo-068	PEM	Morton	2.27	91	Mainline	201	Y
w-m1-mo-081	PEM	Morton	1.30	92.5	Mainline	202	Y
w-m1-mo-079	PSS	Morton	0.37	93	Mainline	202	Y
w-m1-mo-080	PEM	Morton	1.76	93	Mainline	202	Y
p-m1-mo-008	PUB	Morton	0.05	93	Mainline	202	Y
w-m4-mo-003	PEM	Morton	0.16	97	Mainline	206	Y
w-m4-mo-004	PEM	Morton	0.25	97	Mainline	206	N
w-m4-mo-005	PEM	Morton	0.15	97	Mainline	206	N
w-m1-mo-064	PEM	Morton	0.54	98	Mainline	206	Y
w-m1-mo-069	PEM	Morton	0.88	99.5	Mainline	208	Y
w-m1-mo-070	PEM	Morton	0.09	99.5	Mainline	208	Y
w-m1-mo-071	PEM	Morton	0.19	99.5	Mainline	208	Y

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-m1-mo-072	PEM	Morton	0.15	99.5	Mainline	208	Y
w-m1-mo-076	PEM	Morton	0.05	99.5	Mainline	208	Y
w-m1-mo-003	PEM	Morton	0.26	101	Mainline	209	Y
w-m4-mo-009	PEM	Morton	0.06	102	Mainline	210	N
w-m4-mo-008	PEM	Morton	0.02	102	Mainline	210	Y
w-m1-mo-004	PEM	Morton	0.20	102	Mainline	210	Y
w-m1-mo-005	PEM	Morton	0.06	102	Mainline	210	Y
w-m1-mo-006	PEM	Morton	0.01	102.5	Mainline	210	Y
w-m1-mo-007	PEM	Morton	0.09	103	Mainline	211	Y
w-m1-mo-008	PEM	Morton	0.14	103	Mainline	211	Y
w-m1-mo-009	PEM	Morton	0.04	103.5	Mainline	211	Y
w-m1-mo-010	PEM	Morton	0.27	104	Mainline	212	Y
w-m4-mo-001	PEM	Morton	0.11	106.5	Mainline	213	Y
w-m4-mo-002	PEM	Morton	0.01	106.5	Mainline	213	N
w-m1-mo-011	PEM	Morton	0.29	106.5	Mainline	213	Y
w-m1-mo-012	PEM	Morton	1.71	107.5	Mainline	214	Y
w-m1-mo-013	PEM	Morton	0.30	109	Mainline	215	Y
w-m1-mo-067	PEM	Morton	0.02	110.5	Mainline	217	Y
w-k3-mo-014	PEM	Morton	0.02	112	Mainline	218	Y
w-k3-mo-015	PEM	Morton	1.64	112	Mainline	218	Y
w-m1-mo-065	PEM	Morton	0.72	114	Mainline	220	Y
w-m1-mo-066	PEM	Morton	0.27	114.5	Mainline	220	Y
w-m1-mo-014	PEM	Morton	0.57	117.5	Mainline	222	Y
w-m1-mo-015	PEM	Morton	0.17	117.5	Mainline	222	Y
w-m1-mo-016	PEM	Morton	0.01	117.5	Mainline	222	Y
p-m1-mo-001	PUB	Morton	0.19	117.5	Mainline	222	Y
p-m1-mo-002	PUB	Morton	0.01	117.5	Mainline	222	Y
w-m1-mo-017	PEM	Morton	1.54	121	Mainline	225	Y
w-m1-mo-018	PEM	Morton	0.79	121	Mainline	225	Y
w-m1-mo-019	PEM	Morton	1.08	121	Mainline	225	Y
w-m1-mo-020	PEM	Morton	0.05	121.5	Mainline	226	Y
w-m1-mo-021	PEM	Morton	0.03	121.5	Mainline	226	Y
w-m1-mo-022	PEM	Morton	0.67	122	Mainline	226	Y
w-m1-mo-023	PEM	Morton	0.24	122	Mainline	226	Y
w-m1-mo-024	PEM	Morton	2.71	122	Mainline	226	Y
w-m1-mo-025	PEM	Morton	0.04	122	Mainline	226	Y
p-m1-mo-004	PUB	Morton	0.05	122	Mainline	226	Y
p-m1-mo-003	PUB	Morton	0.03	122	Mainline	226	Y
p-m1-mo-005	PUB	Morton	0.00	122	Mainline	226	Y
w-k9-mo-001	PEM	Morton	0.02	125	Mainline	228	Y
w-k9-mo-002	PEM	Morton	0.13	125	Mainline	228	Y
w-k9-mo-003	PEM	Morton	0.17	125	Mainline	228	Y
w-k9-mo-004	PEM	Morton	0.14	125.5	Mainline	229	Y
p-k9-mo-001	PUB	Morton	0.10	126	Mainline	229	Y
w-m8-mo-001	PEM	Morton	0.03	131	Mainline	233	Y
w-k3-mo-016	PEM	Morton	0.05	135	Mainline	237	Y

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-m1-mo-027	PEM	Morton	0.02	137.5	Mainline	239	Y
w-m1-mo-028	PEM	Morton	0.11	137.5	Mainline	239	Y
w-m1-mo-029	PEM	Morton	0.98	137.5	Mainline	239	Y
w-m1-mo-030	PEM	Morton	0.01	137.5	Mainline	239	Y
w-m1-mo-031	PEM	Morton	0.18	137.5	Mainline	239	Y
w-m1-mo-033	PEM	Morton	0.08	138	Mainline	239	Y
w-m1-mo-034	PEM	Morton	0.01	138	Mainline	239	Y
w-m1-mo-035	PEM	Morton	0.01	138	Mainline	239	Y
w-m1-mo-036	PEM	Morton	0.02	138	Mainline	239	Y
w-m1-mo-037	PEM	Morton	0.01	138	Mainline	239	Y
w-m1-mo-038	PEM	Morton	0.03	138	Mainline	239	Y
w-m1-mo-039	PEM	Morton	0.05	138	Mainline	239	Y
w-m1-mo-040	PEM	Morton	0.03	138	Mainline	239	Y
w-m1-mo-041	PEM	Morton	0.03	138	Mainline	239	Y
w-m1-mo-042	PEM	Morton	0.01	138	Mainline	239	Y
w-m1-mo-043	PEM	Morton	0.00	138	Mainline	239	Y
w-m1-mo-044	PEM	Morton	0.02	138	Mainline	239	Y
w-m1-mo-045	PEM	Morton	0.02	138	Mainline	239	Y
w-m1-mo-046	PEM	Morton	0.03	138	Mainline	239	Y
w-m1-mo-049	PEM	Morton	0.06	138	Mainline	239	Y
w-m1-mo-048	PEM	Morton	0.08	138	Mainline	239	Y
w-m1-mo-032	PEM	Morton	0.50	138	Mainline	239	Y
w-m8-mo-005	PEM	Morton	0.02	138.5	Mainline	240	Y
w-m8-mo-006	PEM	Morton	0.01	138.5	Mainline	240	N
w-m1-mo-050	PEM	Morton	3.12	139	Mainline	240	Y
w-m8-mo-002	PEM	Morton	0.02	139.5	Mainline	240	Y
w-m8-mo-007	PEM	Morton	0.09	139.5	Mainline	240	N
w-m1-mo-051	PEM	Morton	0.05	139.5	Mainline	240	Y
w-m1-mo-061	PEM	Morton	0.14	140	Mainline	241	Y
w-k3-mo-017	PEM	Morton	0.08	140	Mainline	241	Y
p-m1-mo-006	PUB	Morton	0.01	140.5	Mainline	241	Y
w-m1-mo-053	PEM	Morton	0.05	140.5	Mainline	241	Y
w-m1-mo-054	PEM	Morton	0.03	140.5	Mainline	241	Y
w-m1-mo-055	PEM	Morton	0.02	140.5	Mainline	241	Y
w-m1-mo-056	PEM	Morton	0.02	140.5	Mainline	241	Y
w-m1-mo-057	PEM	Morton	0.02	140.5	Mainline	241	Y
w-m1-mo-058	PEM	Morton	0.01	140.5	Mainline	241	Y
w-m1-mo-059	PEM	Morton	0.22	140.5	Mainline	241	Y
w-m1-mo-060	PEM	Morton	0.03	140.5	Mainline	241	Y
w-k3-mo-006	PEM	Morton	0.41	141	Mainline	242	Y
w-k3-mo-007	PEM	Morton	0.07	141	Mainline	242	Y
w-k3-mo-008	PEM	Morton	0.23	141	Mainline	242	Y
w-k3-mo-009	PEM	Morton	0.05	141	Mainline	242	Y
w-k3-mo-010	PEM	Morton	0.31	141	Mainline	242	Y
w-m1-mo-052	PEM	Morton	0.07	141	Mainline	242	Y
w-k3-mo-011	PEM	Morton	0.20	141.5	Mainline	242	Y

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-k3-mo-012	PEM	Morton	0.16	141.5	Mainline	242	Y
w-m8-mo-009	PEM	Morton	0.44	142	Mainline	242	Y
w-k1-mo-001	PEM	Morton	1.27	144.5	Mainline	245	Y
w-m4-mo-016	PEM	Morton	1.11	145	Mainline	245	Y
w-m4-mo-017	PEM	Morton	0.00	145	Mainline	245	N
w-k2-mo-001	PEM	Morton	0.47	145.5	Mainline	245	Y
w-k4-mo-004	PEM	Morton	0.02	148	Mainline	247	Y
w-k3-mo-003	PEM	Morton	0.02	152.5	Mainline	252	Y
w-k3-mo-004	PEM	Morton	0.05	152.5	Mainline	251	Y
p-k3-mo-001	PUB	Morton	0.34	152.5	Mainline	251	Y
w-k3-mo-002	PEM	Morton	1.61	153	Mainline	252	Y
w-k4-mo-001	PEM	Morton	0.01	155	Mainline	253	Y
w-k4-mo-002	PEM	Morton	0.10	155.5	Mainline	254	Y
w-k4-mo-003	PEM	Morton	0.50	156	Mainline	254	Y
p-k4-mo-001	PUB	Morton	0.17	156	Mainline	254	Y
w-k3-mo-001	PEM	Morton	0.36	159.5	Mainline	257	Y
w-m1-mo-002	PEM	Morton	0.02	162	Mainline	259	Y
w-k3-em-001	PEM	Emmons	1.44	168.5	Mainline	265	Y
w-k3-em-002	PEM	Emmons	0.14	169	Mainline	265	Y
w-k2-em-001	PEM	Emmons	0.21	170.5	Mainline	267	Y
w-k3-em-004	PEM	Emmons	0.18	175.5	Mainline	271	Y
w-k2-em-002	PEM	Emmons	0.66	183.5	Mainline	277	Y
w-k2-em-003	PEM	Emmons	1.30	185	Mainline	279	Y
w-k9-em-001	PEM	Emmons	3.71	185.5	Mainline	279	Y
w-k1-em-003	PEM	Emmons	0.58	185.5	Mainline	279	Y
w-k1-em-004	PEM	Emmons	0.36	185.5	Mainline	279	Y
w-k2-em-004	PEM	Emmons	2.29	185.5	Mainline	279	Y
w-k1-em-002	PEM	Emmons	0.14	187	Mainline	280	Y
w-k3-em-008	PEM	Emmons	6.00	187	Mainline	281	Y
w-k3-em-009	PEM	Emmons	0.27	187.5	Mainline	281	Y
w-k3-em-010	PEM	Emmons	0.95	187.5	Mainline	281	Y
w-k3-em-011	PEM	Emmons	1.25	187.5	Mainline	281	Y
w-k2-em-005	PEM	Emmons	0.40	191.5	Mainline	284	Y
w-k1-em-005	PEM	Emmons	0.68	191.5	Mainline	284	Y
w-kc5-em-010	PEM	Emmons	0.03	193.5	Mainline	286	Y
w-k1-em-006	PEM	Emmons	0.02	198.5	Mainline	289	Y
w-k1-em-007	PEM	Emmons	0.03	198.5	Mainline	289	Y
w-kc4-em-001	PFO	Emmons	0.04	199.5	Mainline	290	Y
p-kc4-em-001	PUB	Emmons	0.15	199.5	Mainline	290	Y
w-k3-em-005	PEM	Emmons	0.08	200.5	Mainline	291	Y
p-k3-em-001	PEM	Emmons	0.25	201	Mainline	291	Y
w-k3-em-006	PEM	Emmons	0.07	201	Mainline	291	Y
p-kc4-em-002	PUB	Emmons	0.04	202	Mainline	292	Y
w-k2-em-007	PEM	Emmons	0.04	202	Mainline	292	Y
w-k2-em-006	PEM	Emmons	0.06	203	Mainline	293	Y
p-m4-em-001	PUB	Emmons	0.06	204	Mainline	294	Y

**APPENDIX B. WETLAND FEATURE LIST**

<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-k7-em-001	PEM	Emmons	0.05	204	Mainline	294	Y
w-k7-em-002	PEM	Emmons	0.09	204	Mainline	294	Y
p-kc4-em-003	PUB	Emmons	0.34	206	Mainline	296	Y
<b>Facility Features</b>							
<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>Area (acres)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>	<b>Corps Form</b>
w-k2-mk-004	PEM	McKenzie	0.07	0	Facility	127	Y

**APPENDIX C. USACE WETLAND  
DETERMINATION FORMS**

**(Available Upon Request)**

## **APPENDIX D. WATERBODY FEATURE LIST**

**APPENDIX D. WATERBODY FEATURE LIST**

<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>OHWL (ft)</b>	<b>Length (ft)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>
s-k3-mt-001	R4SB	Mountrail	0.5	475.1	2	Supply Line	2
s-k2-mt-001	R4SB	Mountrail	0.5	581.8	2.5	Supply Line	3
s-k2-mt-002	R4SB	Mountrail	0.5	885.9	3	Supply Line	3
s-m4-mt-001	R6	Mountrail	2	223.7	7.5	Supply Line	8
s-m4-mt-002	R6	Mountrail	3	482.8	8	Supply Line	8
s-k2-mt-003	R2UB	Mountrail	1	202.9	13.5	Supply Line	13
s-kc4-mt-001	R6	Mountrail	8	129.8	14.5	Supply Line	14
s-k1-mt-001	R6	Mountrail	1	668.3	17	Supply Line	16
s-k3-wi-003	R4SB	Williams	1	925.3	27.5	Supply Line	26
s-k3-wi-004	R4SB	Williams	0.5	64.3	28.5	Supply Line	26
s-k3-wi-005	R4SB	Williams	0.5	330.8	31.5	Supply Line	29
s-k3-wi-006	R4SB	Williams	1.75	911.7	34.5	Supply Line	31
s-k2-wi-004	R2UB	Williams	1	1234.9	35	Supply Line	32
s-k2-wi-001	R2UB	Williams	1	252.5	35.5	Supply Line	32
s-k2-wi-003	R2UB	Williams	3.5	1003.3	35.5	Supply Line	32
s-k2-wi-002	R2UB	Williams	2	2992.5	36	Supply Line	32
s-m1-wi-005	R6	Williams	1	266.6	36.5	Supply Line	33
s-k2-wi-005	R4SB	Williams	2	1443.0	37	Supply Line	33
s-kc4-wi-001	R6	Williams	1	489.2	48	Supply Line	42
s-k3-wi-008	R4SB	Williams	1	795.0	48	Supply Line	42
s-k3-wi-007	R4SB	Williams	1	258.6	51	Supply Line	46
s-m8-wi-001	R6	Williams	1	0.2	57.5	Supply Line	50
s-k1-wi-001	R2UB	Williams	4	1878.5	61	Supply Line	54
s-k1-wi-002	R6	Williams	1	913.6	61.5	Supply Line	54
s-k1-wi-003	R2UB	Williams	2	915.8	61.5	Supply Line	54
s-m8-wi-005	R6	Williams	1	411.4	62	Supply Line	54
s-m8-wi-007	R6	Williams	4	463.7	66.5	Supply Line	58
s-m8-wi-008	R6	Williams	1	665.2	66.5	Supply Line	58
s-m8-wi-009	R6	Williams	2	637.9	67.5	Supply Line	59
s-m8-wi-010	R6	Williams	4	10.4	67.5	Supply Line	59
s-m8-wi-011	R6	Williams	2	266.9	70	Supply Line	60
s-m8-wi-012	R6	Williams	1	352.6	70.5	Supply Line	61
s-m8-wi-013	R6	Williams	6	519.2	70.5	Supply Line	61
s-m8-wi-014	R6	Williams	2	265.2	71	Supply Line	61
s-m8-wi-015	R6	Williams	6	390.6	71.5	Supply Line	62
s-m8-wi-016	R4SB	Williams	2	219.7	71.5	Supply Line	62
s-m4-wi-010	R4SB	Williams	15	1451.1	72.5	Supply Line	62
s-m4-wi-009	R6	Williams	3	635.4	77.5	Supply Line	66
s-m4-wi-007	R6	Williams	5	404.1	80	Supply Line	68
s-m4-wi-008	R6	Williams	1	263.8	80	Supply Line	68
s-m4-wi-001	R6	Williams	2	462.5	83	Supply Line	71
s-m4-wi-002	R6	Williams	3	119.9	83	Supply Line	71
s-m4-wi-004	R6	Williams	4	226.2	83	Supply Line	71
s-m4-wi-005	R6	Williams	3	837.2	83	Supply Line	73
s-m4-wi-006	R6	Williams	2	214.1	83.5	Supply Line	73
s-k8-wi-001	R2UB	Williams	3	806.5	84	Supply Line	73

**APPENDIX D. WATERBODY FEATURE LIST**

<b>Feature ID</b>	<b>Cowardin</b>	<b>County</b>	<b>OHWB (ft)</b>	<b>Length (ft)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>
s-k4-wi-001	R2UB	Williams	5	901.0	89	Supply Line	77
s-k4-wi-003	R2UB	Williams	2.5	1050.9	91	Supply Line	79
s-m1-wi-001	Ditch	Williams	20	526.3	94	Supply Line	81
s-m1-wi-002	R6	Williams	1.5	289.3	94	Supply Line	81
s-k8-wi-002	R2UB	Williams	4	1173.5	94.5	Supply Line	82
s-k2-mk-001	R2UB	McKenzie	20	414.7	97	Supply Line	84
s-k2-mk-002	R4SB	McKenzie	1.25	1497.6	97	Supply Line	84
s-m4-mc-003	R6	McKenzie	3	44.4	97.5	Supply Line	84
s-k2-mk-004	R4SB	McKenzie	10	1004.2	104.5	Supply Line	90
s-k3-mk-016	R6	McKenzie	0.3	394.1	108	Supply Line	93
s-k3-mk-015	R6	McKenzie	0.5	301.3	108.5	Supply Line	93
s-k2-mk-007	R4SB	McKenzie	0.5	423.2	115	Supply Line	99
s-k2-mk-008	R4SB	McKenzie	0.5	564.7	115	Supply Line	99
s-k2-mk-006	R4SB	McKenzie	1	561.7	116	Supply Line	100
s-k2-mk-005	R2UB	McKenzie	4	1563.4	119	Supply Line	102
s-k3-mk-011	R2UB	McKenzie	30	958.7	124.5	Supply Line	107
s-k3-mk-012	R6	McKenzie	0.5	407.6	125	Supply Line	107
s-m8-mc-003	R4SB	McKenzie	2	196.4	128.5	Supply Line	110
s-k3-mk-013	R2UB	McKenzie	4	2540.0	128.5	Supply Line	110
s-m8-mc-001	R2UB	McKenzie	20	1063.6	129.5	Supply Line	111
s-m1-mc-015	Ditch	McKenzie	5	402.8	130.5	Supply Line	112
s-m3-mc-009	R2UB	McKenzie	15	859.0	136.5	Supply Line	117
s-m1-mc-002	R6	McKenzie	1	109.7	137	Supply Line	117
s-k2-mk-011	R4SB	McKenzie	0.5	416.3	137.5	Supply Line	118
s-k2-mk-010	R4SB	McKenzie	0.5	101.5	138.5	Supply Line	118
s-k3-mk-009	R2UB	McKenzie	5	833.3	140.5	Supply Line	120
s-k3-mk-010	R4SB	McKenzie	0.3	55.8	140.5	Supply Line	120
s-k3-mk-006	R4SB	McKenzie	1	1119.3	141	Supply Line	121
s-k3-mk-008	R2US	McKenzie	4	2573.5	141	Supply Line	121
s-k3-mk-007	R2UB	McKenzie	1.5	167.3	141	Supply Line	121
s-m3-mc-006	R2UB	McKenzie	3	468.1	141.5	Supply Line	121
s-k3-mk-005	R2US	McKenzie	3	3013.0	141.5	Supply Line	121
s-m3-mc-005	R2UB	McKenzie	8	1499.0	142	Supply Line	121
s-k3-mk-004	R2UB	McKenzie	2.5	957.7	142.5	Supply Line	122
s-k3-mk-003	R4SB	McKenzie	2	503.7	144.5	Supply Line	124
s-k3-mk-002	R4SB	McKenzie	1.5	413.7	145	Supply Line	124
s-k3-mk-001	R2UB	McKenzie	1.5	655.3	145.5	Supply Line	124
s-m1-mc-009	R6	McKenzie	1	141.1	147.5	Supply Line	126
s-m1-mc-010	R6	McKenzie	1.5	194.3	147.5	Supply Line	126
s-m1-mc-011	R6	McKenzie	1	98.4	147.5	Supply Line	126
s-m1-mc-012	R6	McKenzie	1	673.6	148	Supply Line	126
s-m1-mc-013	R6	McKenzie	1.5	96.7	148	Supply Line	126
s-m1-mc-008	R6	McKenzie	1	369.5	0.5	Mainline	127
s-m1-mc-005	R6	McKenzie	3	333.9	5	Mainline	131
s-m1-mc-007	R4SB	McKenzie	2	327.5	5	Mainline	130
s-k3-mk-014	R4SB	McKenzie	0.5	91.7	6	Mainline	131

**APPENDIX D. WATERBODY FEATURE LIST**

<b>Feature ID</b>	<b>Cowardin</b>	<b>County</b>	<b>OHWM (ft)</b>	<b>Length (ft)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>
s-m1-mc-006	R4SB	McKenzie	6	1026.8	6.5	Mainline	132
s-m1-mc-003	R6	McKenzie	1	111.5	7.5	Mainline	133
s-k3-du-006	R4SB	Dunn	1	107.8	11	Mainline	135
s-k3-du-007	R2UB	Dunn	0.5	879.8	11	Mainline	136
s-k3-du-010	R2UB	Dunn	0.5	400.7	12.5	Mainline	137
s-m1-du-009	R6	Dunn	1.5	576.9	14.5	Mainline	138
s-m1-du-008	R2UB	Dunn	200	860.8	16.5	Mainline	140
s-m8-du-005	R6	Dunn	3	934.1	23	Mainline	145
s-k1-du-005	R2UB	Dunn	3	90.6	27	Mainline	148
s-k1-du-004	R2UB	Dunn	3	1003.4	27.5	Mainline	149
s-k1-du-003	R4SB	Dunn	1	943.9	28	Mainline	149
s-k3-du-017	R6	Dunn	0.5	164.1	28	Mainline	149
s-k3-du-018	R6	Dunn	0.5	196.6	28	Mainline	149
s-k3-du-019	R4SB	Dunn	0.5	662.6	28.5	Mainline	149
s-k1-du-006	R4SB	Dunn	1	116.3	29.5	Mainline	150
s-m1-du-003	R2UB	Dunn	5	1094.0	32	Mainline	152
s-m1-du-004	R4SB	Dunn	1	567.4	32	Mainline	152
s-m1-du-010	R4SB	Dunn	1.5	451.0	32	Mainline	152
s-m3-du-001	R4SB	Dunn	25	950.7	34	Mainline	154
s-m3-du-002	R6	Dunn	6	72.9	34	Mainline	154
s-m4-du-013	R6	Dunn	2	252.6	36	Mainline	155
s-k1-du-001	R4SB	Dunn	1	1189.3	37.5	Mainline	157
s-k1-du-002	R4SB	Dunn	1.5	991.9	37.5	Mainline	157
s-k3-du-011	R6	Dunn	6	1333.7	41	Mainline	160
s-m4-du-011	R6	Dunn	3	474.8	42.5	Mainline	161
s-k3-du-013	R2UB	Dunn	4	1819.2	46	Mainline	164
s-k3-du-014	R4SB	Dunn	0.5	1111.4	46	Mainline	164
s-k3-du-012	R2UB	Dunn	4	1770.7	46	Mainline	164
s-m4-du-010	R4SB	Dunn	19	927.9	47.5	Mainline	165
s-m8-du-014	R6	Dunn	3	1708.7	48.5	Mainline	166
s-m4-du-009	R4SB	Dunn	14	1616.8	50.5	Mainline	168
s-m4-du-008	R4SB	Dunn	16	957.1	51	Mainline	168
s-m3-du-003	R4SB	Dunn	8	18.4	52.5	Mainline	170
s-m4-du-004	R6	Dunn	3	185.5	52.5	Mainline	169
s-m1-du-005	R4SB	Dunn	4	159.9	52.5	Mainline	170
s-m1-du-006	R4SB	Dunn	1	497.6	52.5	Mainline	170
s-m1-du-001	R4SB	Dunn	1.5	533.6	54	Mainline	171
s-k7-du-001	R4SB	Dunn	2	849.2	54.5	Mainline	171
s-m1-du-002	R2UB	Dunn	4	919.2	56	Mainline	172
s-k3-du-015	R2UB	Dunn	1	2285.9	59	Mainline	175
s-k3-du-016	R2UB	Dunn	1.5	1689.6	59	Mainline	175
s-m4-du-005	R6	Dunn	3	562.6	60.5	Mainline	176
s-m4-du-006	R6	Dunn	5	525.5	60.5	Mainline	176
s-m4-du-007	R6	Dunn	2	181.8	60.5	Mainline	176
s-k3-du-002	R2US	Dunn	3	1396.5	60.5	Mainline	176
s-k3-du-003	R2UB	Dunn	1.5	1171.9	61.5	Mainline	177

**APPENDIX D. WATERBODY FEATURE LIST**

<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>OHWL (ft)</b>	<b>Length (ft)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>
s-k3-du-004	R2UB	Dunn	3	596.6	61.5	Mainline	177
s-k3-du-005	R2US	Dunn	2	1177.7	61.5	Mainline	177
s-k4-me-002	R2UB	Mercer	0.5	277.3	63.5	Mainline	179
s-k4-me-003	R2UB	Mercer	2.5	613.4	63.5	Mainline	179
s-k7-me-002	R4SB	Mercer	1	353.8	63.5	Mainline	179
s-k3-me-016	R6	Mercer	0.5	172.6	70.5	Mainline	184
s-k3-me-017	R4SB	Mercer	0.5	960.6	72	Mainline	185
s-k4-me-006	R2UB	Mercer	0.5	347.7	73	Mainline	186
s-k3-me-007	R2UB	Mercer	10	844.8	73.5	Mainline	187
s-k3-me-006	R2UB	Mercer	2	789.5	74	Mainline	187
s-k3-me-003	R2UB	Mercer	0.5	66.8	75.5	Mainline	188
s-k3-me-012	R6	Mercer	0.5	543.2	76	Mainline	189
s-k3-me-013	R4SB	Mercer	1.5	1087.3	76.5	Mainline	189
s-k3-me-014	R4SB	Mercer	2	1734.3	76.5	Mainline	189
s-k3-me-015	R6	Mercer	0.5	516.9	77	Mainline	190
s-k3-me-001	R2UB	Mercer	5	134.4	79.5	Mainline	192
s-k3-me-002	R2UB	Mercer	1.5	1133.4	79.5	Mainline	192
s-m3-me-003	R6	Mercer	4	591.6	80.5	Mainline	192
s-k2-me-001	R4SB	Mercer	0.5	1081.2	82.5	Mainline	194
s-k2-me-002	R4SB	Mercer	2	2196.9	83	Mainline	194
s-m1-me-001	R4SB	Mercer	1	369.7	84	Mainline	195
s-m1-me-002	R2UB	Mercer	1	589.4	85	Mainline	196
s-m1-me-003	R2UB	Mercer	1	145.5	86	Mainline	196
s-m1-me-004	R2UB	Mercer	2	858.4	86	Mainline	196
s-k3-me-008	R2UB	Mercer	2	1740.0	87.5	Mainline	198
s-m3-me-007	R4SB	Mercer	15	781.5	88	Mainline	198
s-m3-me-008	R4SB	Mercer	5	76.3	88	Mainline	198
s-k4-me-007	R6	Mercer	1.5	417.1	88.5	Mainline	199
s-k3-me-011	R4SB	Mercer	1	456.4	88.5	Mainline	199
s-k3-me-010	R4SB	Mercer	1	397.6	88.5	Mainline	199
s-k1-me-002	R2UB	Mercer	1.5	1481.0	89	Mainline	199
s-k1-me-003	R4SB	Mercer	1	203.6	89	Mainline	199
s-m1-mo-045	R6	Morton	1	232.8	94.5	Mainline	203
s-m1-mo-044	R6	Morton	0.5	260.2	95	Mainline	204
s-m4-mo-003	R6	Morton	2	180.9	97	Mainline	206
s-m1-mo-028	R4SB	Morton	0.5	1536.6	97.5	Mainline	206
s-m1-mo-029	R6	Morton	0.3	600.3	98	Mainline	206
s-m1-mo-040	R4SB	Morton	2.5	125.3	99.5	Mainline	208
s-m1-mo-041	R4SB	Morton	3	328.9	99.5	Mainline	208
s-m1-mo-042	R6	Morton	1.5	1129.4	99.5	Mainline	208
s-m1-mo-031	R6	Morton	0.75	737.1	100.5	Mainline	208
s-m1-mo-003	R6	Morton	1	272.4	101.5	Mainline	209
s-m1-mo-004	R6	Morton	0.5	92.6	101.5	Mainline	209
s-m1-mo-005	R6	Morton	0.5	226.7	101.5	Mainline	209
s-m1-mo-006	R4SB	Morton	1	853.1	102	Mainline	210
s-m1-mo-007	R4SB	Morton	1.5	302.0	102	Mainline	210

**APPENDIX D. WATERBODY FEATURE LIST**

<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>OHWM (ft)</b>	<b>Length (ft)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>
s-m1-mo-008	R6	Morton	1	264.8	103	Mainline	211
s-m1-mo-009	R4SB	Morton	0.5	565.8	103.5	Mainline	211
s-m1-mo-010	R2UB	Morton	4.5	211.8	103.5	Mainline	211
s-m1-mo-011	R2UB	Morton	3	1007.2	104	Mainline	211
s-m1-mo-012	R6	Morton	1	95.1	104	Mainline	212
s-m1-mo-027	R4SB	Morton	1	2365.0	105.5	Mainline	213
s-kc4-mo-001	Ditch	Morton	20	832.0	107	Mainline	214
s-m1-mo-013	R2UB	Morton	4	1815.5	109	Mainline	215
s-m1-mo-014	R2UB	Morton	4	178.8	109	Mainline	215
s-m1-mo-032	R2UB	Morton	3	1032.5	110	Mainline	216
s-k3-mo-008	R2UB	Morton	1	2159.3	112.5	Mainline	218
s-kc5-mo-002	R6	Morton	1	533.7	113.5	Mainline	219
s-m1-mo-036	R6	Morton	2	105.9	114.5	Mainline	220
s-m1-mo-019	R6	Morton	0.25	137.1	117.5	Mainline	222
s-m1-mo-018	R6	Morton	0.5	443.5	121.5	Mainline	226
s-k9-mo-001	R6	Morton	0.5	236.0	125	Mainline	228
s-k9-mo-002	R4SB	Morton	0.5	612.0	126	Mainline	229
s-m4-mo-023	R2UB	Morton	7	862.7	127	Mainline	230
s-m4-mo-024	R6	Morton	3	170.4	127.5	Mainline	230
s-m8-mo-001	R6	Morton	12	602.2	130.5	Mainline	233
s-m8-mo-002	R6	Morton	8	25.1	130.5	Mainline	233
s-m8-mo-003	R4SB	Morton	15	971.7	130.5	Mainline	233
s-m8-mo-004	R4SB	Morton	8	551.4	131	Mainline	234
s-k3-mo-007	R4SB	Morton	2	843.2	137	Mainline	238
s-m1-mo-022	R2UB	Morton	1.5	2094.9	137.5	Mainline	239
s-m1-mo-024	R4SB	Morton	0.5	948.5	138	Mainline	239
s-m1-mo-025	R4SB	Morton	1.5	1251.1	140.5	Mainline	241
s-m1-mo-026	R2UB	Morton	1.5	804.3	140.5	Mainline	241
s-k3-mo-003	R2UB	Morton	0.5	2583.8	141	Mainline	242
s-m8-mo-007	R2UB	Morton	25	322.8	141.5	Mainline	242
s-k3-mo-005	R2UB	Morton	1	1174.3	141.5	Mainline	242
s-m8-mo-006	R2US	Morton	15	260.1	142	Mainline	242
s-k2-mo-001	R2UB	Morton	1.5	433.7	145	Mainline	245
s-k3-mo-006	R6	Morton	1	1272.5	148	Mainline	248
s-k3-mo-002	R2UB	Morton	1	750.4	151.5	Mainline	250
s-k4-mo-003	R2UB	Morton	0.5	35.1	156	Mainline	254
s-k4-mo-004	R2UB	Morton	0.3	284.4	156	Mainline	254
s-k4-mo-002	R2UB	Morton	2	279.0	157.5	Mainline	256
s-k4-mo-001	R2UB	Morton	1.5	604.9	158	Mainline	256
s-k7-mo-001	R2UB	Morton	1	1151.4	159	Mainline	257
s-k3-mo-001	R2US	Morton	0.5	952.6	159.5	Mainline	257
s-k7-mo-004	R4SB	Morton	2	711.4	160	Mainline	258
s-k7-mo-002	R4SB	Morton	1	646.8	160.5	Mainline	258
s-k7-mo-003	R4SB	Morton	0.5	221.4	160.5	Mainline	258
s-m1-mo-001	R6	Morton	1.5	342.9	162	Mainline	260
s-kc4-mo-004	R6	Morton	1	61.2	163	Mainline	260

**APPENDIX D. WATERBODY FEATURE LIST**

<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>OHWL (ft)</b>	<b>Length (ft)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>
s-m1-mo-002	R6	Morton	0.5	483.8	163	Mainline	260
s-kc4-mo-002	R2US	Morton	5500	405.4	164	Mainline	261
s-m1-em-001	R6	Emmons	1	409.1	165	Mainline	262
s-k3-em-001	R2UB	Emmons	1.5	423.7	165	Mainline	262
s-k2-em-001	R2UB	Emmons	2.5	1716.7	170.5	Mainline	266
s-k2-em-002	R4SB	Emmons	1	579.4	172.5	Mainline	268
s-k2-em-003	R4SB	Emmons	1	564.4	173	Mainline	268
s-m4-em-009	R6	Emmons	2	484.9	175	Mainline	270
s-k2-em-004	R4SB	Emmons	1	637.2	177.5	Mainline	272
s-k2-em-005	R2UB	Emmons	5	2820.4	178	Mainline	273
s-k2-em-006	R4SB	Emmons	4	324.8	178.5	Mainline	273
s-k2-em-007	R4SB	Emmons	2.5	804.5	178.5	Mainline	273
s-k2-em-008	R4SB	Emmons	1	527.2	178.5	Mainline	273
s-k2-em-009	R2UB	Emmons	4	1025.5	178.5	Mainline	273
s-k2-em-010	R6	Emmons	1	297.9	181.5	Mainline	276
s-kc5-em-009	R2UB	Emmons	25	919.5	182	Mainline	276
s-k2-em-011	R2UB	Emmons	12	1567.5	182	Mainline	276
s-k2-em-012	R4SB	Emmons	1	547.1	185.5	Mainline	279
s-k2-em-013	R2UB	Emmons	1	344.5	191.5	Mainline	284
s-kc5-em-012	R6	Emmons	6	1078.2	193	Mainline	285
s-k2-em-014	R4SB	Emmons	1.5	411.4	196.5	Mainline	288
s-k2-em-015	R4SB	Emmons	1	195.6	196.5	Mainline	288
s-kc4-em-006	R6	Emmons	0.5	592.0	198	Mainline	289
s-k1-em-002	R6	Emmons	0.5	1505.0	198.5	Mainline	289
s-kc4-em-007	R6	Emmons	2	440.4	199.5	Mainline	290
s-kc4-em-008	R6	Emmons	0.25	579.4	201	Mainline	292
s-k2-em-017	R4SB	Emmons	0.5	261.8	202	Mainline	292
s-k2-em-016	R6	Emmons	0.5	822.2	202.5	Mainline	293
s-kc4-em-011	R4SB	Emmons	6	789.6	206	Mainline	296
s-kc4-em-012	R6	Emmons	2	557.4	206.5	Mainline	296
s-k7-em-001	R4SB	Emmons	20	1986.9	209	Mainline	298
s-k2-em-018	R6	Emmons	0.5	590.7	209.5	Mainline	298
<b>Facility Features</b>							
<b>Feature_ID</b>	<b>Cowardin</b>	<b>County</b>	<b>OHWL (ft)</b>	<b>Length (ft)</b>	<b>Milepost</b>	<b>Route</b>	<b>Map Page</b>
s-k2-mk-009	R6	Mountrail	0.50	1249.1	5.5	Facility	6

# **APPENDIX E. WATERBODY DATA FORMS**

**(Available Upon Request)**