MAY ADAM
Since 1881
WWW.MAGT.COM

ROBERT B. ANDERSON
TIMOTHY M. ENGEL
MICHAEL F. SHAW
BRETT KOENECKE
CHRISTINA L. KLINGER
JUSTIN L. BELL
DOUGLAS A. ABRAHAM
KARA C. SEMMLER
A.J. FRANKEN

OF COUNSEL
DAVID A. GERDES
CHARLES M. THOMPSON

GLENN W. MARTENS 1881-1963
KARL GOLDSMITH 1885-1966
BRENT A. WILBUR 1949-2006

TELEPHONE
605 224-8803

FAX
605 224-6289

September 21, 2015

Writer's E-mail: kcs@mayadam.net

Patricia Van Gerpen
Executive Director
Public Utilities Commission
500 East Capitol Avenue
Pierre, South Dakota 57501

RE: In the Matter of the Application of Dakota Access, LLC for an Energy Facility Permit to Construct the Dakota Access Pipeline; HP14-002
Our file: 0300

Dear Ms. Van Gerpen:

Dakota Access Pipeline filed individual route adjustments with the PUC as they became necessary. Exhibit A, as filed with the Application was revised to reflect all such route adjustments.

I saved revised Exhibit A1, A2, A3, A4, A5 to the PUC ftp site. Please consider these maps filed and include them on the PUC website as the revised pipeline route.

Very truly yours,

MAY, ADAM, GERDES & THOMPSON LLP

KARA C. SEMMLER

KCS/mnf

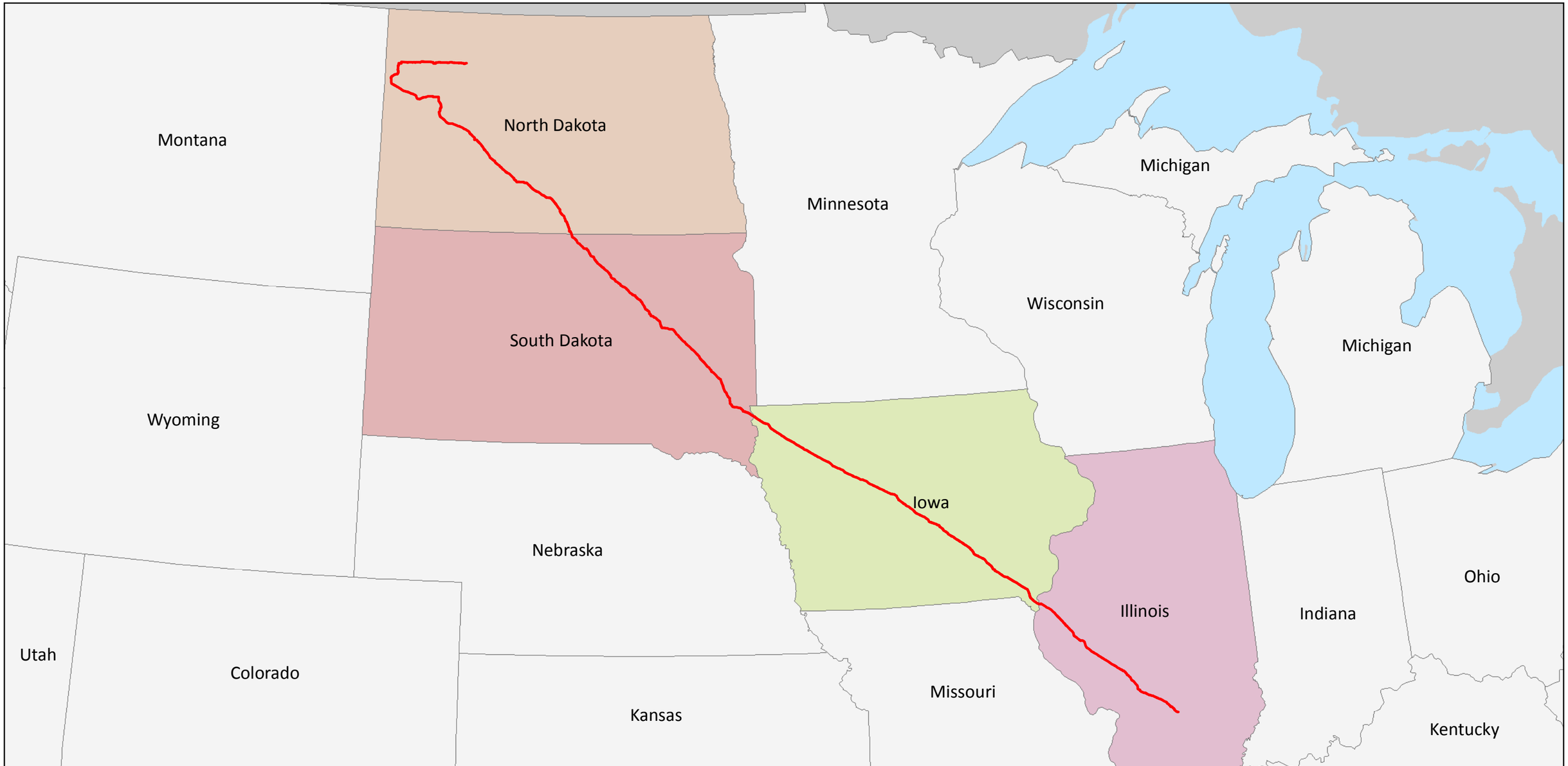
DAKOTA ACCESS, LLC

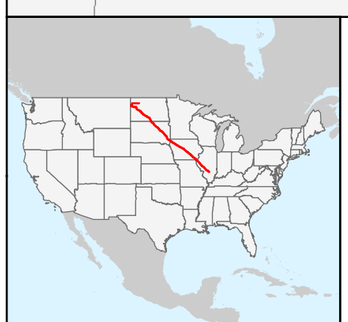
Exhibit A

Project Mapping

Exhibit A1

Project Vicinity Maps





Proposed Route

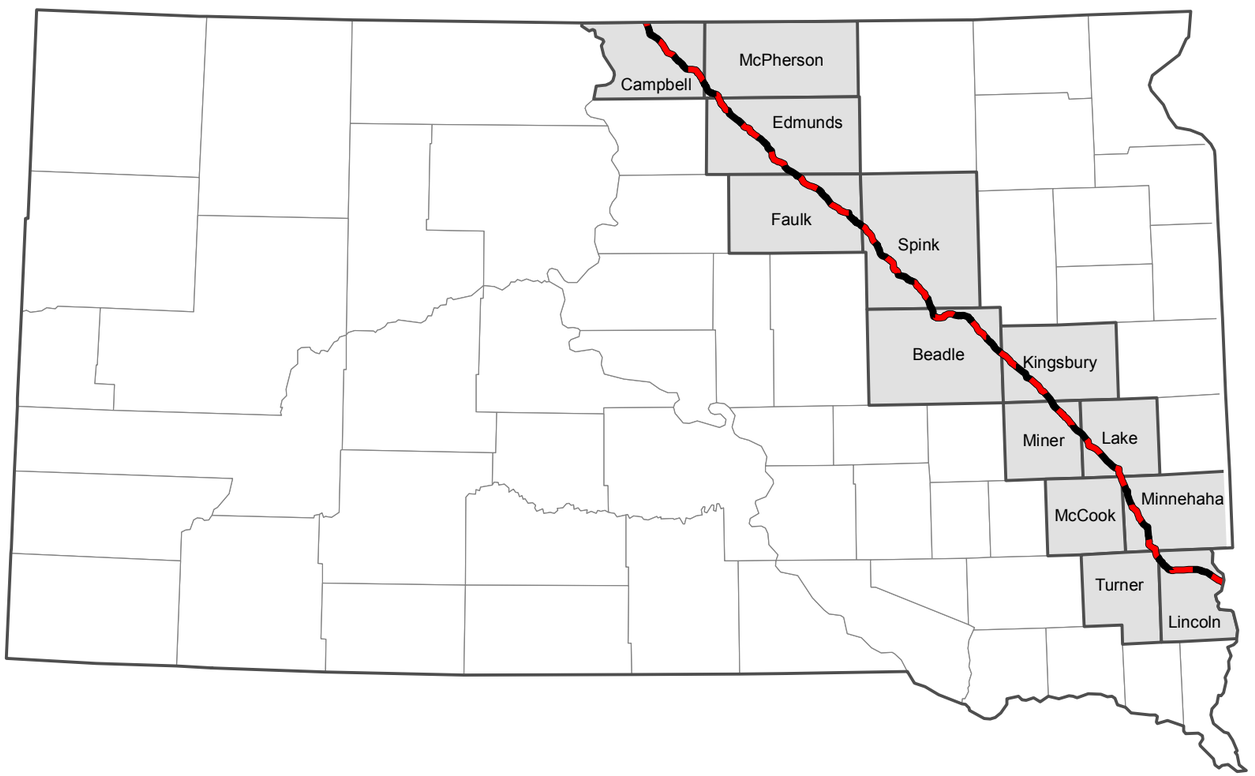
0 150 300 450 600
Miles

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Project Vicinity Map
South Dakota

Page 1 of 1	Scale: 1:6,000,000
NAD 83 South Dakota South Ft	Date: Dec 05, 2014

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC_01_Project_Vicinity_map.mxd



Dakota Access, LLC
Dakota Access Pipeline Project
South Dakota Vicinity Map

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC_00_Cover.mxd

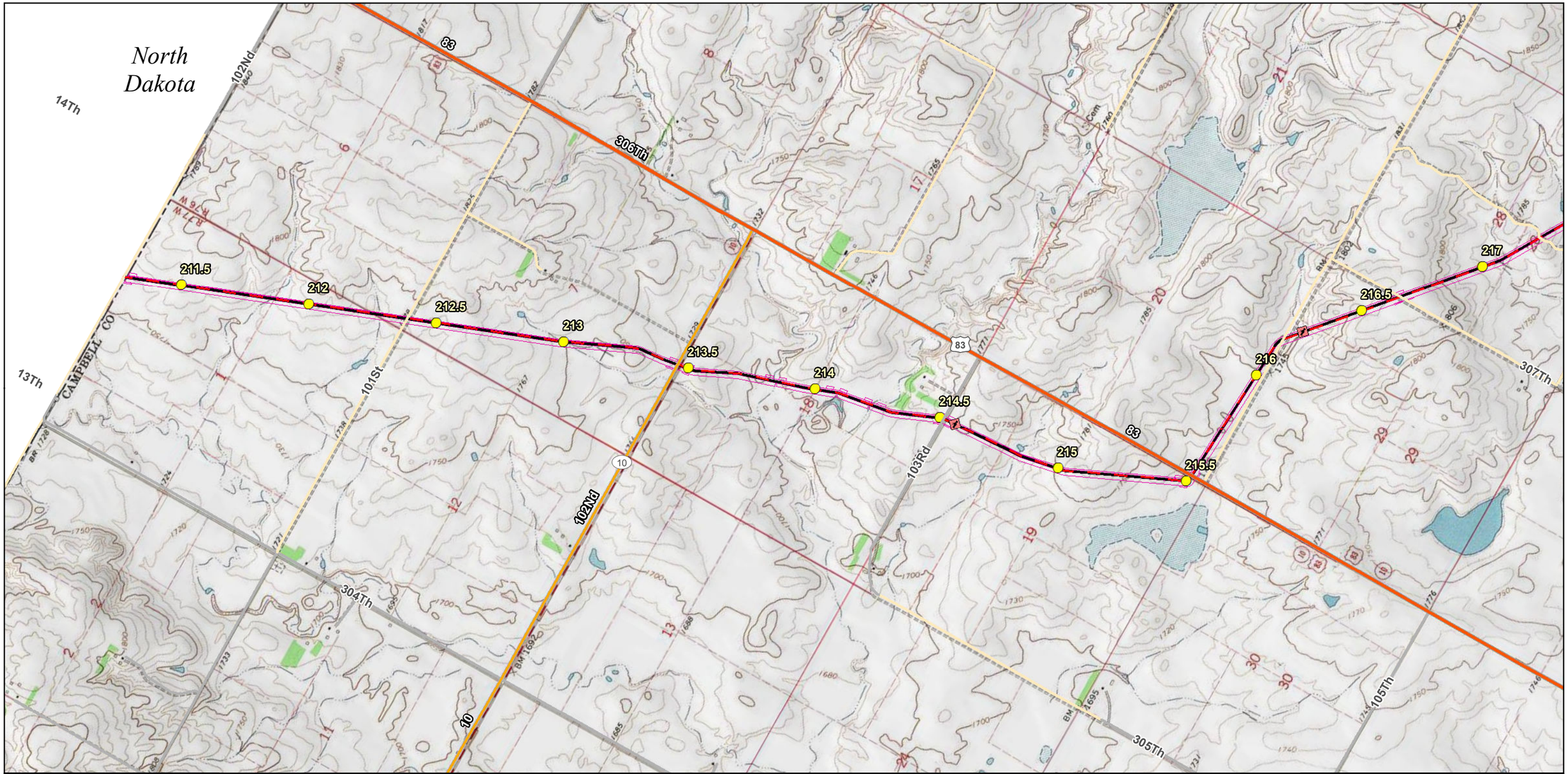
DAKOTA ACCESS, LLC

Exhibit A

Project Mapping

Exhibit A2

Topographic Maps



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

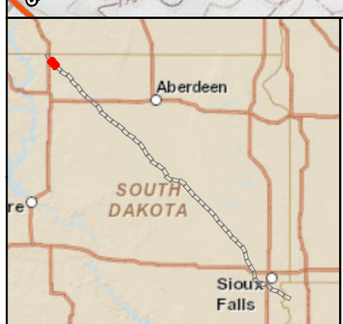
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 1 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

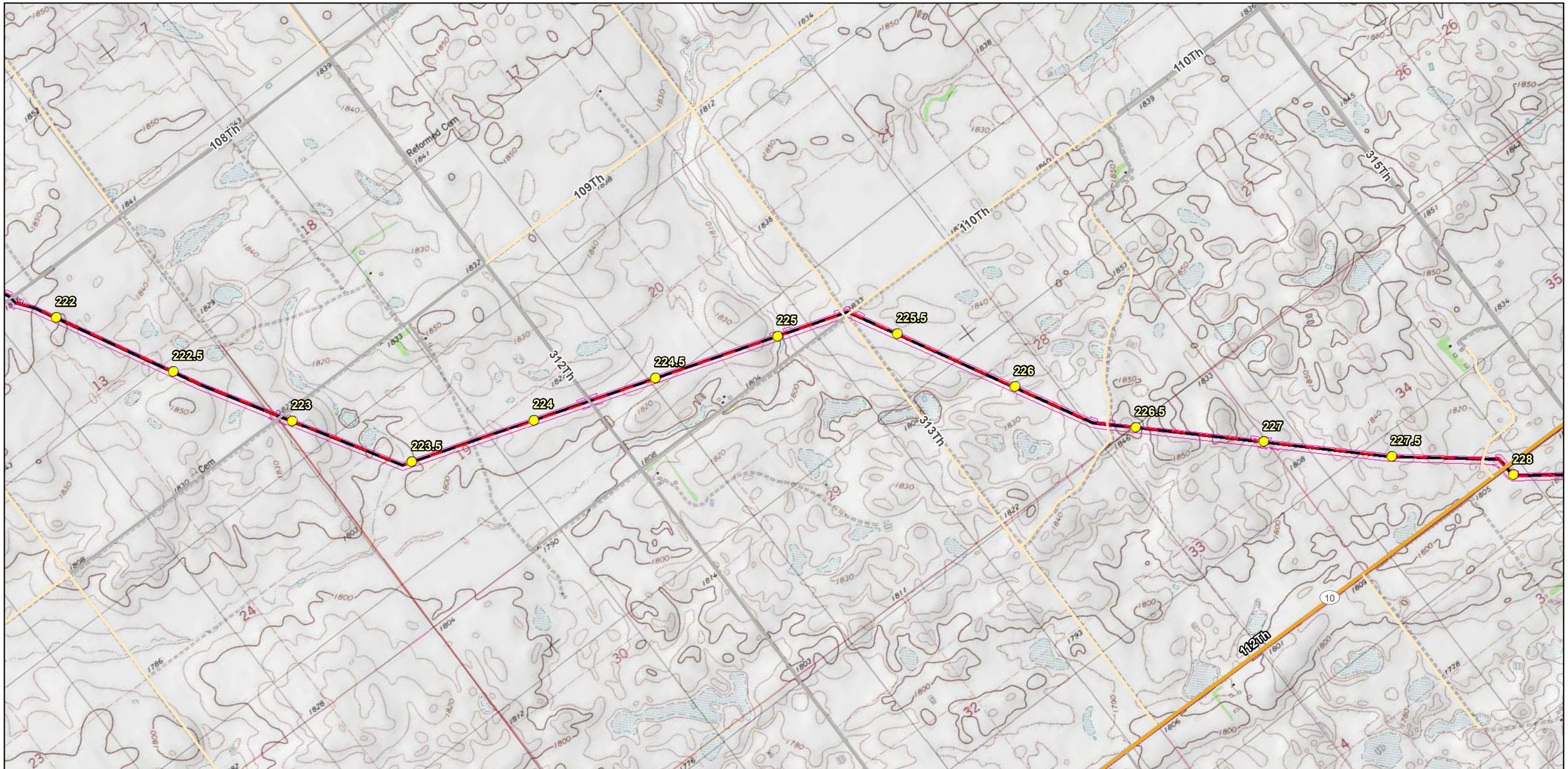
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 2 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 3 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

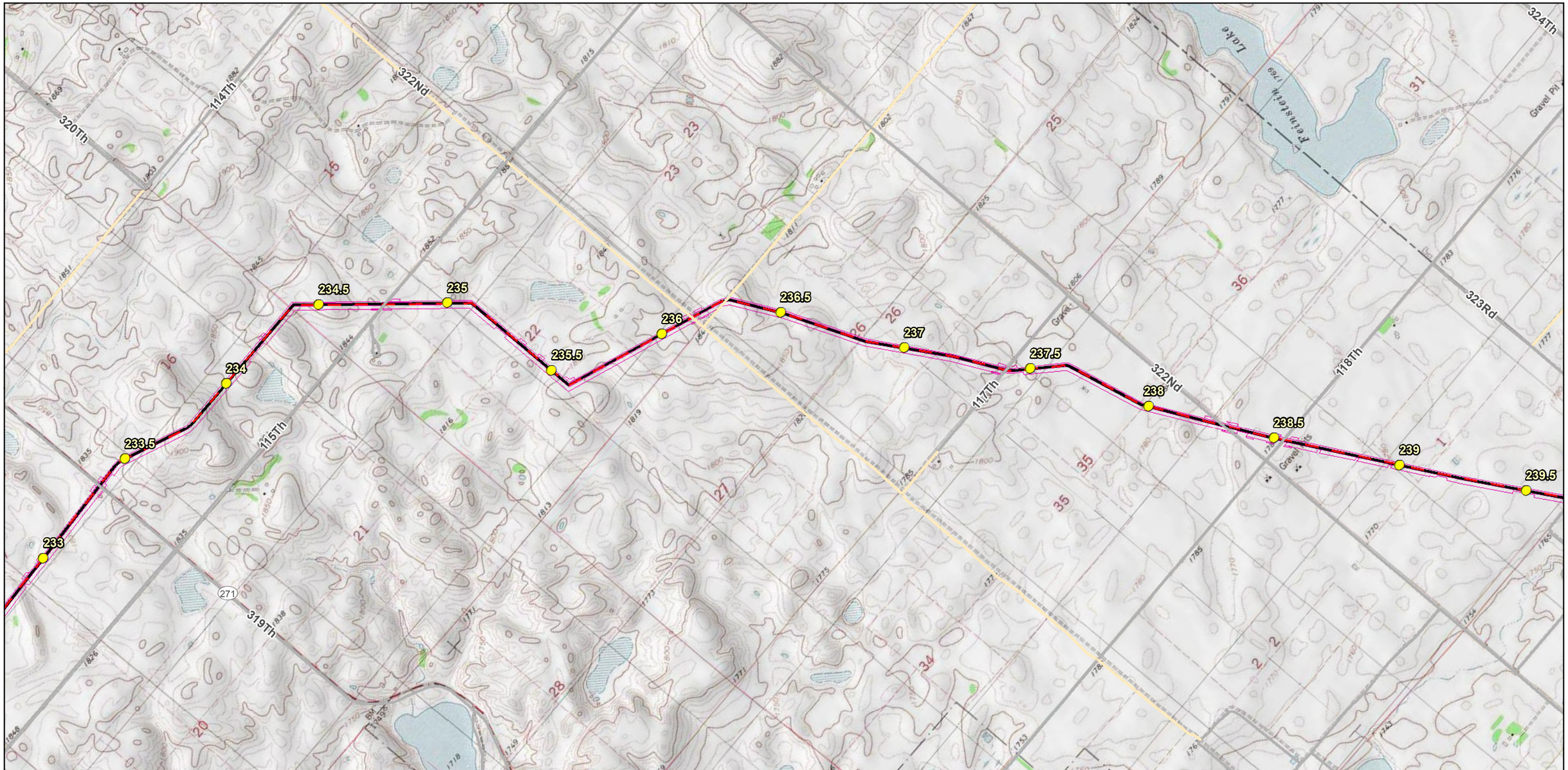
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 4 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 5 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

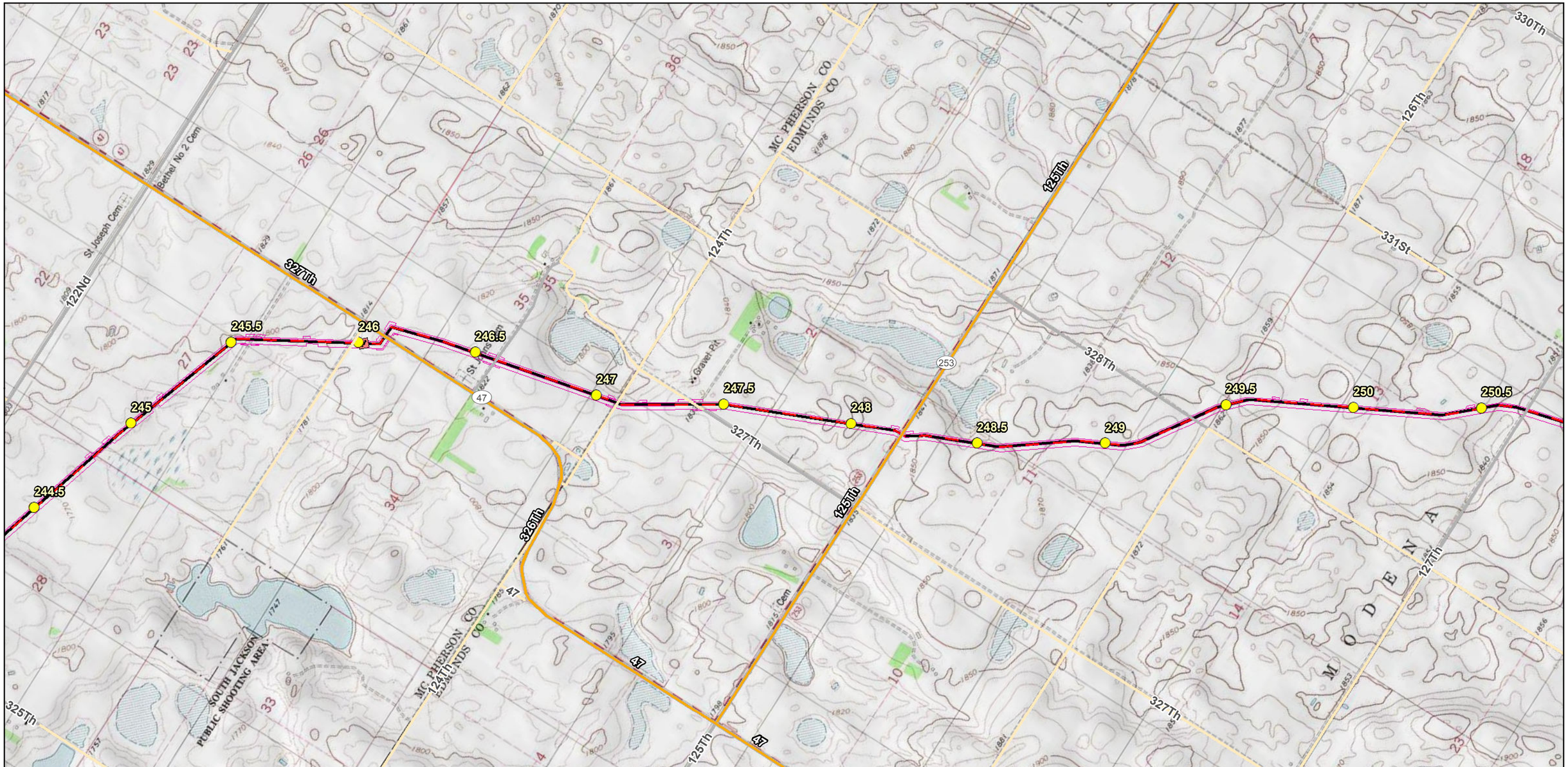
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 6 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

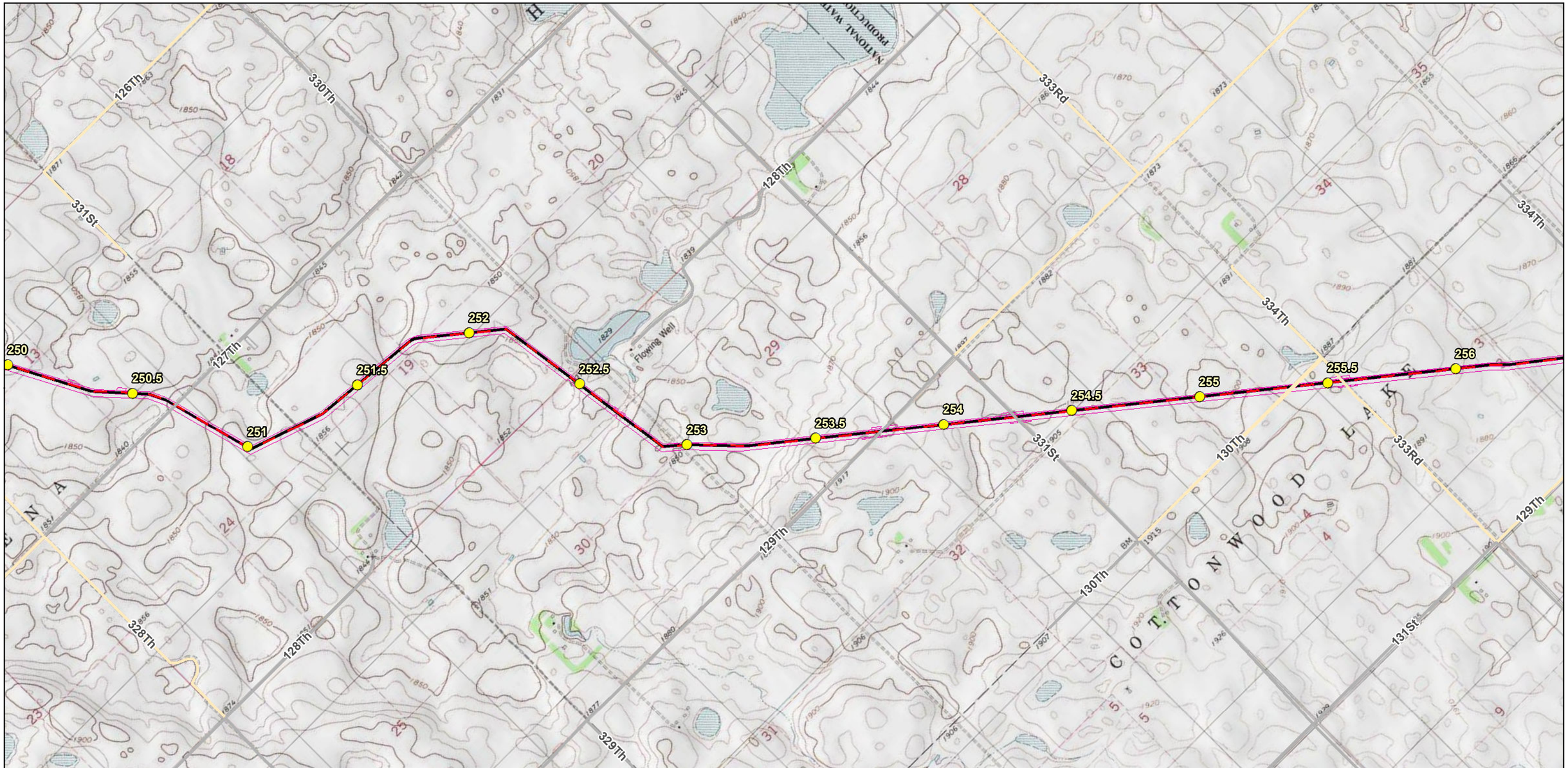
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 7 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

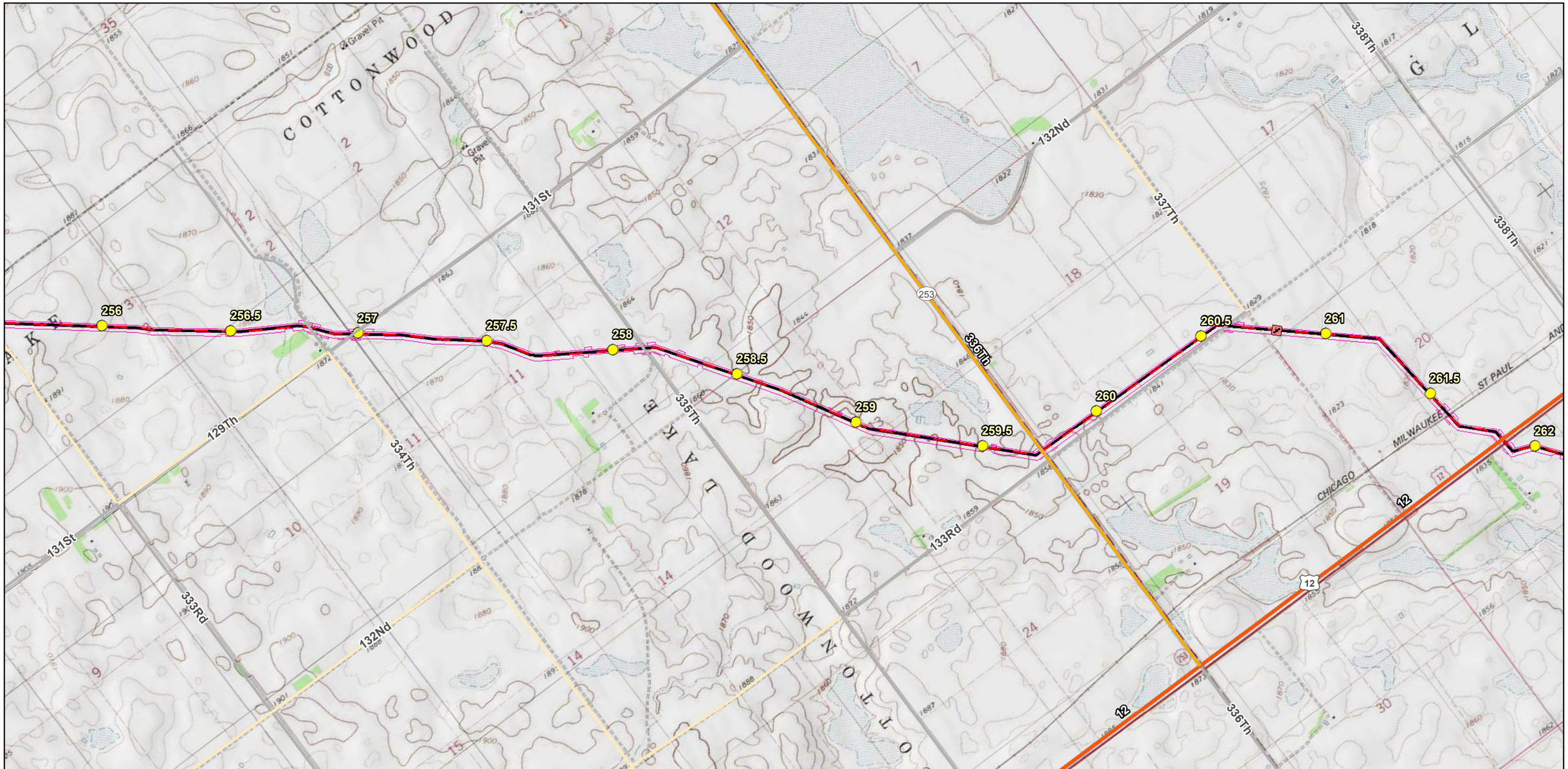
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 8 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

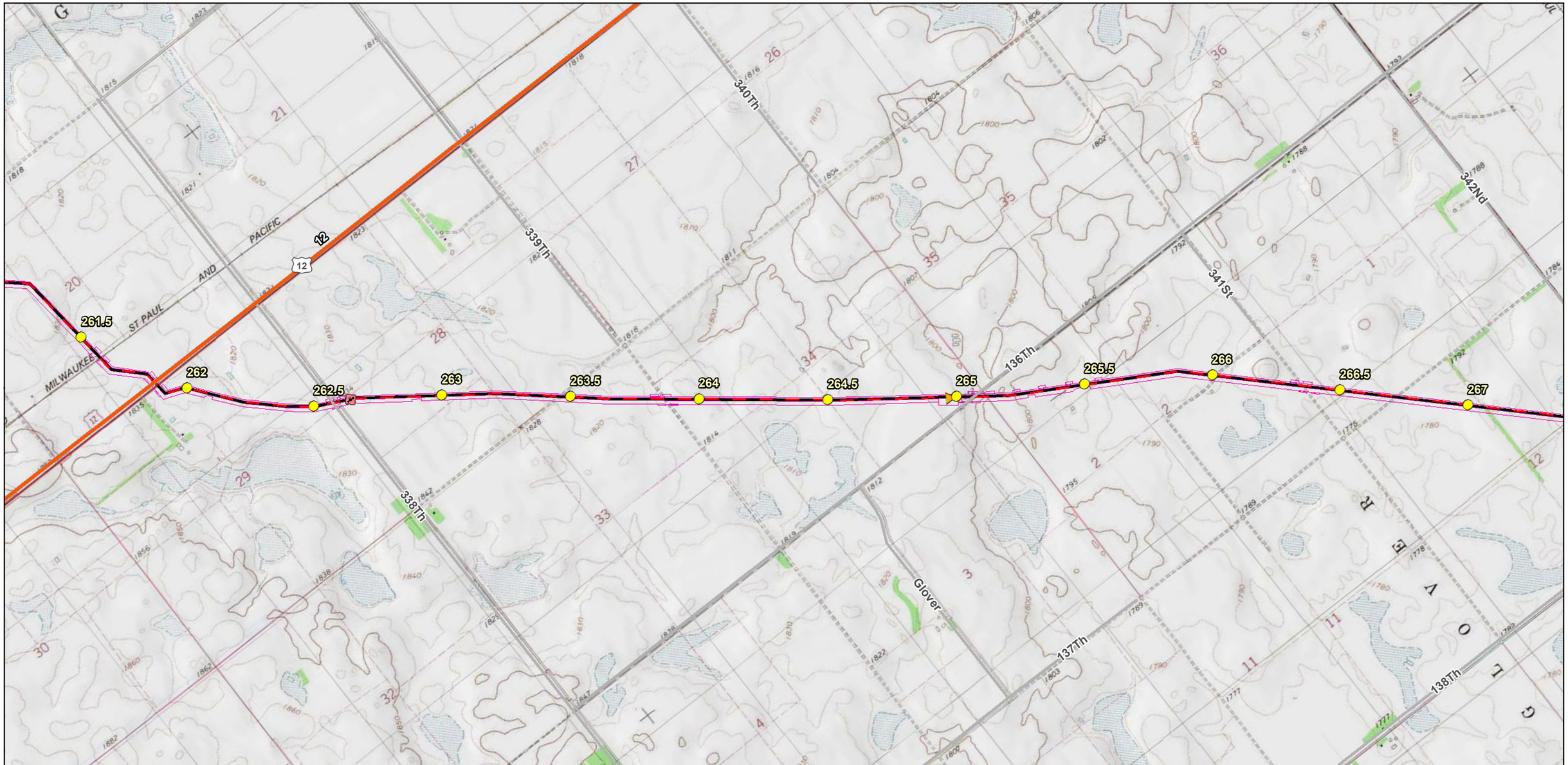
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 9 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

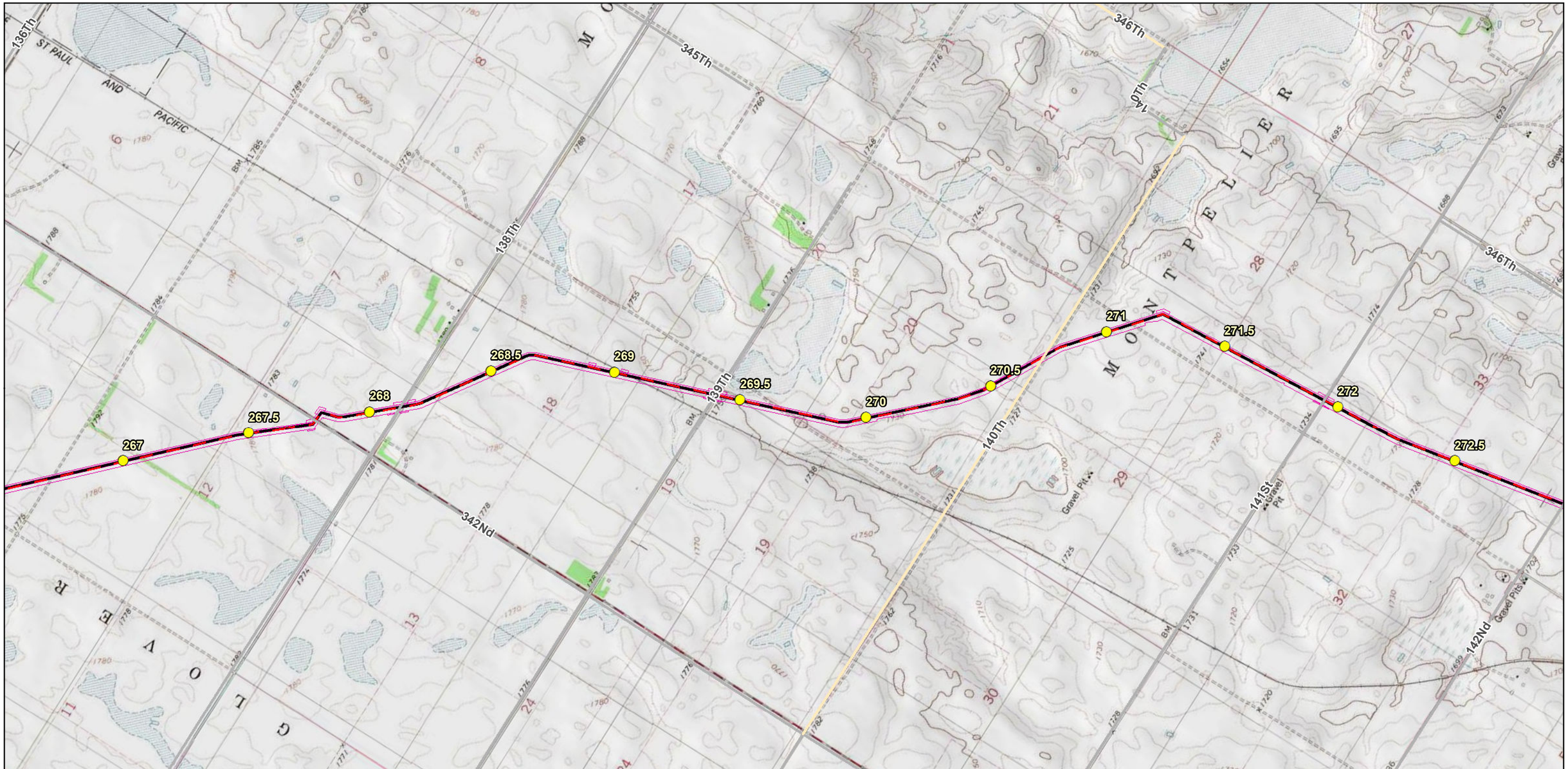
0 2,000 4,000 6,000 8,000 Feet

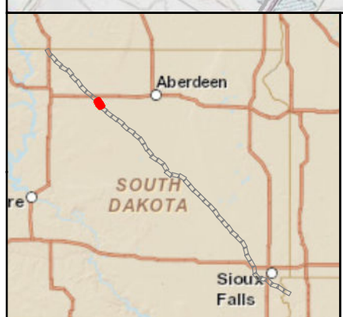
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 10 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

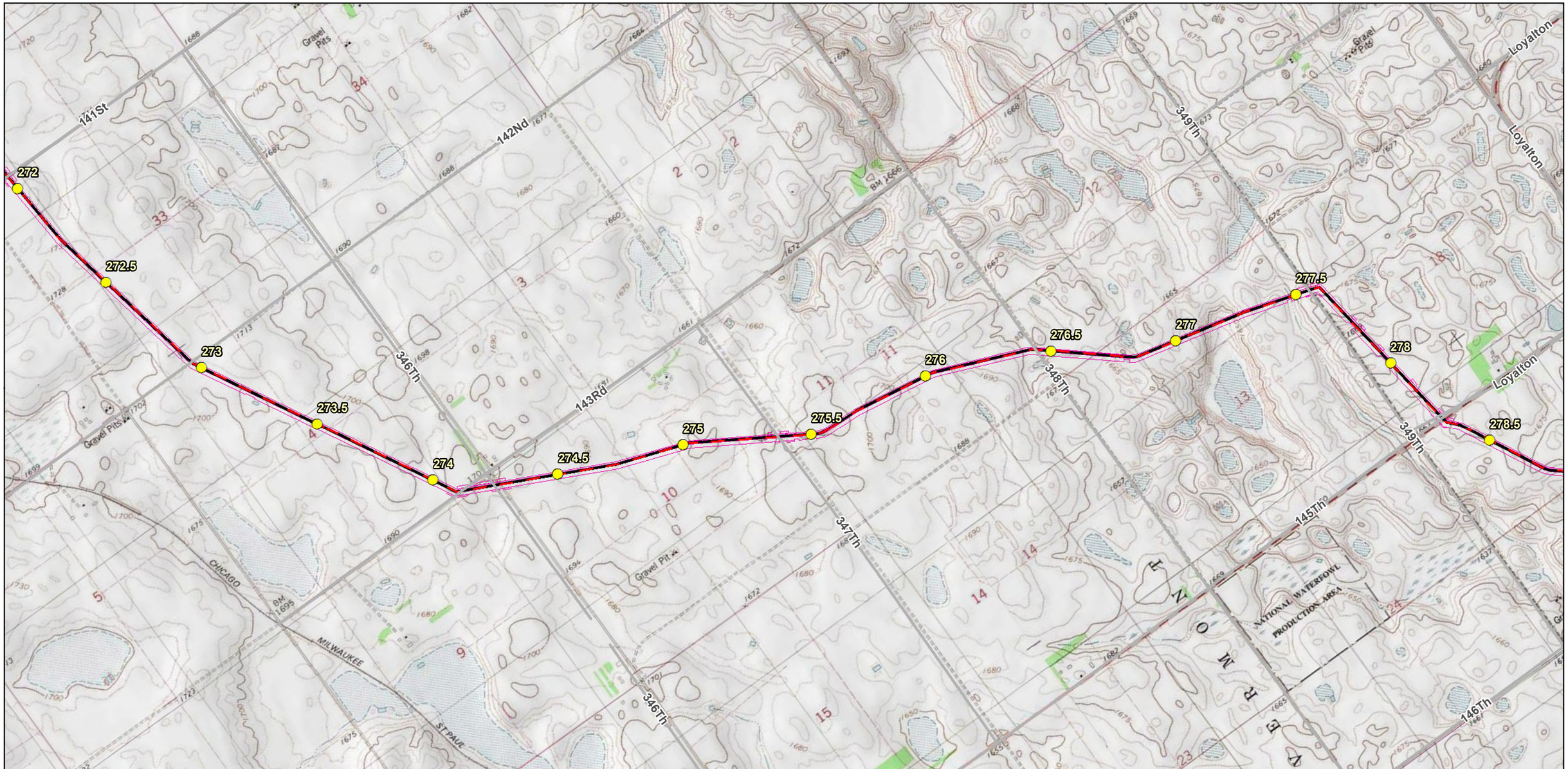
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 11 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 12 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

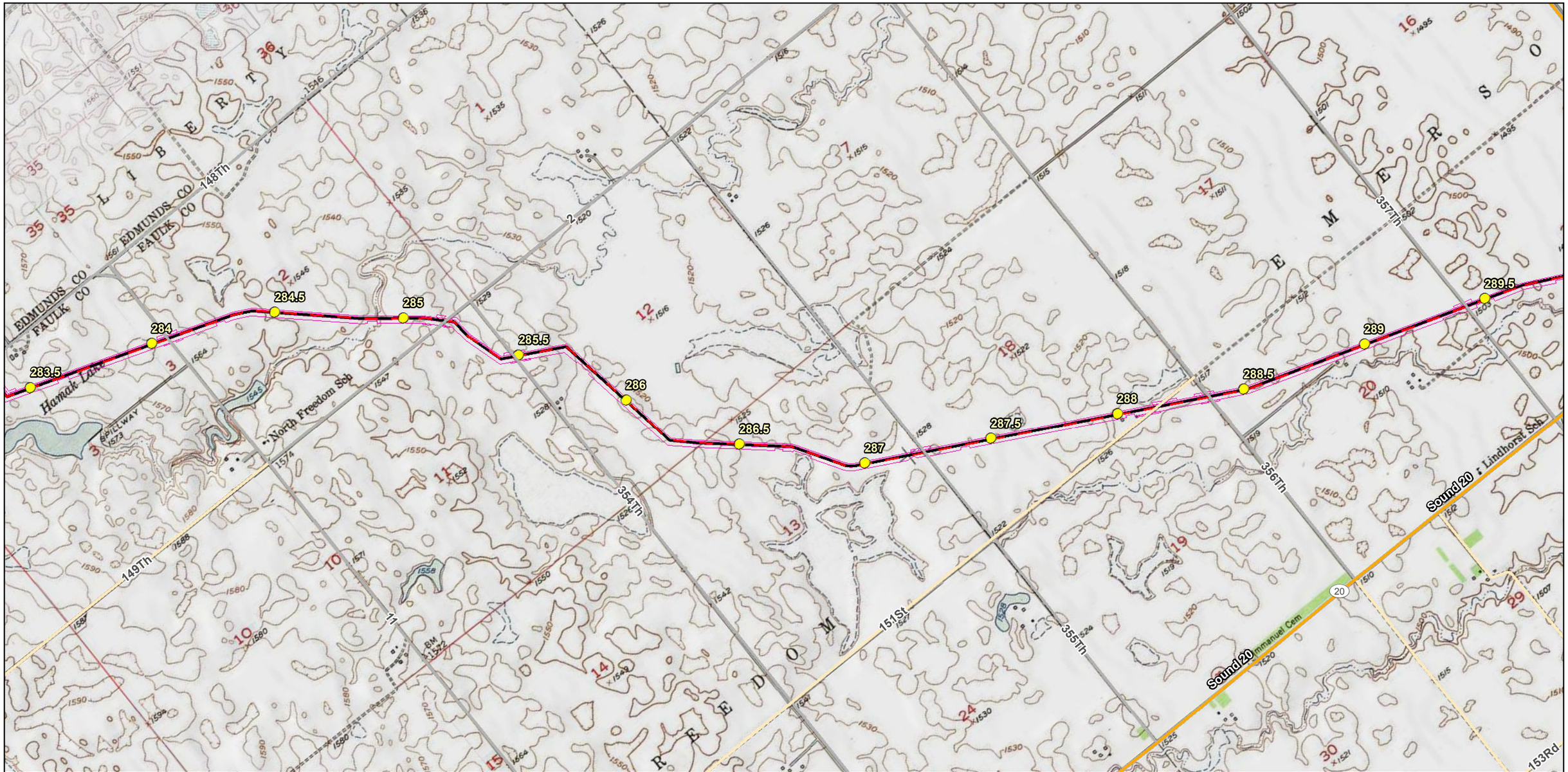
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 13 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

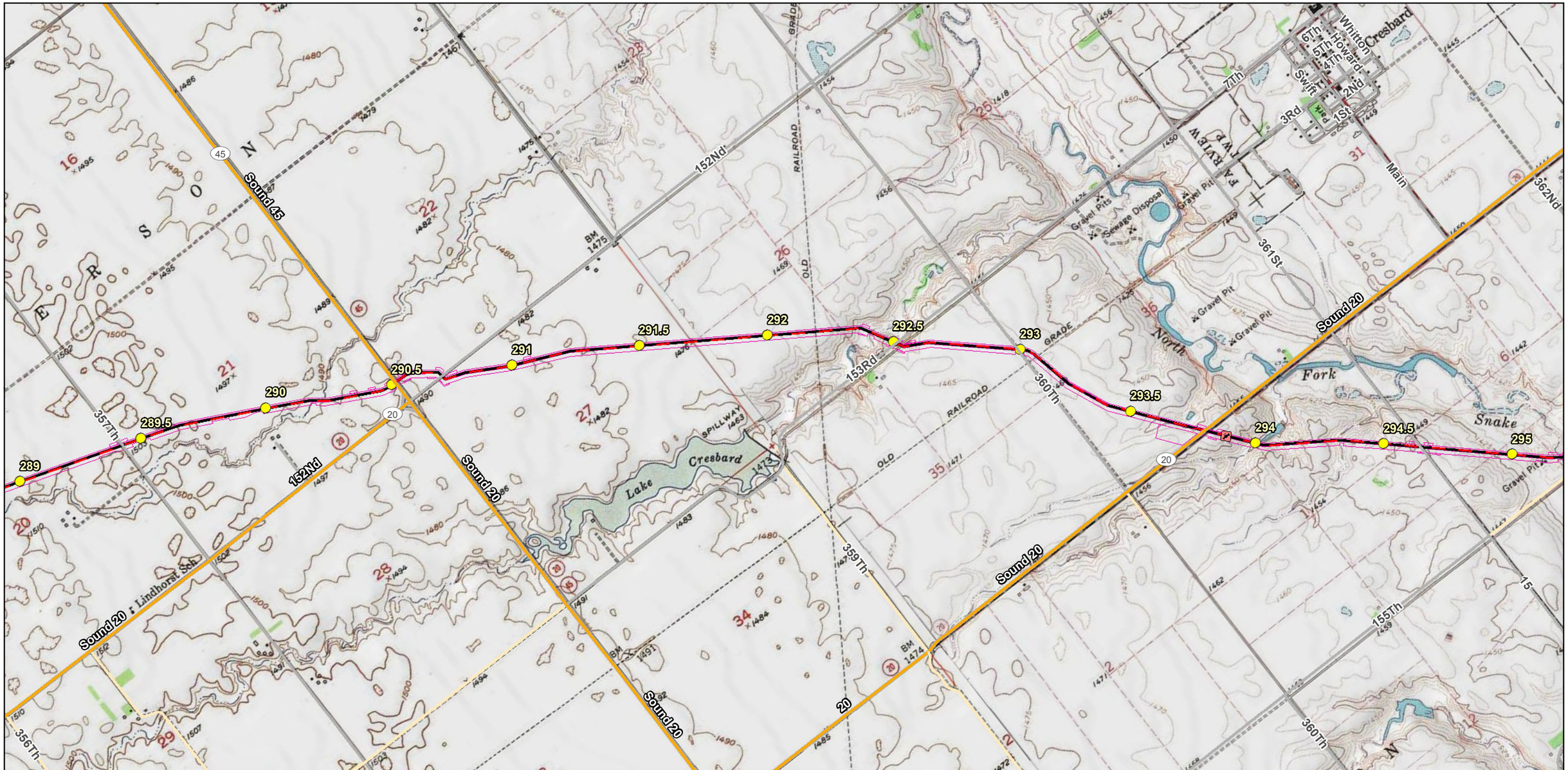
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 14 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

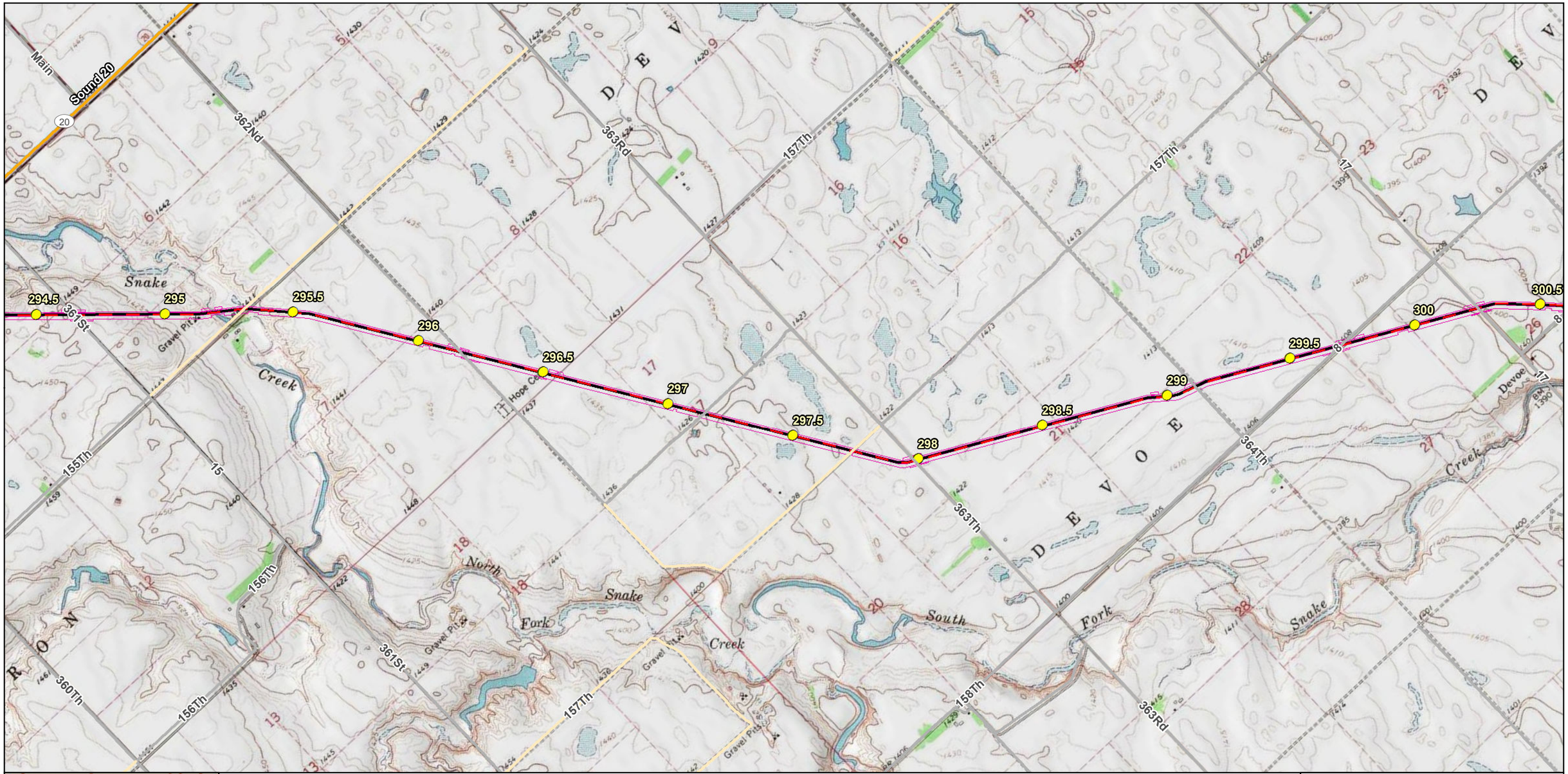
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 15 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 16 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

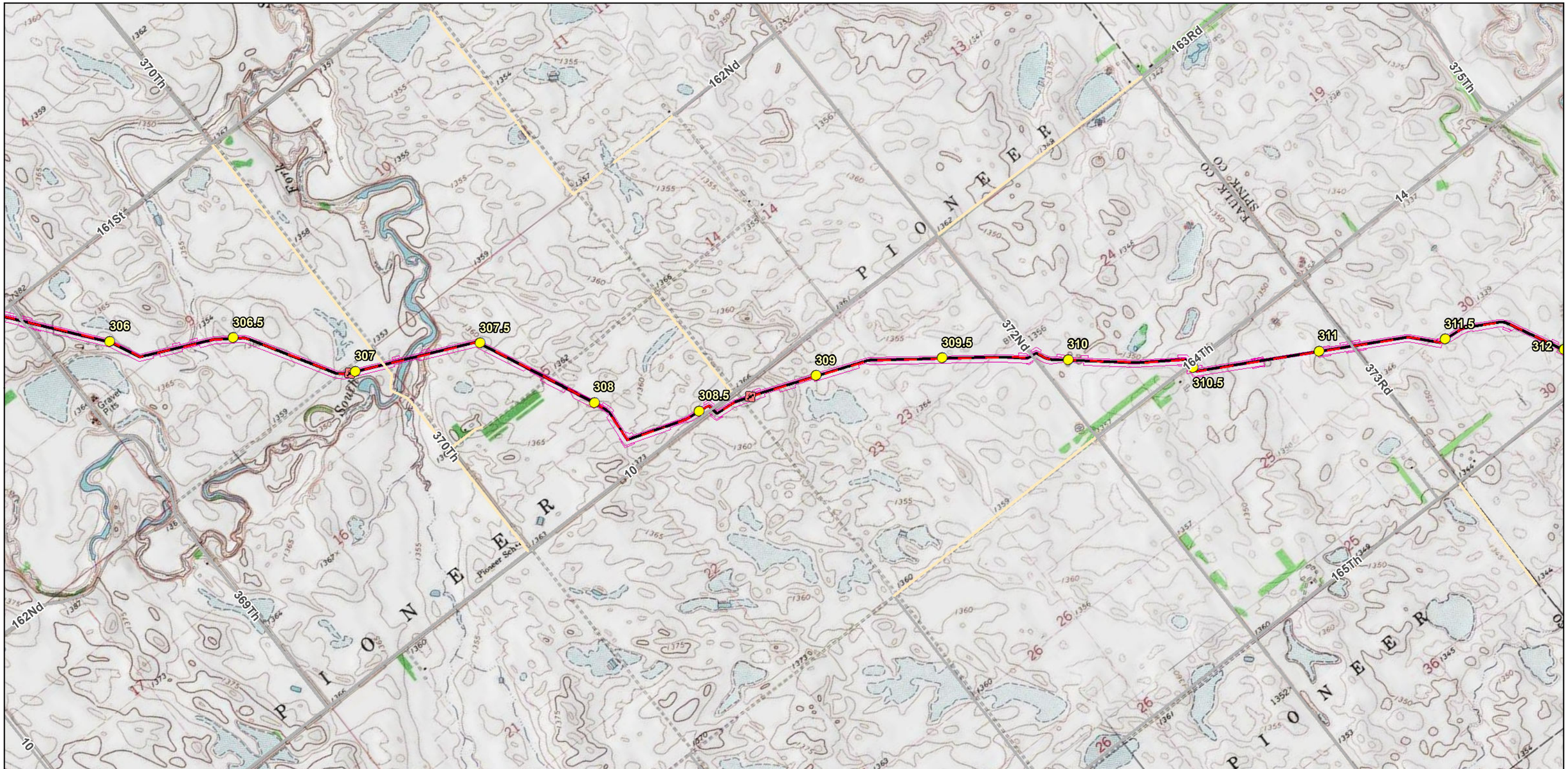
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 17 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

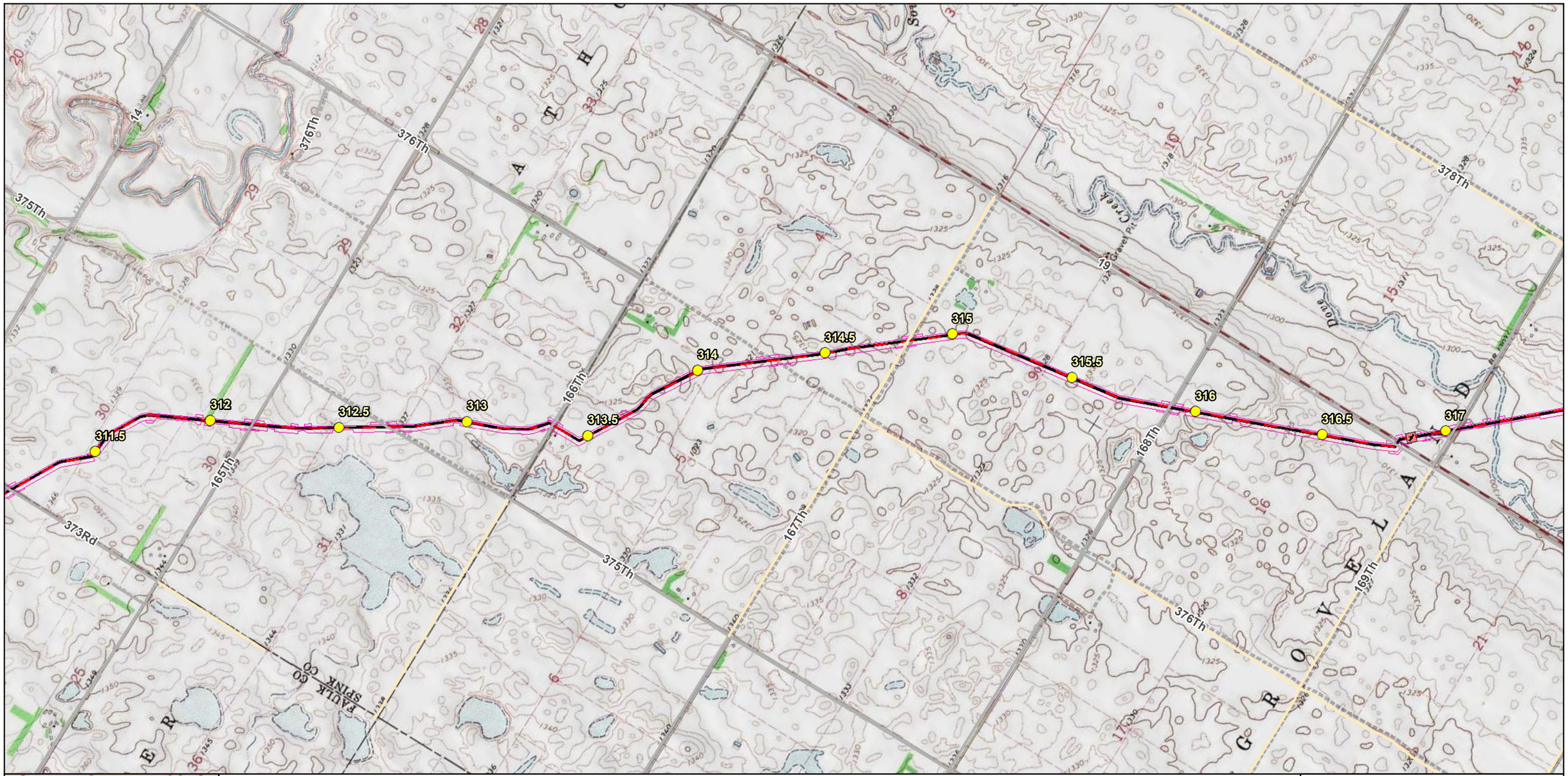
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 18 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

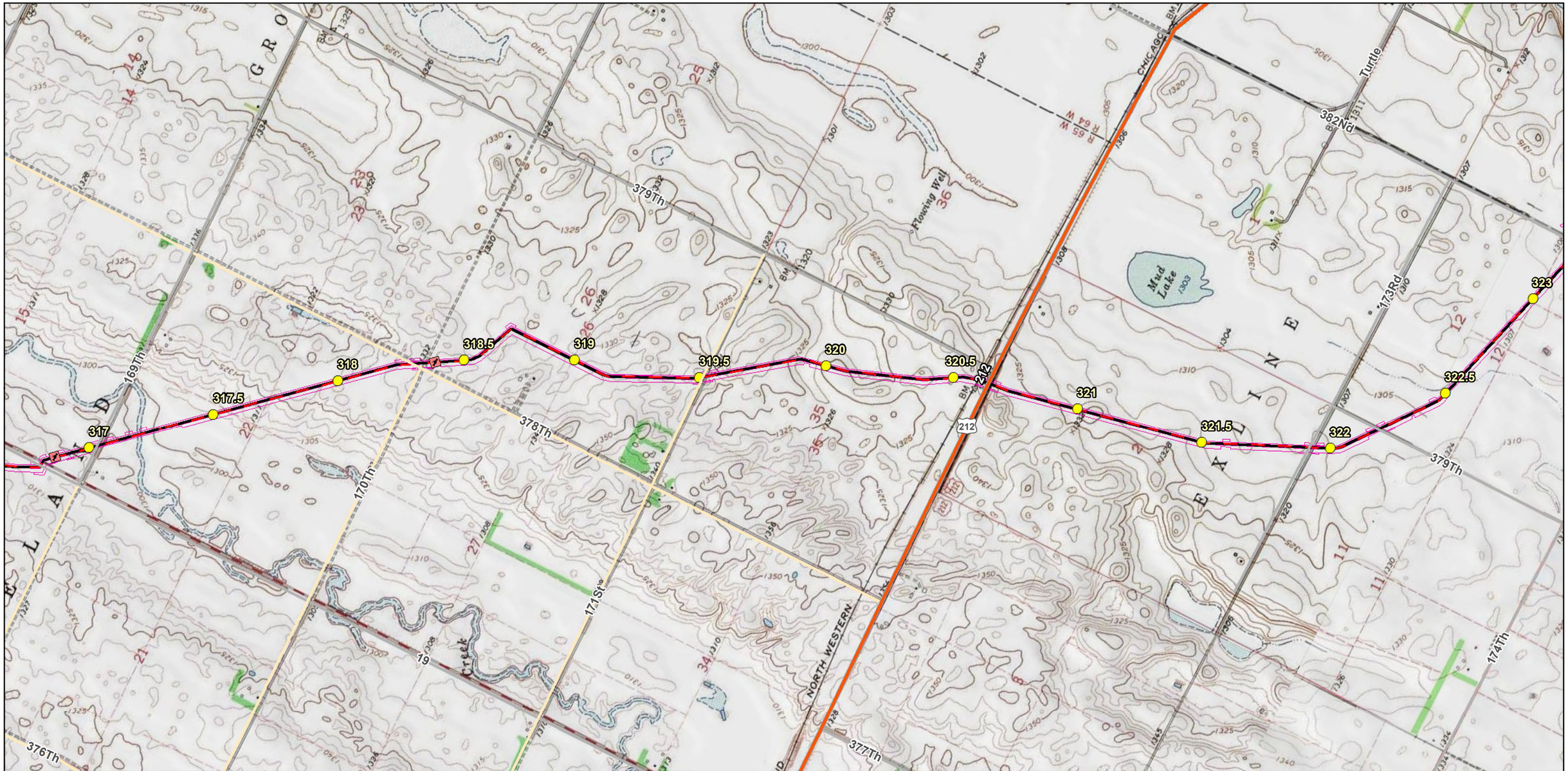
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 19 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

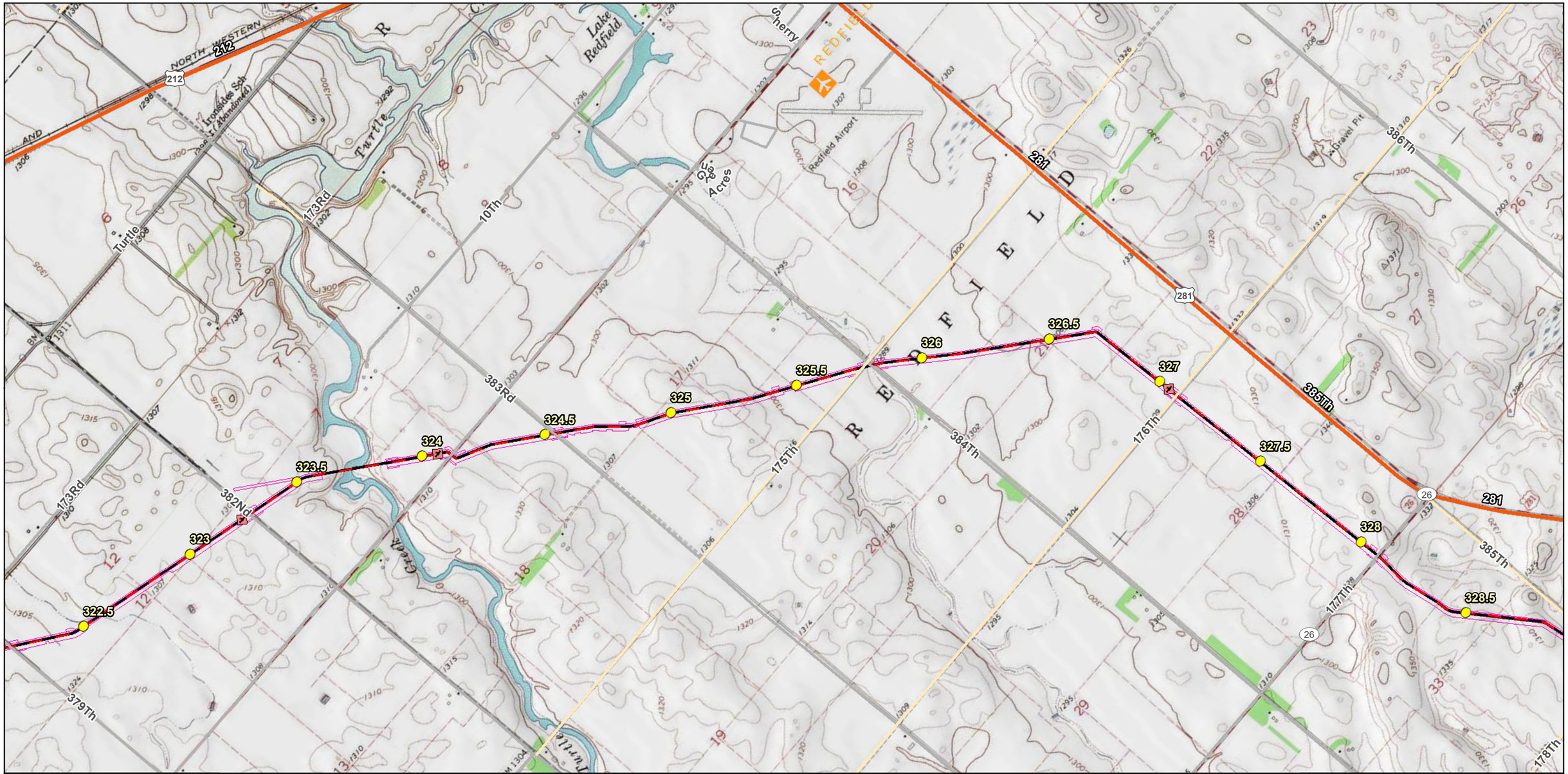
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 20 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

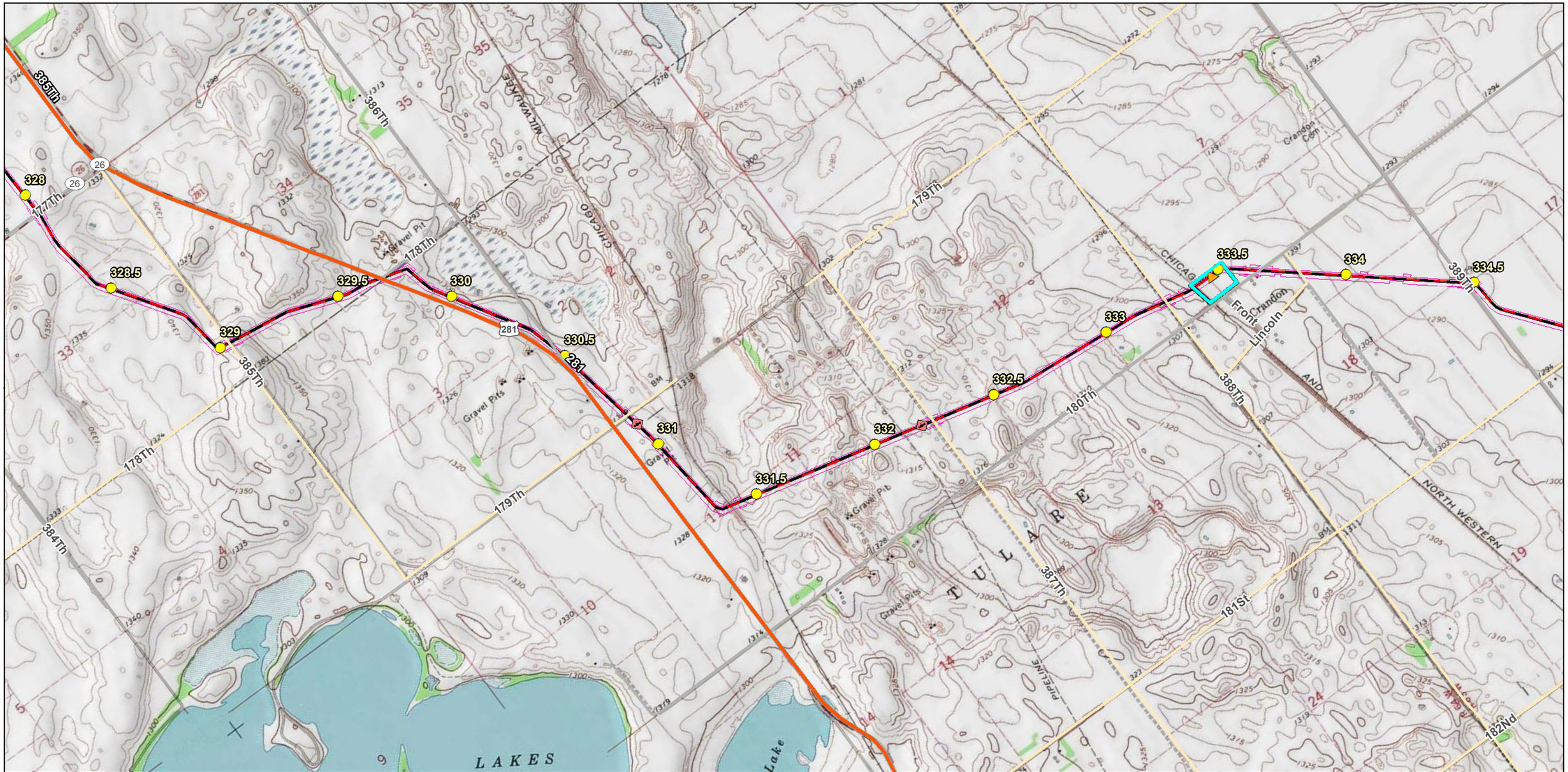
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 21 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

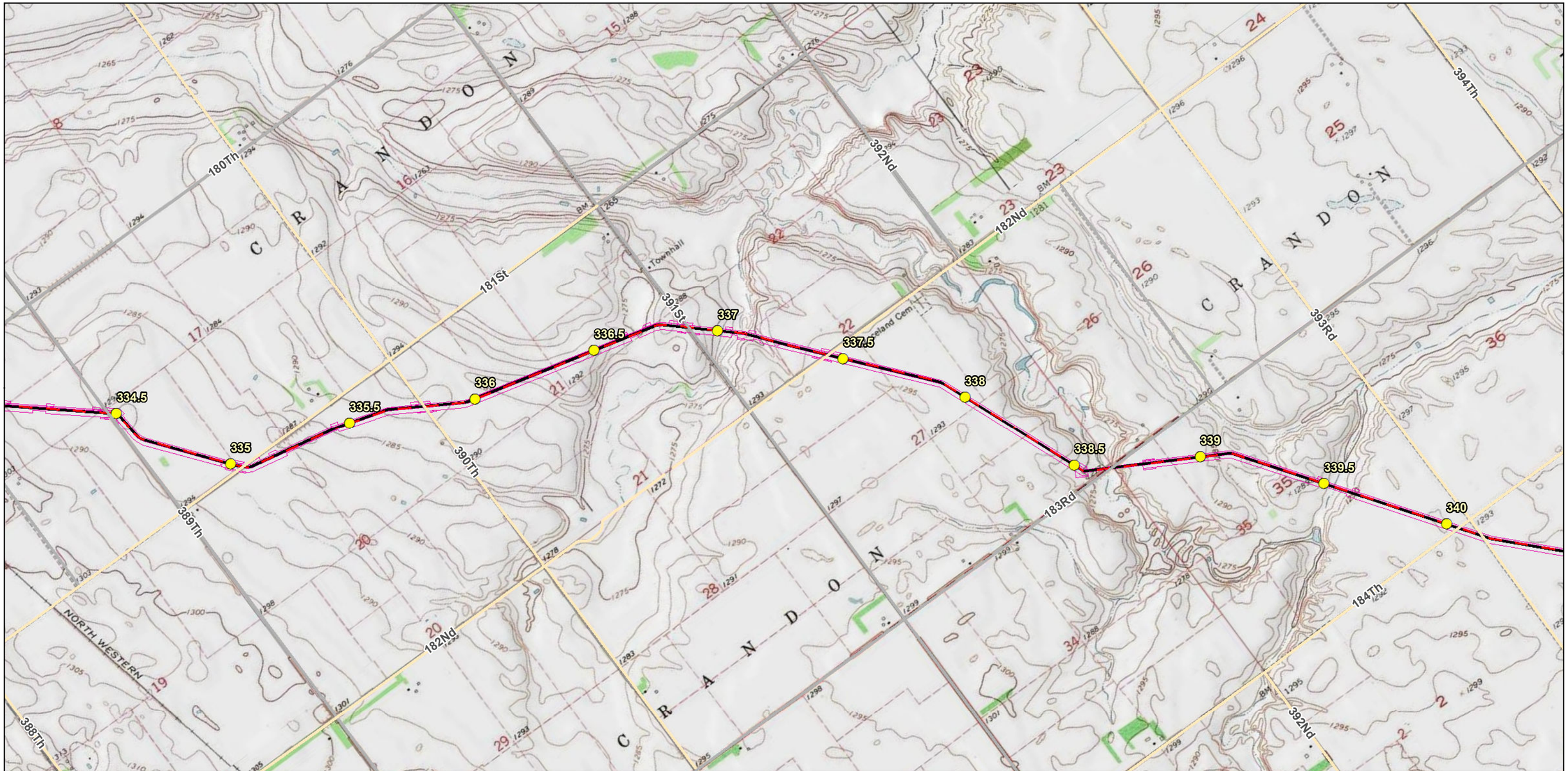
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 22 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

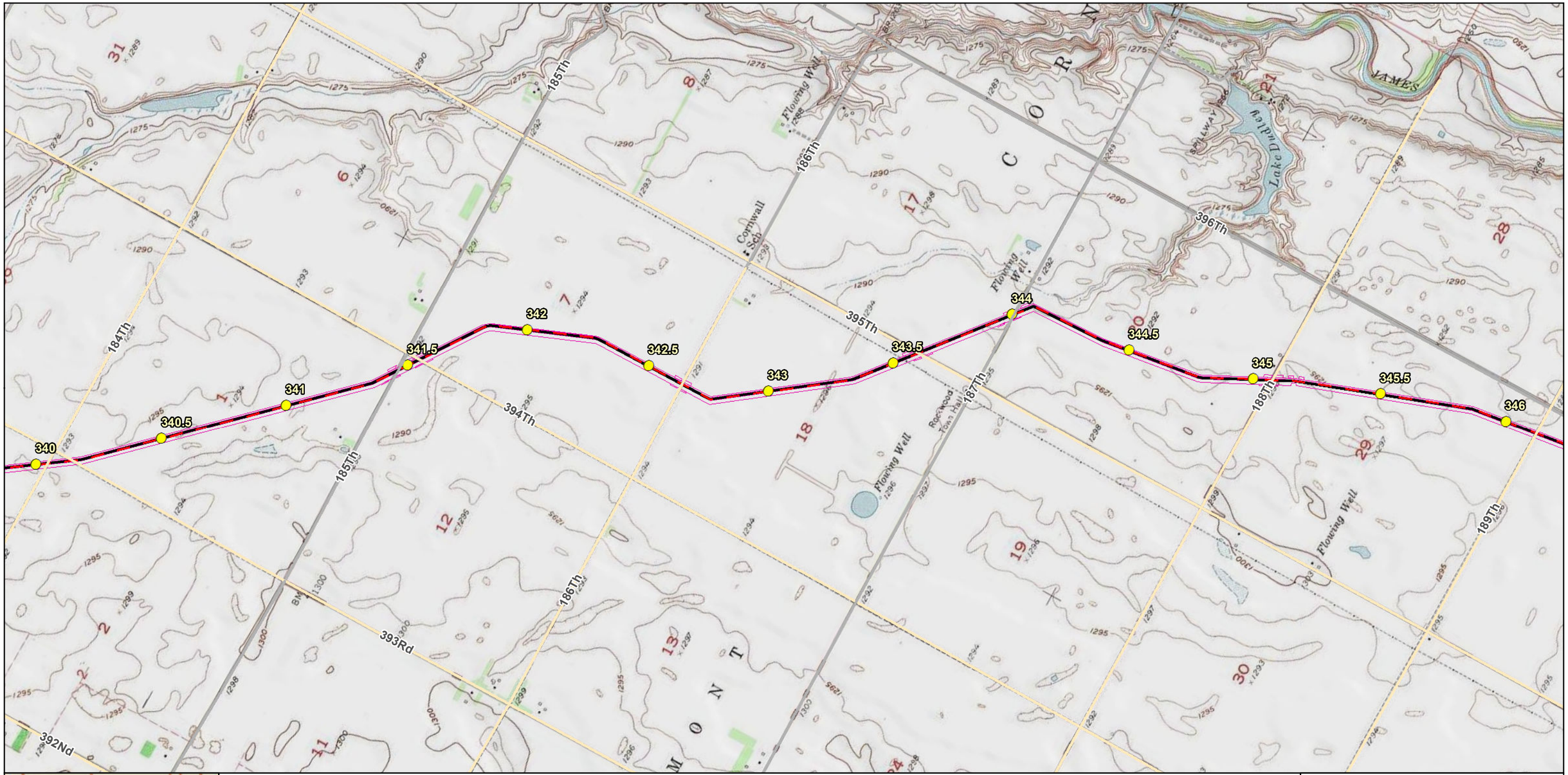
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 23 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

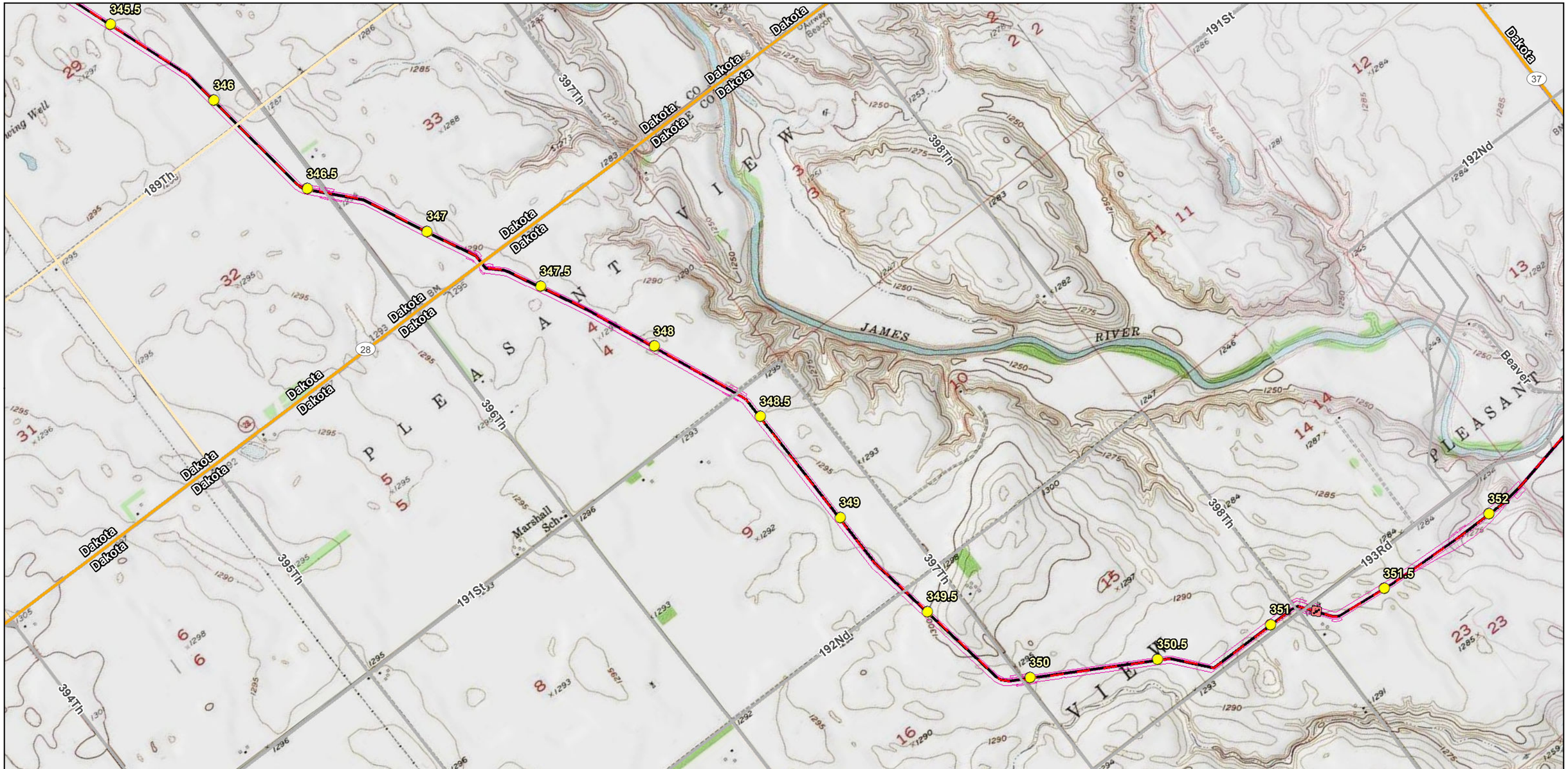
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 24 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



- Milepost
- Launcher/Receiver
- Mainline Valve
- Proposed Route
- Spink Pump Station
- Work Space
- Cemetery
- Airport
- Limited Access
- Highway
- Major Road
- Local Road
- Minor Road
- Other Road

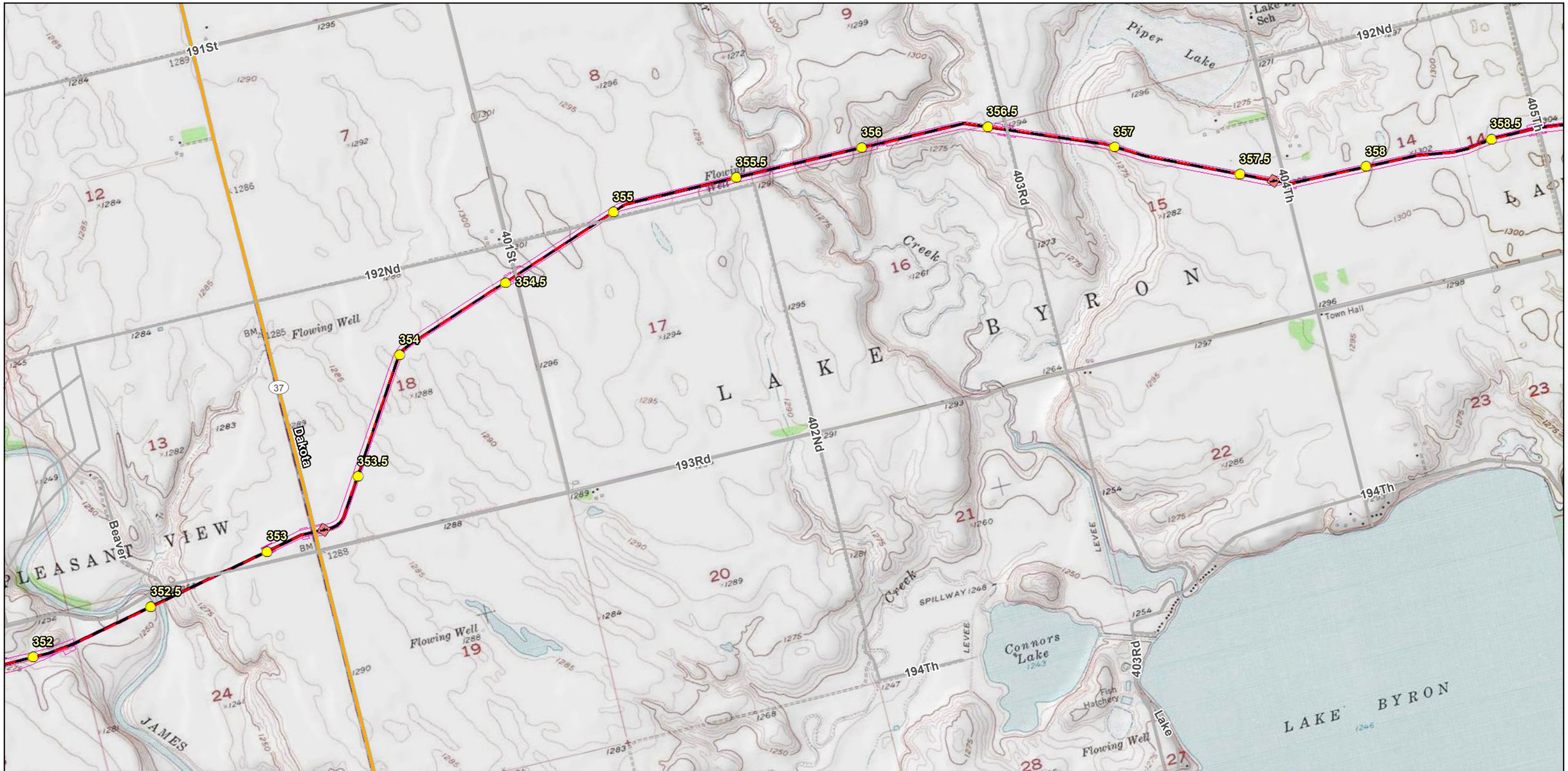
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 25 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

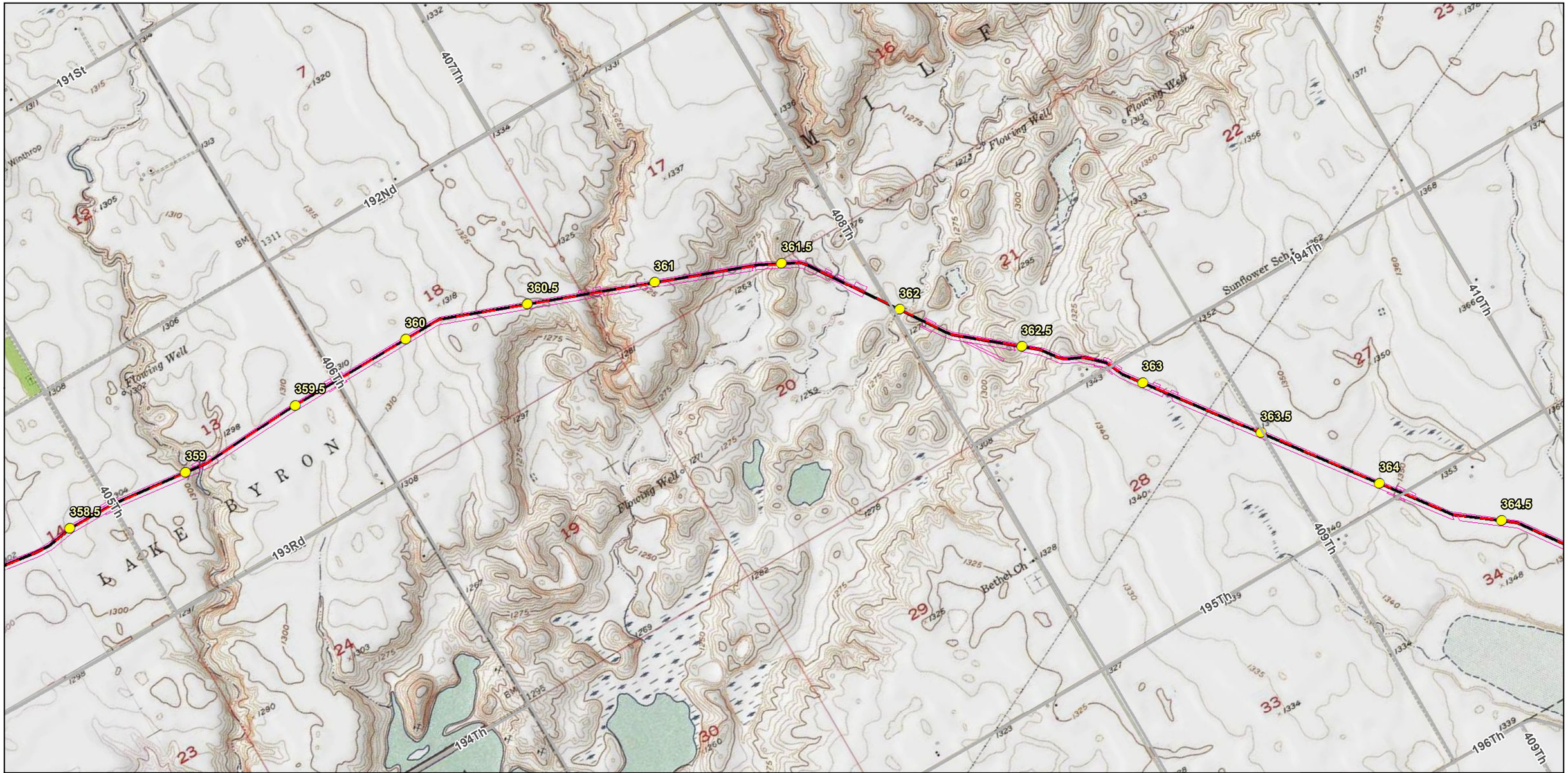
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 26 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

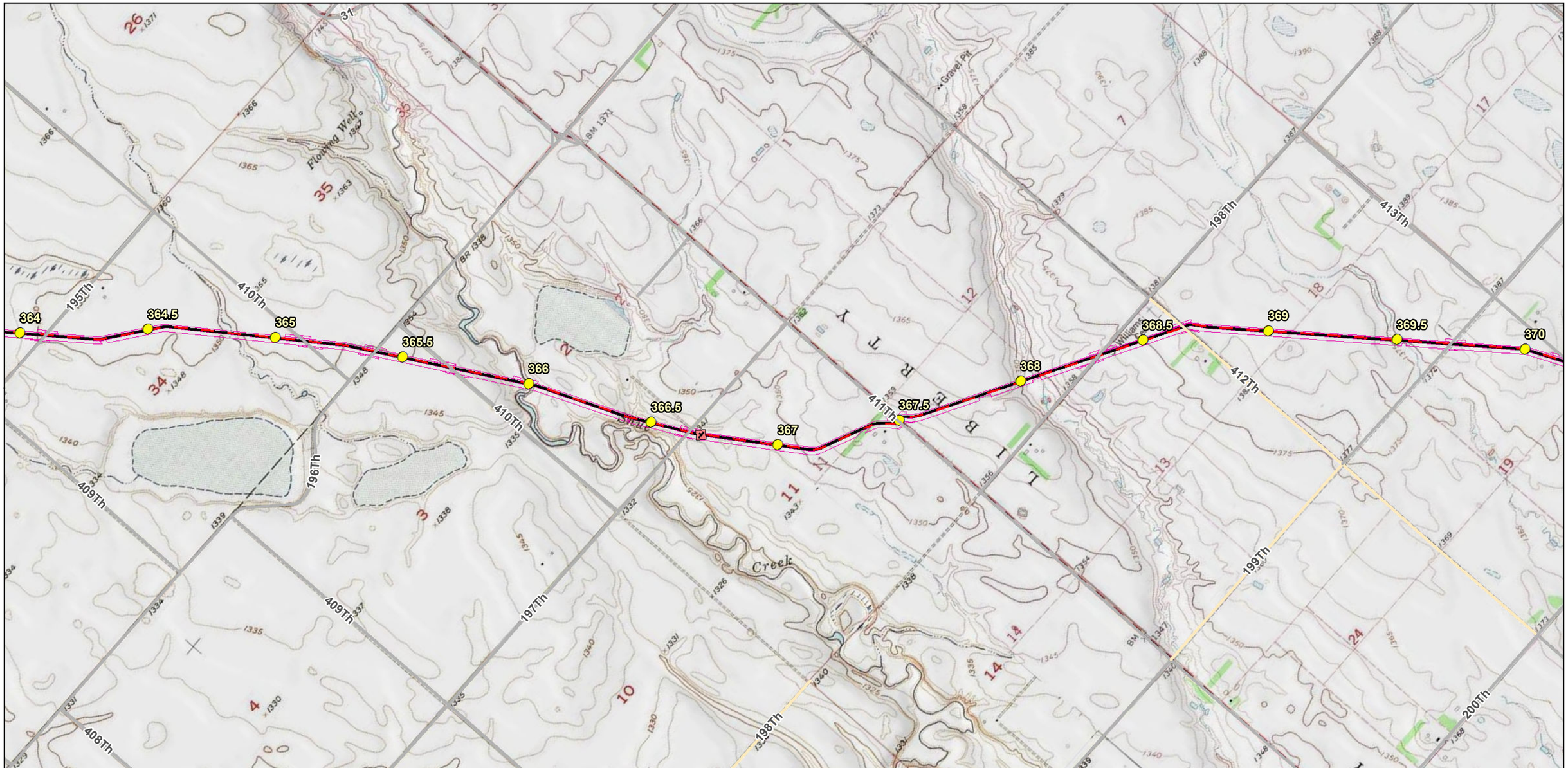
0 2,000 4,000 6,000 8,000 Feet

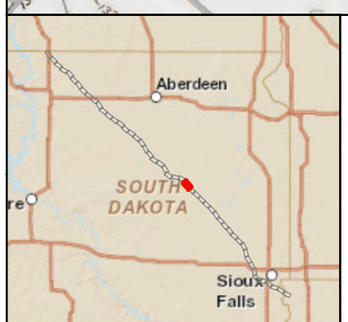
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 27 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

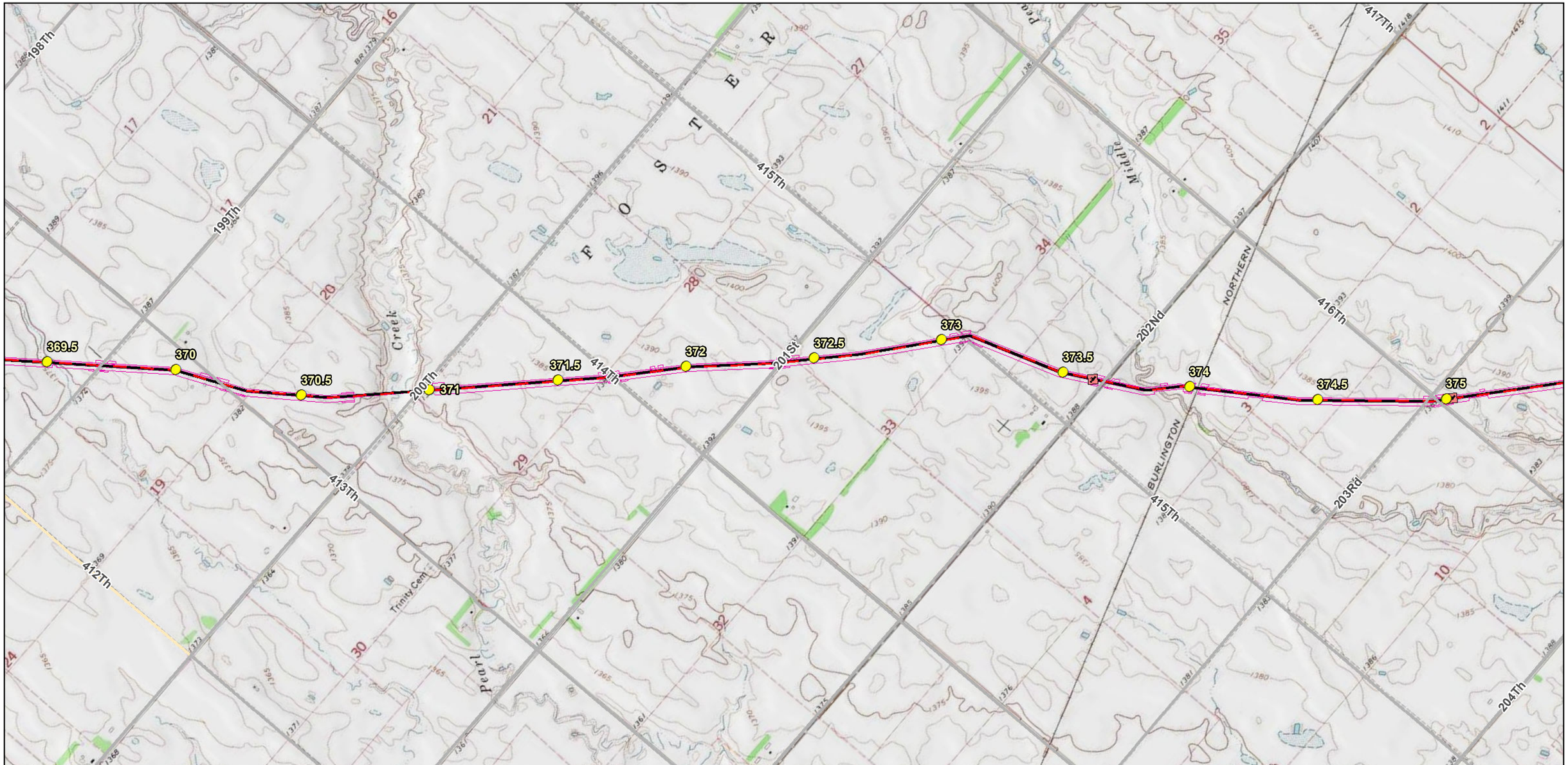
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 28 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 29 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

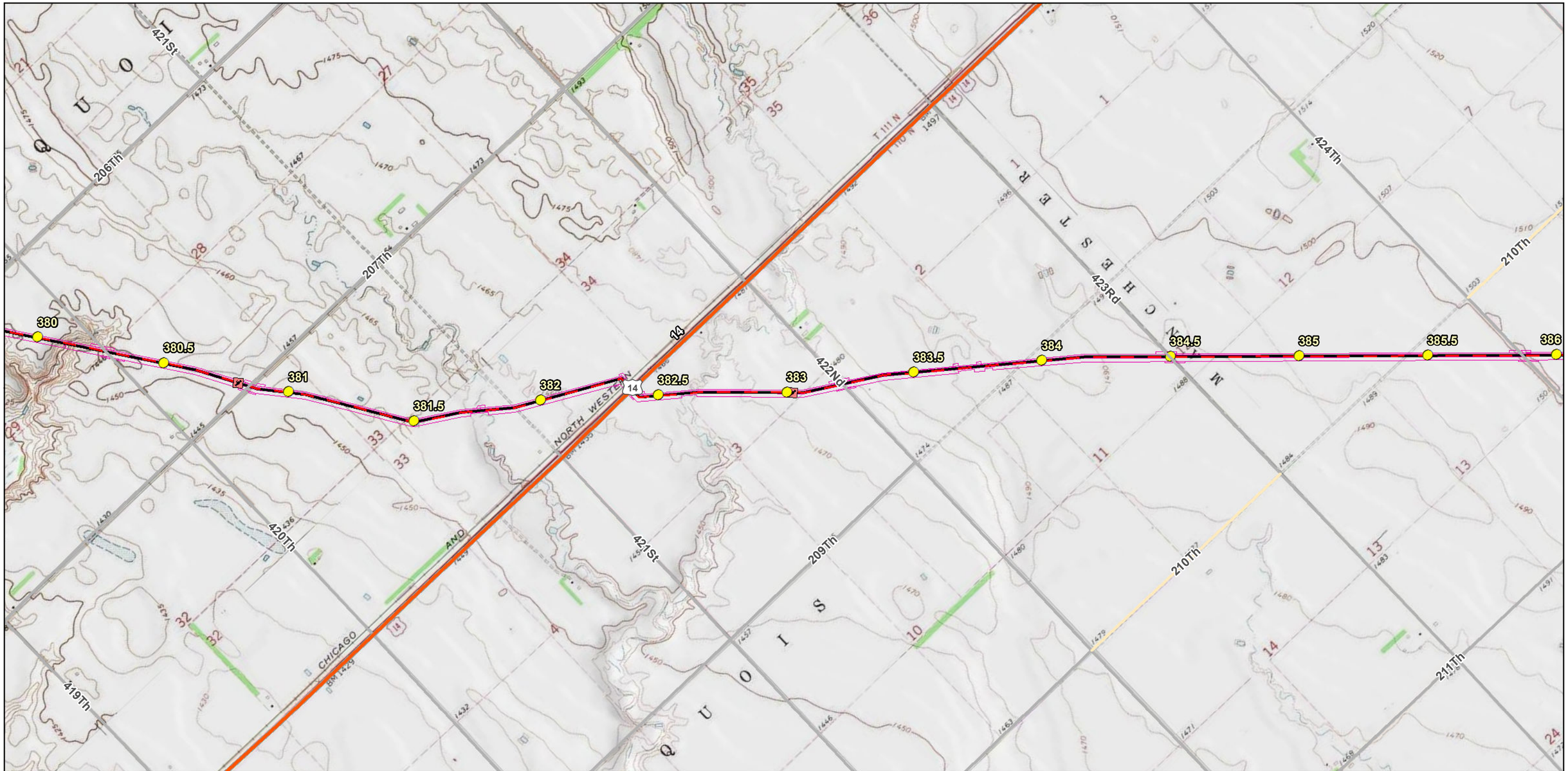
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 30 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

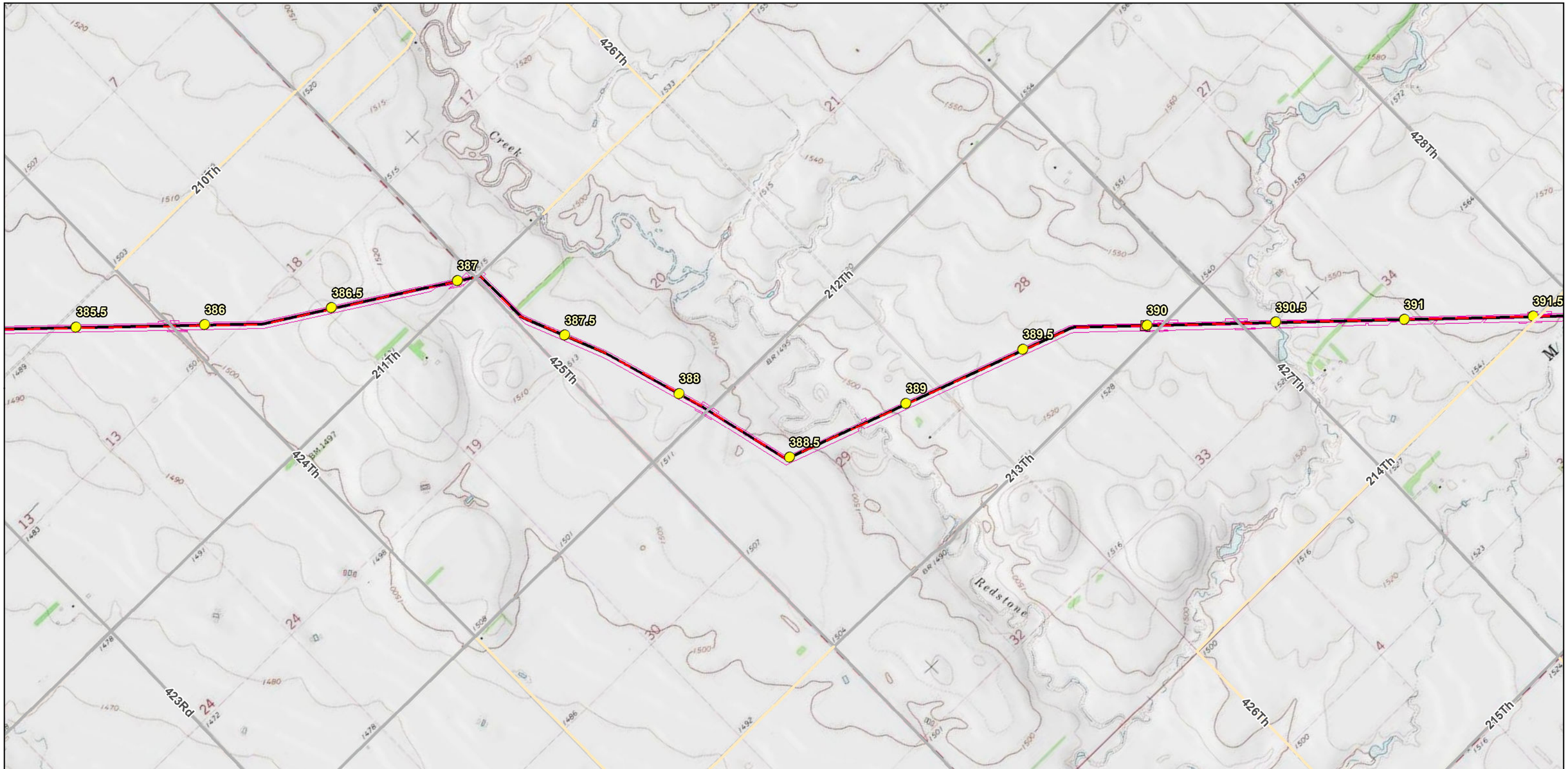
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 31 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 32 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

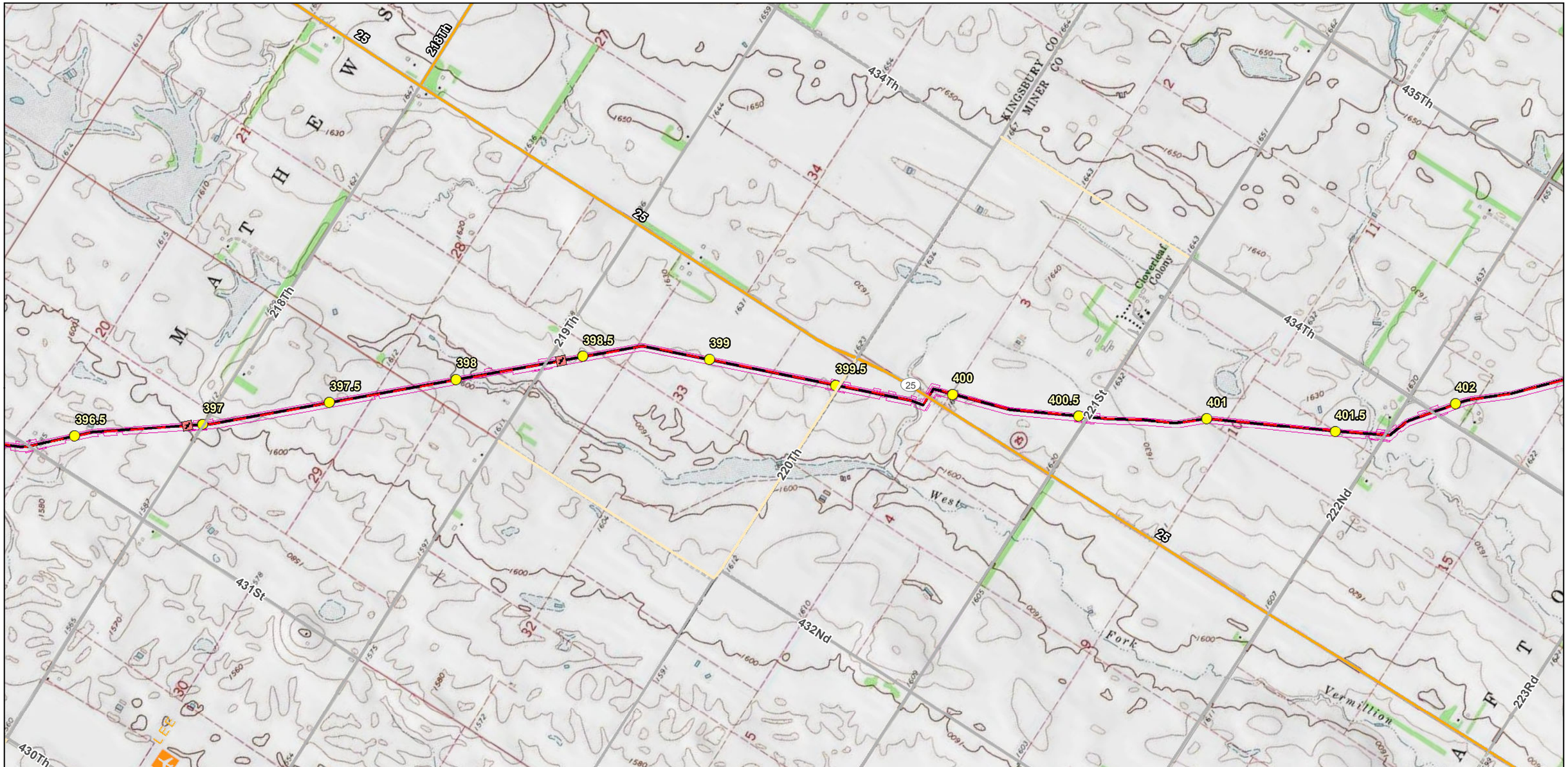
0 2,000 4,000 6,000 8,000 Feet

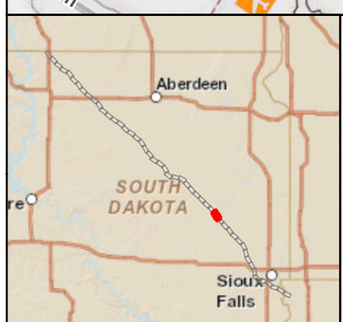
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 33 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 34 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

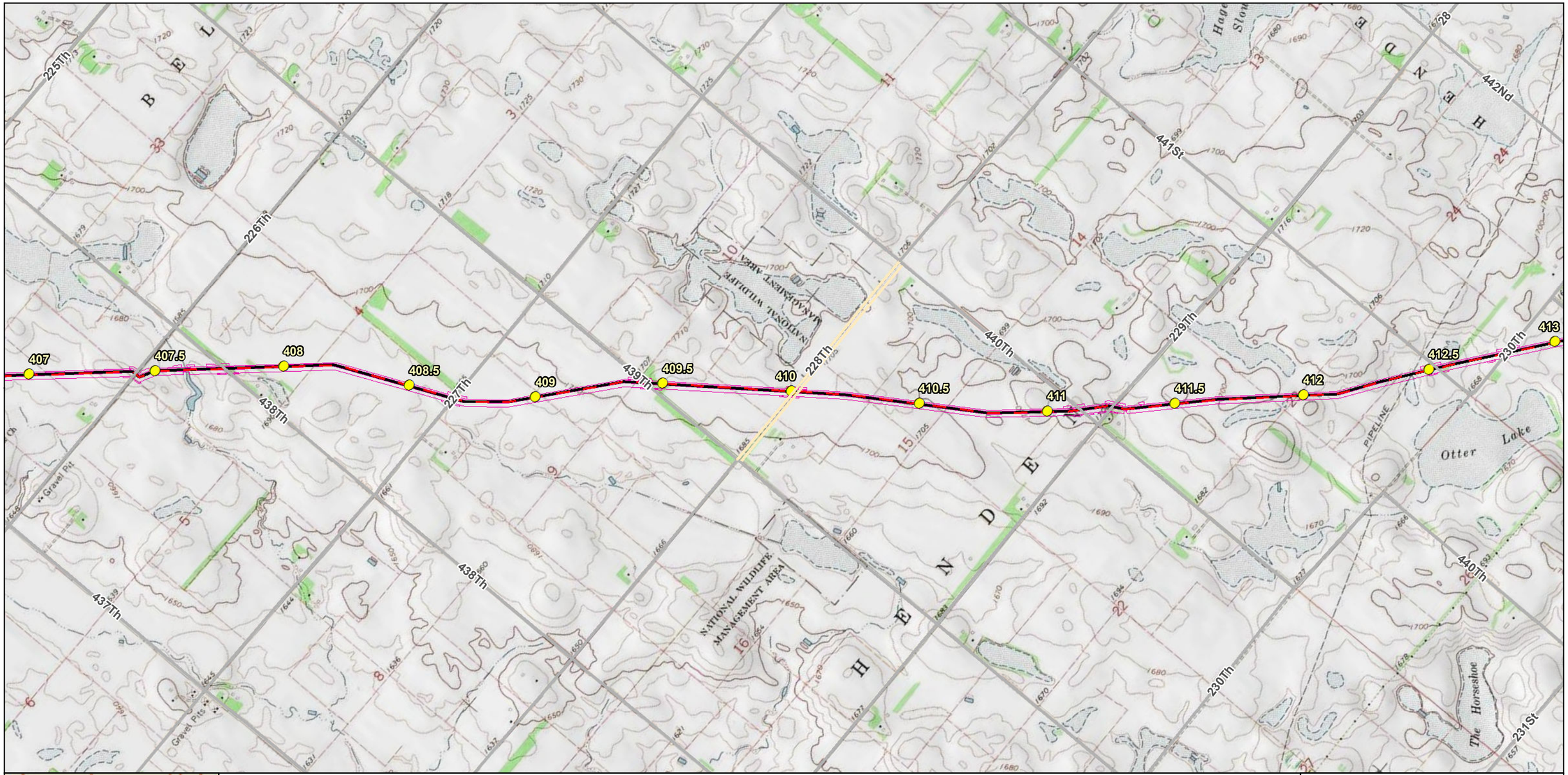
0 2,000 4,000 6,000 8,000 Feet

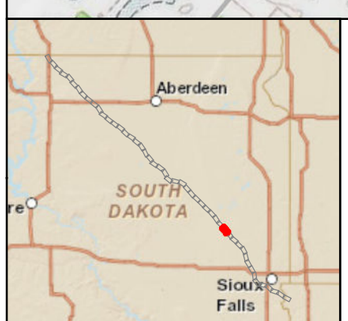
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 35 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

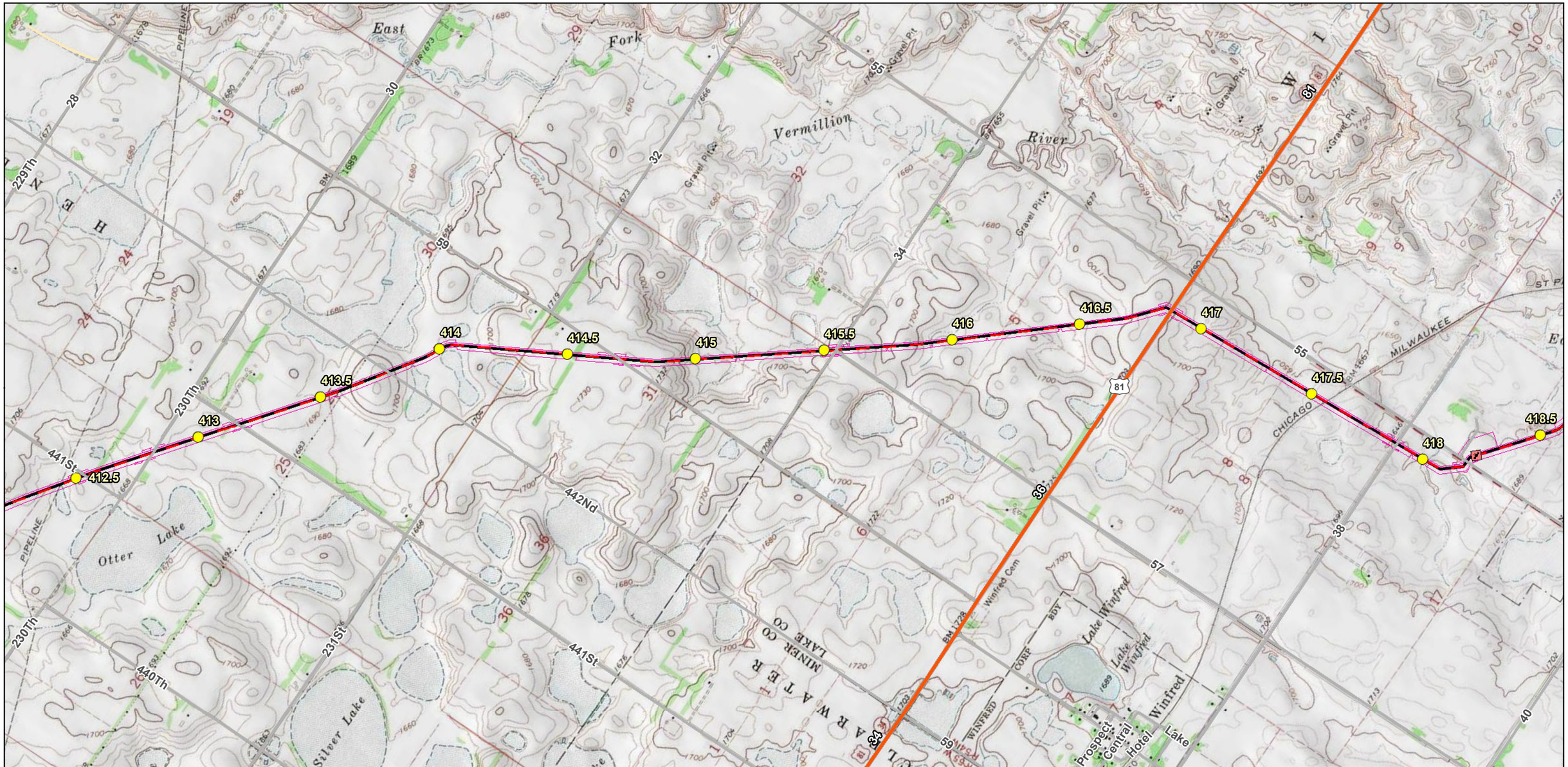
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 36 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 37 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

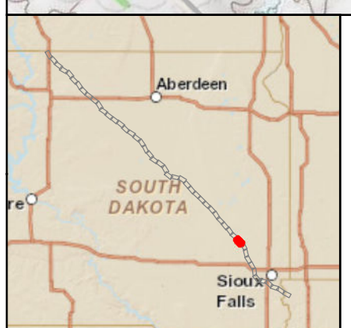
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 38 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

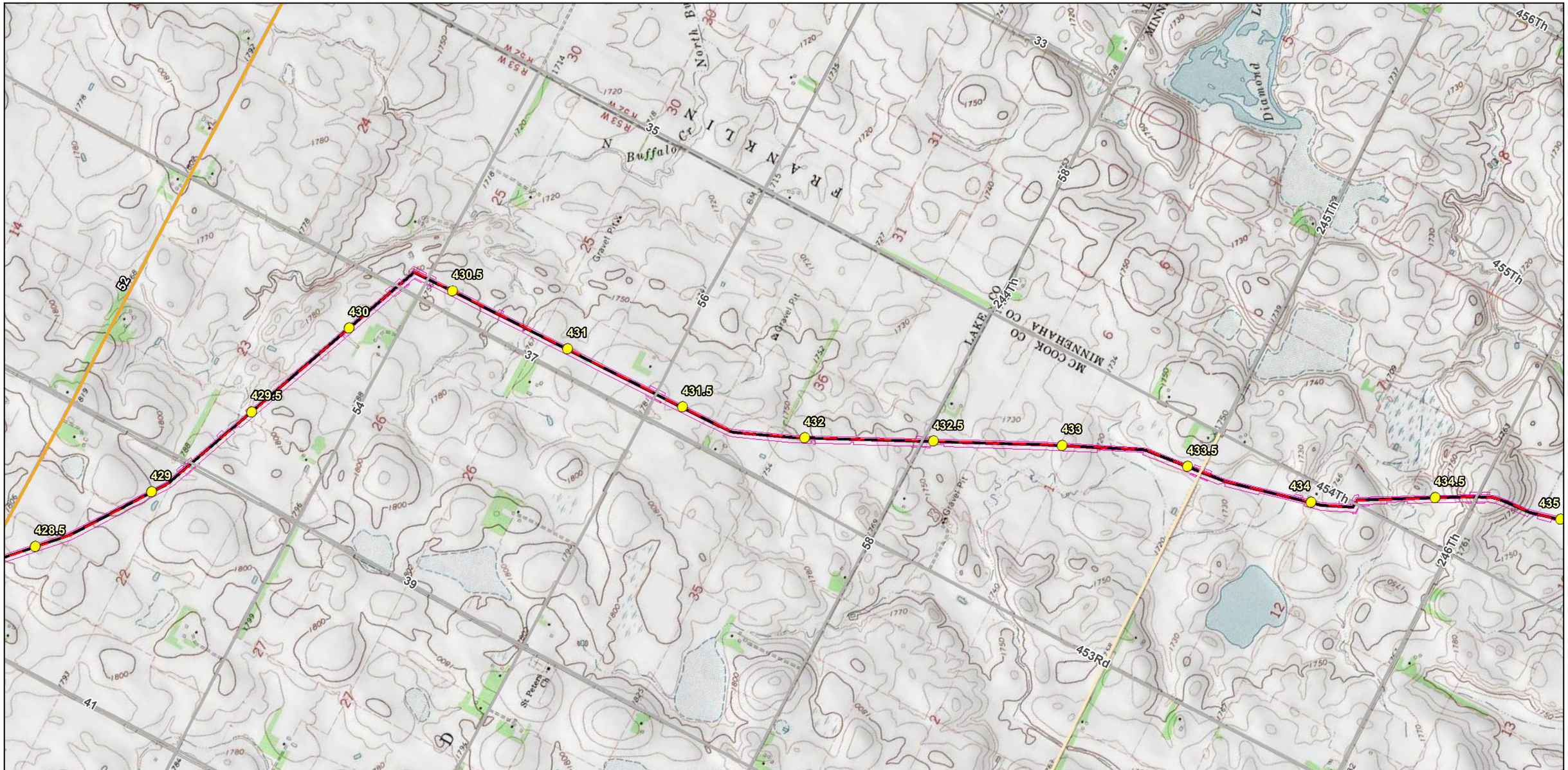
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 39 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

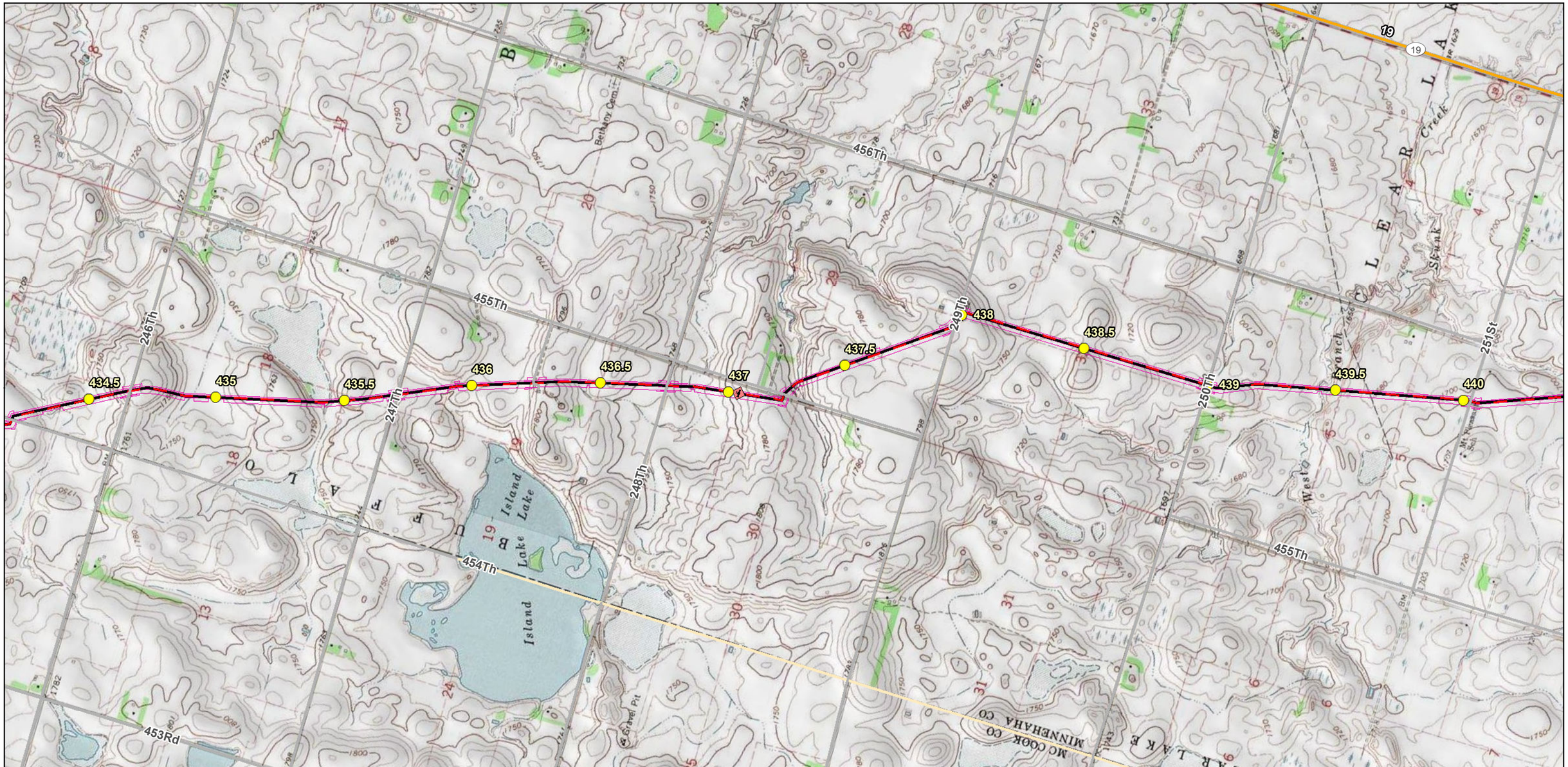
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 40 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

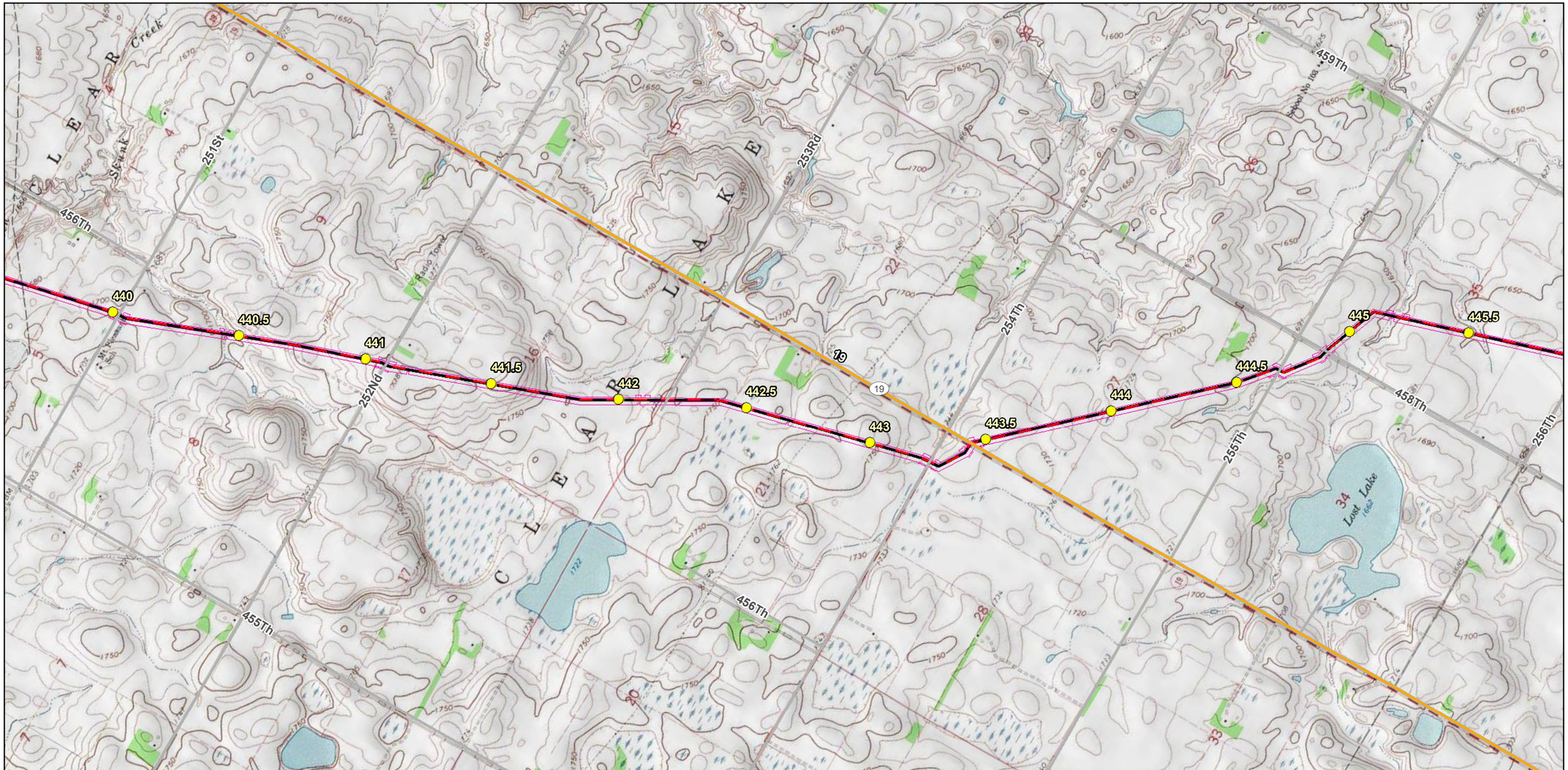
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 41 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

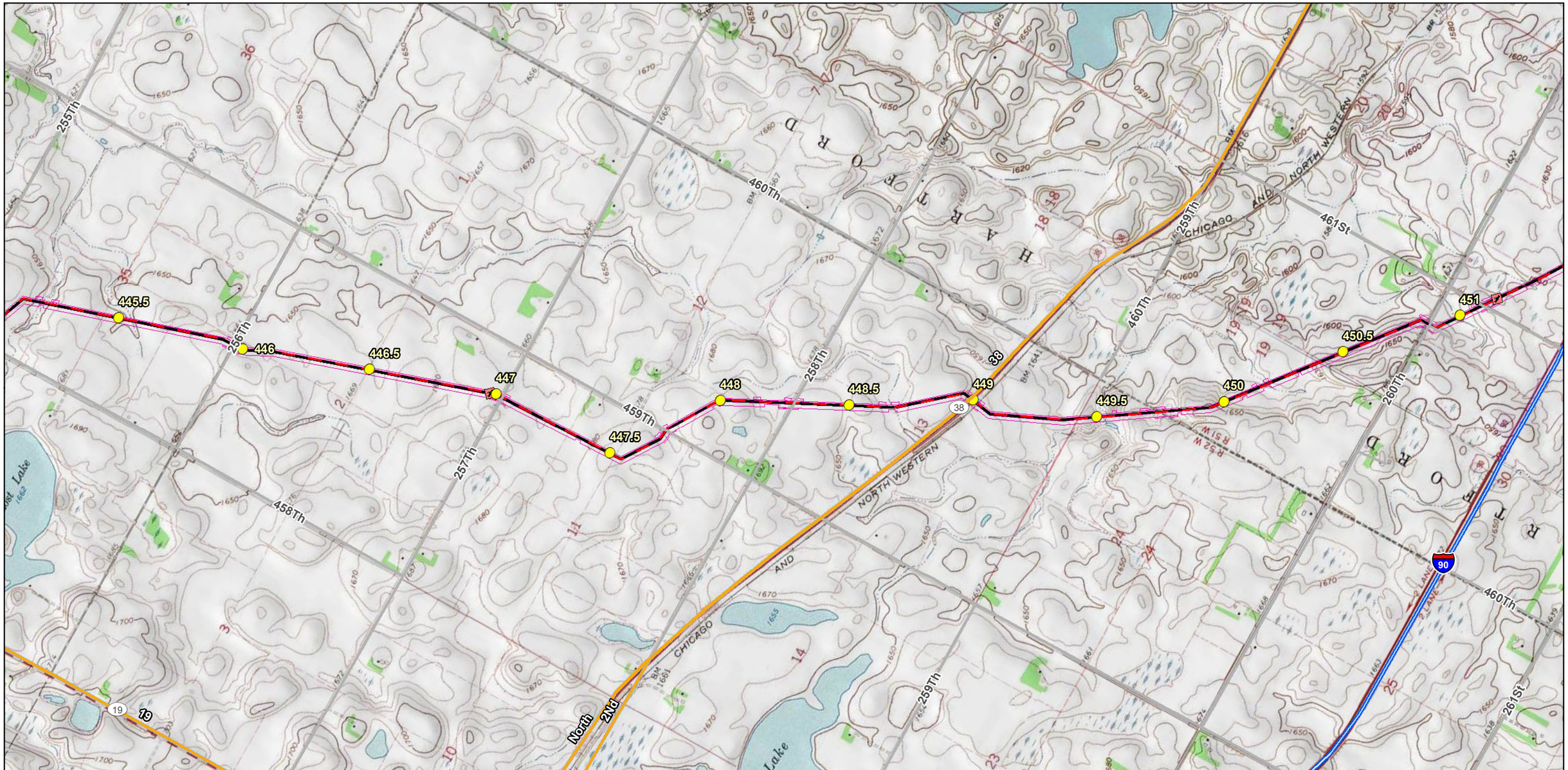


DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 42 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

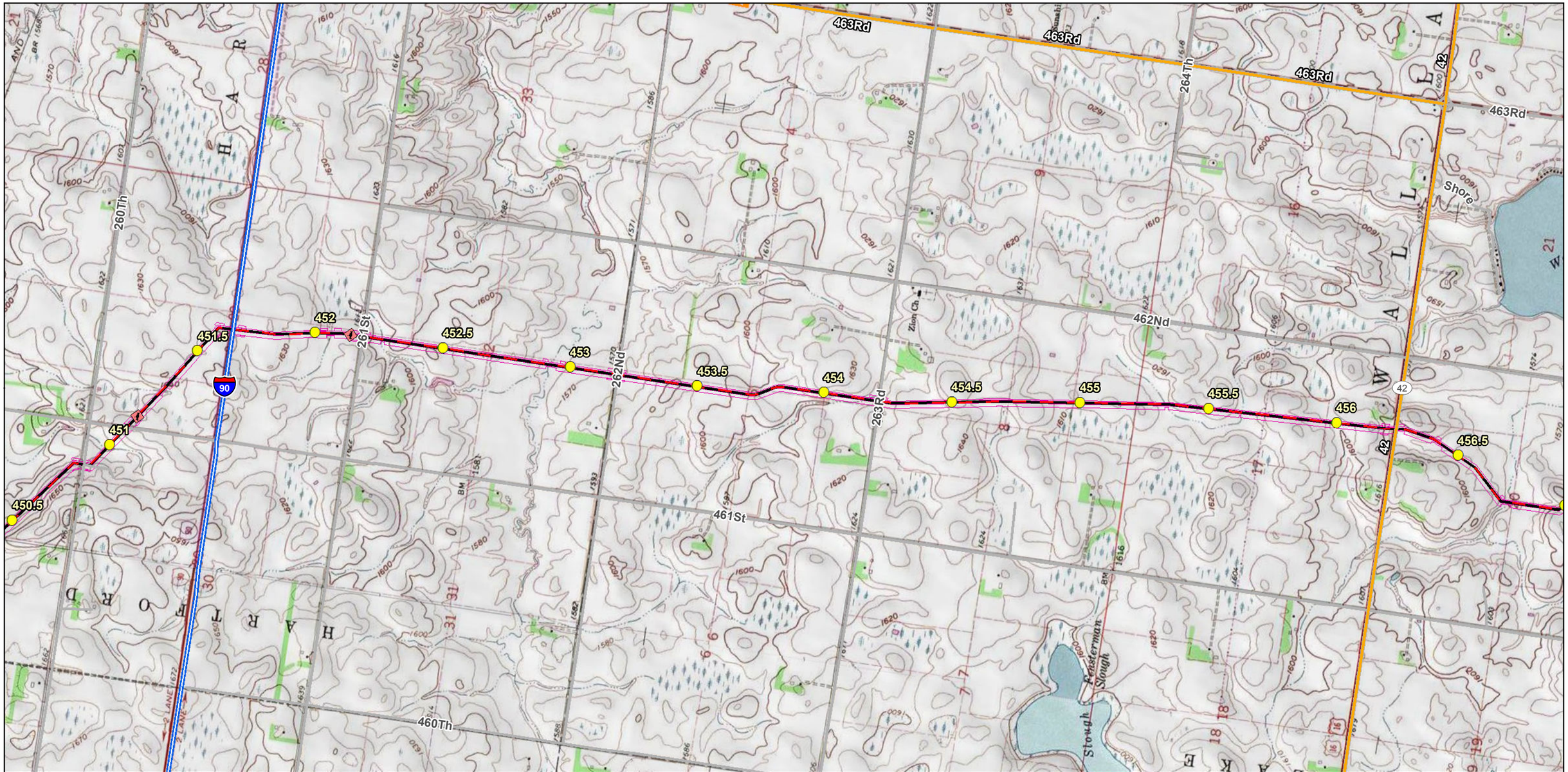
0 2,000 4,000 6,000 8,000 Feet

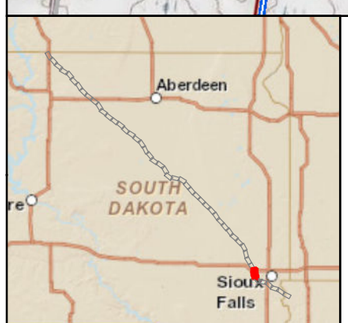
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 43 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

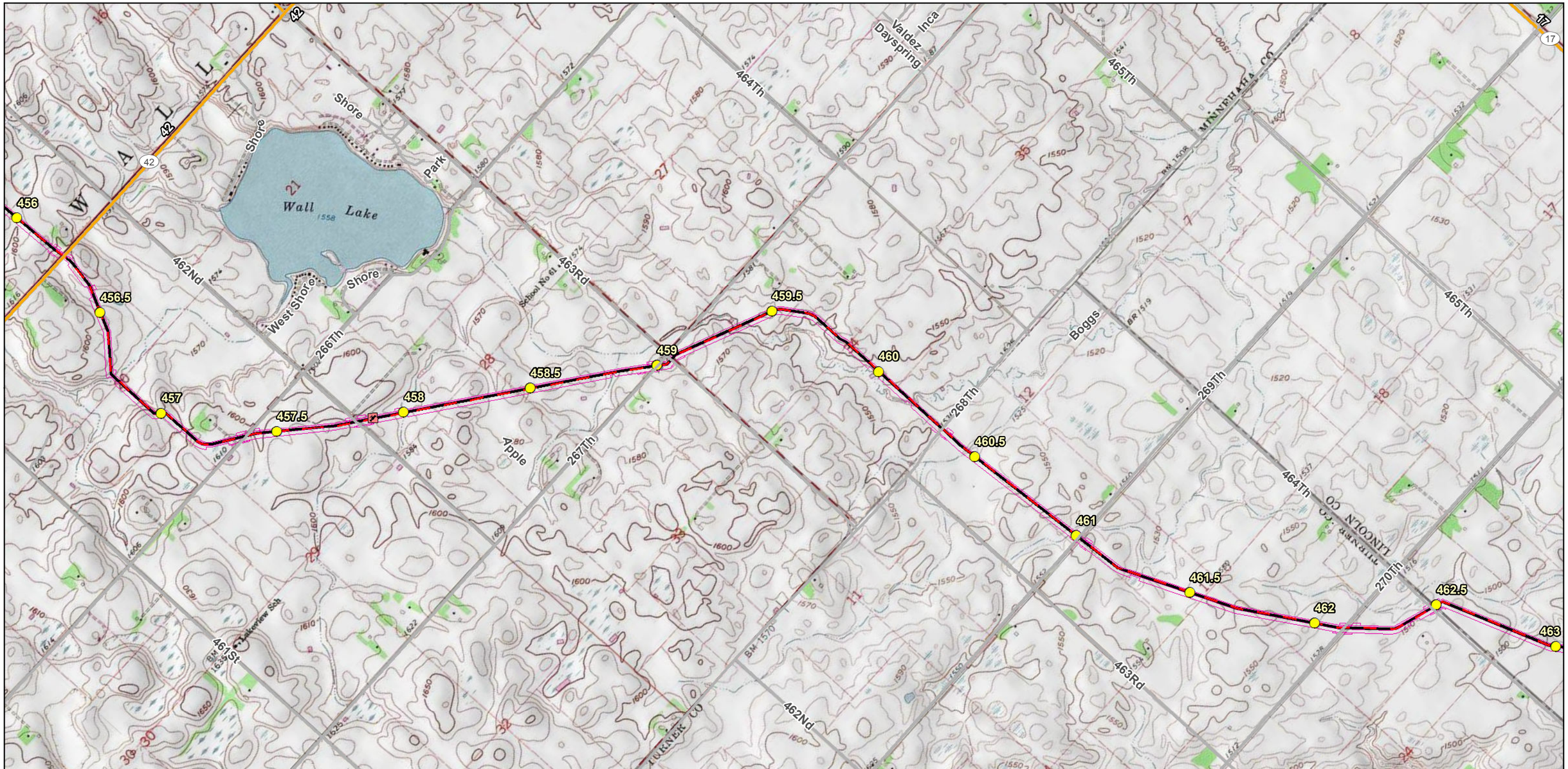
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 44 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

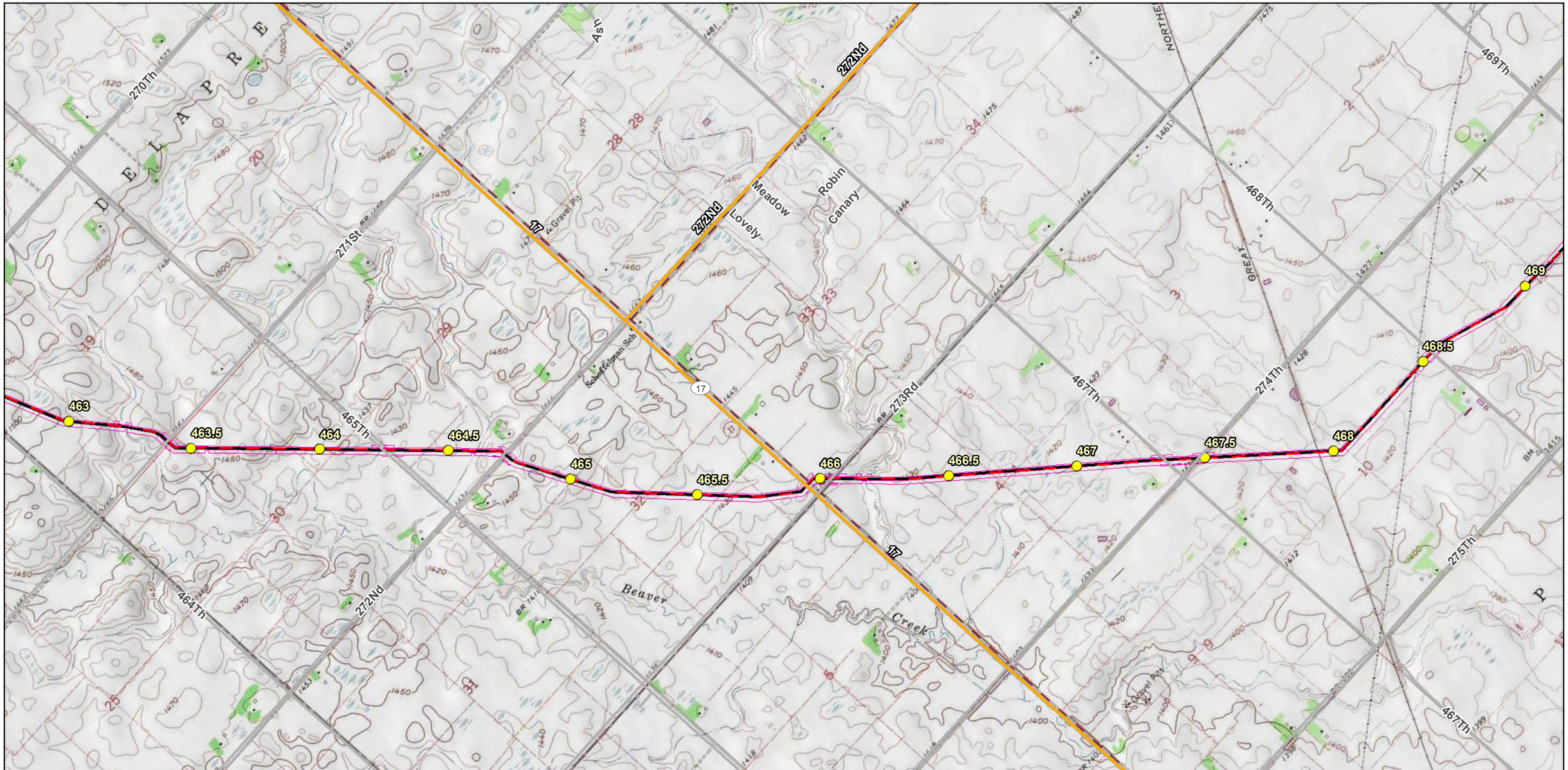
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 45 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 46 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

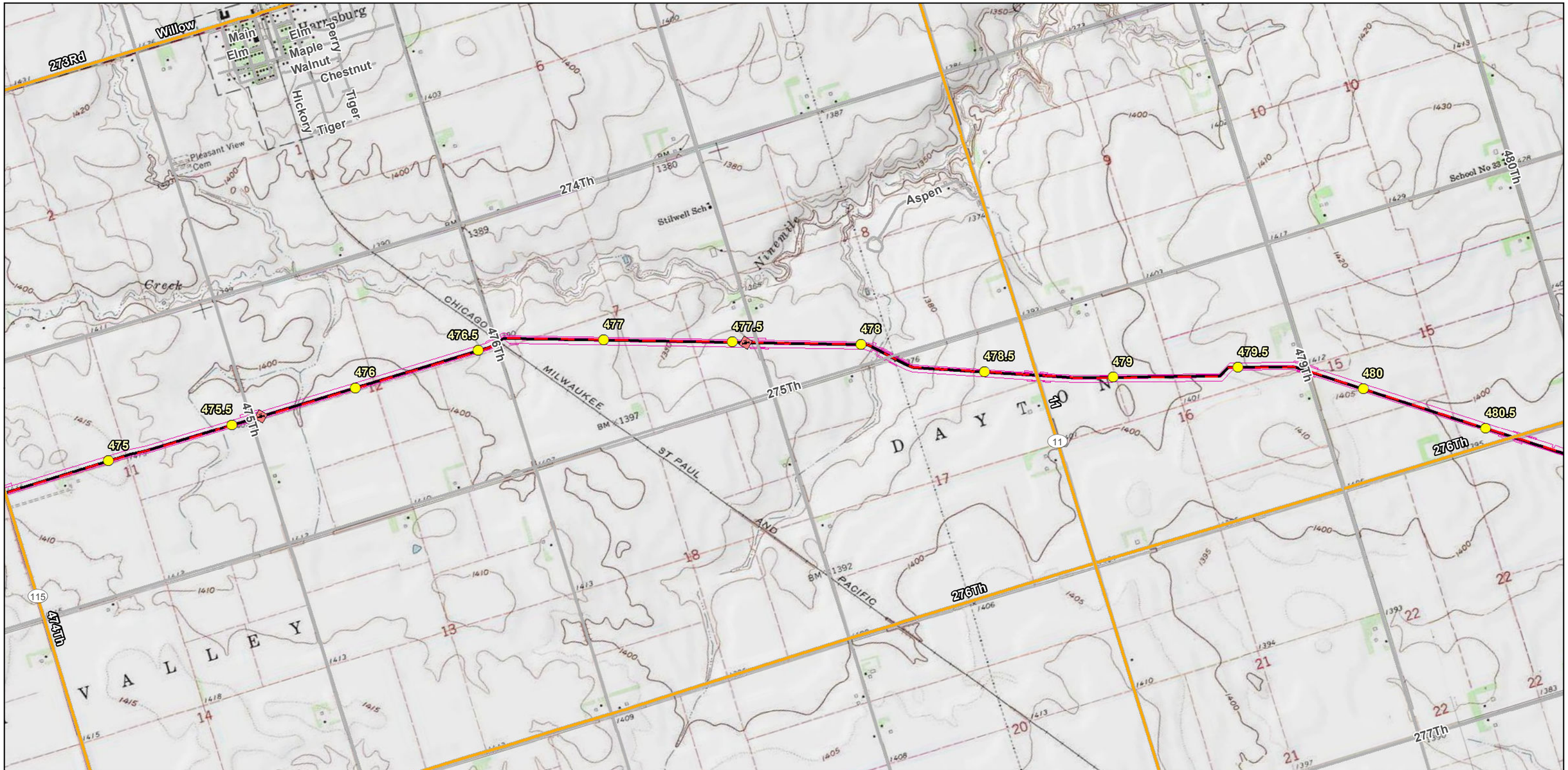
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 47 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

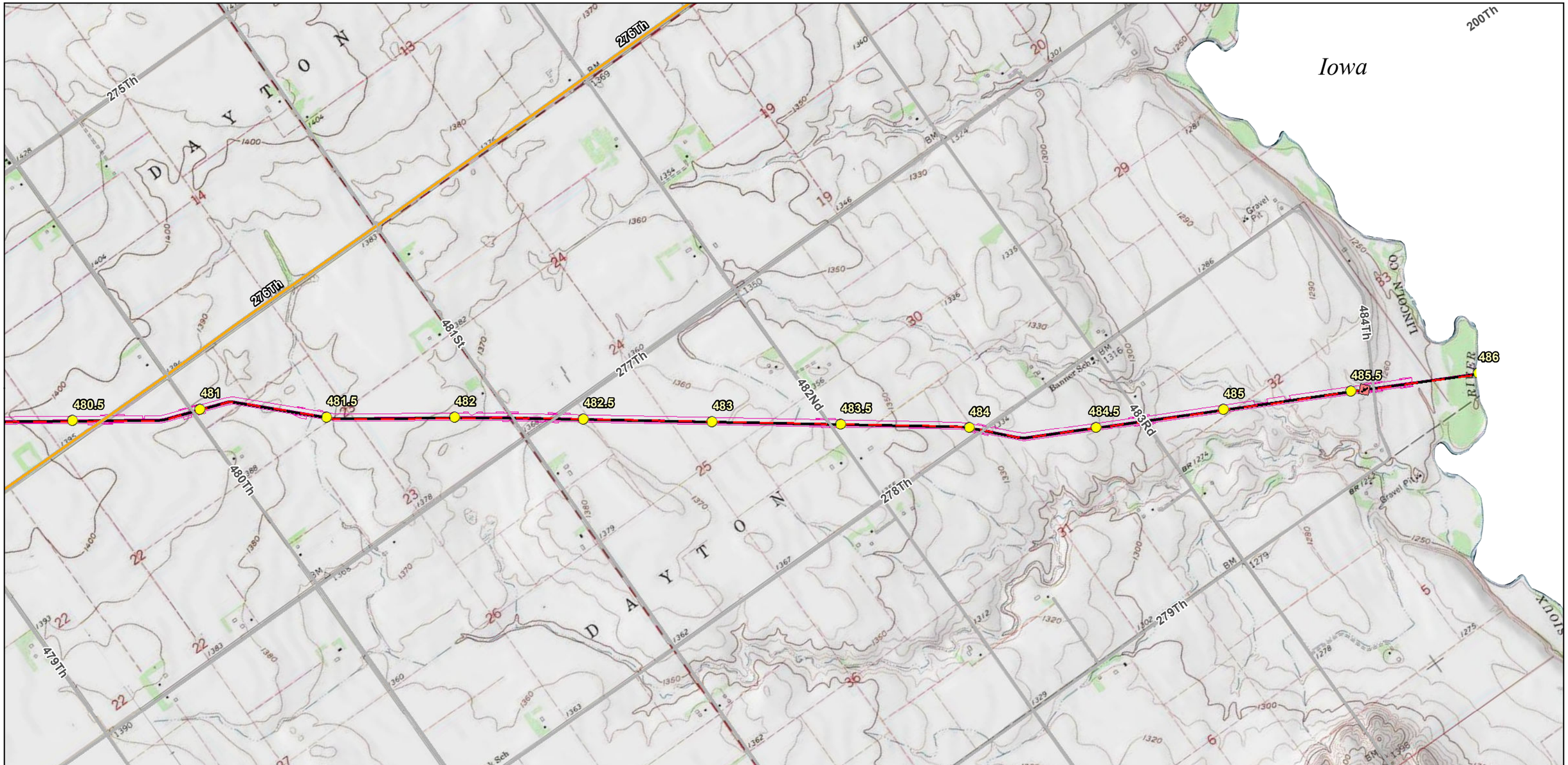
0 2,000 4,000 6,000 8,000 Feet

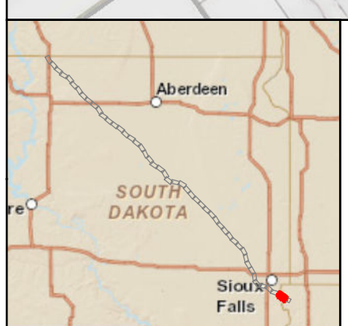
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 48 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
Work Space
Cemetery
Airport
Limited Access
Highway
Major Road
Local Road
Minor Road
Other Road

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota

Page 49 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\14_Topographic.mxd

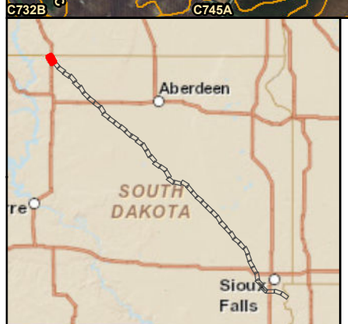
DAKOTA ACCESS, LLC

Exhibit A

Project Mapping

Exhibit A3

Soil Maps



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

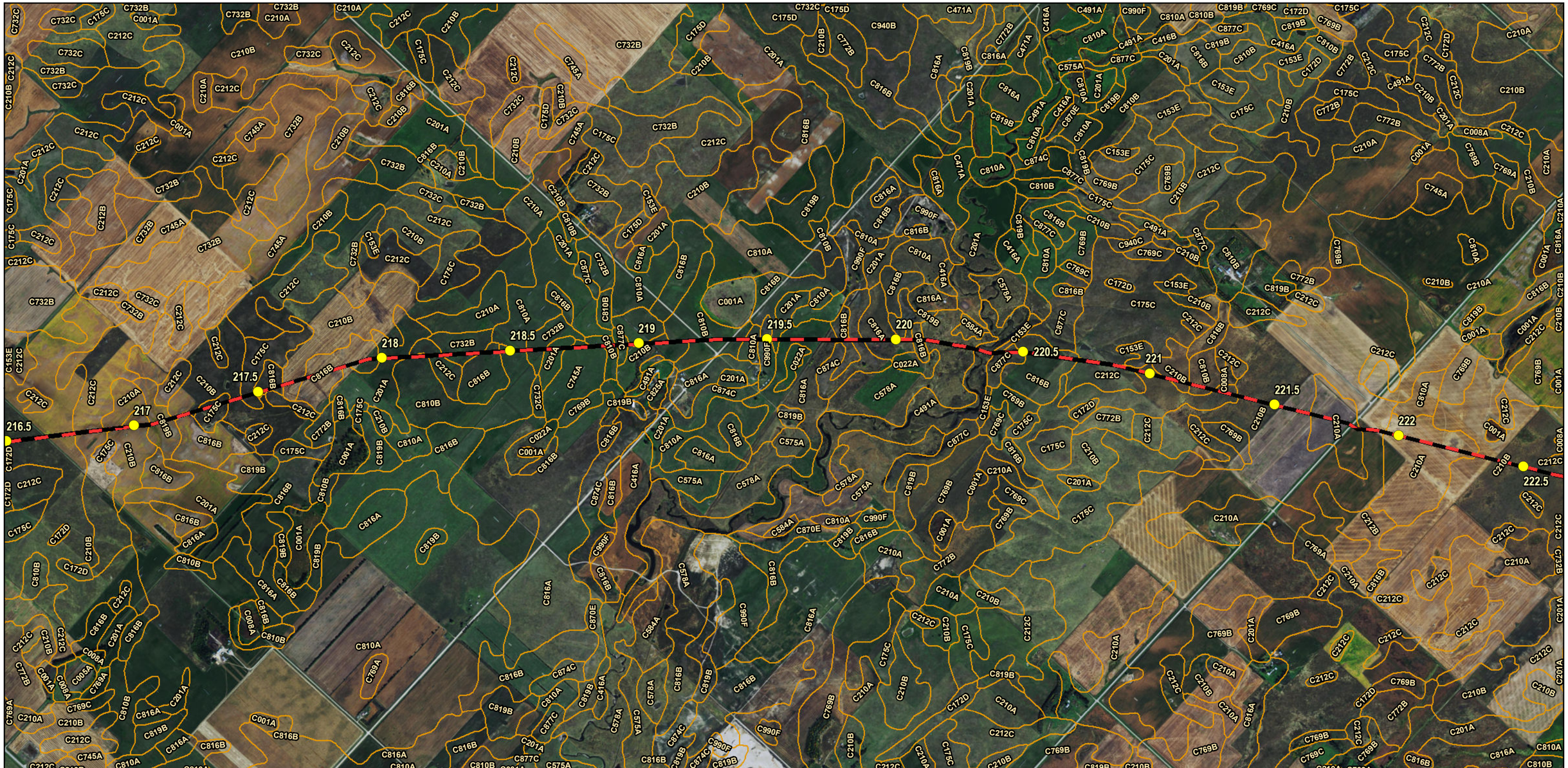
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 1 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

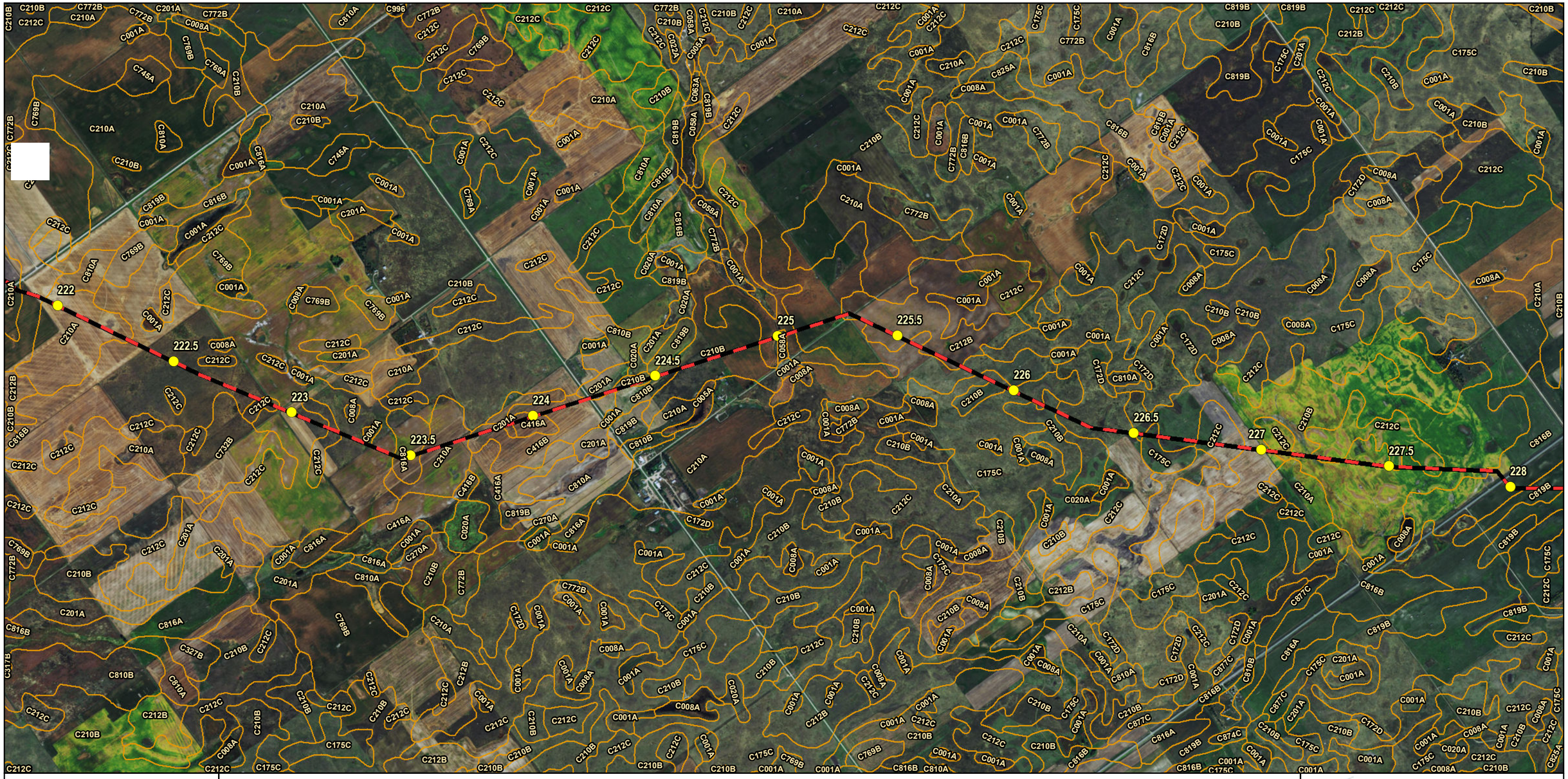
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 2 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

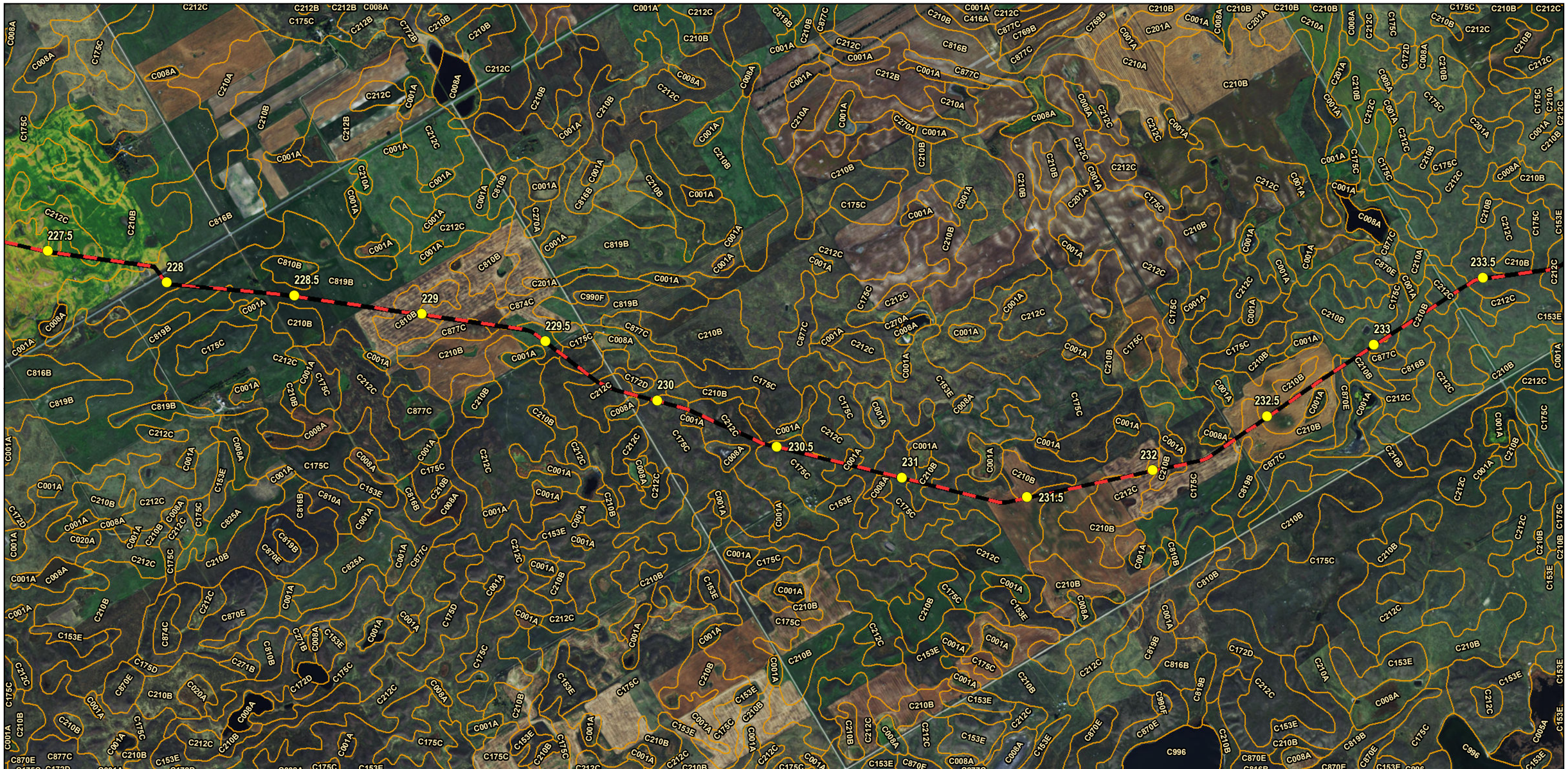
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 3 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

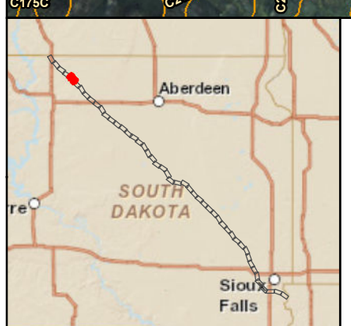
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 4 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

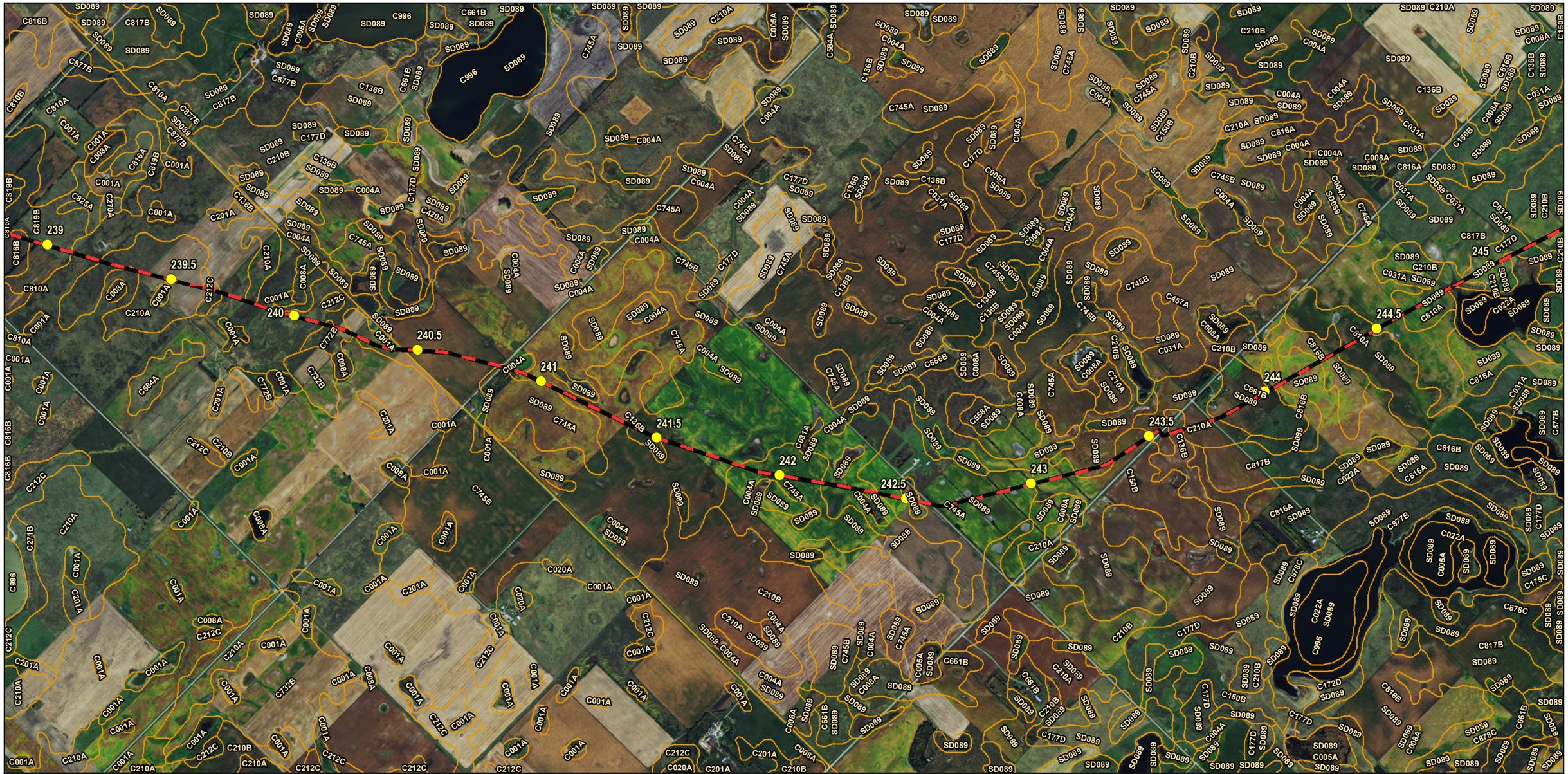
0 2,000 4,000 6,000 8,000
Feet

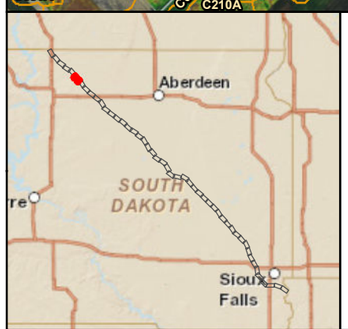
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 5 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

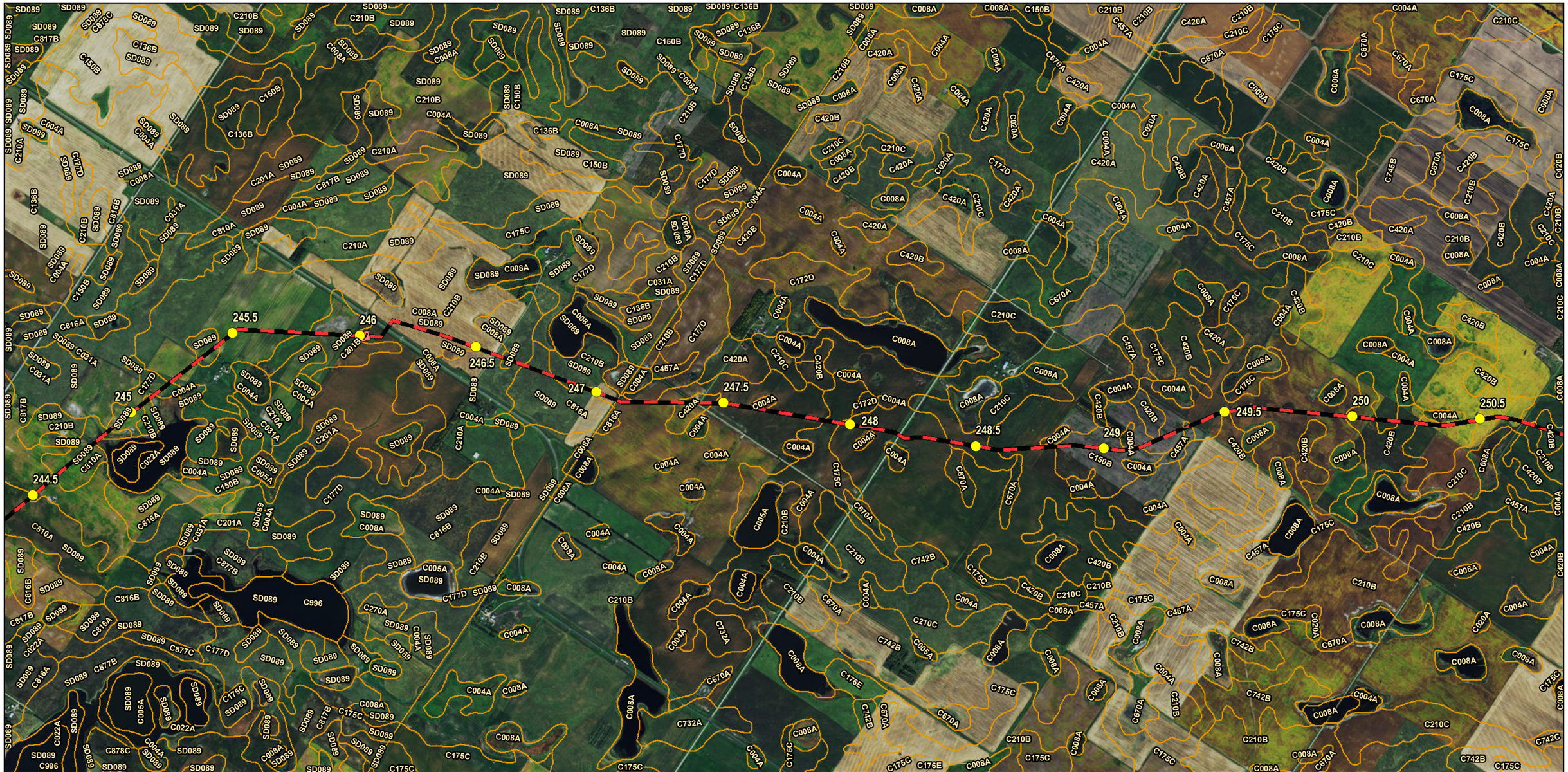
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 6 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

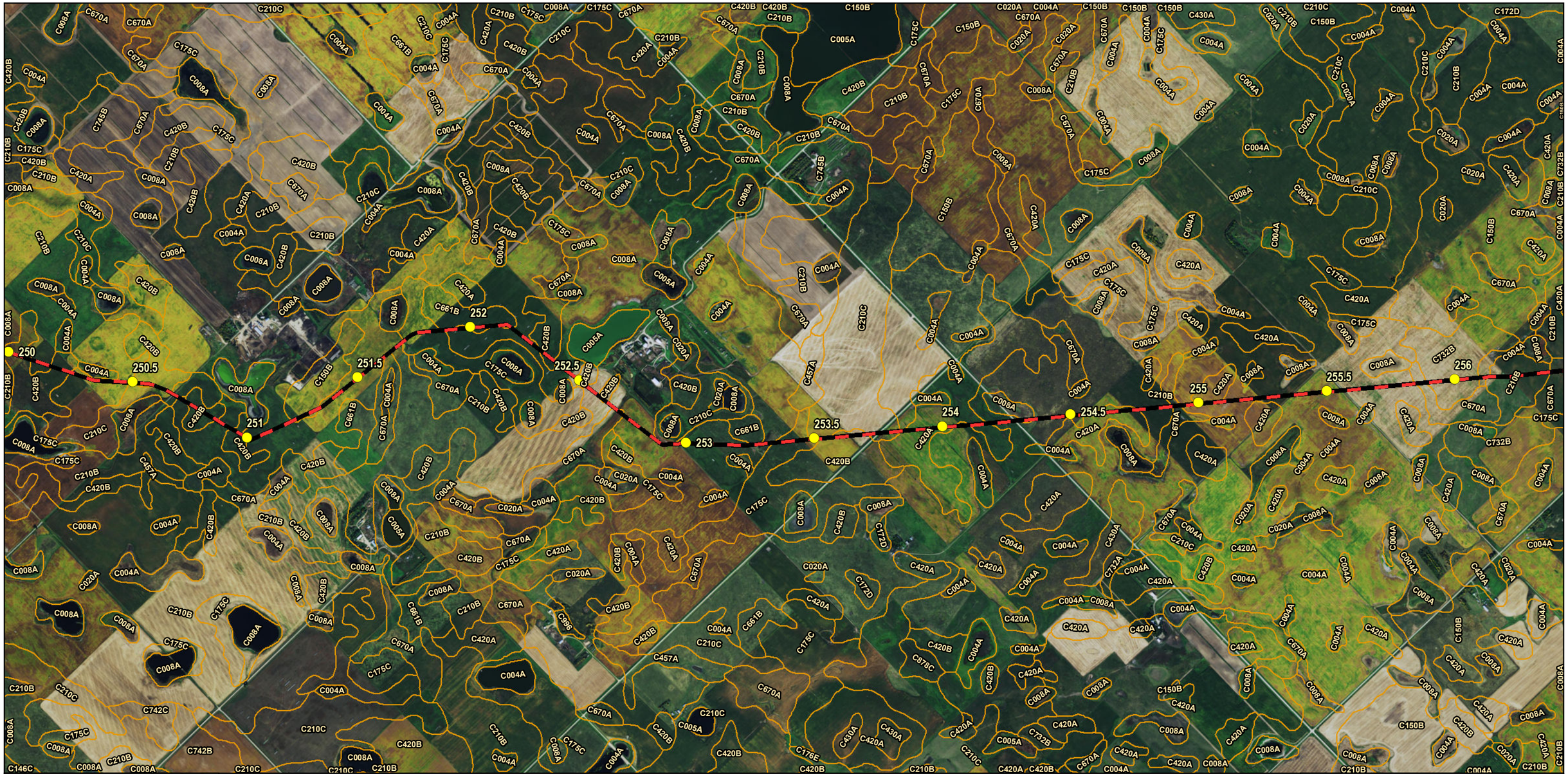
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 7 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

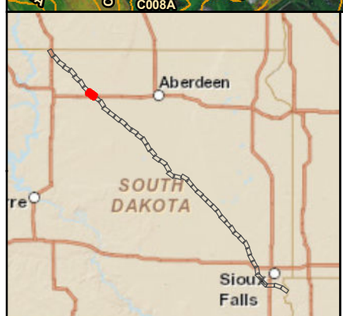
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 8 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

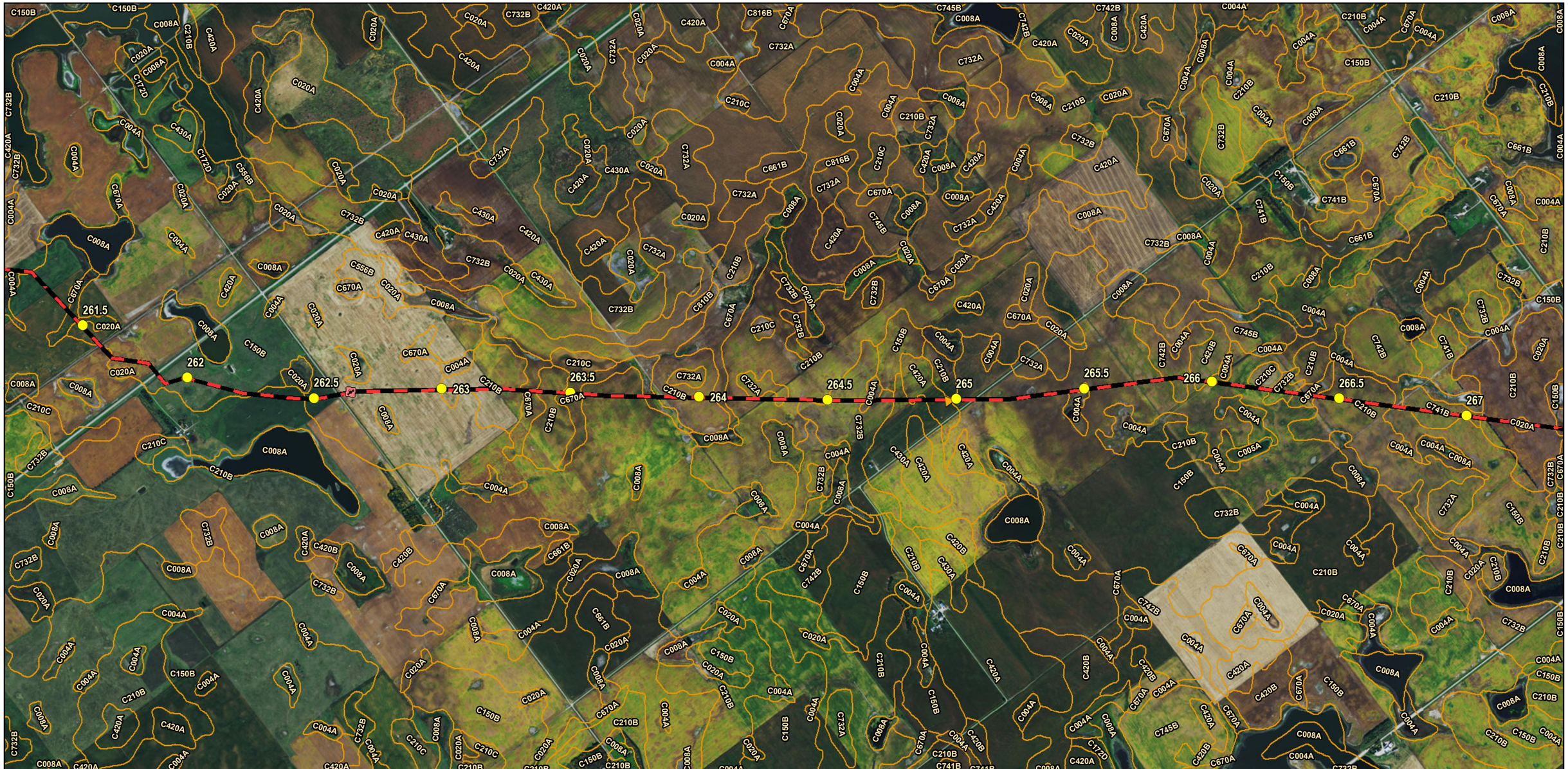
0 2,000 4,000 6,000 8,000
Feet

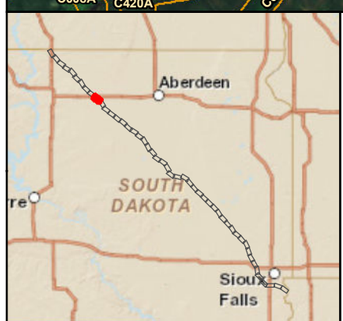
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 9 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

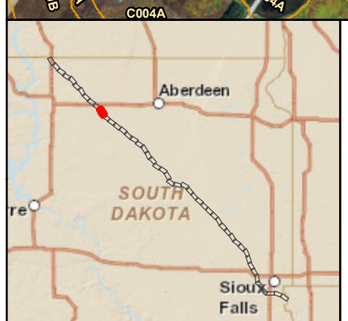
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 10 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

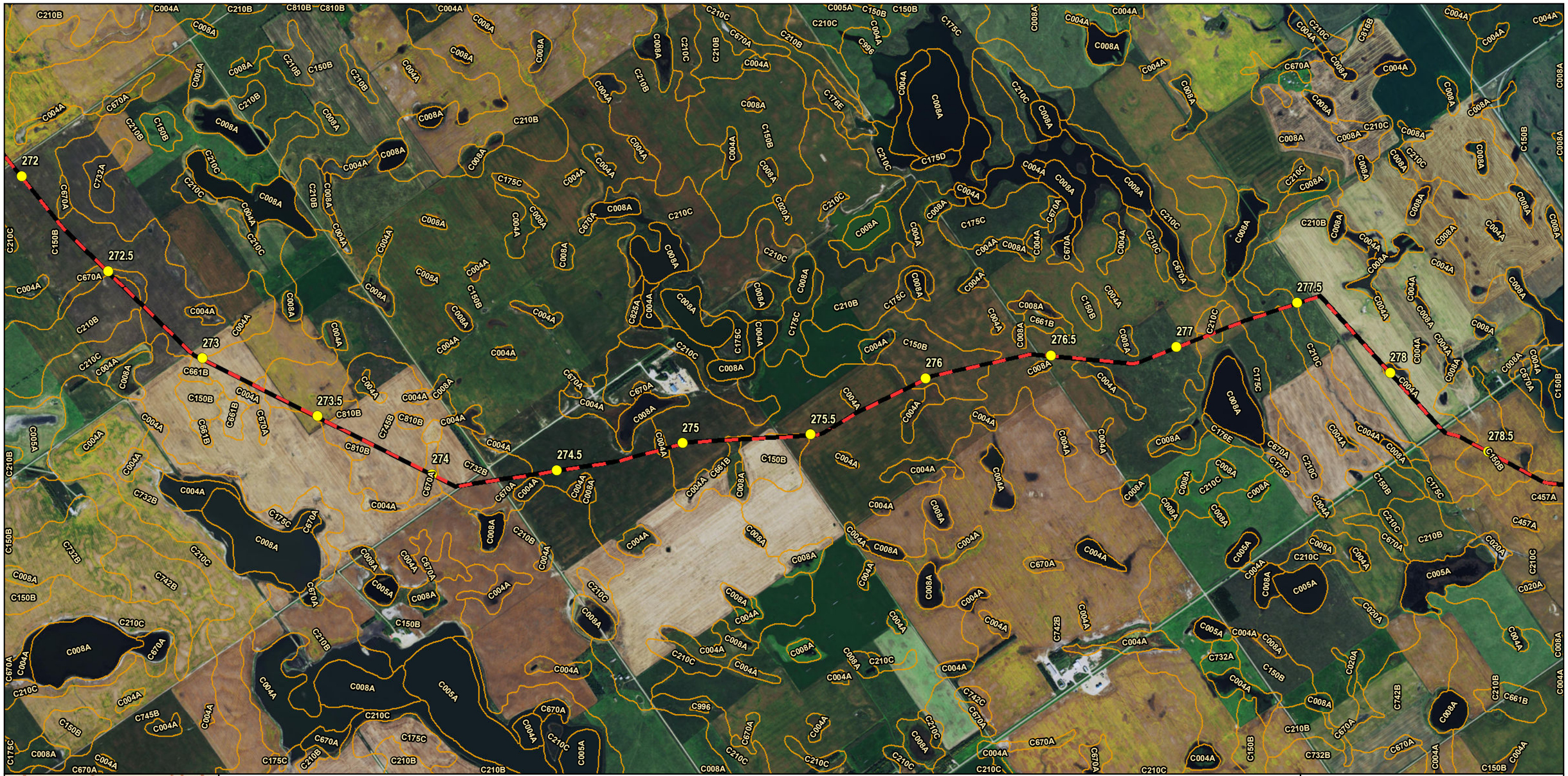
0 2,000 4,000 6,000 8,000
Feet

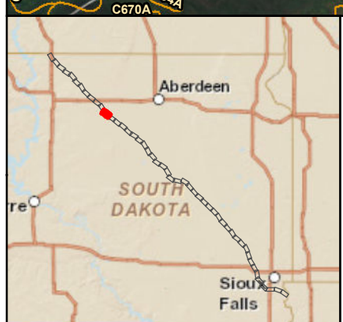
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 11 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 12 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

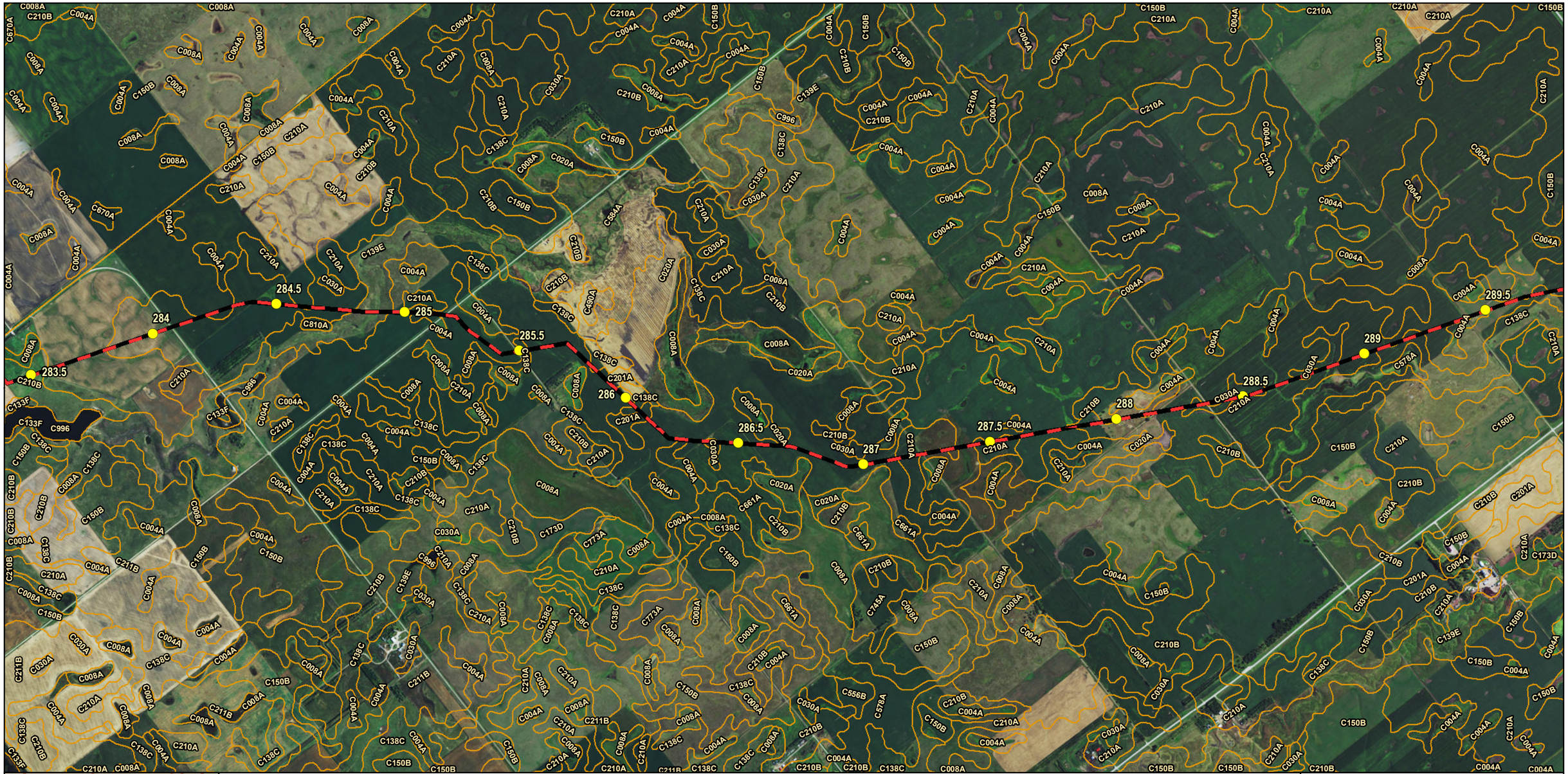
0 2,000 4,000 6,000 8,000
Feet

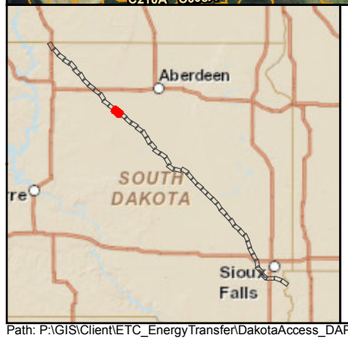
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 13 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

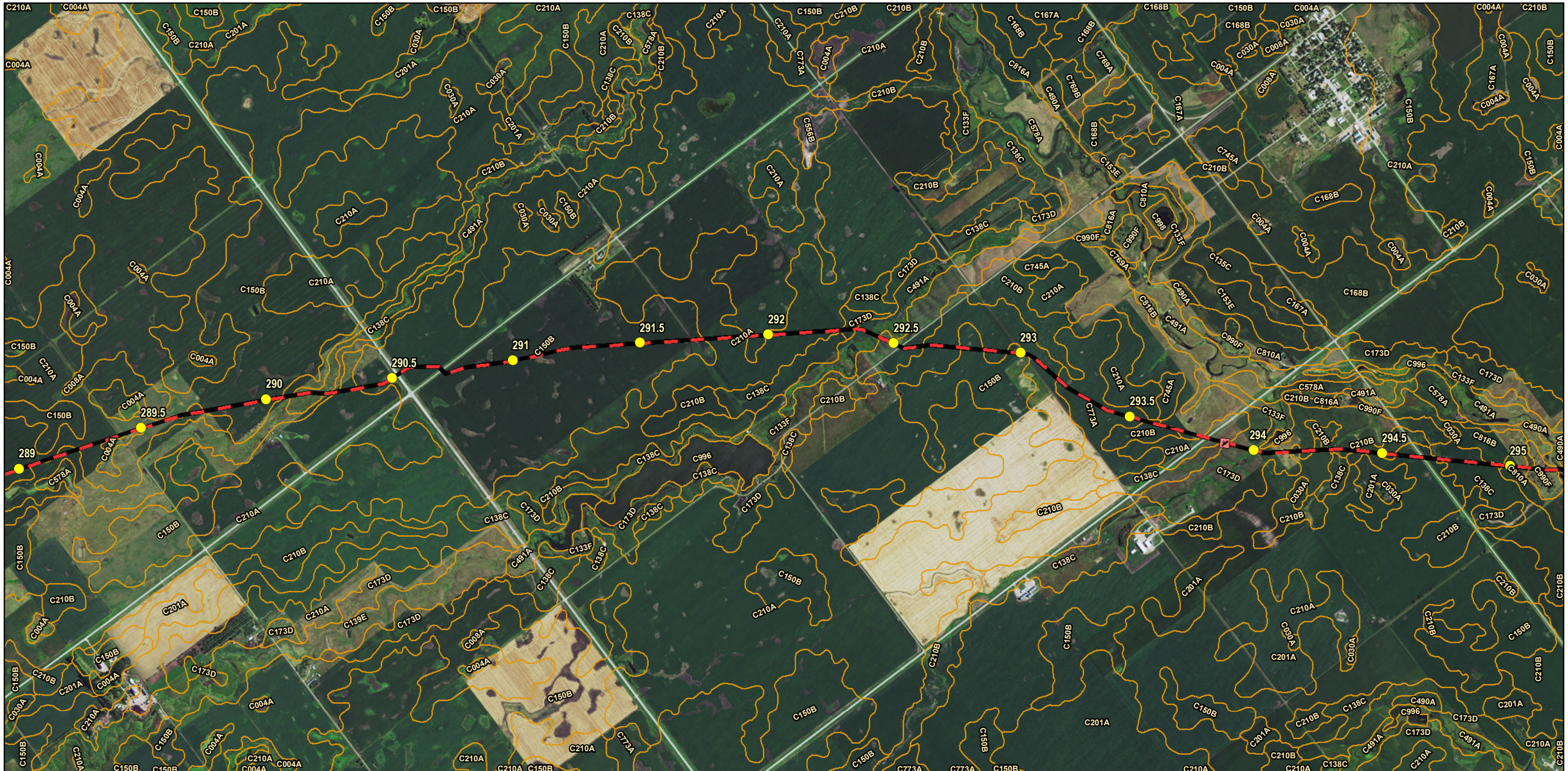
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 14 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 15 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

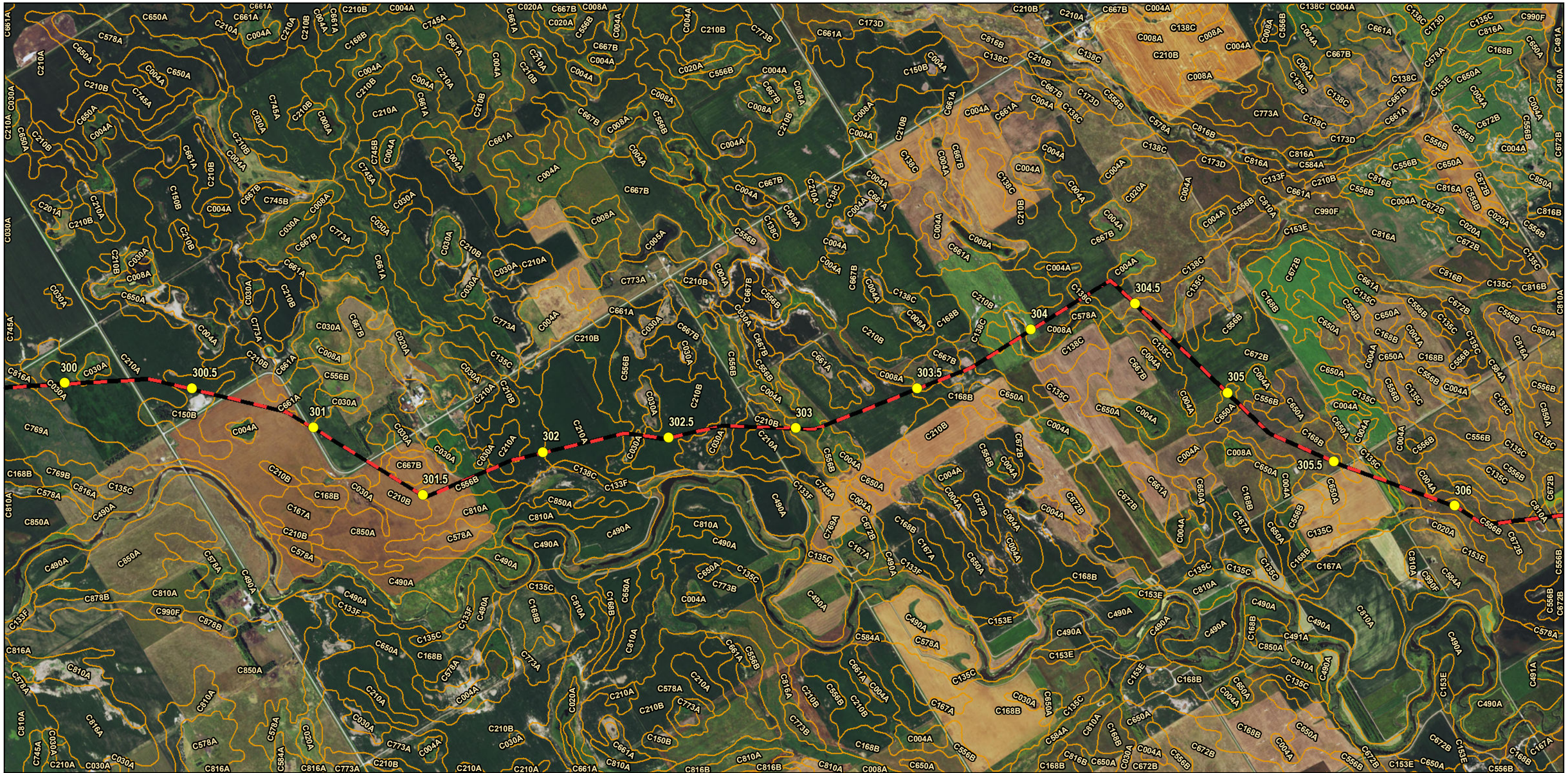
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 16 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 17 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 18 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

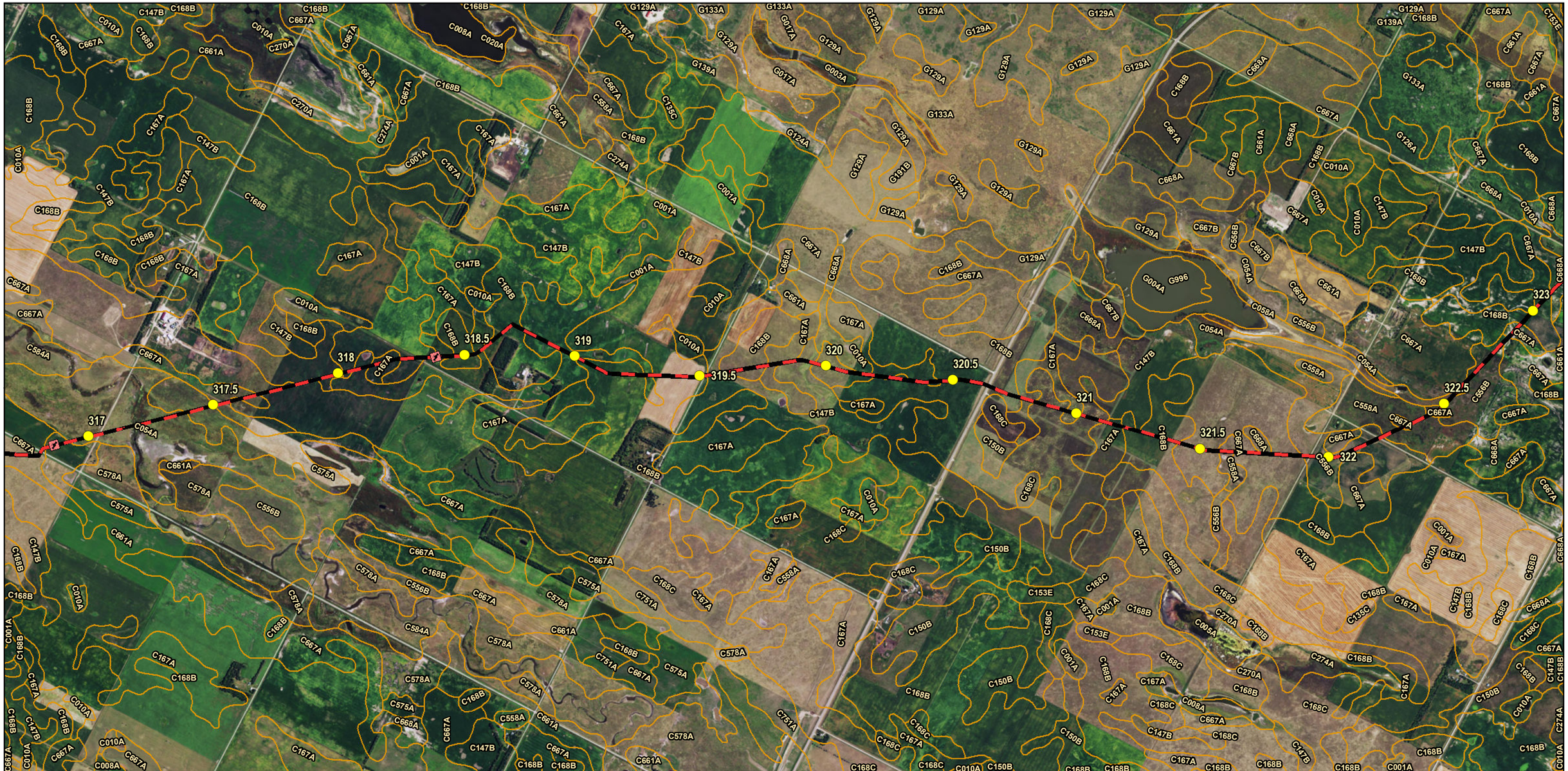
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 19 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 20 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

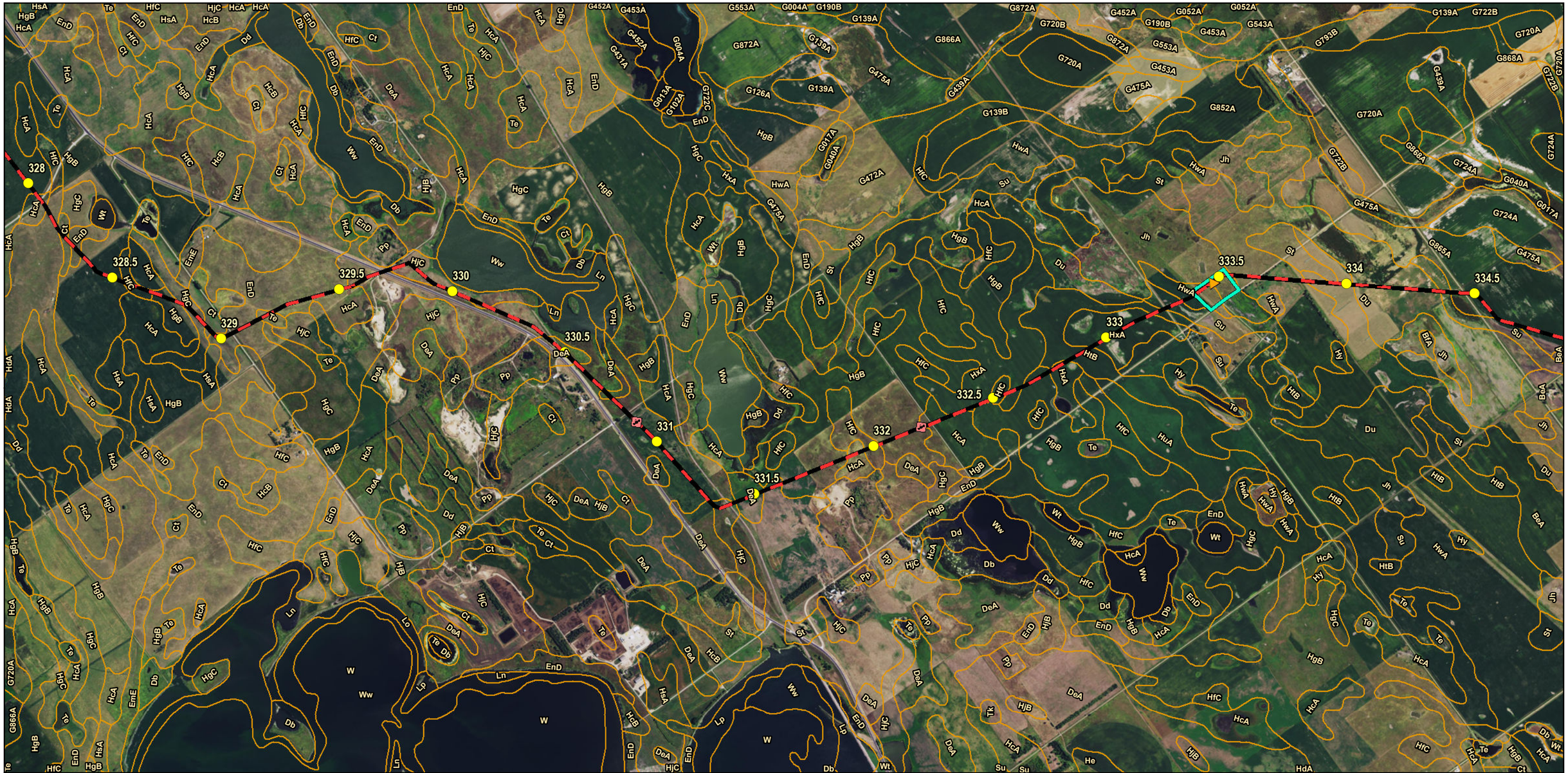
0 2,000 4,000 6,000 8,000
Feet

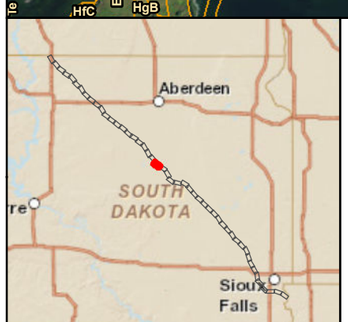
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 21 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 22 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 23 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

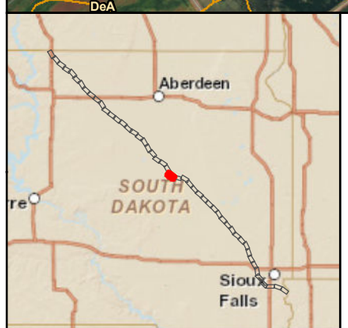
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 24 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

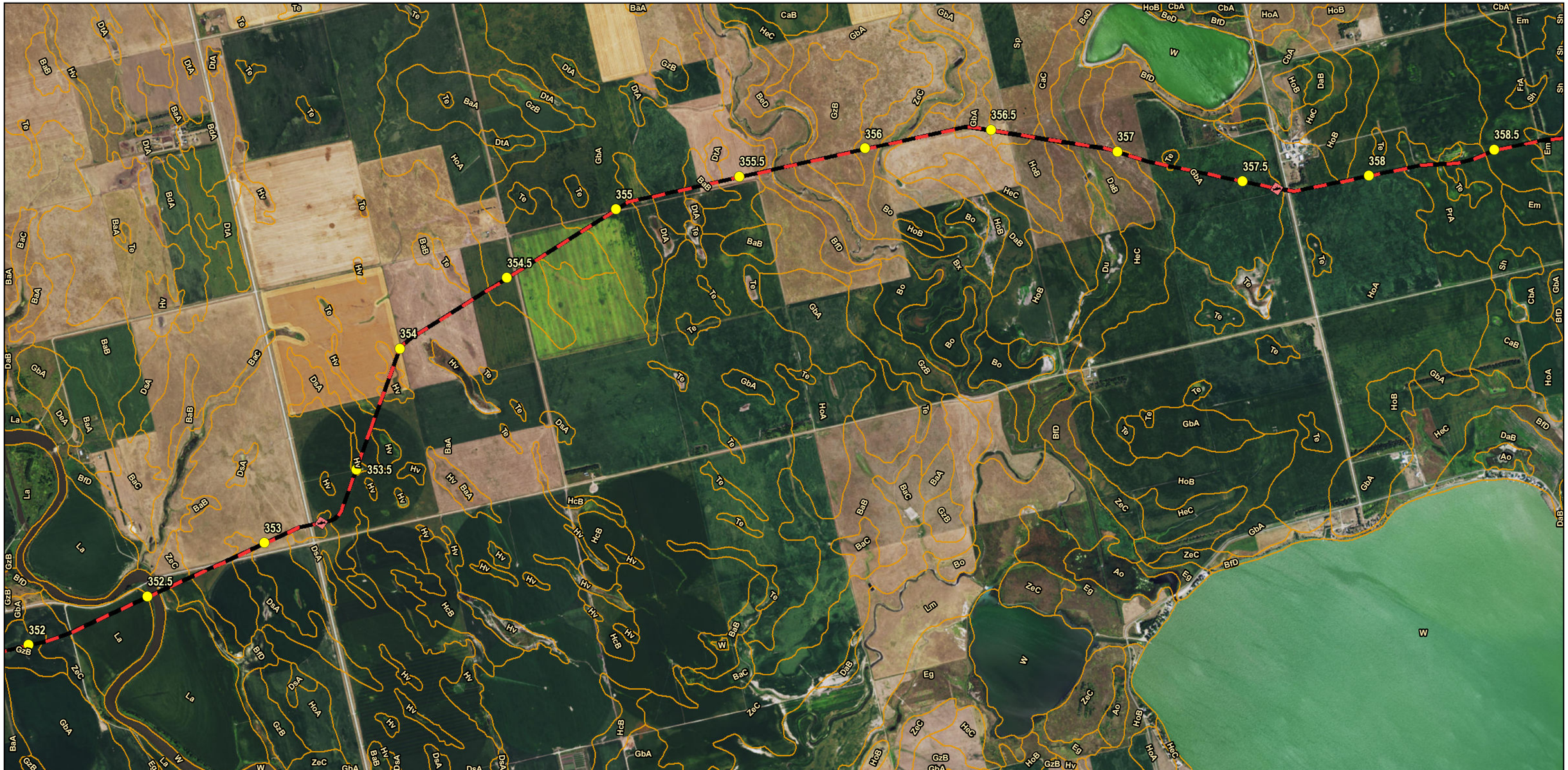
0 2,000 4,000 6,000 8,000
Feet

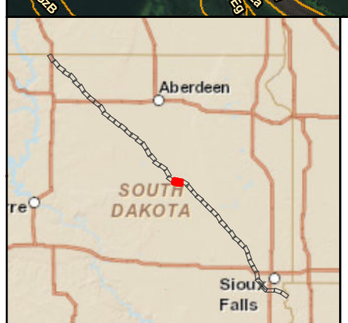
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 25 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 26 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

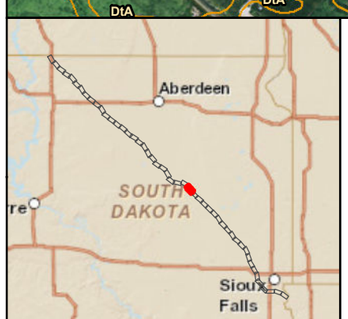
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 27 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

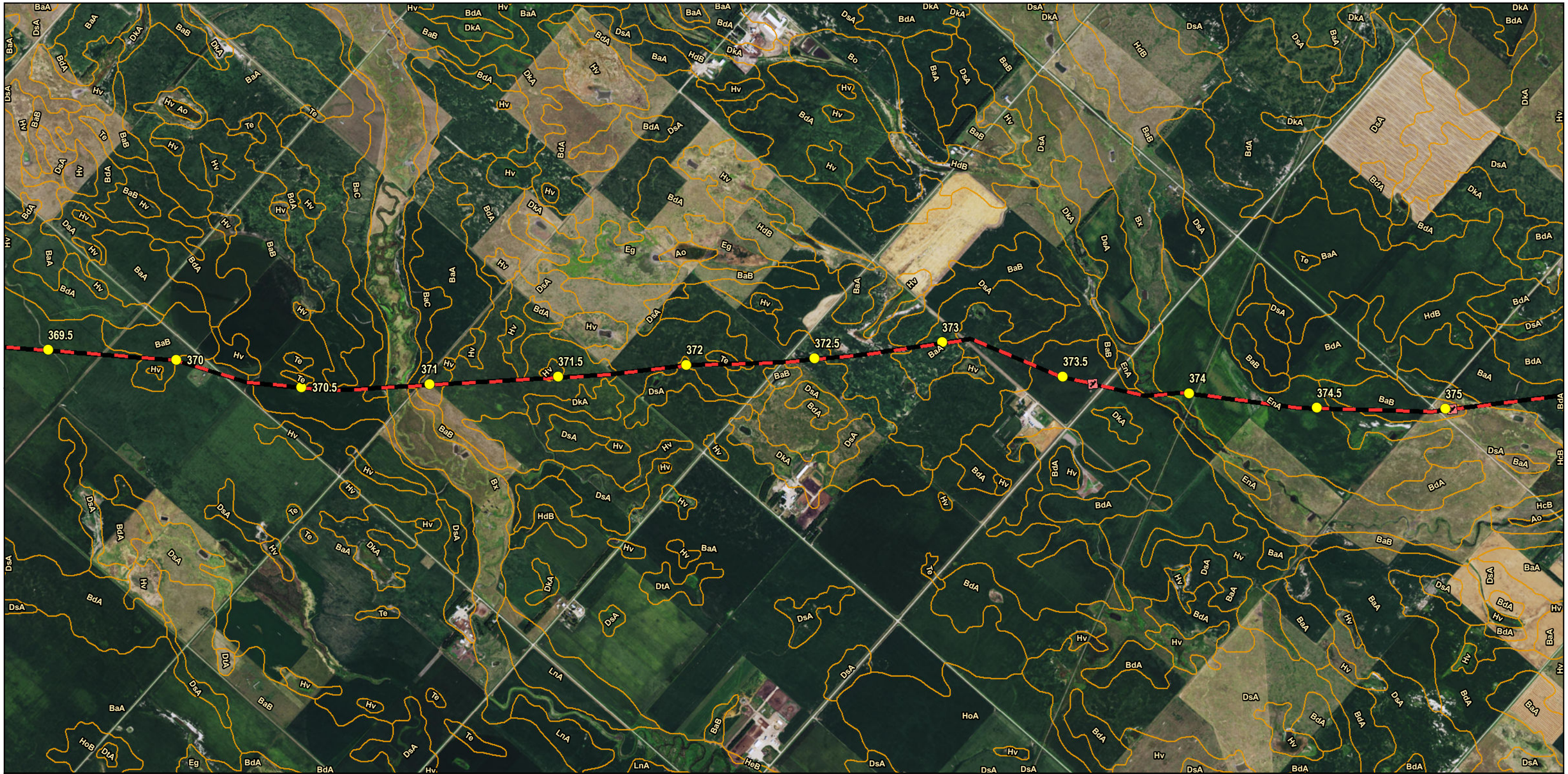
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 28 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

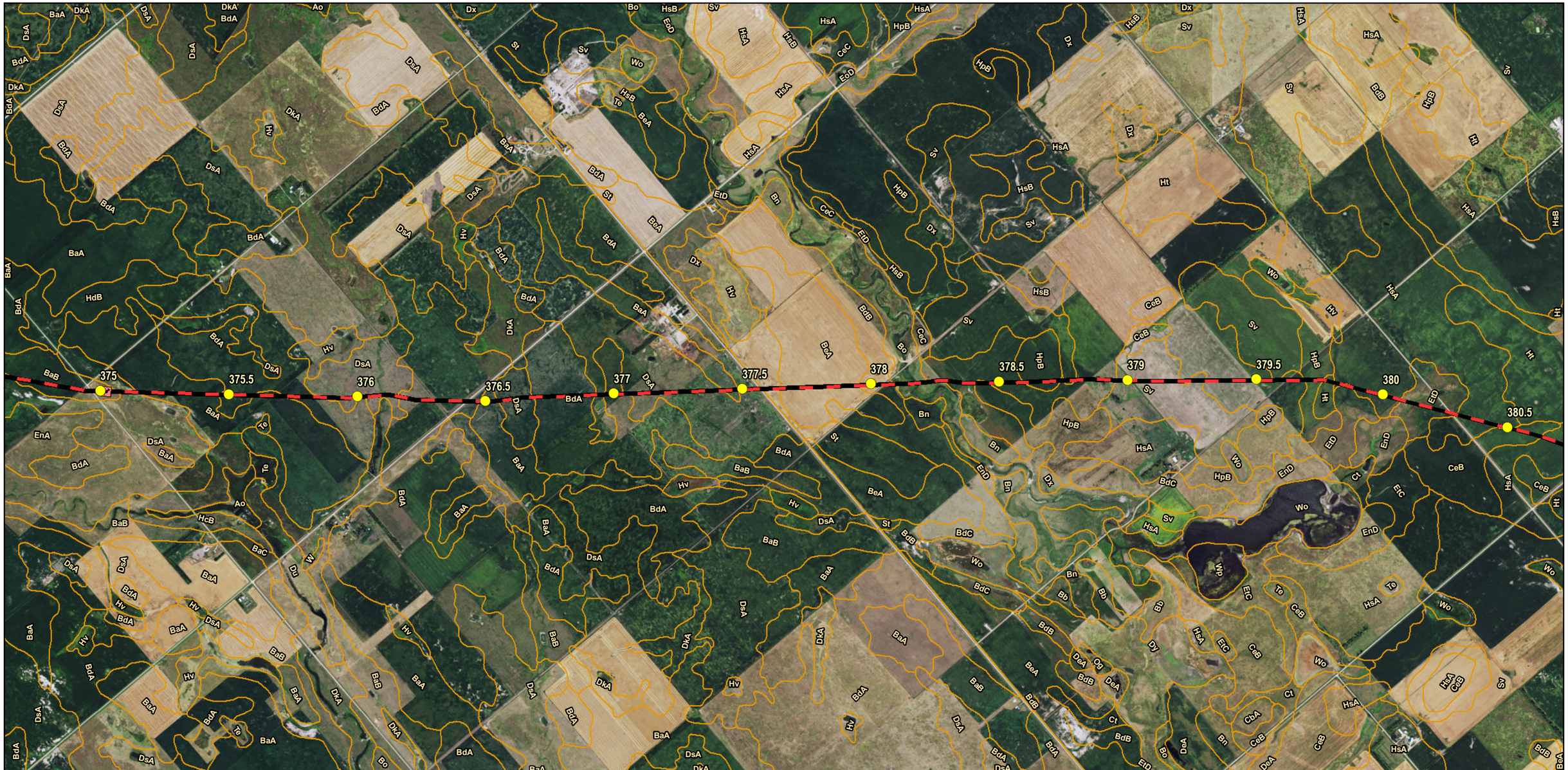
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 29 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

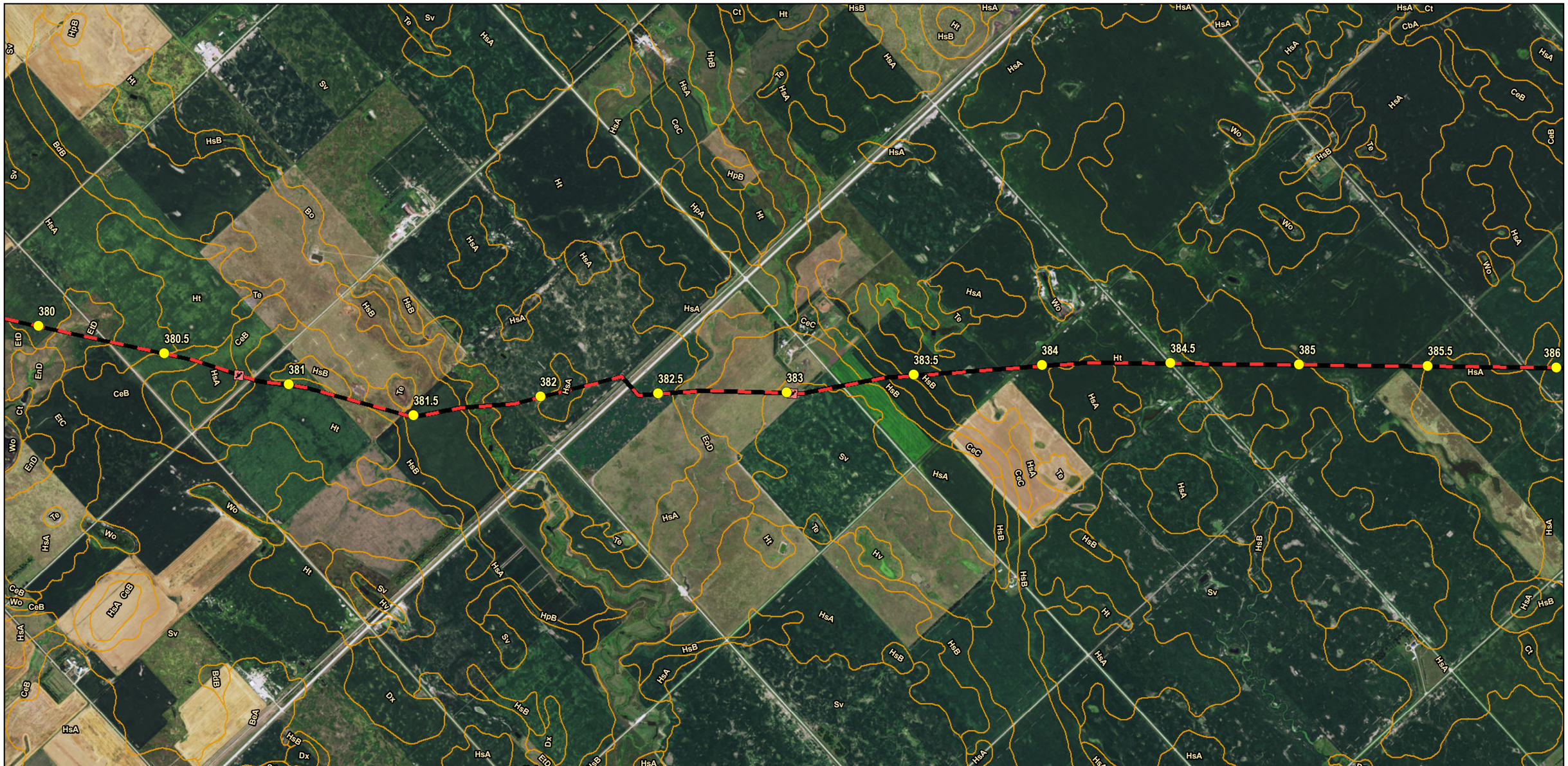
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 30 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

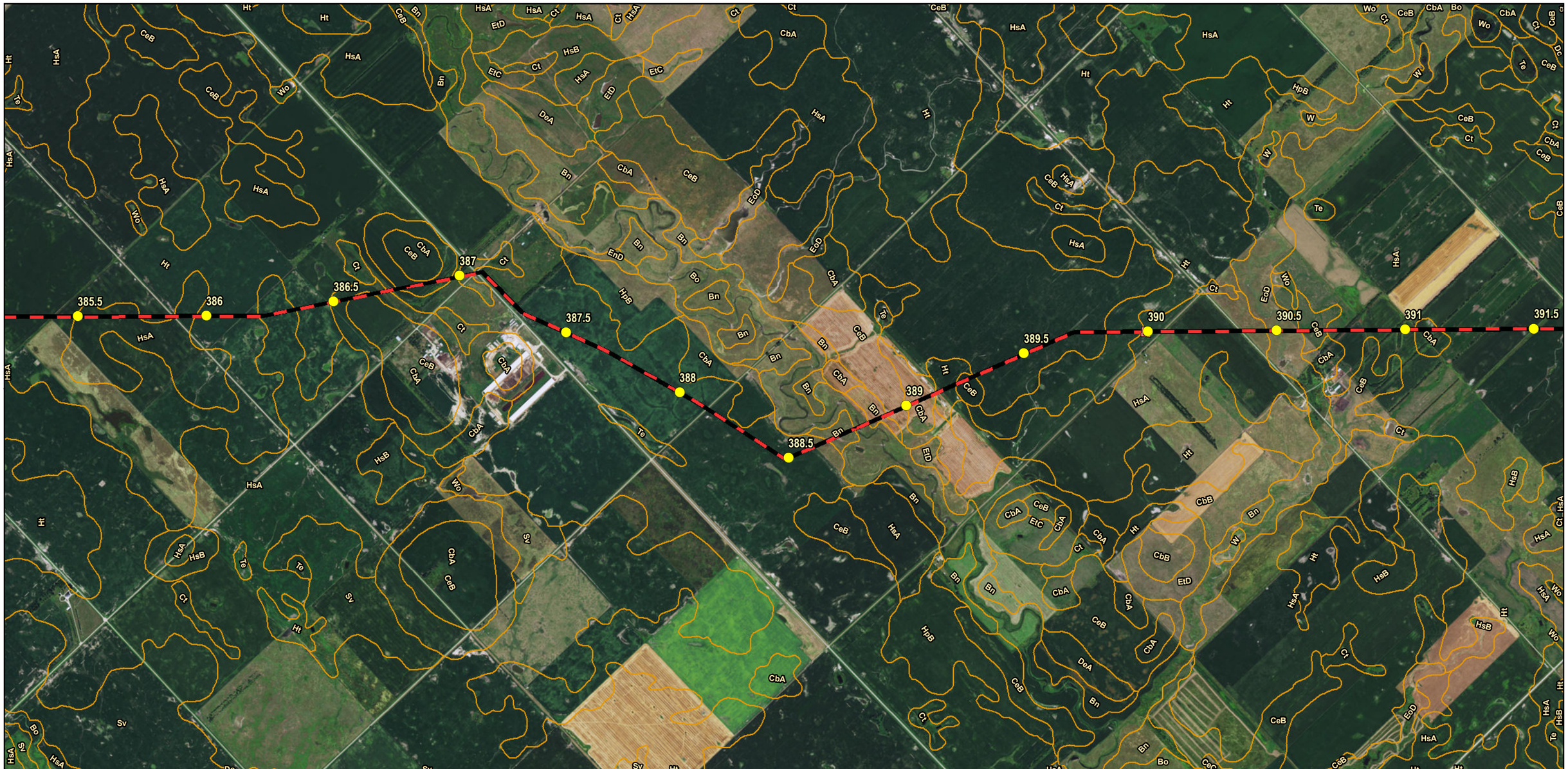
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 31 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

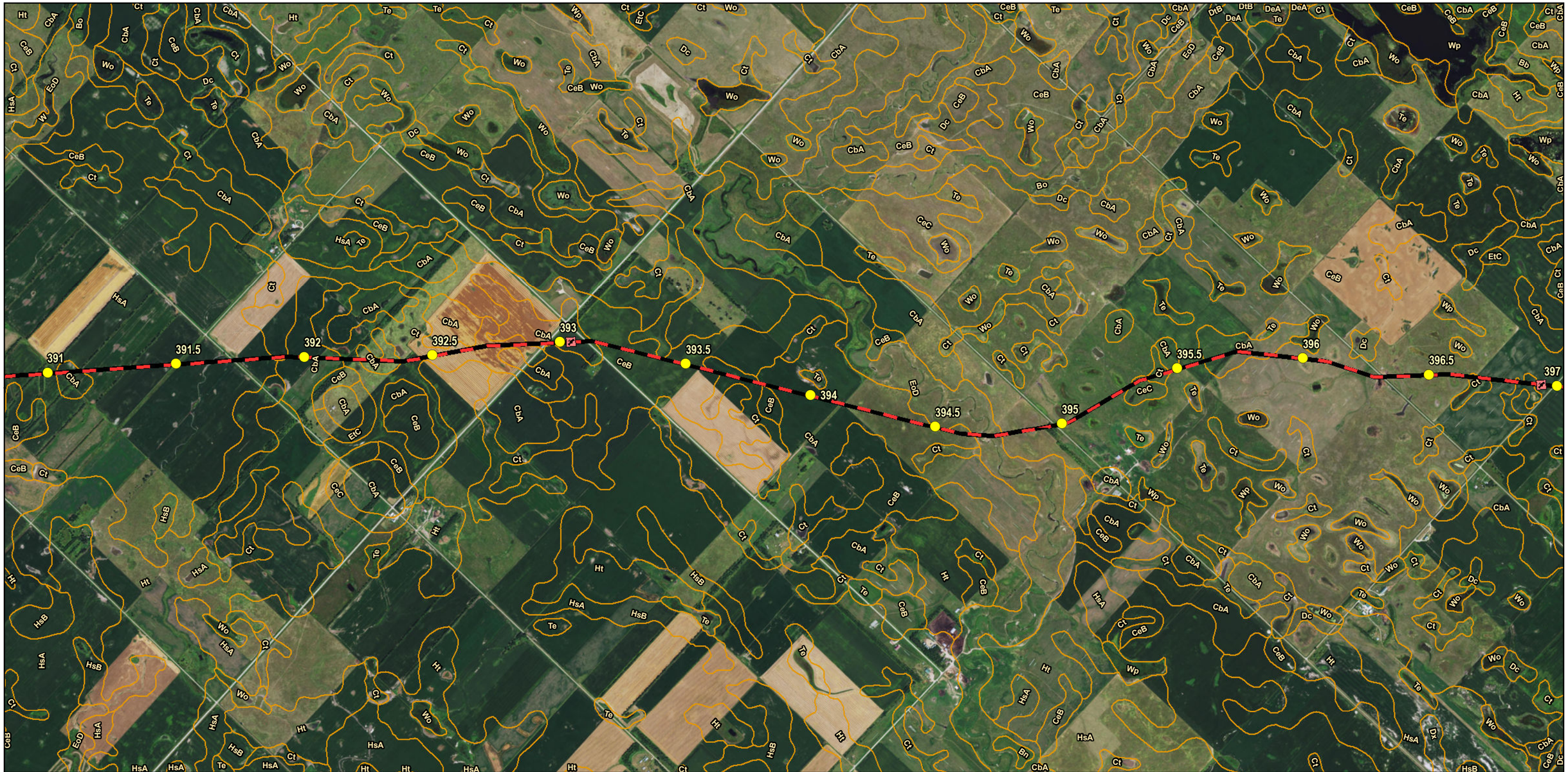
0 2,000 4,000 6,000 8,000
Feet

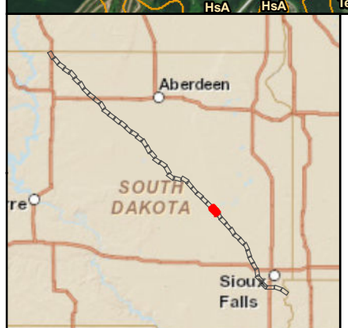
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 32 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

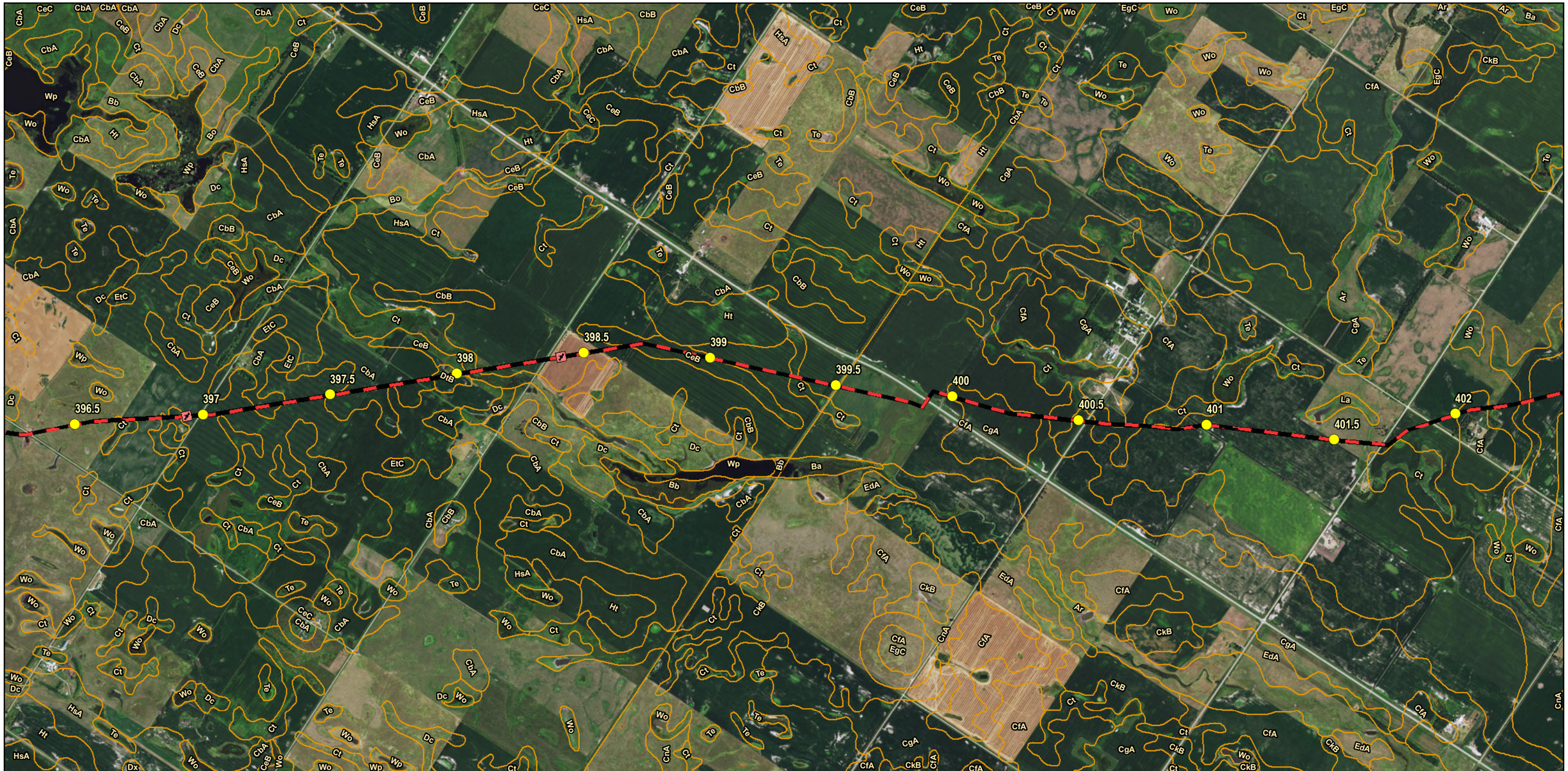
0 2,000 4,000 6,000 8,000
Feet

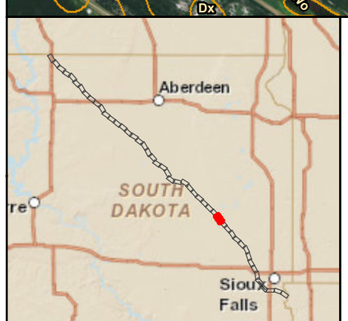
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 33 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

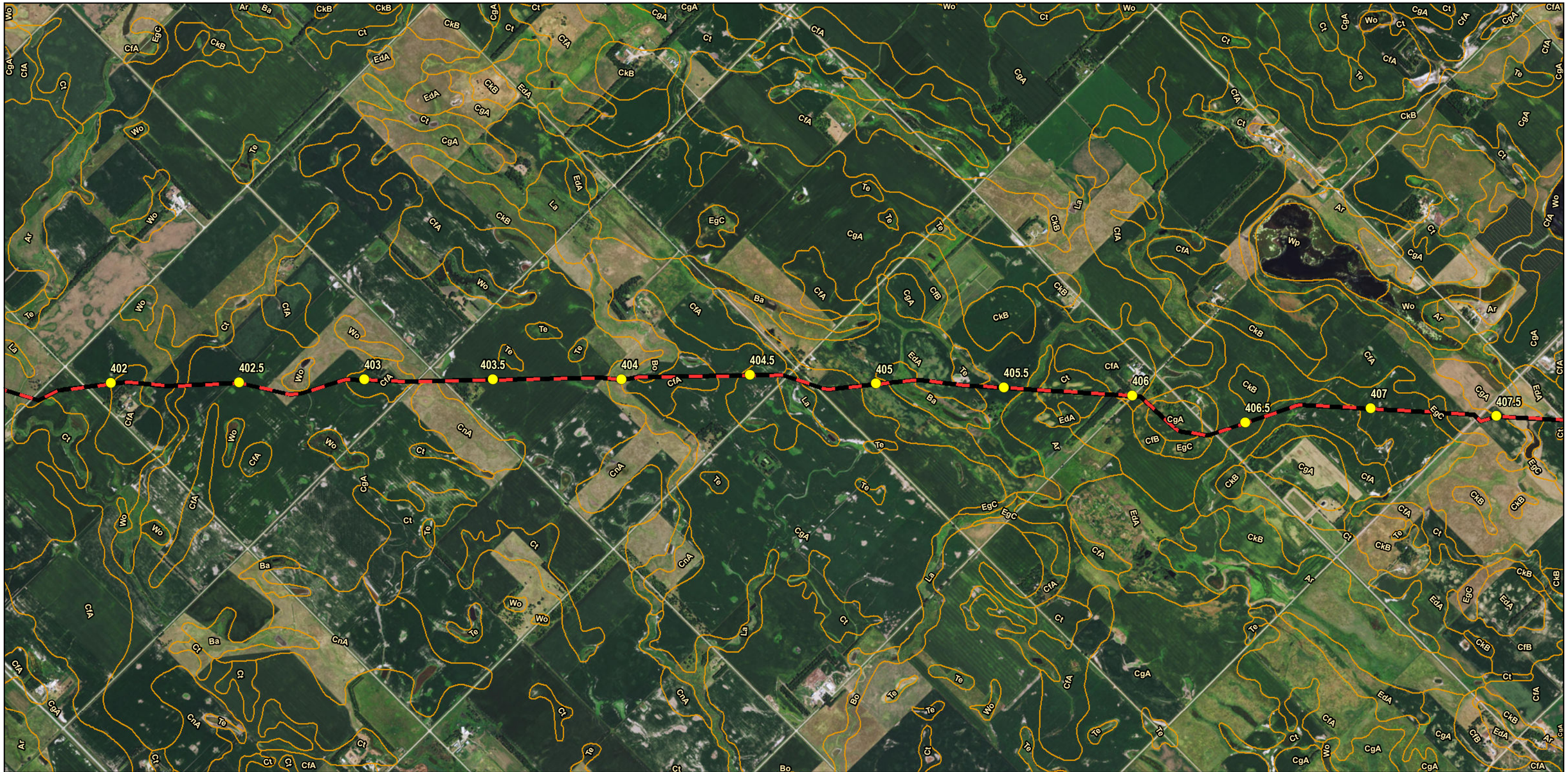
0 2,000 4,000 6,000 8,000
Feet

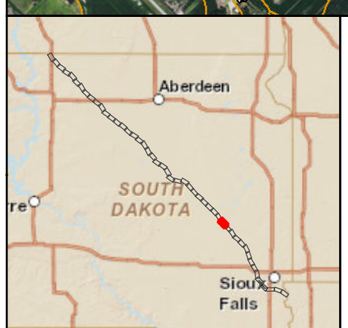
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 34 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

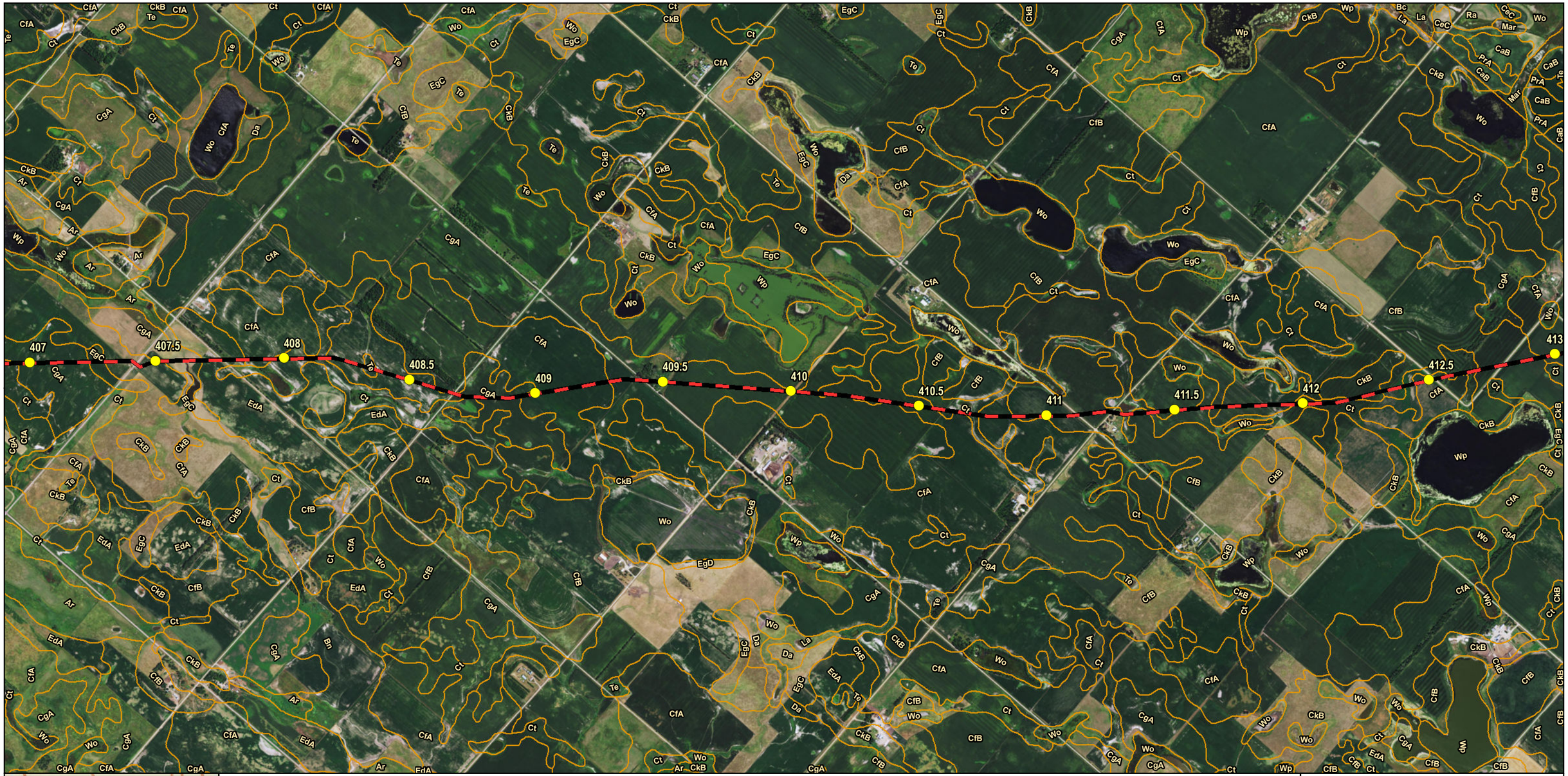
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 35 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 36 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 37 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

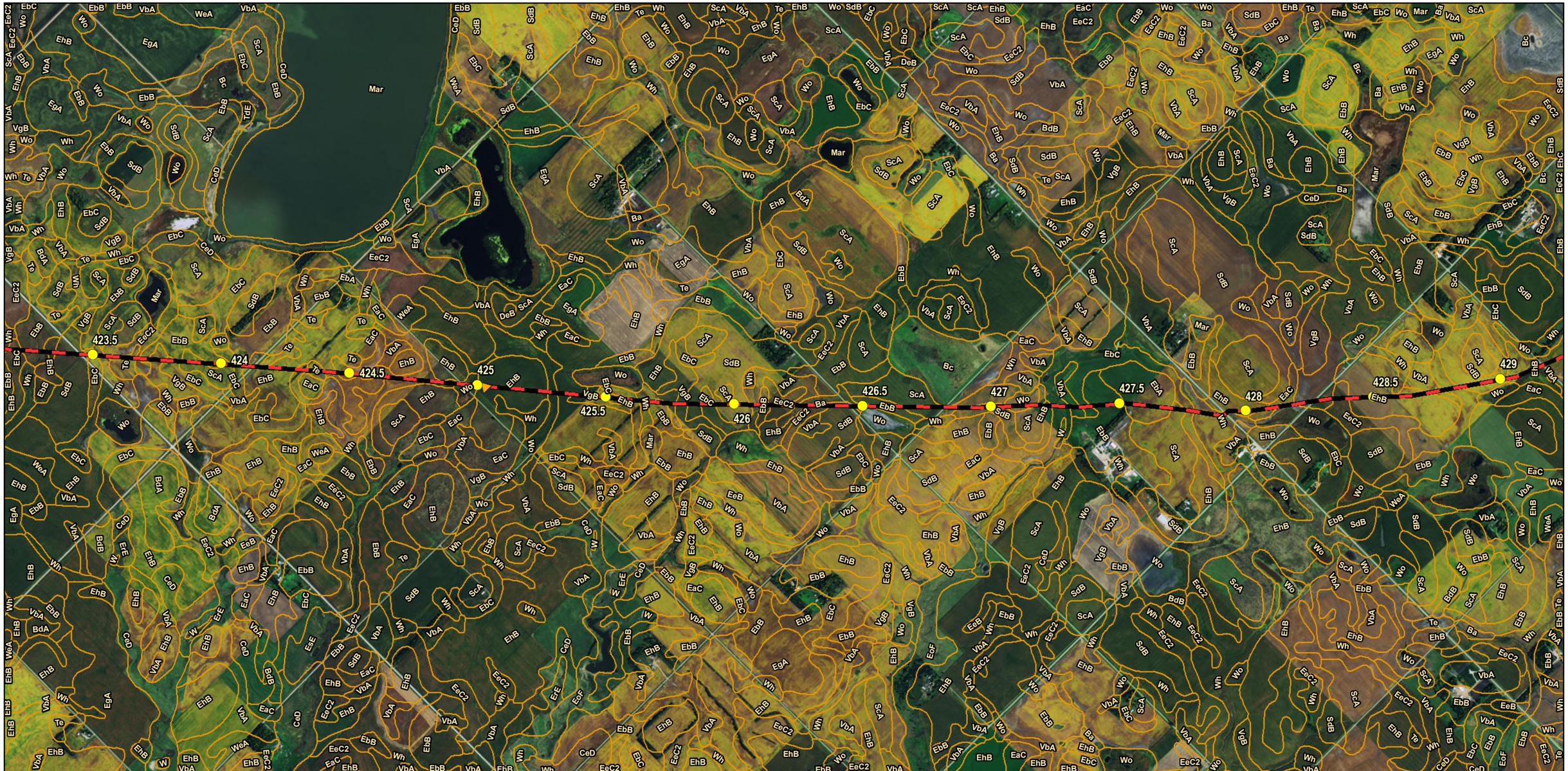
0 2,000 4,000 6,000 8,000
Feet

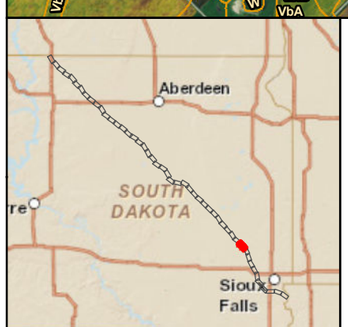
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 38 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

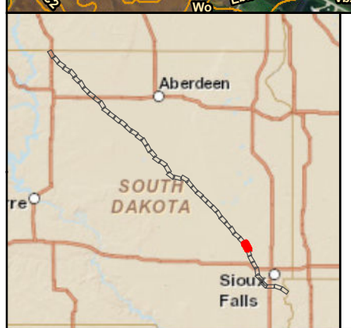
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 39 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 40 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

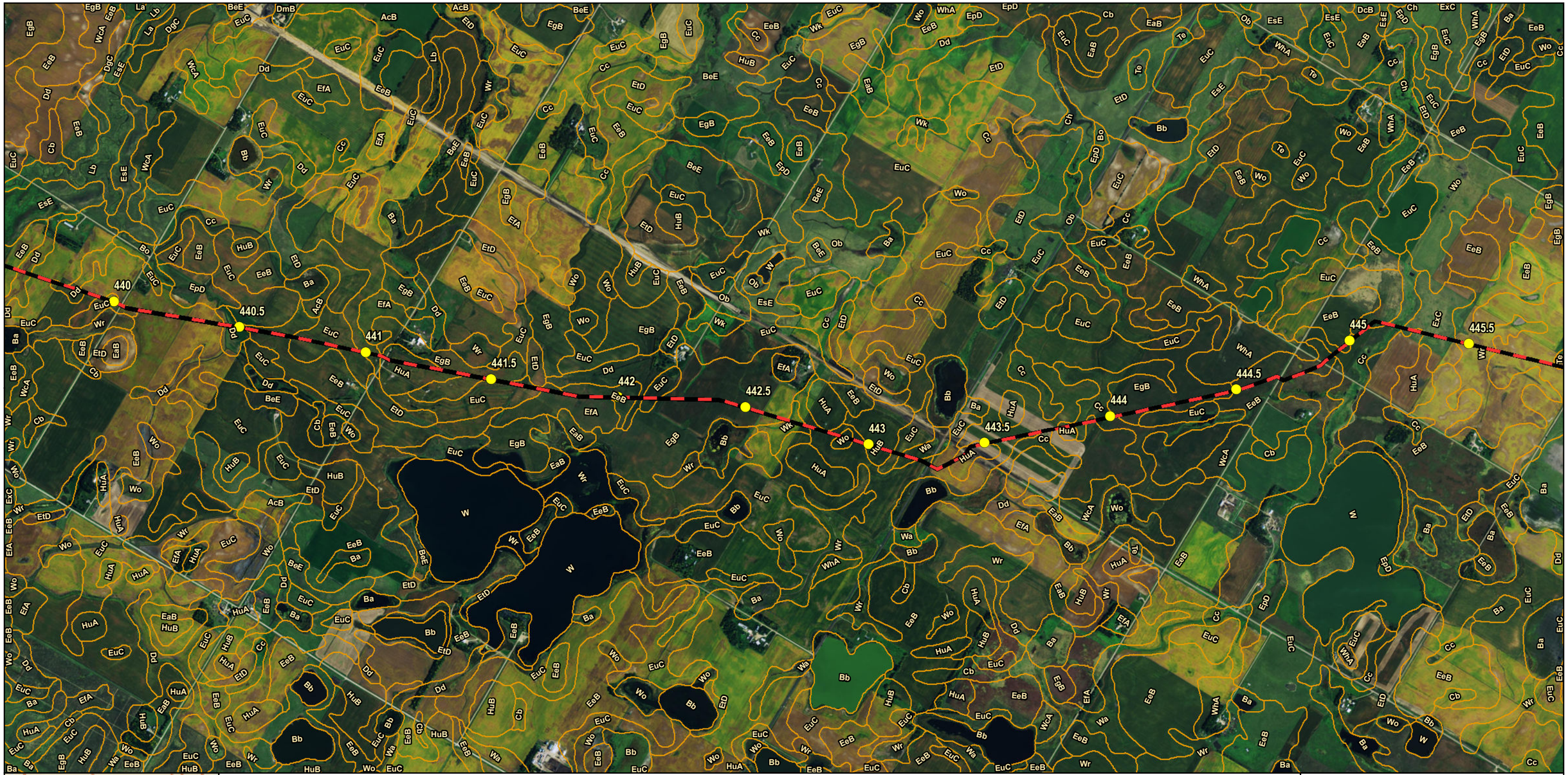
0 2,000 4,000 6,000 8,000
Feet

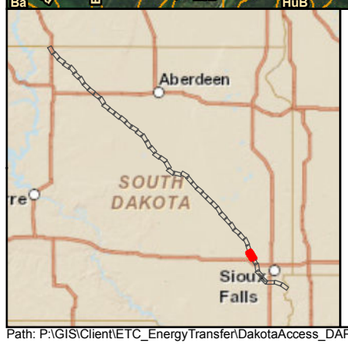
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 41 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

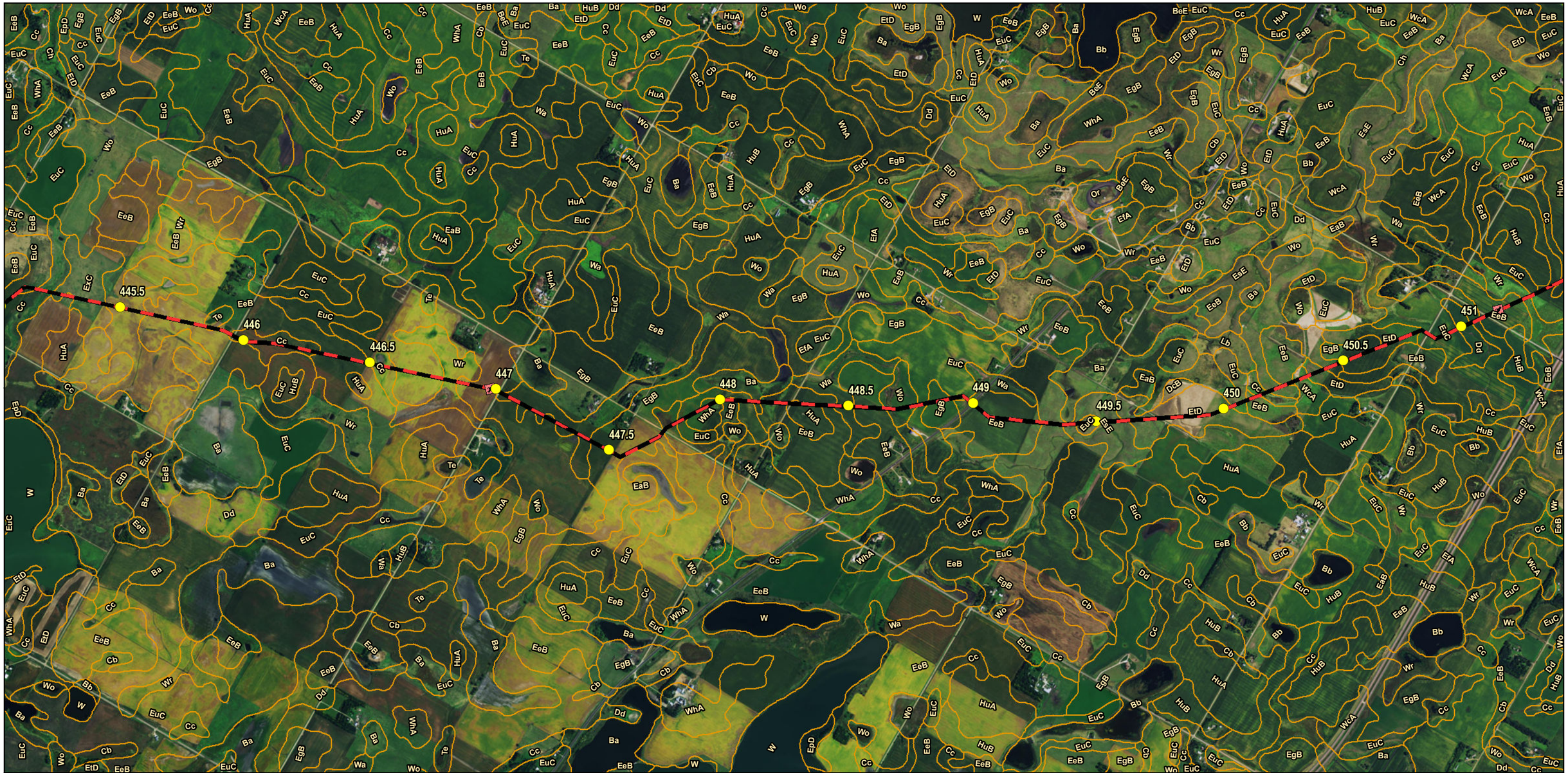
0 2,000 4,000 6,000 8,000
Feet

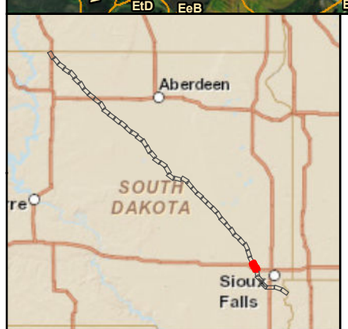
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 42 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

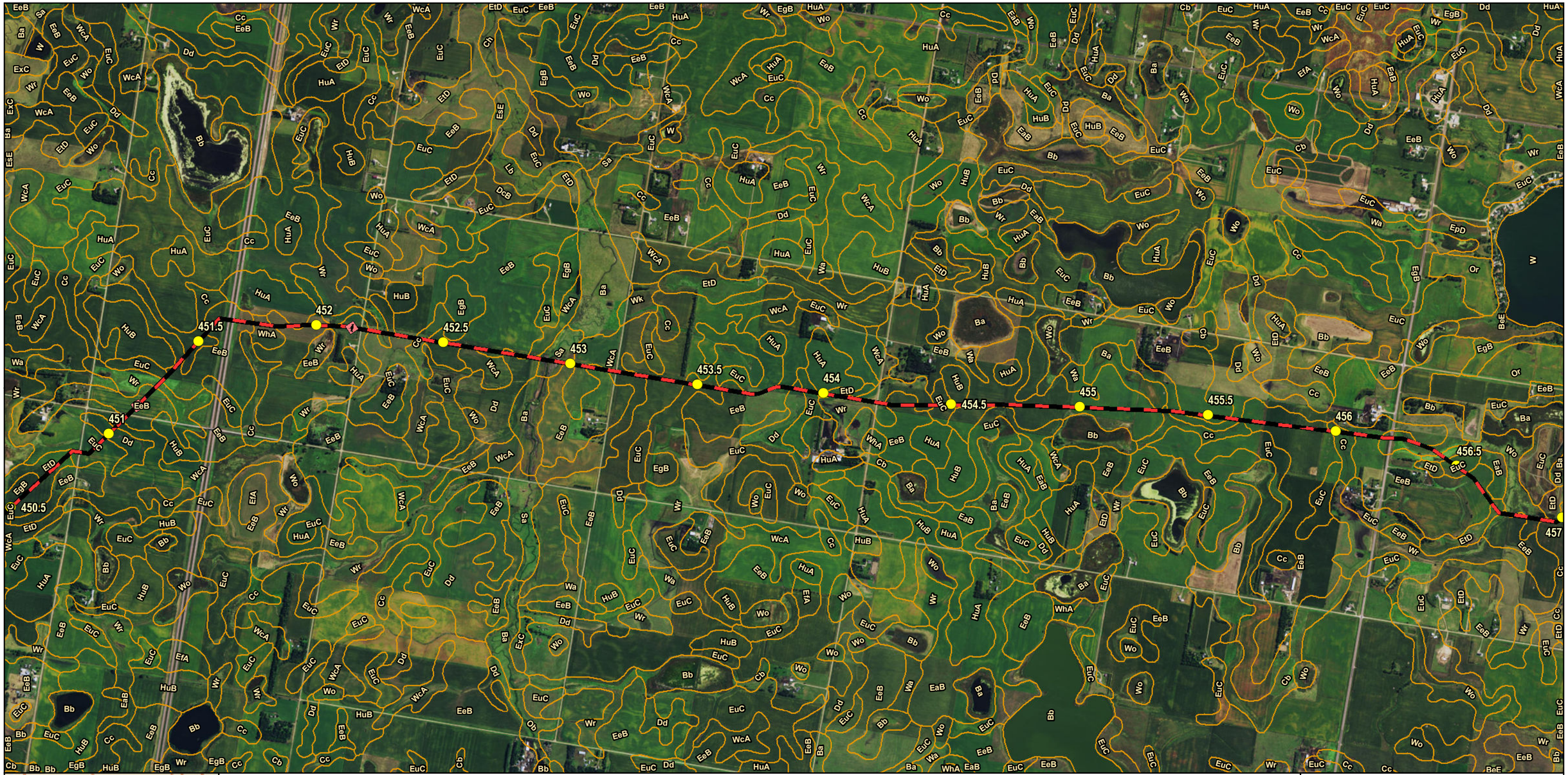
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 43 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

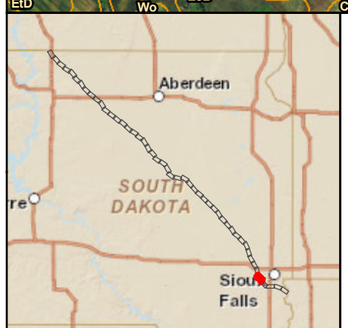
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 44 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

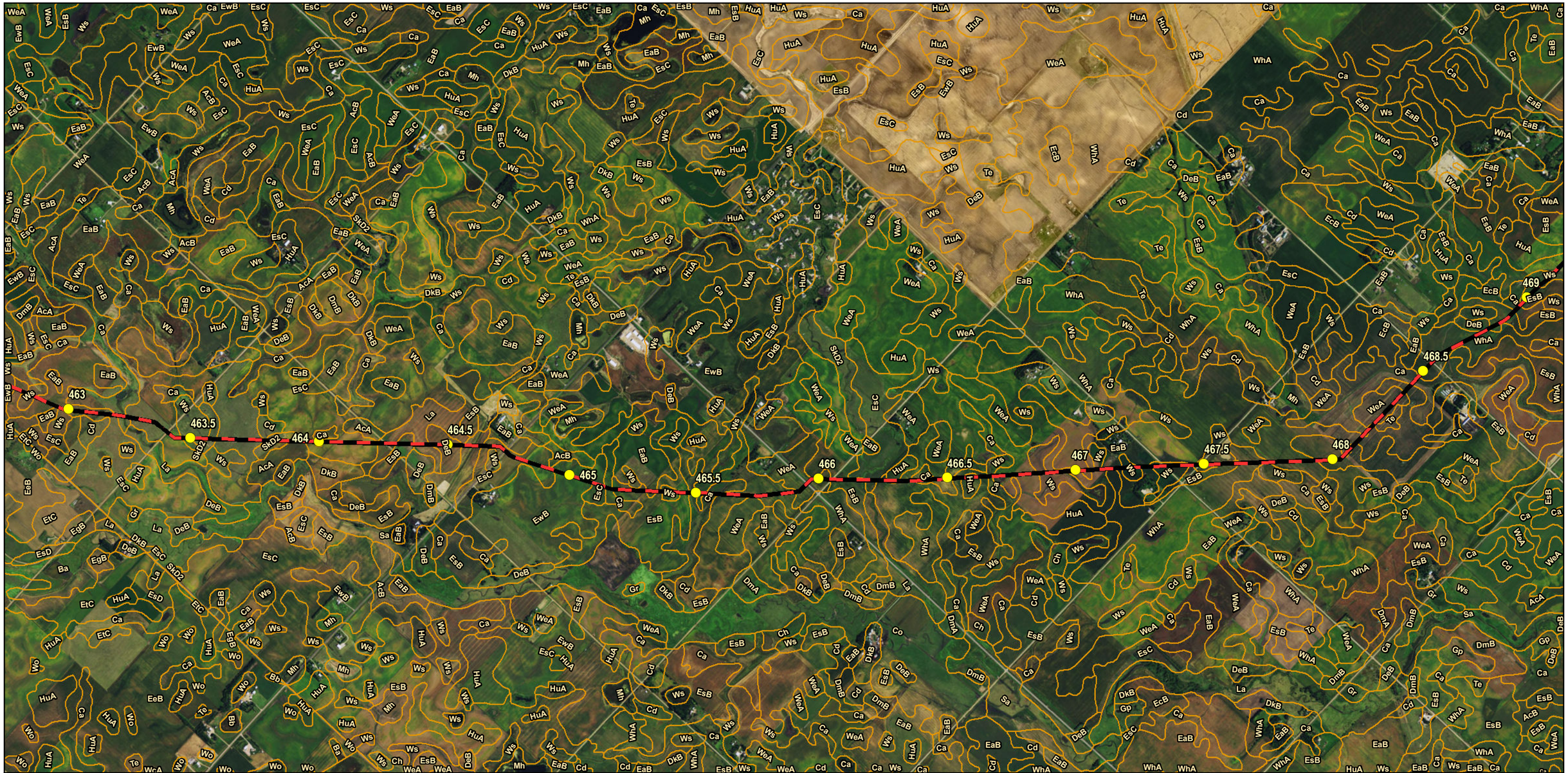
0 2,000 4,000 6,000 8,000
Feet

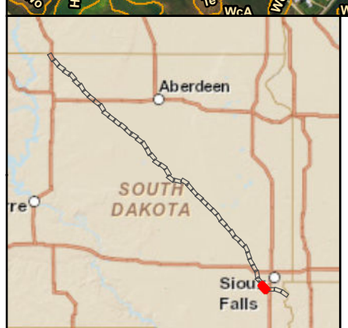
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 45 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

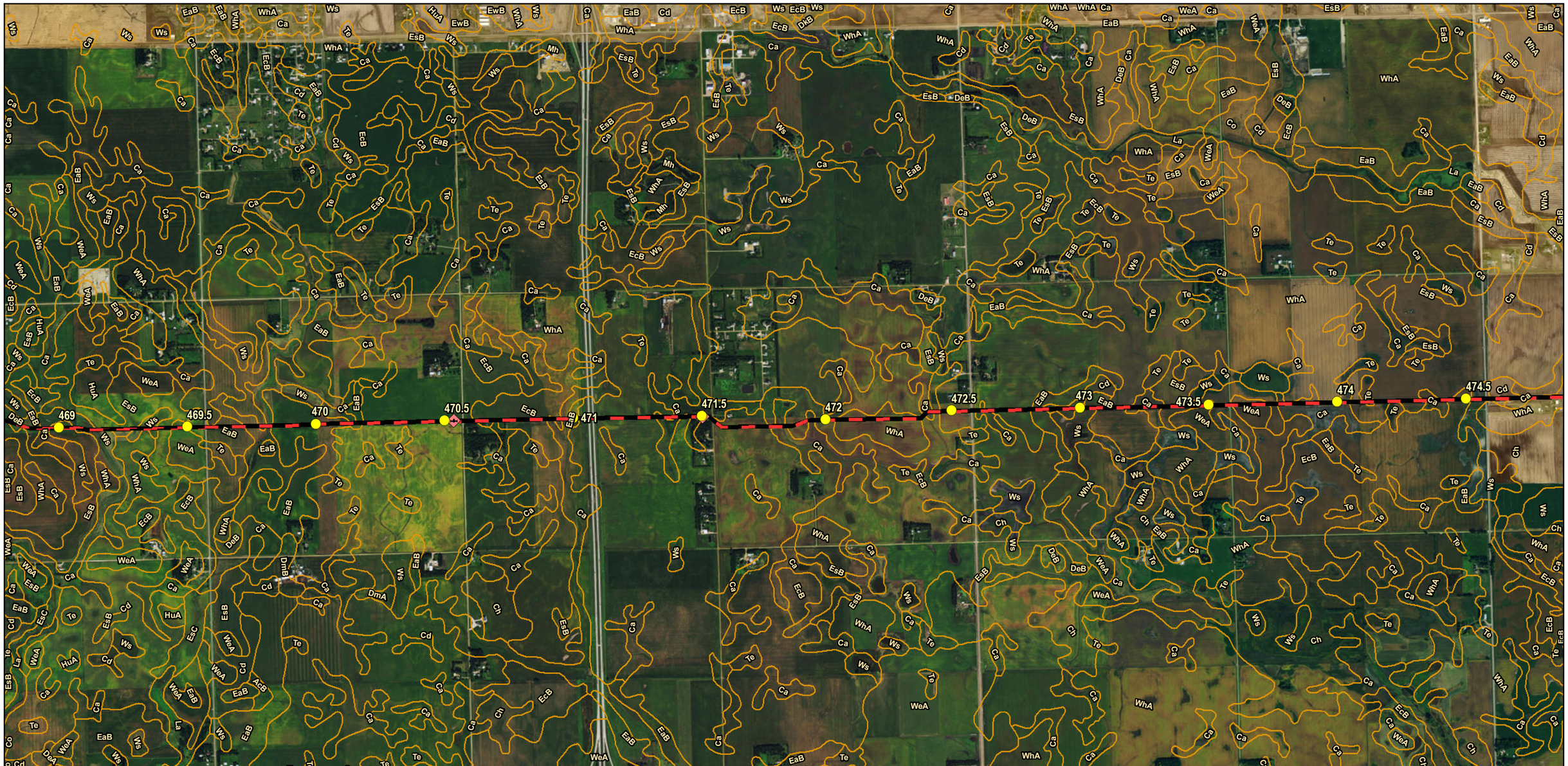
0 2,000 4,000 6,000 8,000
Feet

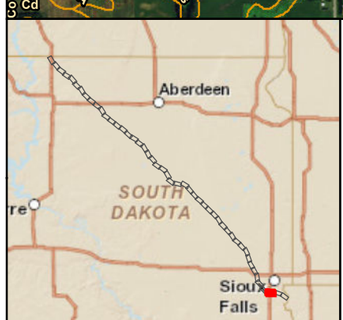
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 46 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

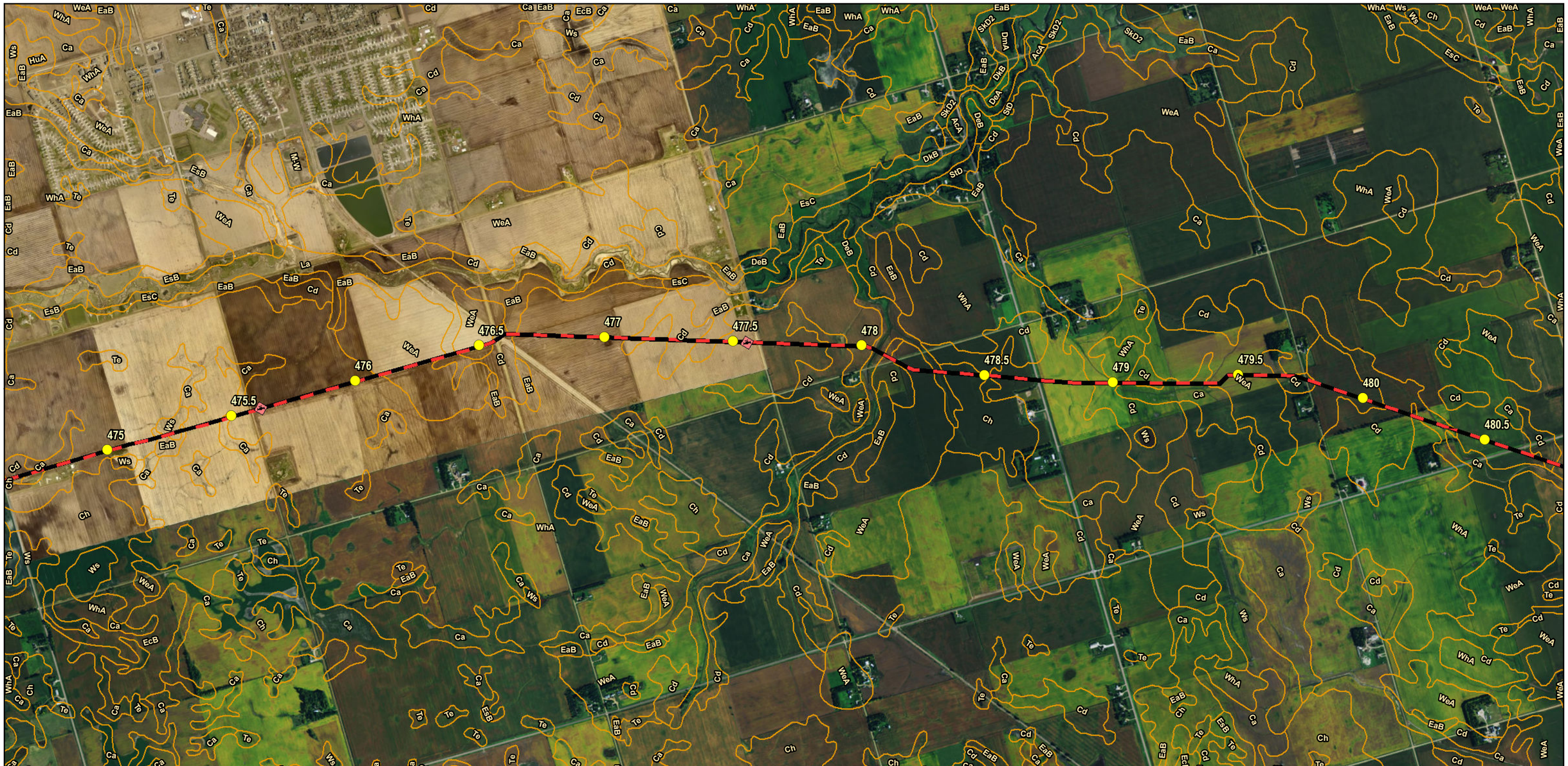
0 2,000 4,000 6,000 8,000
Feet

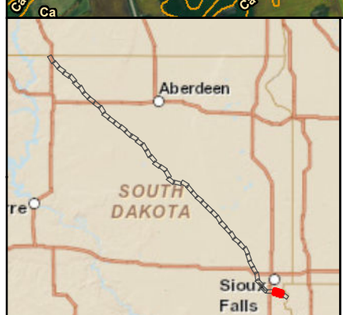
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 47 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

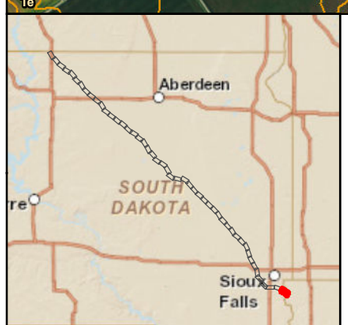
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 48 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Spink Pump Station
SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota

Page 49 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\19_soils.mxd

DAKOTA ACCESS, LLC

Exhibit A

Project Mapping

Exhibit A4

Hydrology Maps

TABLE OF CONTENTS

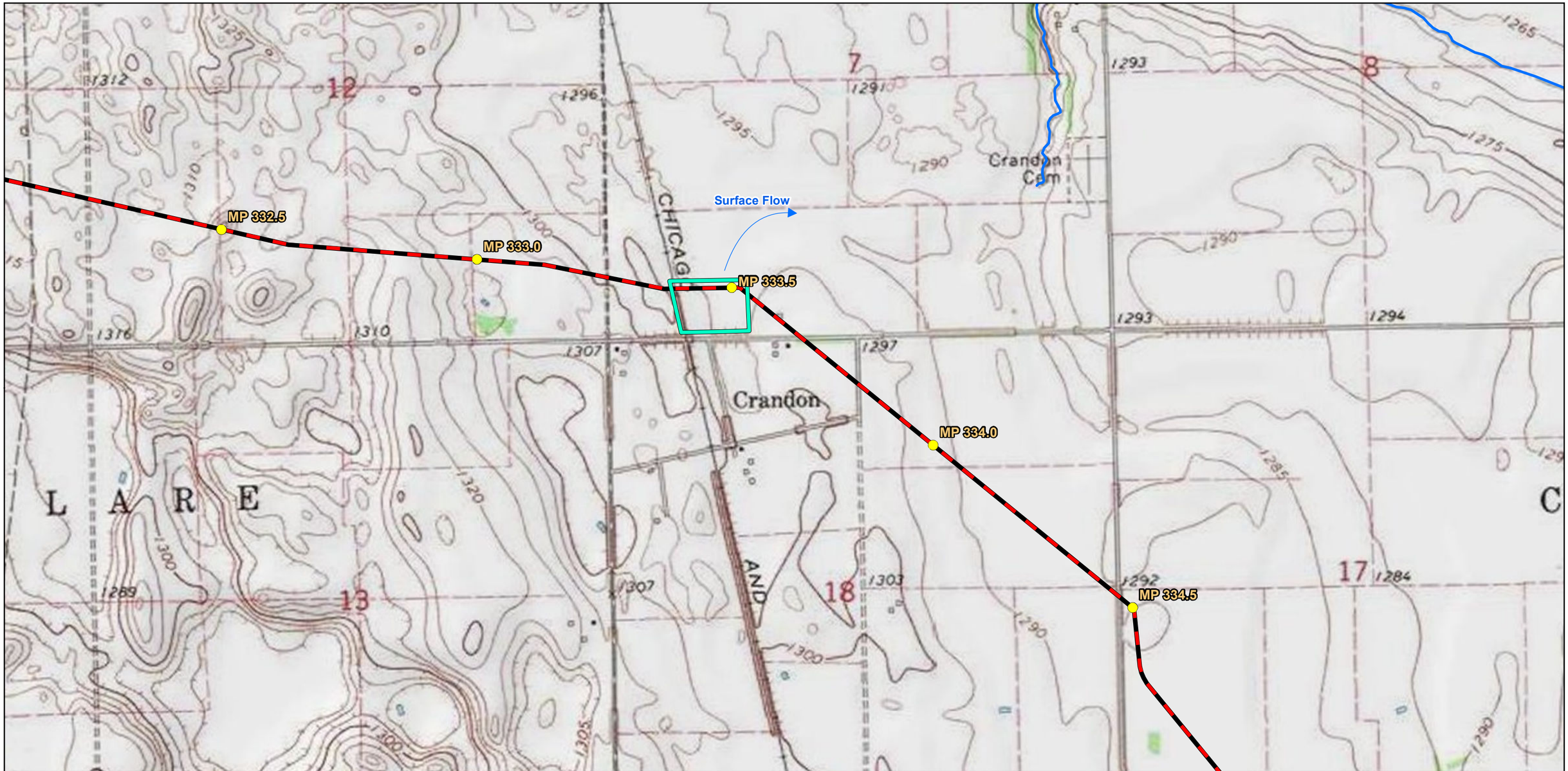
Hydrology Maps

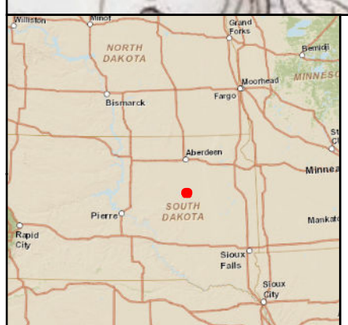
Spink County Pump Station Surface Water Map Page 4

Surface Water Maps Page 5

Minnehaha Source Water Map Page 54

Rural Water Systems Map Page 55





Milepost
Proposed Route
Spink County Pump Station
NHD Stream

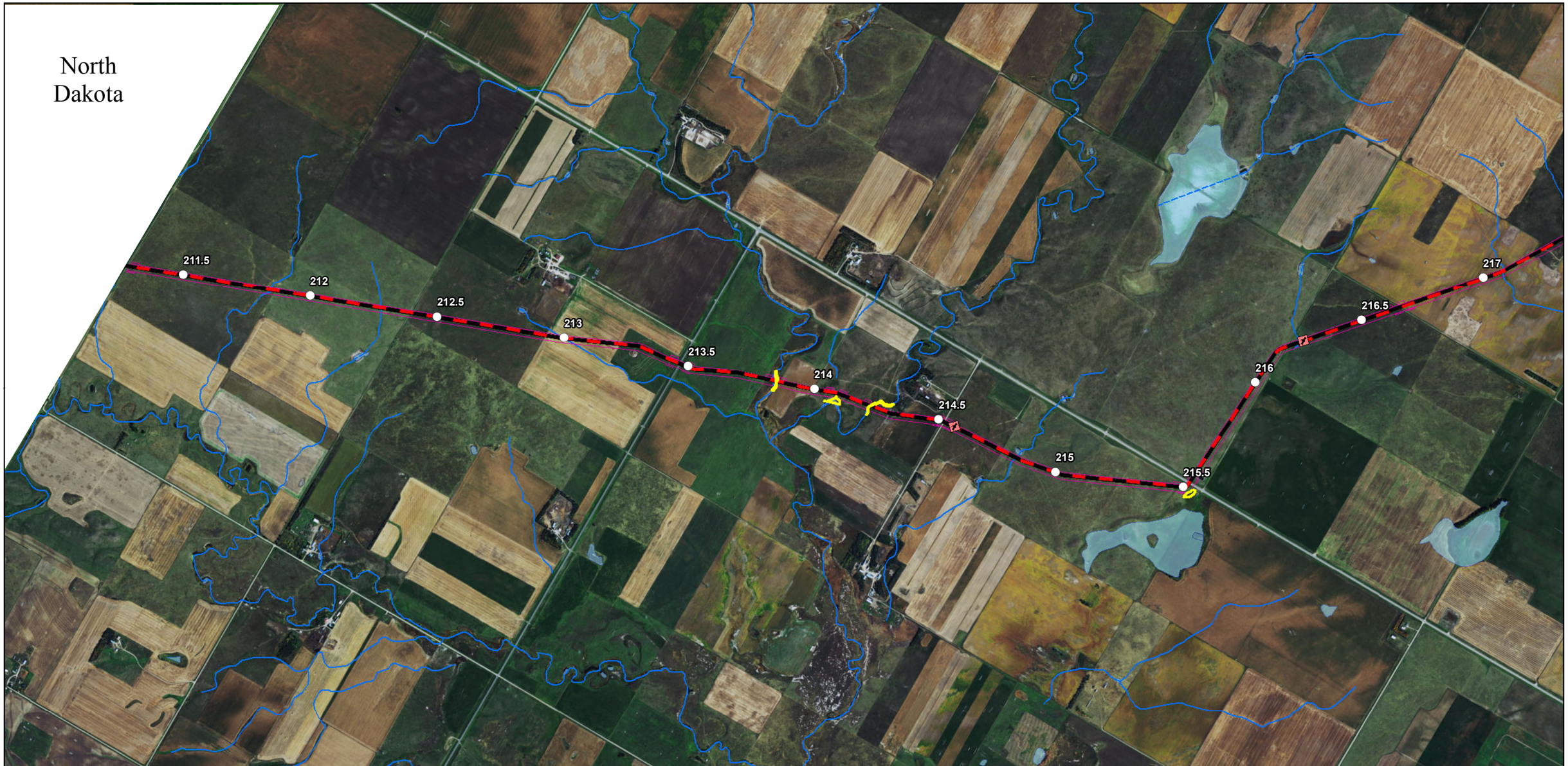
0 600 1,200 1,800 2,400 Feet

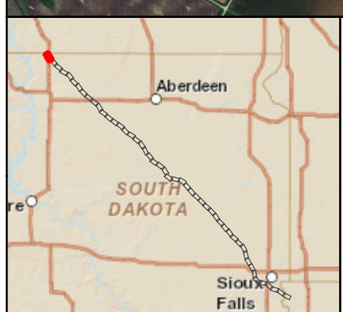
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Spink County Pump Station Map
South Dakota

Page 1 of 52	Scale: 1:12,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15A_PumpStation.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

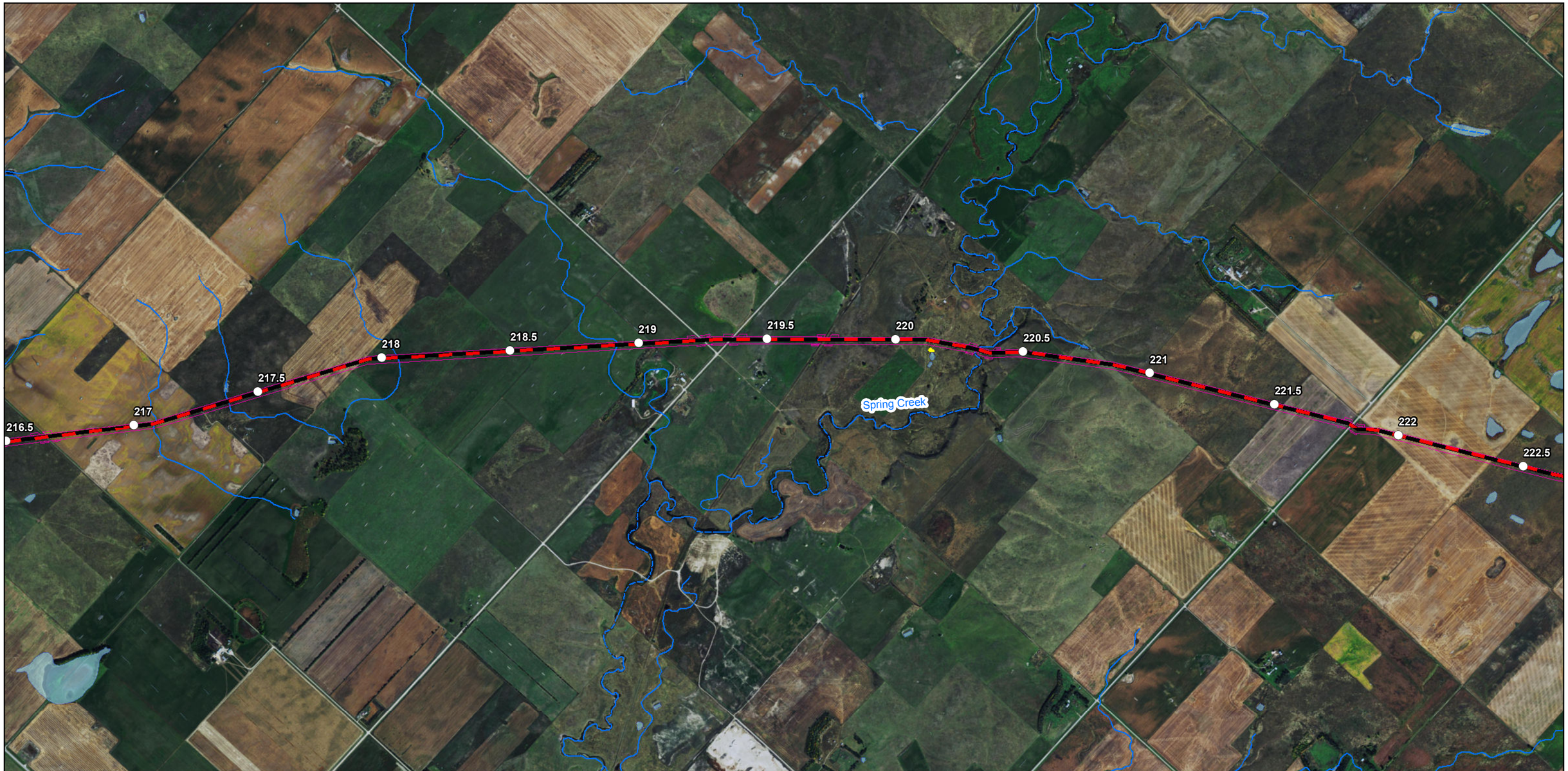
0 2,000 4,000 6,000 8,000
Feet

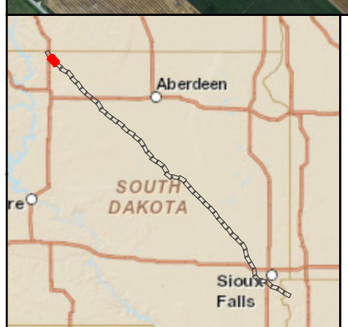
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 2 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

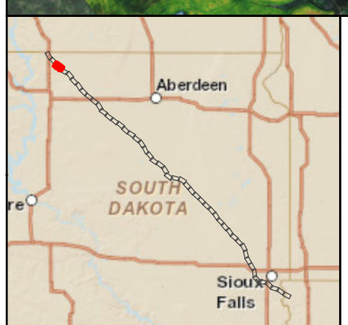
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 3 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

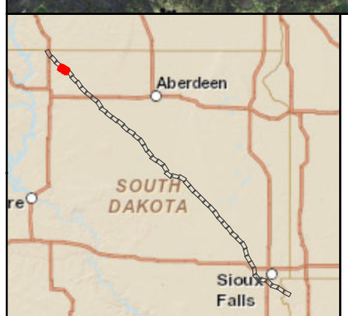
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 4 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 5 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

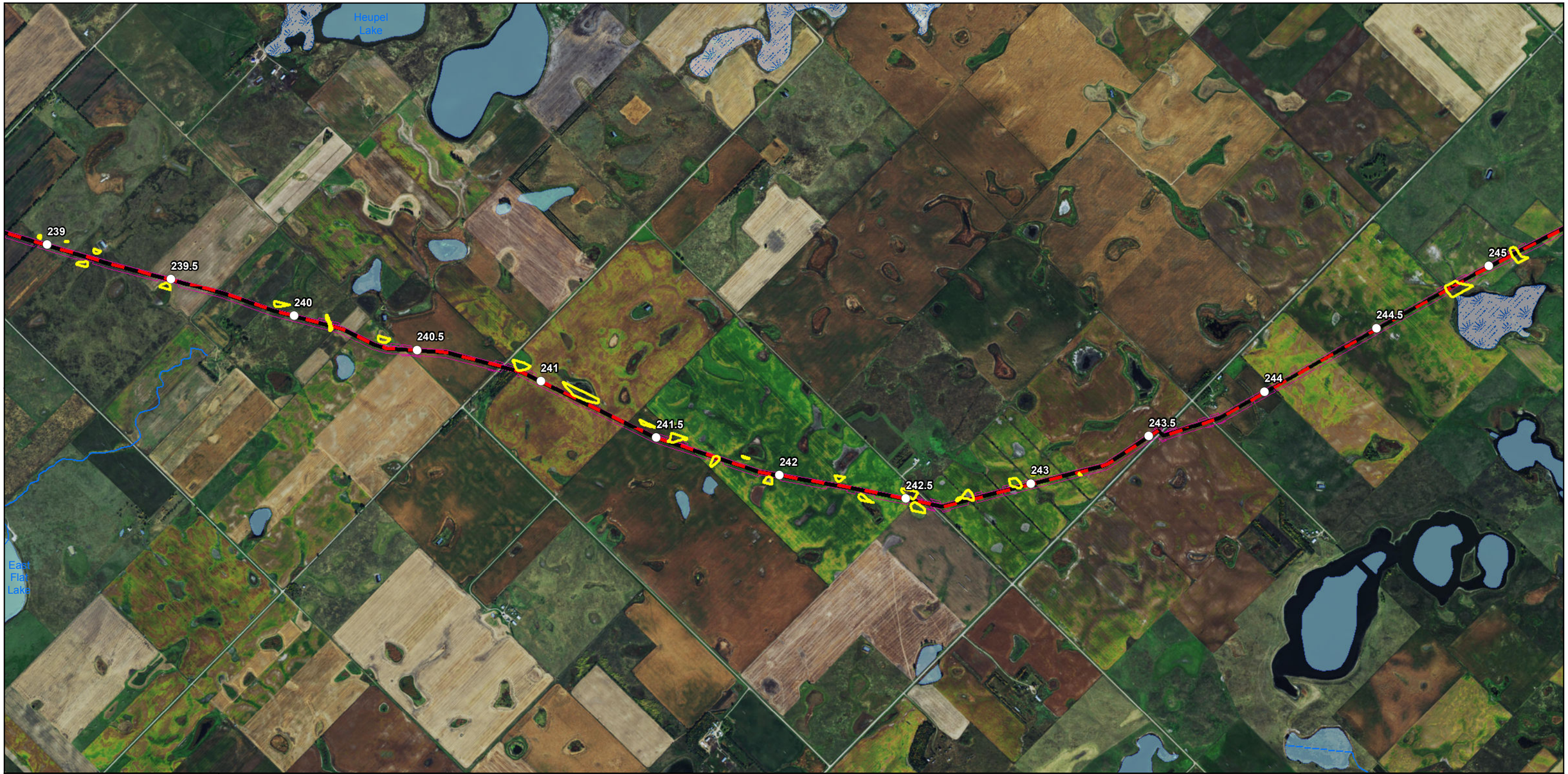
0 2,000 4,000 6,000 8,000
Feet

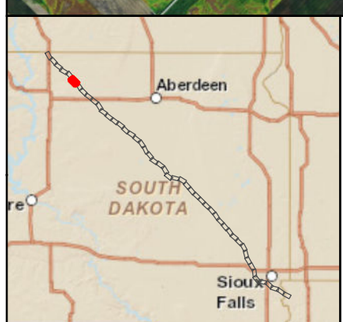
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 6 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

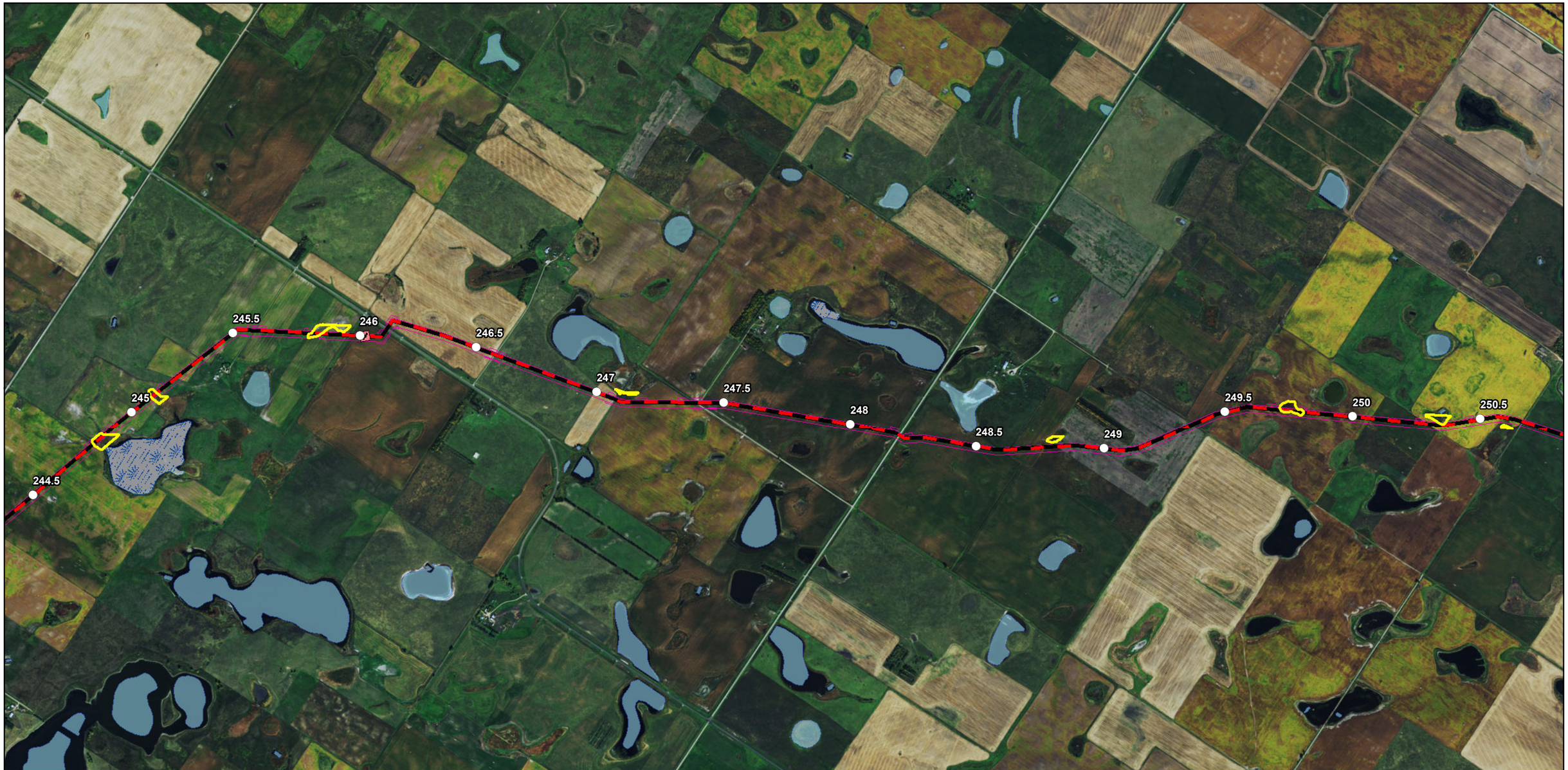
0 2,000 4,000 6,000 8,000
Feet

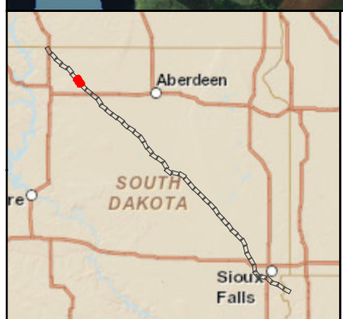
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 7 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

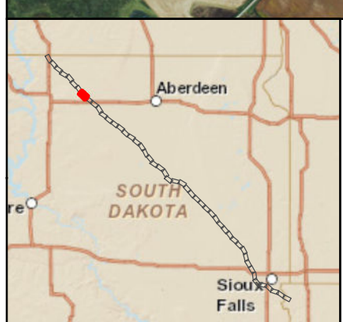
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 8 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

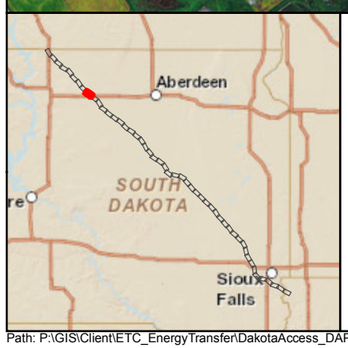
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 9 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 10 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 11 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

267
267.5
268
268.5
269
269.5
270
270.5
271
271.5
272
272.5

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

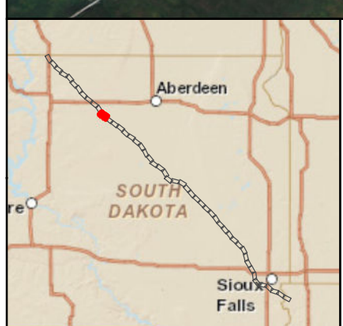
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 12 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

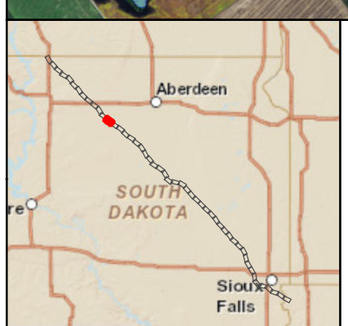
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 13 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

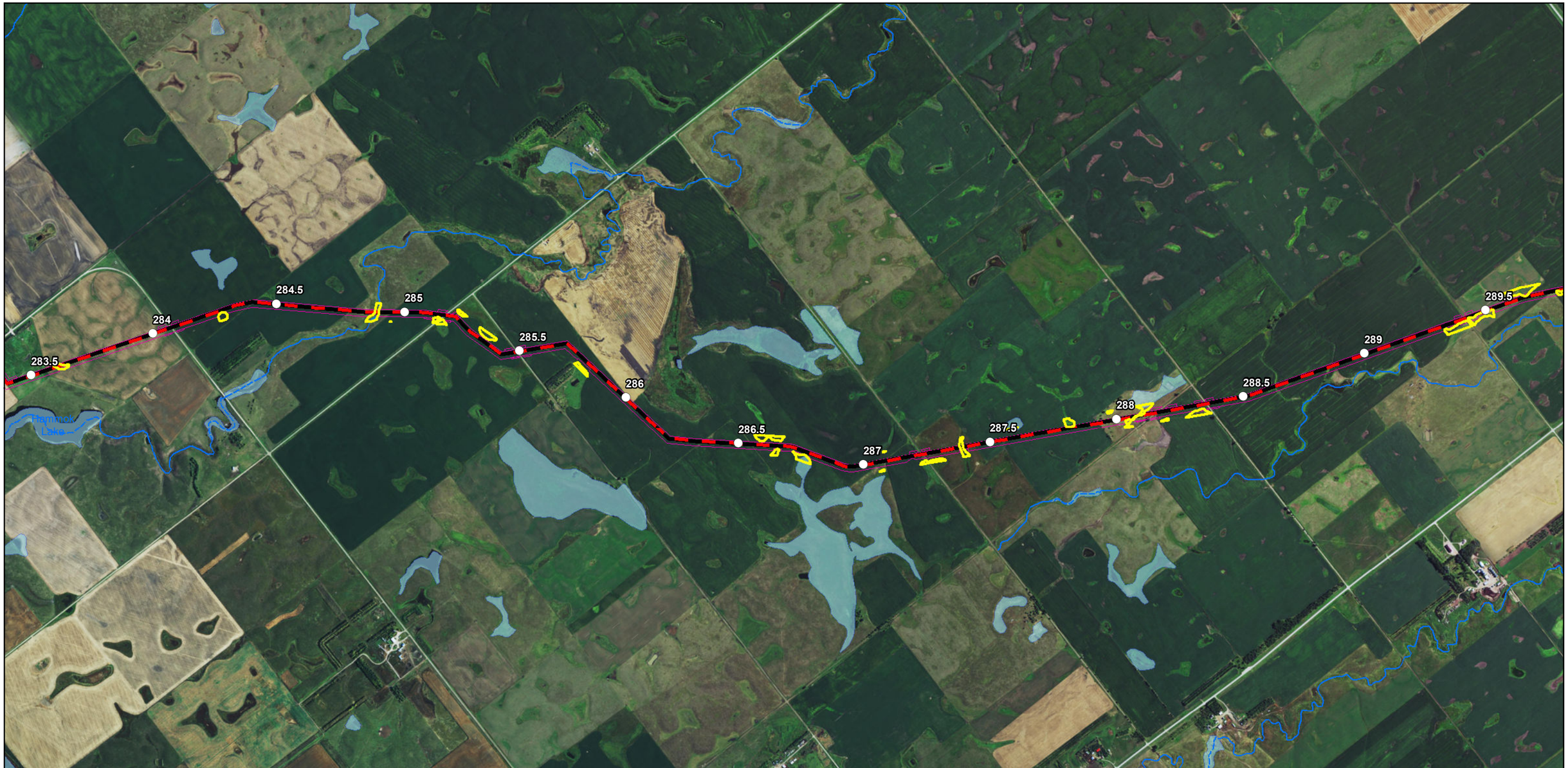
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 14 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

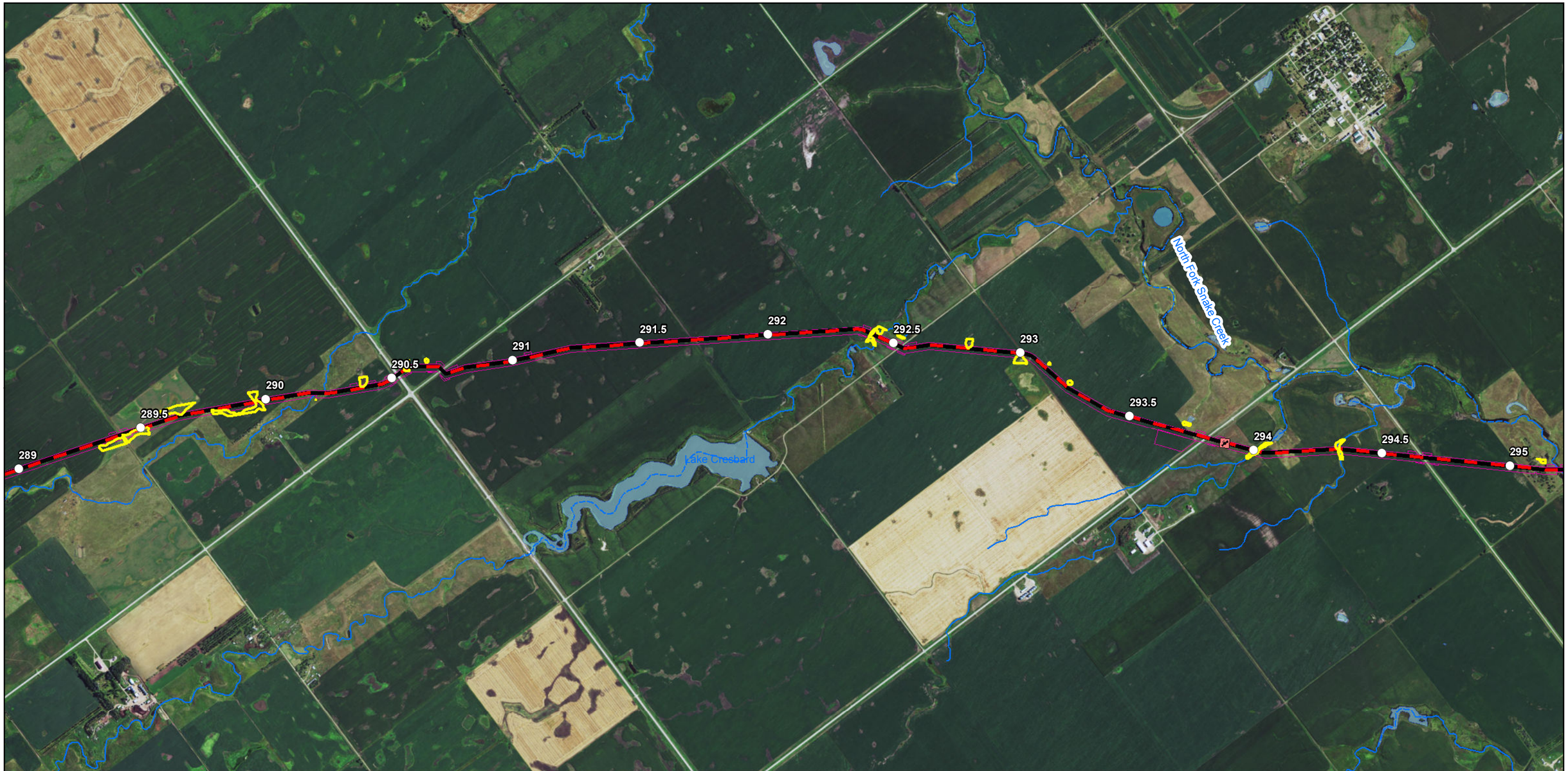
0 2,000 4,000 6,000 8,000
Feet

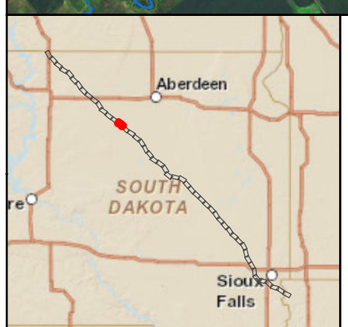
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 15 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

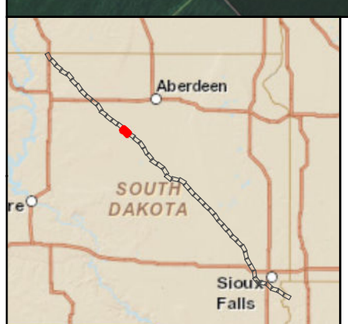
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 16 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

294.5
295
295.5
296
296.5
297
297.5
298
298.5
299
299.5
300
300.5
North Fork Snake Creek
South Fork Snake Creek
South Fork Snake Creek



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 17 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

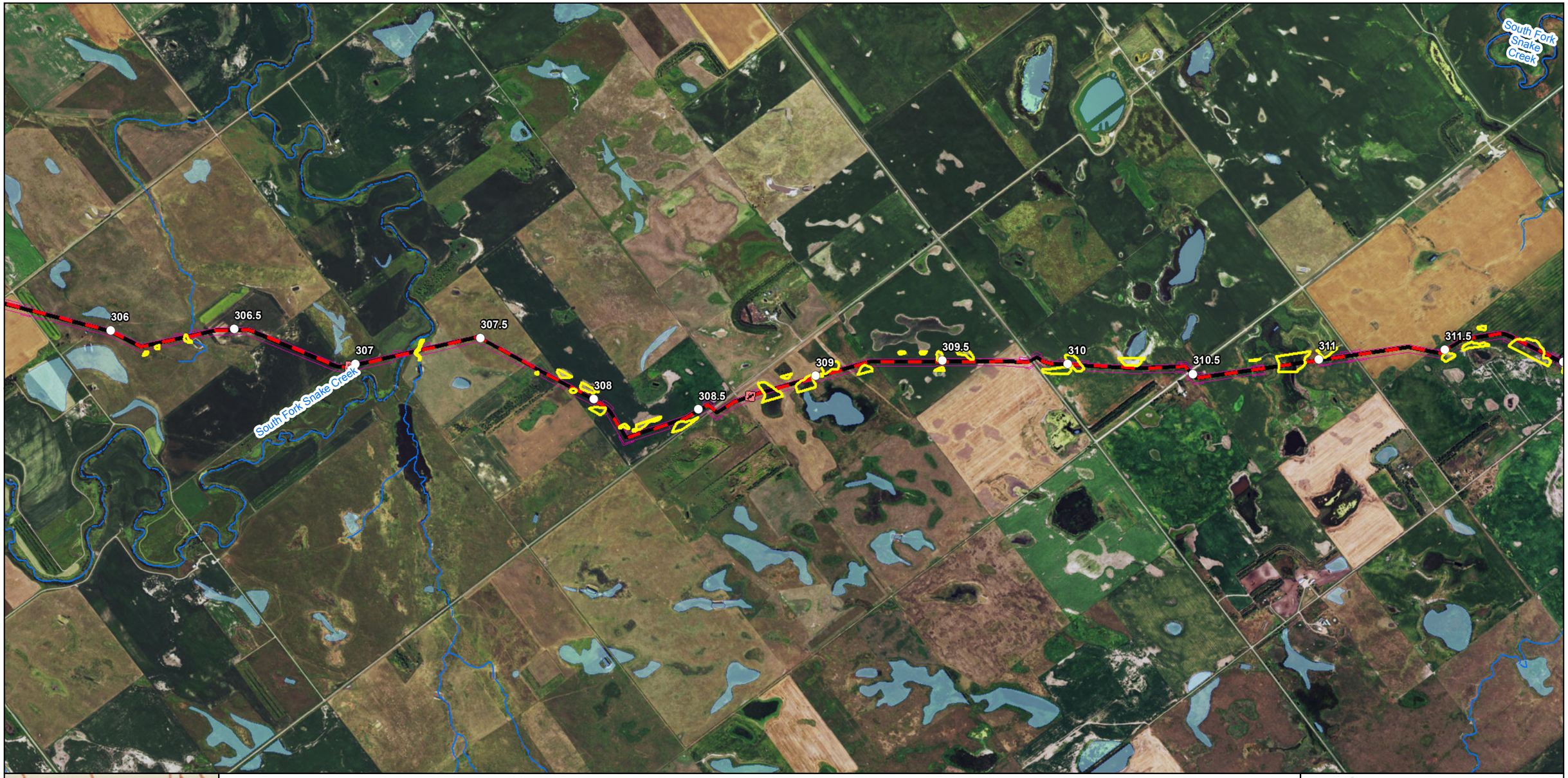
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 18 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 19 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

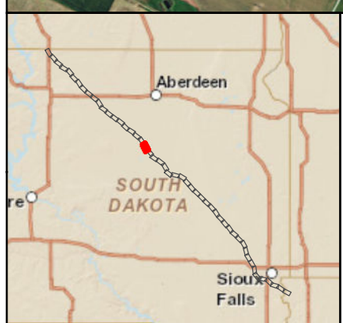
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 20 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 21 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 22 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 23 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

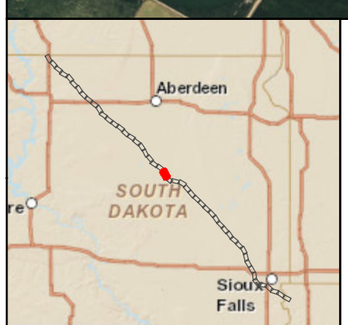
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 24 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 25 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

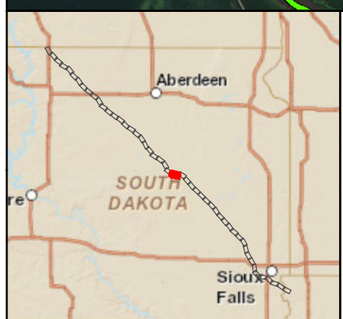
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 26 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 27 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

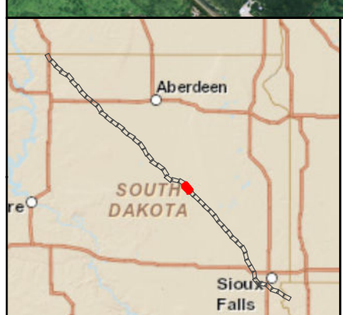
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 28 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

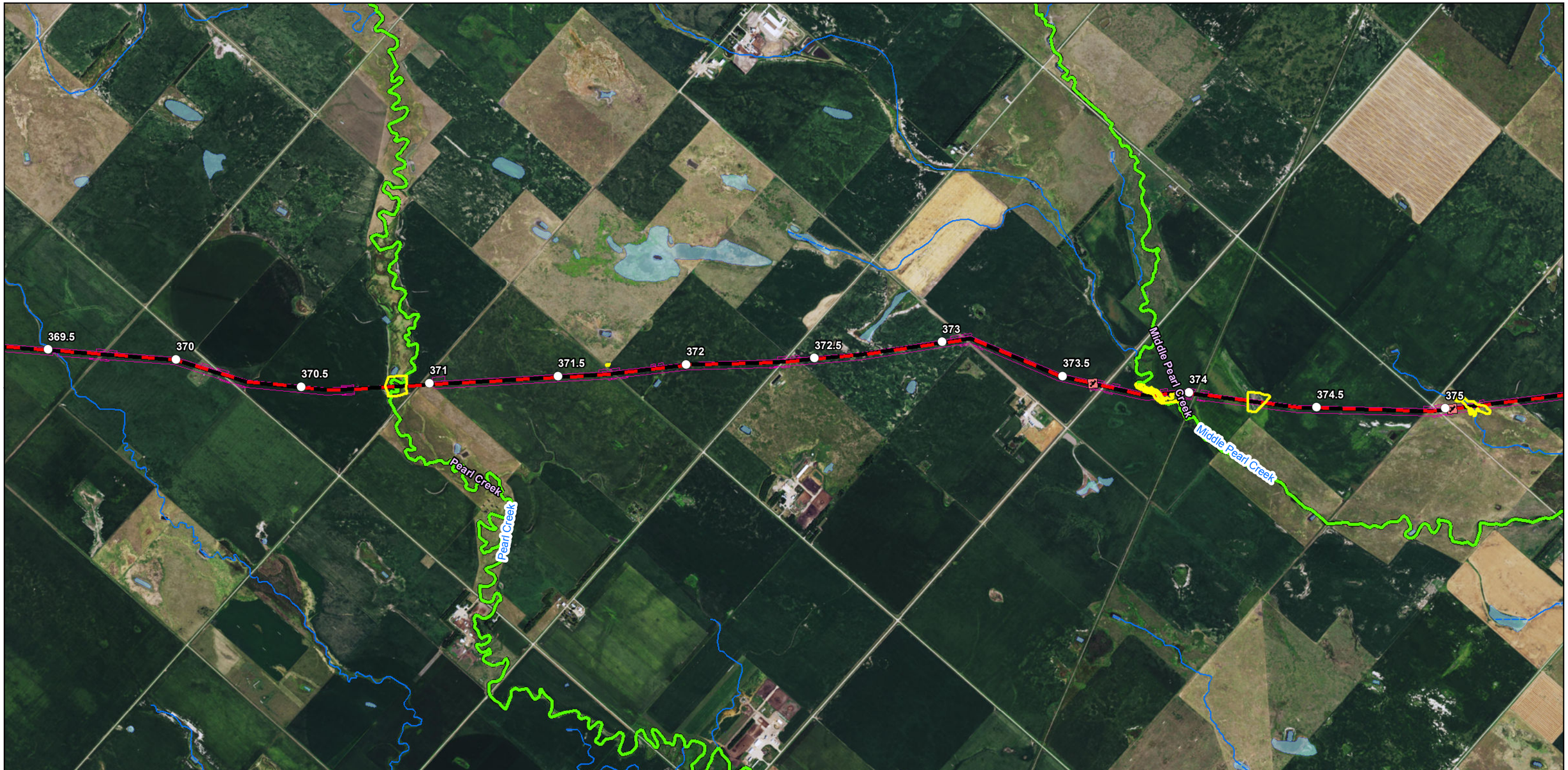
0 2,000 4,000 6,000 8,000
Feet

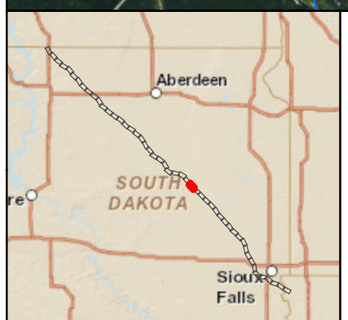
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 29 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

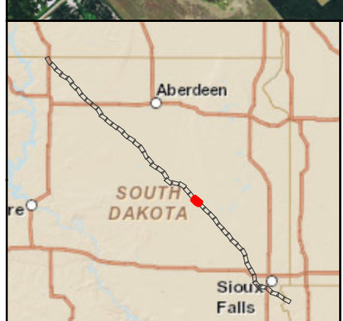
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 30 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

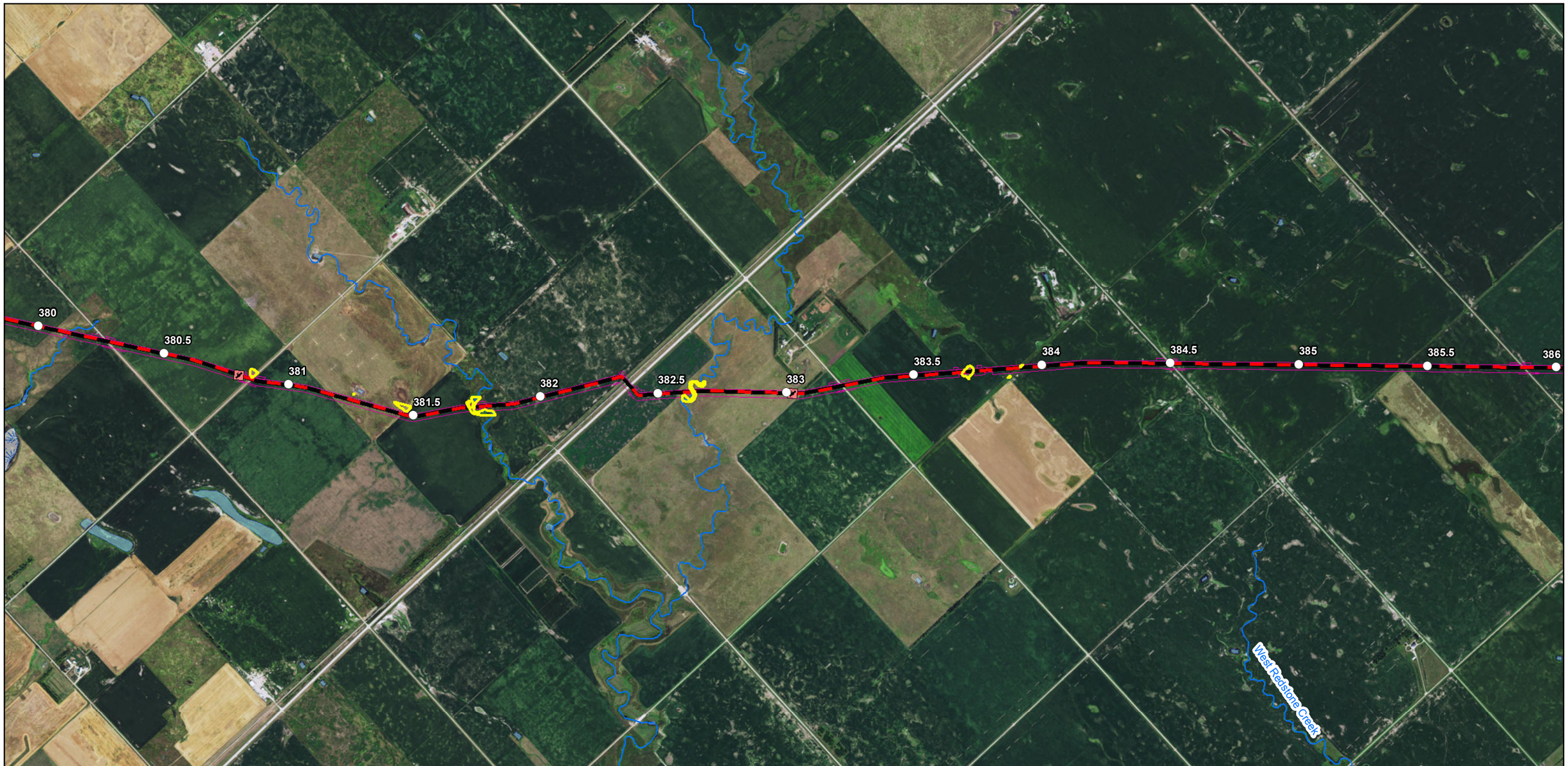
0 2,000 4,000 6,000 8,000
Feet

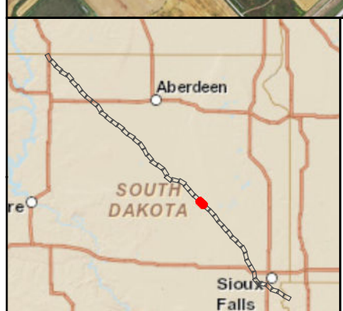
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 31 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

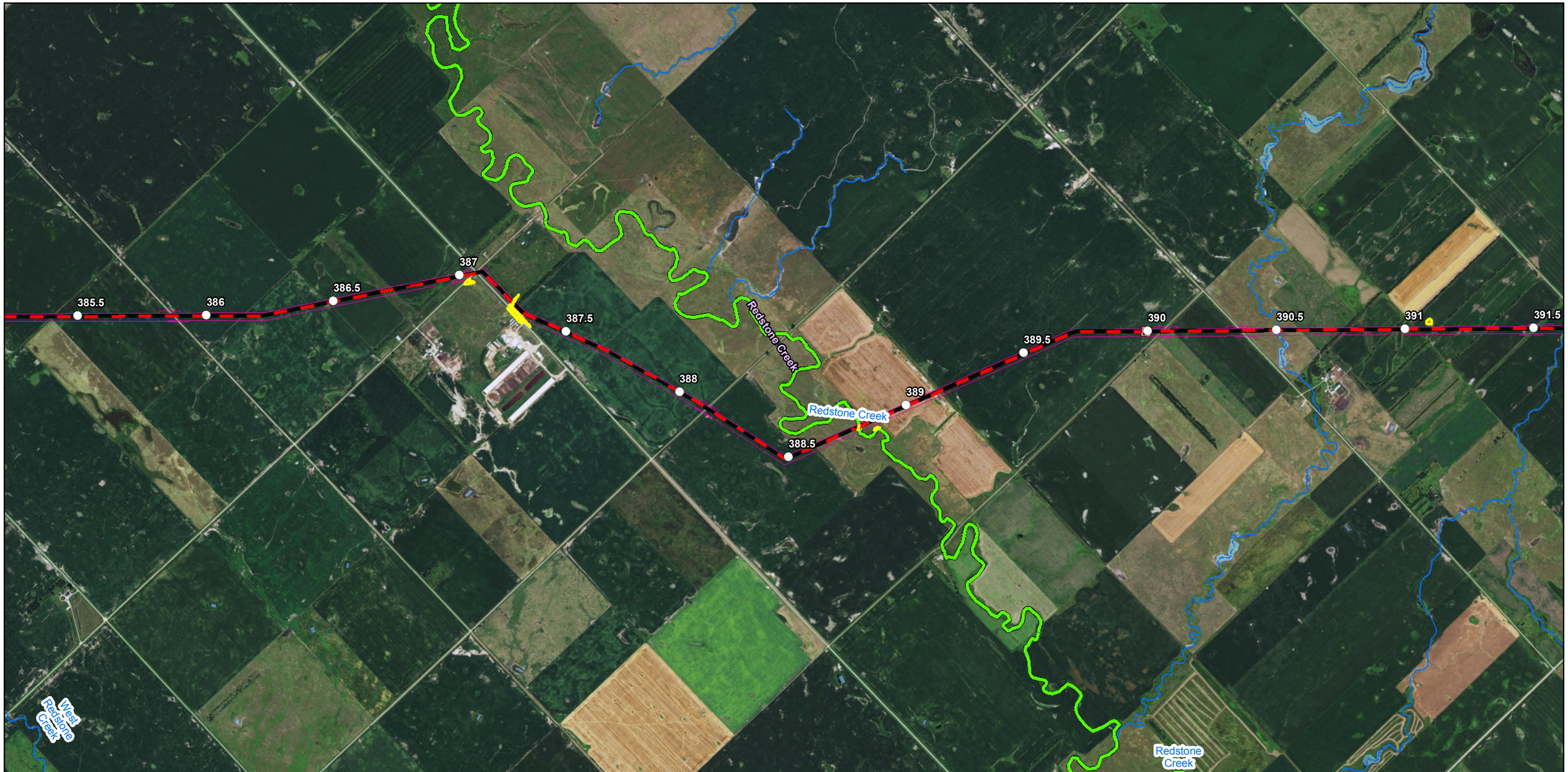
0 2,000 4,000 6,000 8,000
Feet

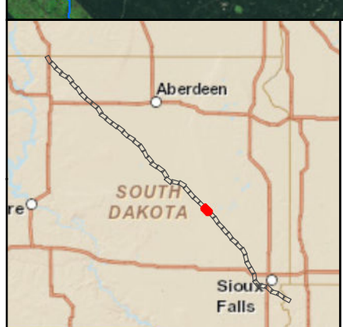
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 32 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

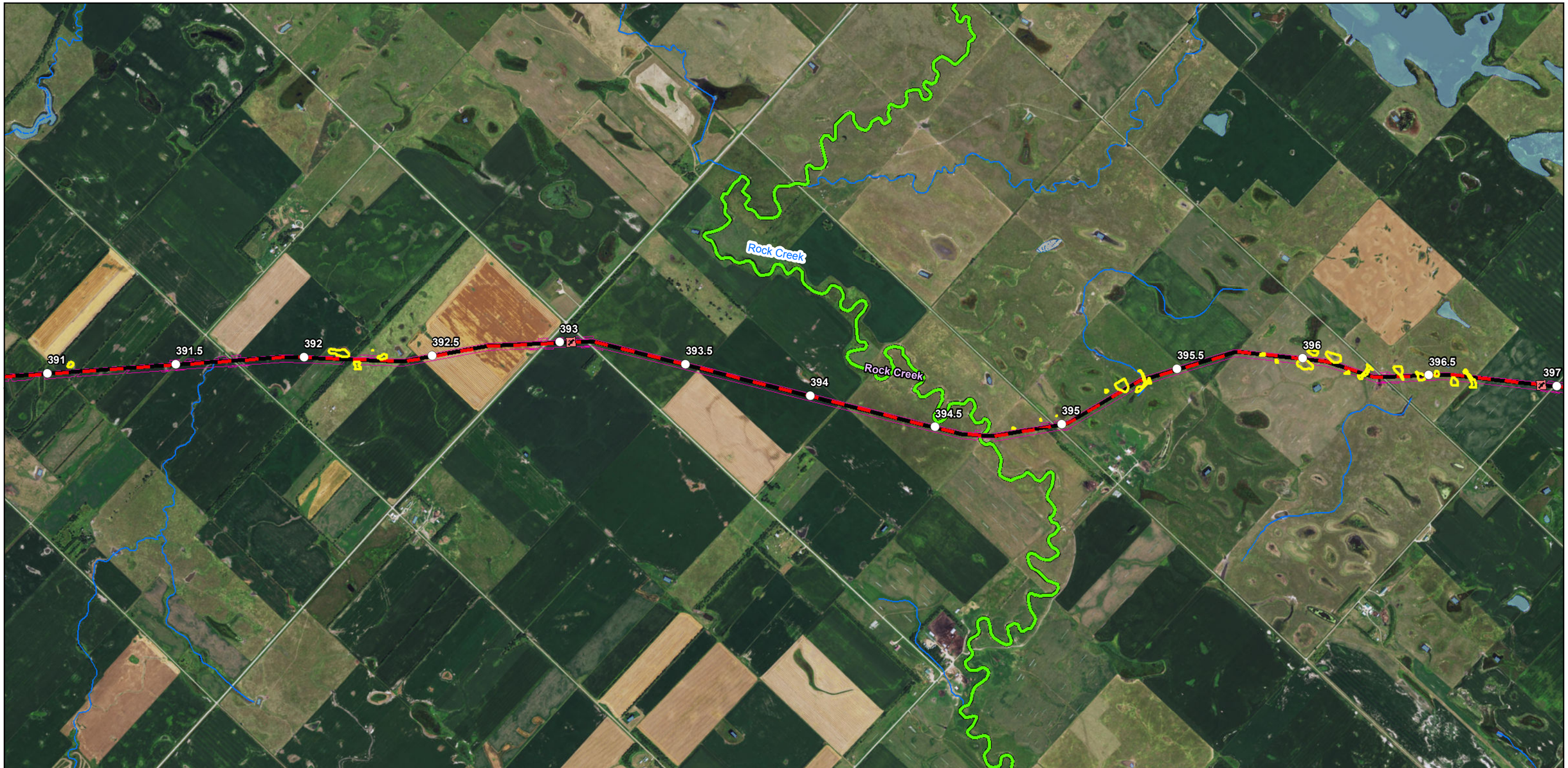
0 2,000 4,000 6,000 8,000
Feet

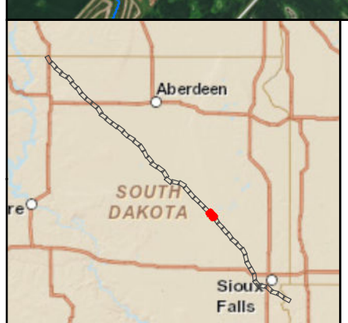
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 33 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 34 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

396.5
397
397.5
398
398.5
399
399.5
400
400.5
401
401.5
402
West Fork Vermillion River
West Fork Vermillion River
West Fork Vermillion River

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

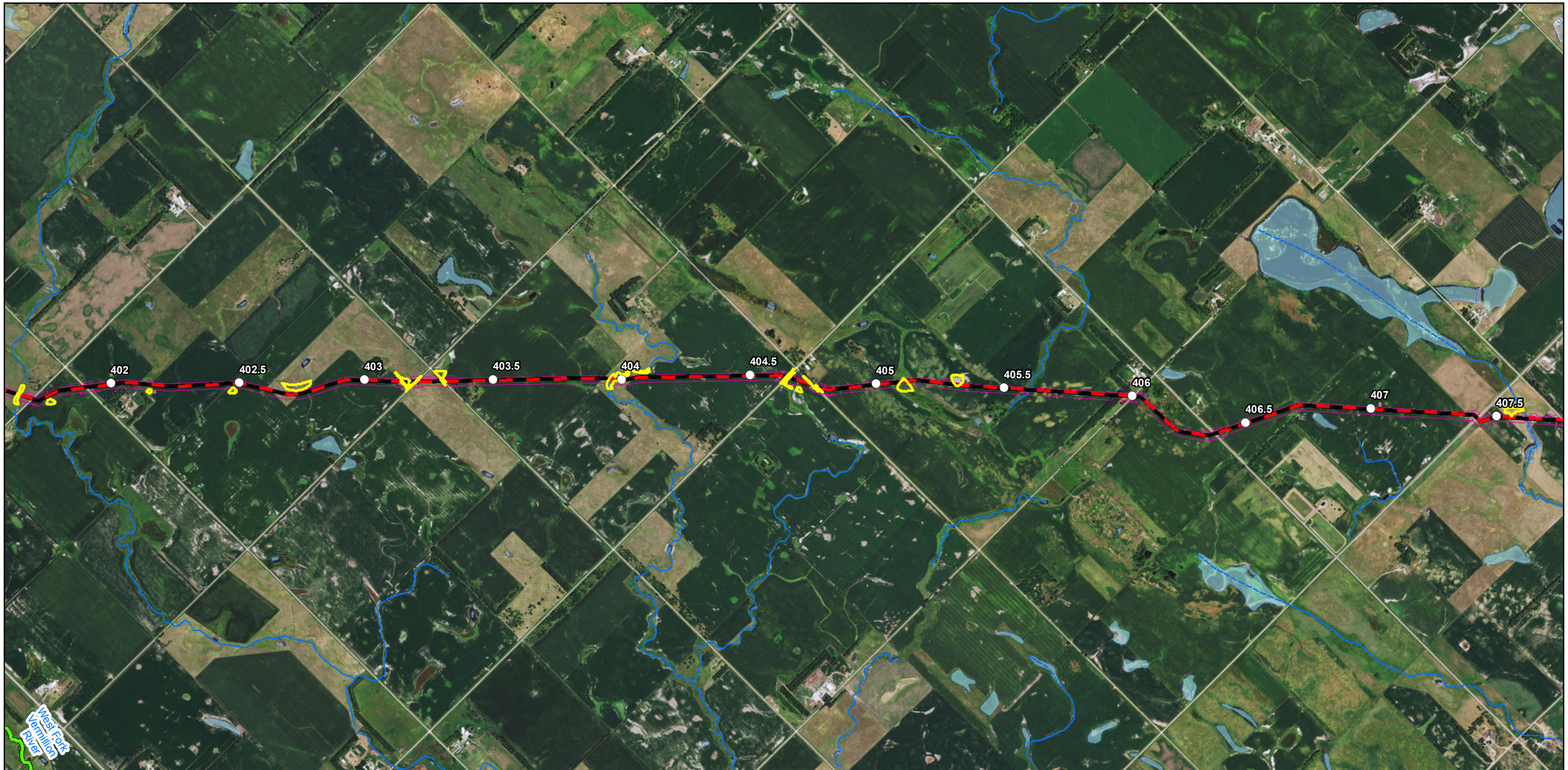
0 2,000 4,000 6,000 8,000
Feet

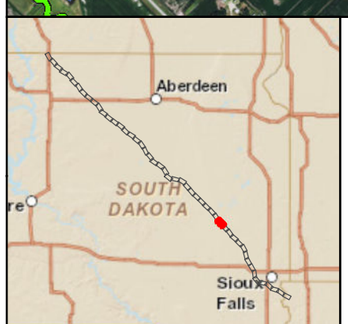
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 35 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 36 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

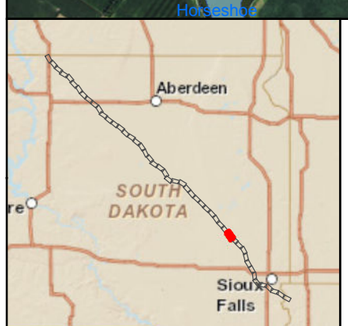
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 37 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 38 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

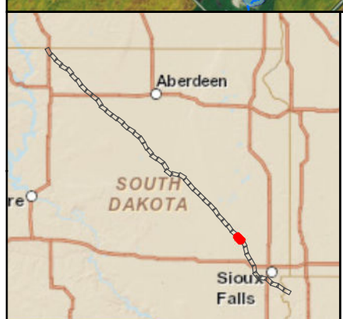
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 39 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

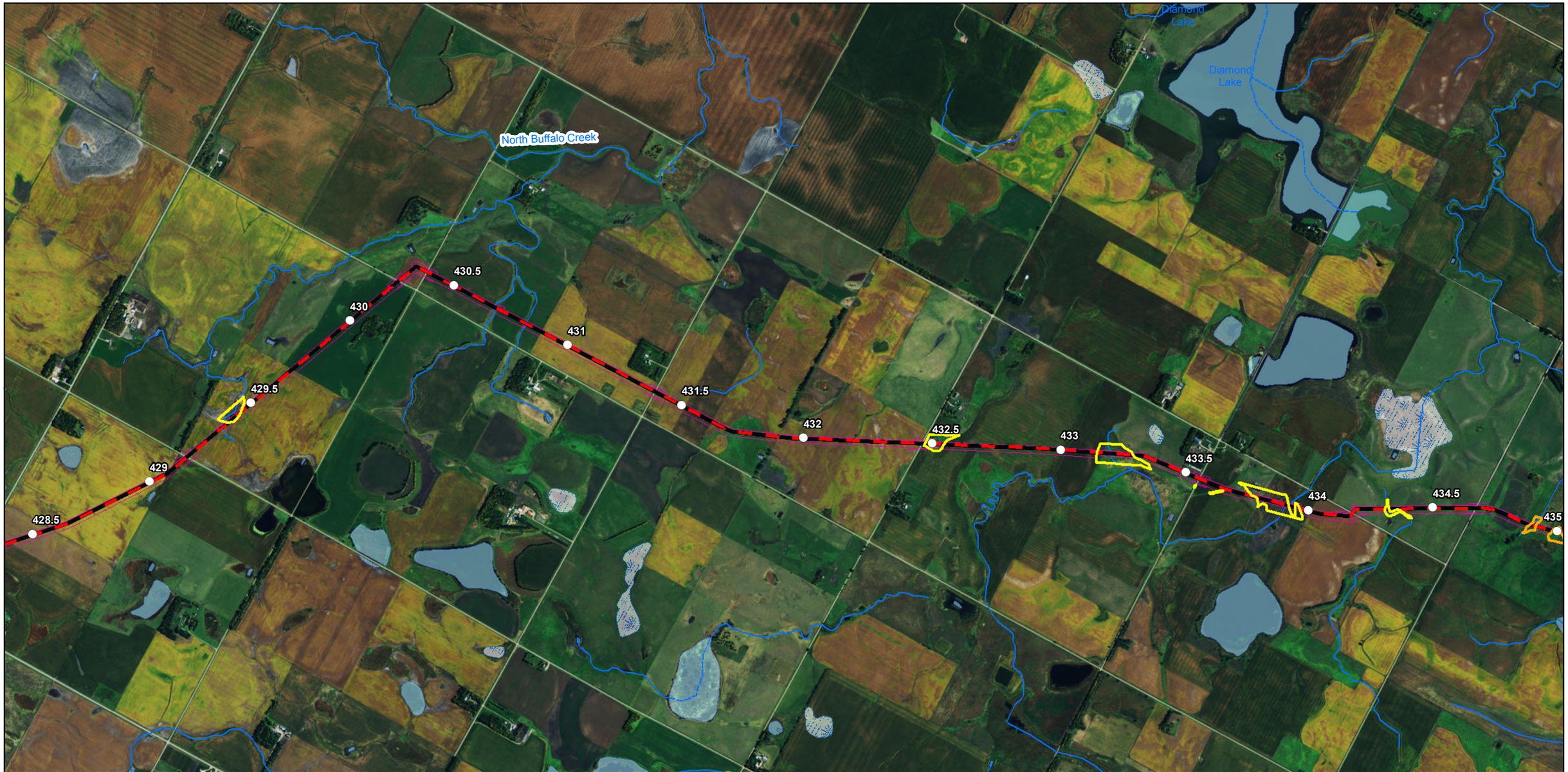
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 40 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

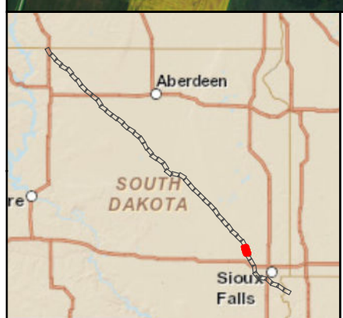
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 41 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 42 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd

Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

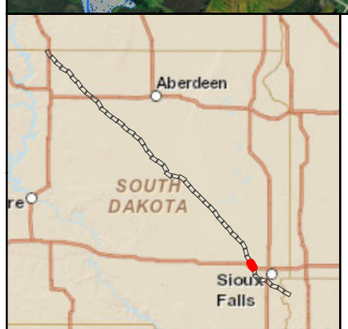
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 43 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

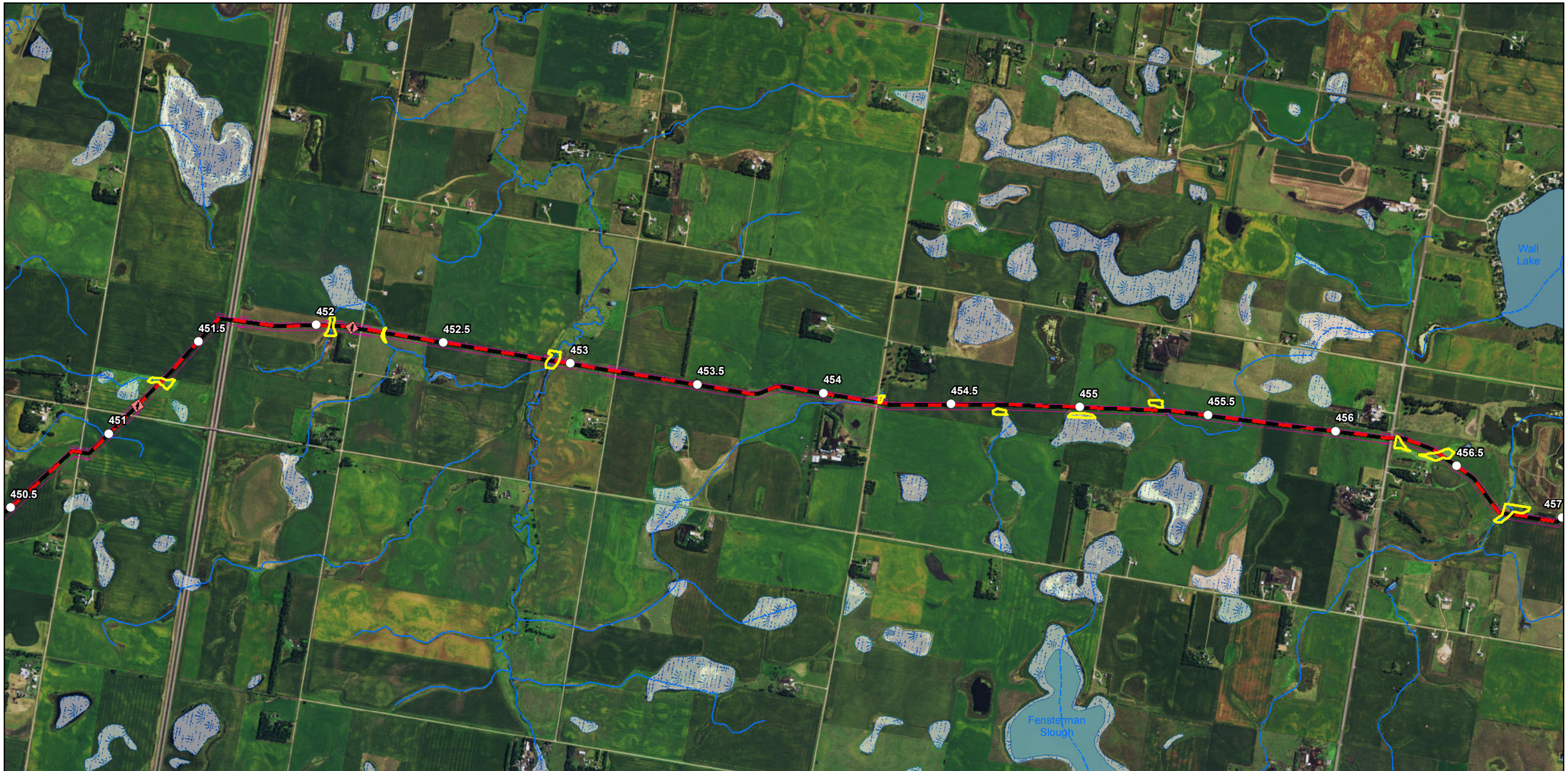
0 2,000 4,000 6,000 8,000
Feet

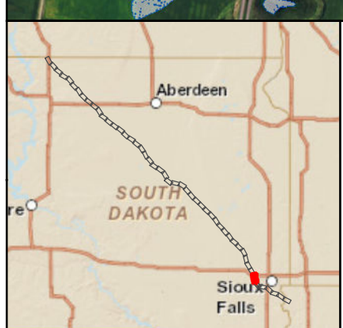
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 44 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

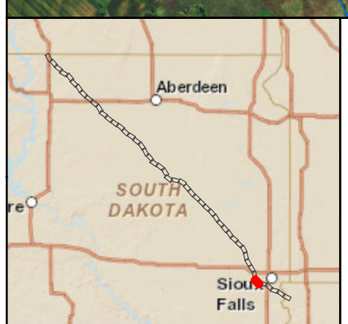
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 45 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

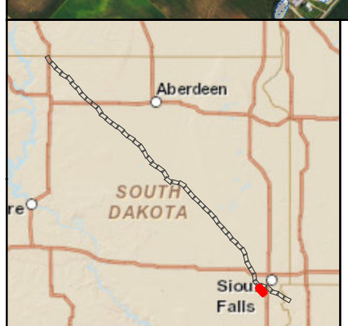
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 46 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

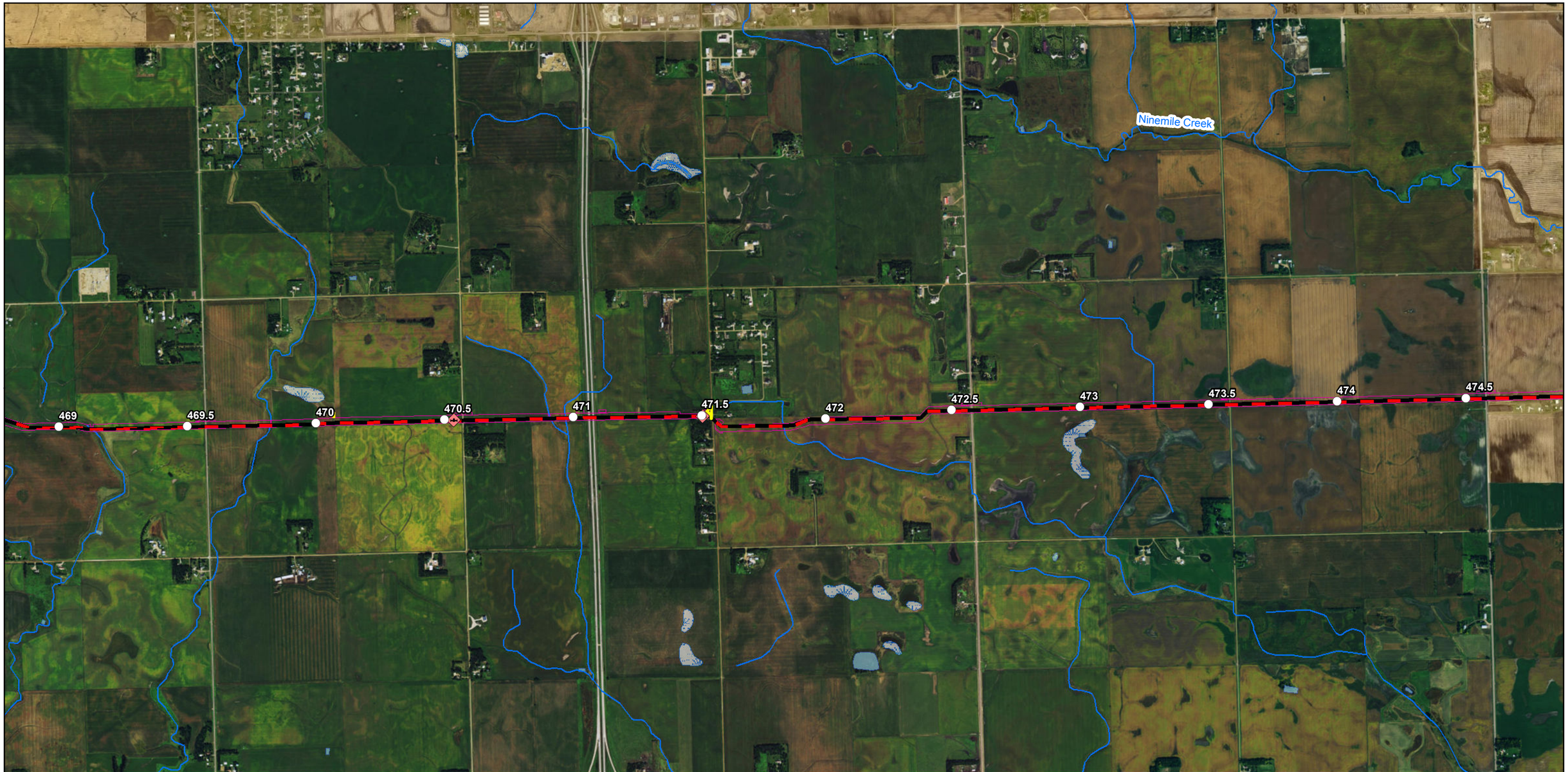
0 2,000 4,000 6,000 8,000
Feet

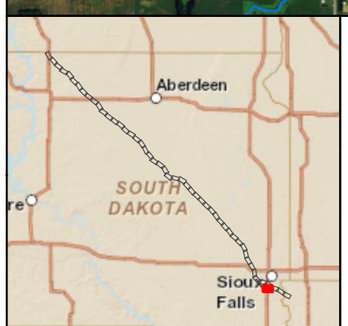
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 47 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd





Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

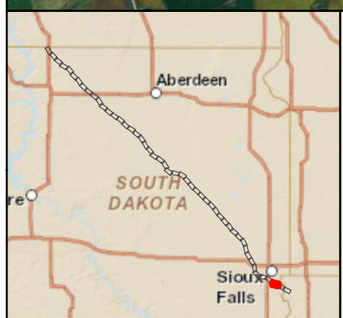
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 48 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

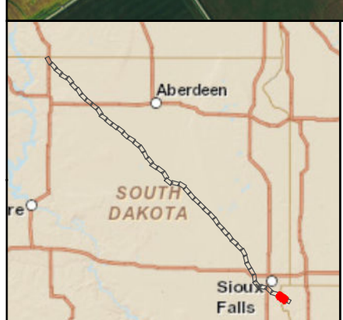
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 49 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Milepost
Launcher/Receiver
Mainline Valve
Proposed Route
Work Space
Spink Pump Station
Topeka Shiner Stream
PEM Wetland
PSS Wetland

NHD Stream Type
334 Connector
460 Stream
558 Artificial Path

NHD Waterbody Type
390 Lake/Pond
466 Swampmarsh

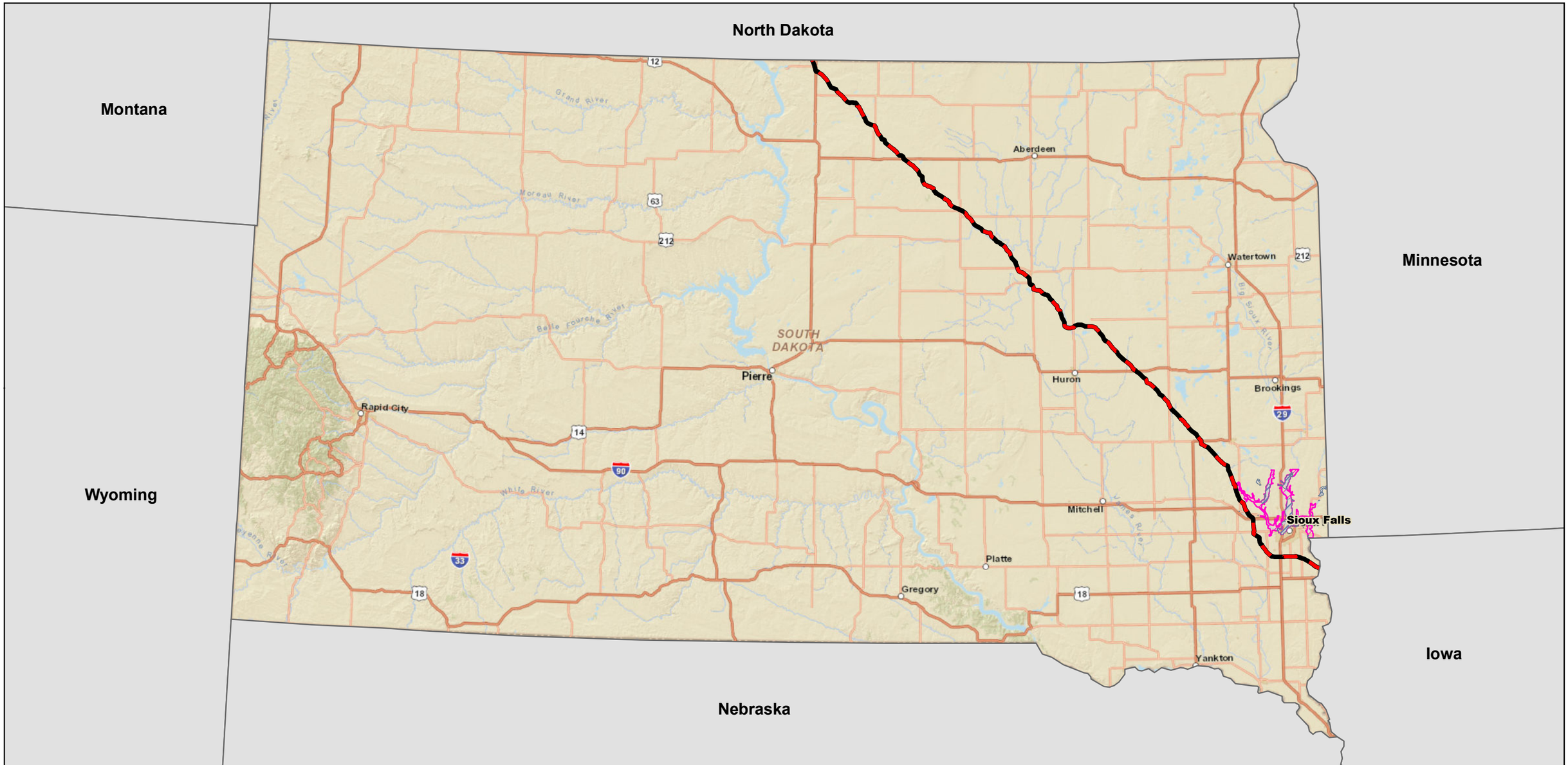
0 2,000 4,000 6,000 8,000
Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

Page 50 of 52	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15B_Hydro.mxd



Proposed Route

Minnehaha Zone A (Sourcewater Protection Area)

Minnehaha County Wellhead Protection Area

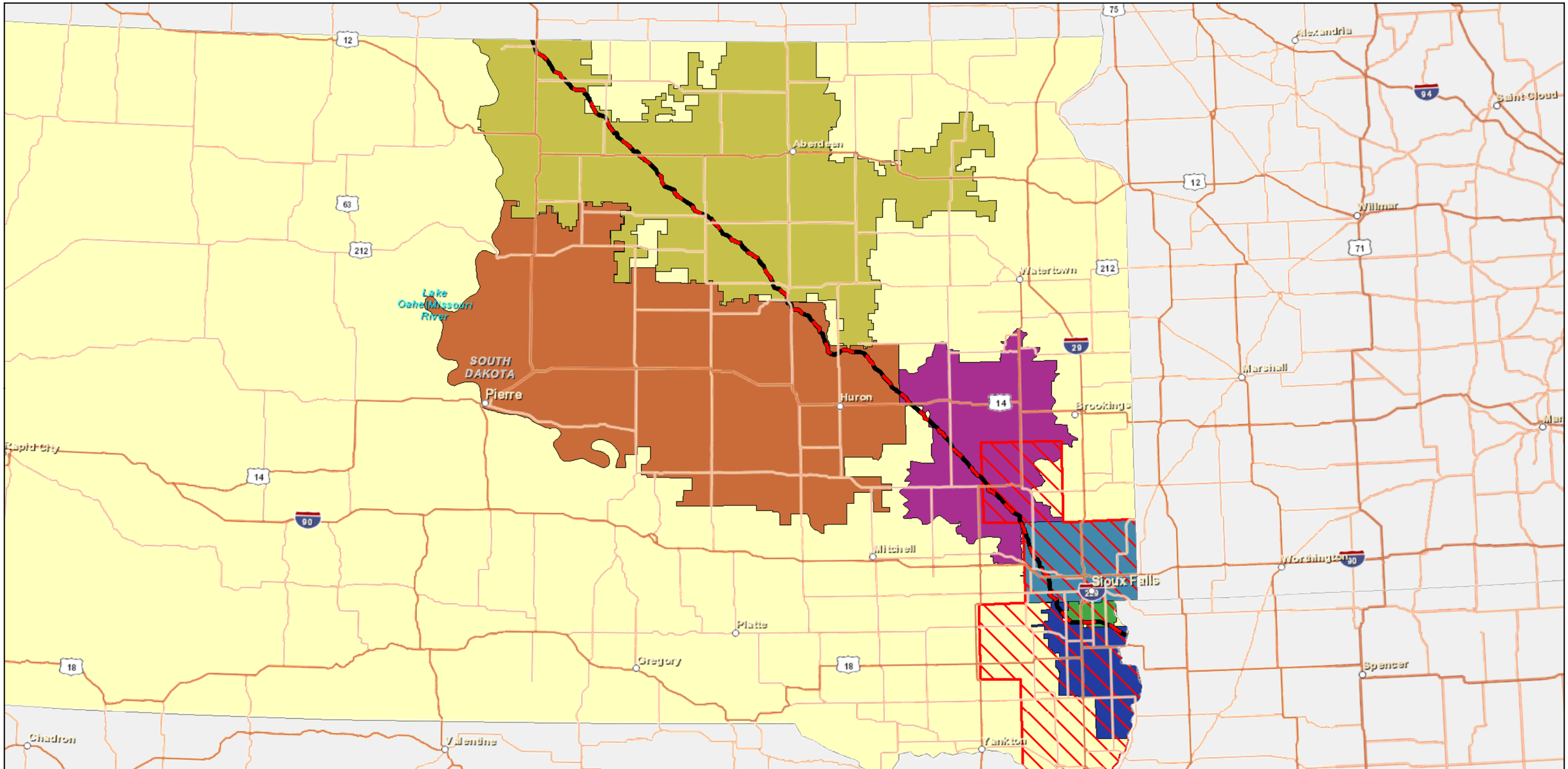
0 50 100 150 200 Miles

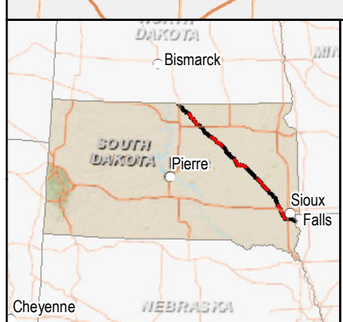
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Minnehaha Sourcewater Map
South Dakota

	Scale: 1:2,160,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15C_Minihaha_sourcewater.mxd





Proposed Route

Rural Water District Boundary

- Kingbrook
- Lincoln
- Mid Dakota
- Minnehaha
- South Lincoln
- WEB
- Lewis and Clark

0 30 60 90 120
Miles

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Rural Water Districts Map
South Dakota

Page 52 of 52	Scale: 1:1,842,004
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\15D_RWD.mxd

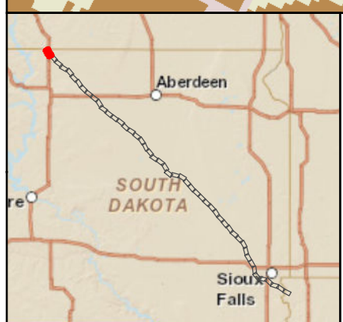
DAKOTA ACCESS, LLC

Exhibit A

Project Mapping

Exhibit A5

USGS Landcover/Land Use Field Data Maps



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

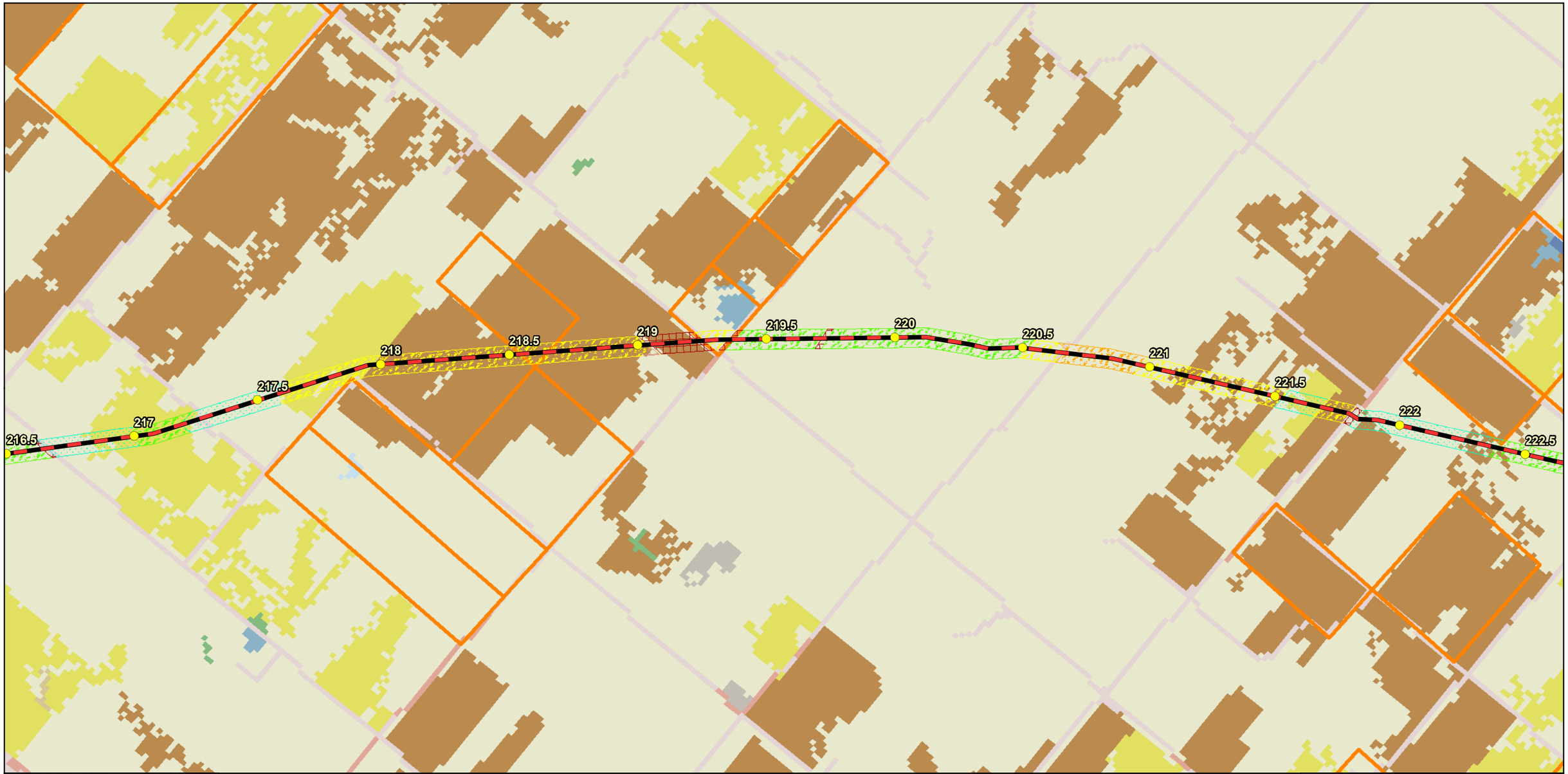
0 2,000 4,000 6,000 8,000 Feet

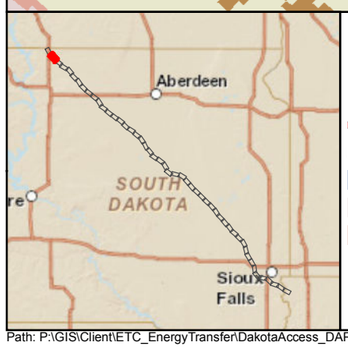
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 1 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

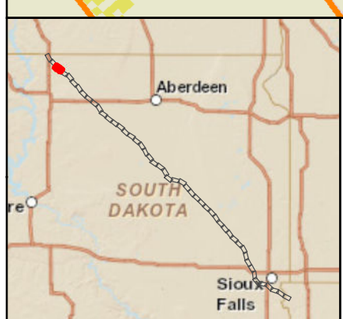
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 2 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

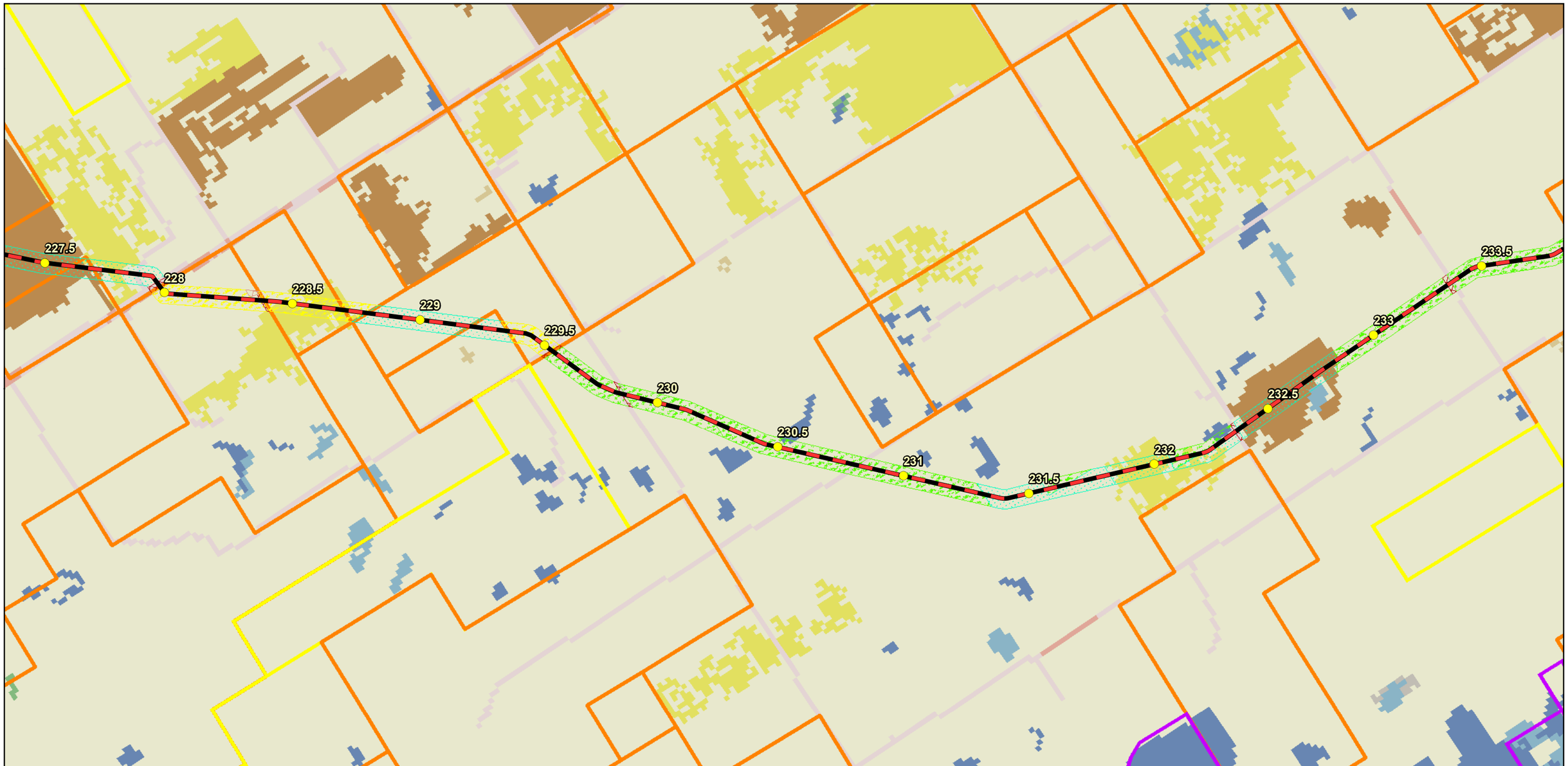
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 3 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

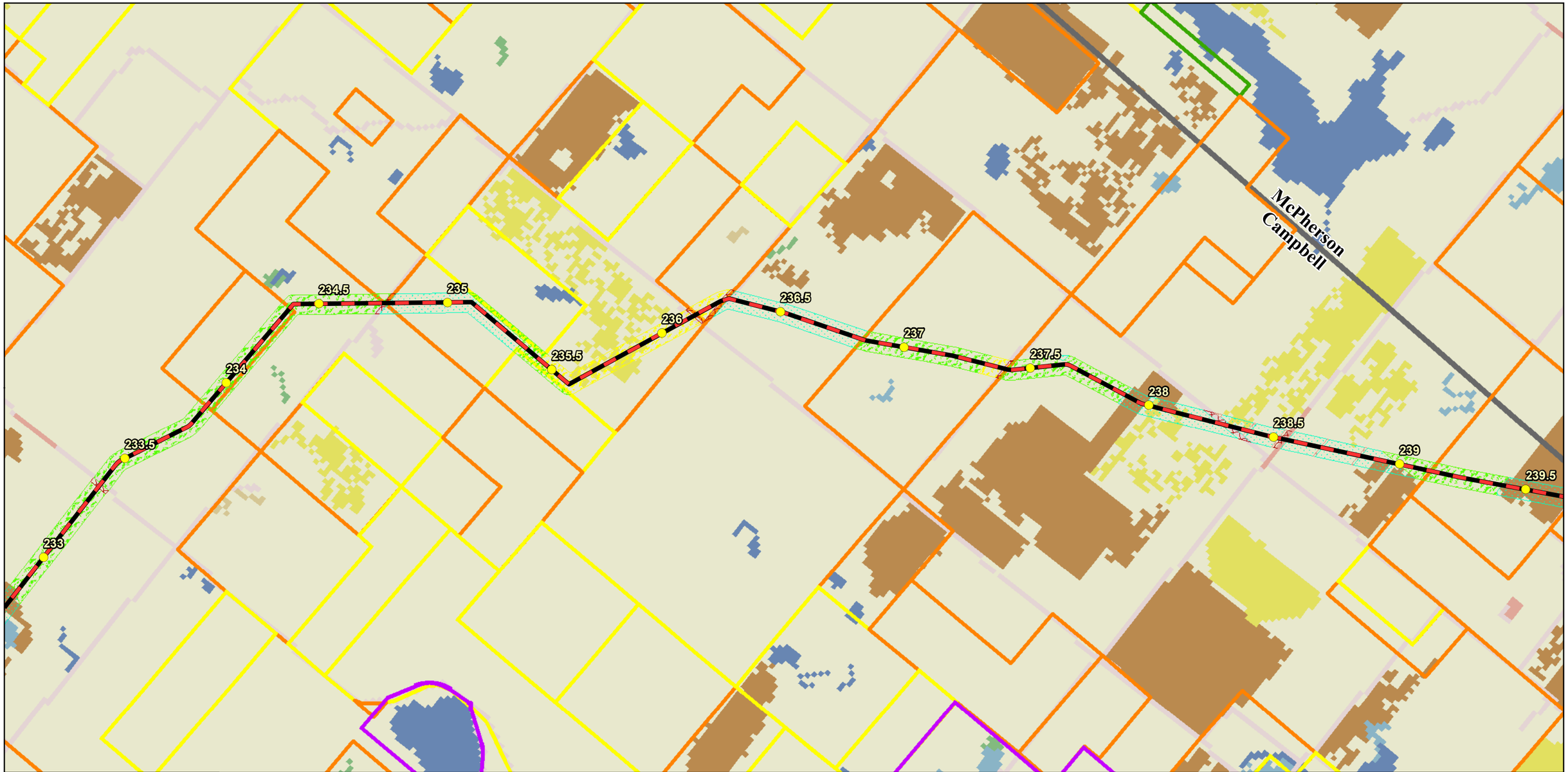
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 4 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

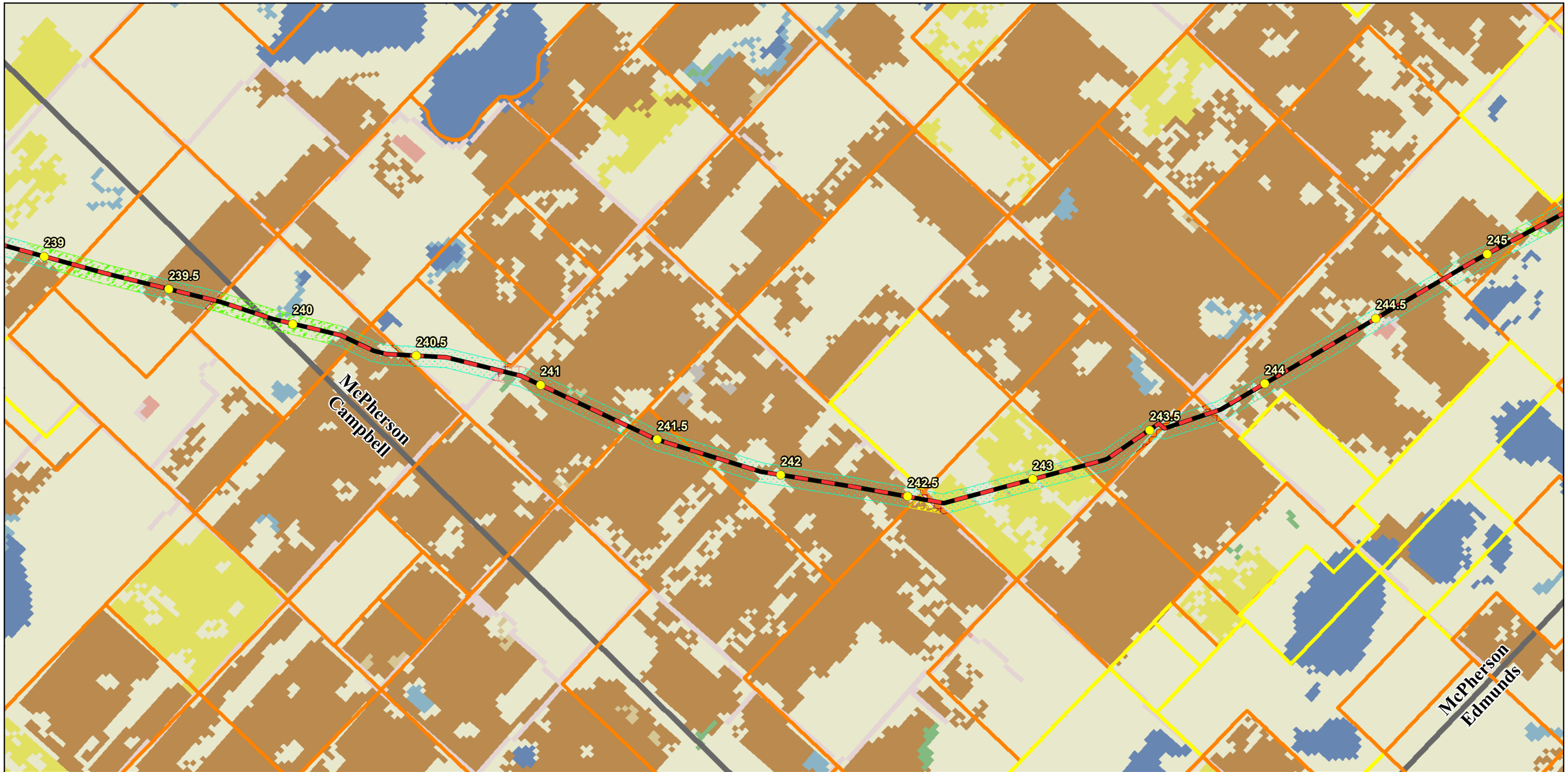
0 2,000 4,000 6,000 8,000 Feet

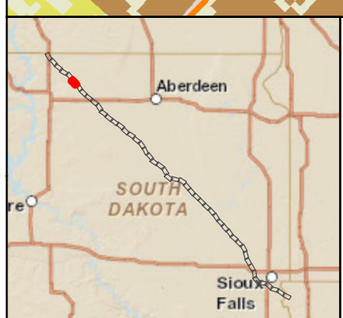
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 5 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

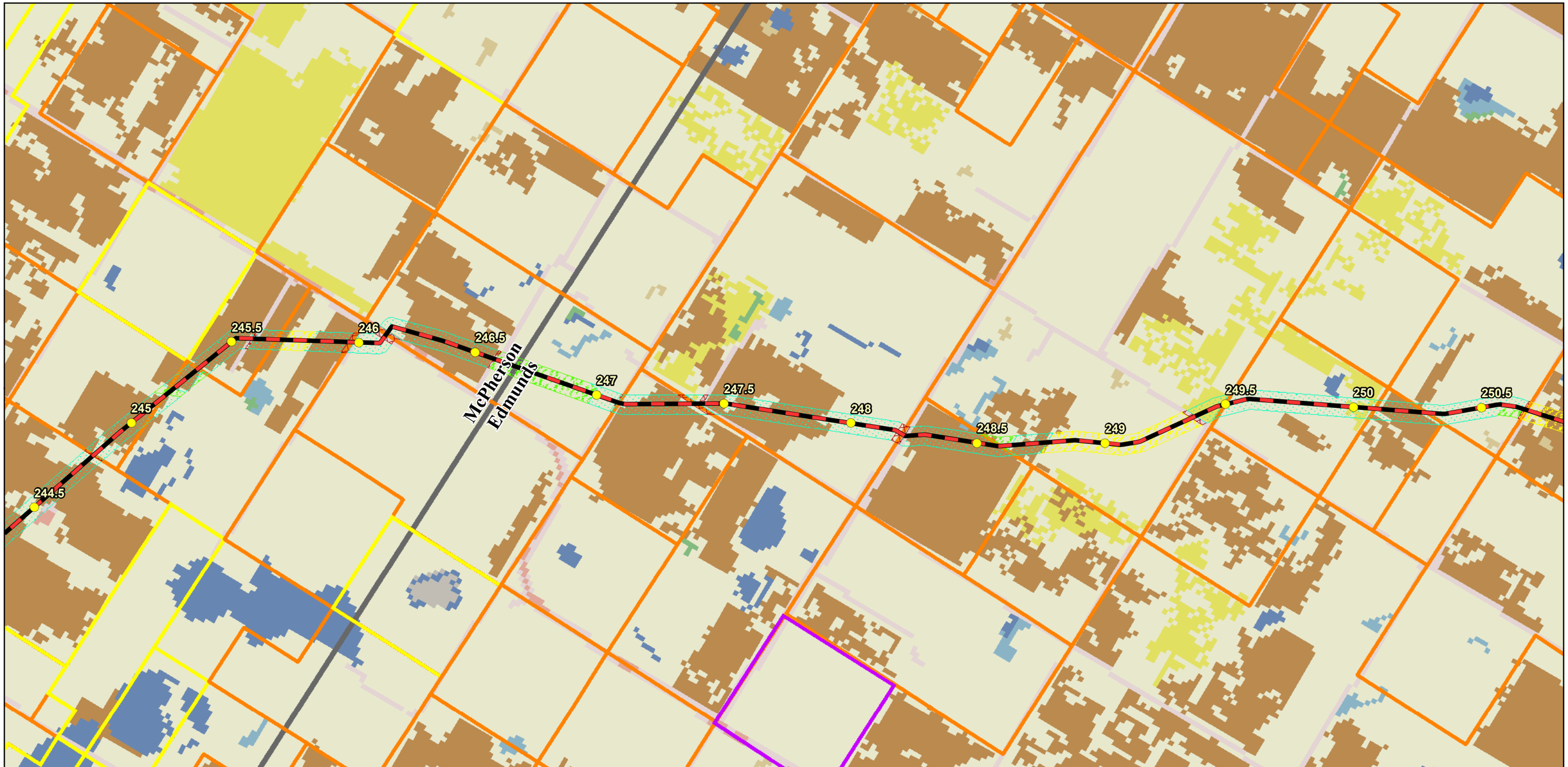
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 6 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

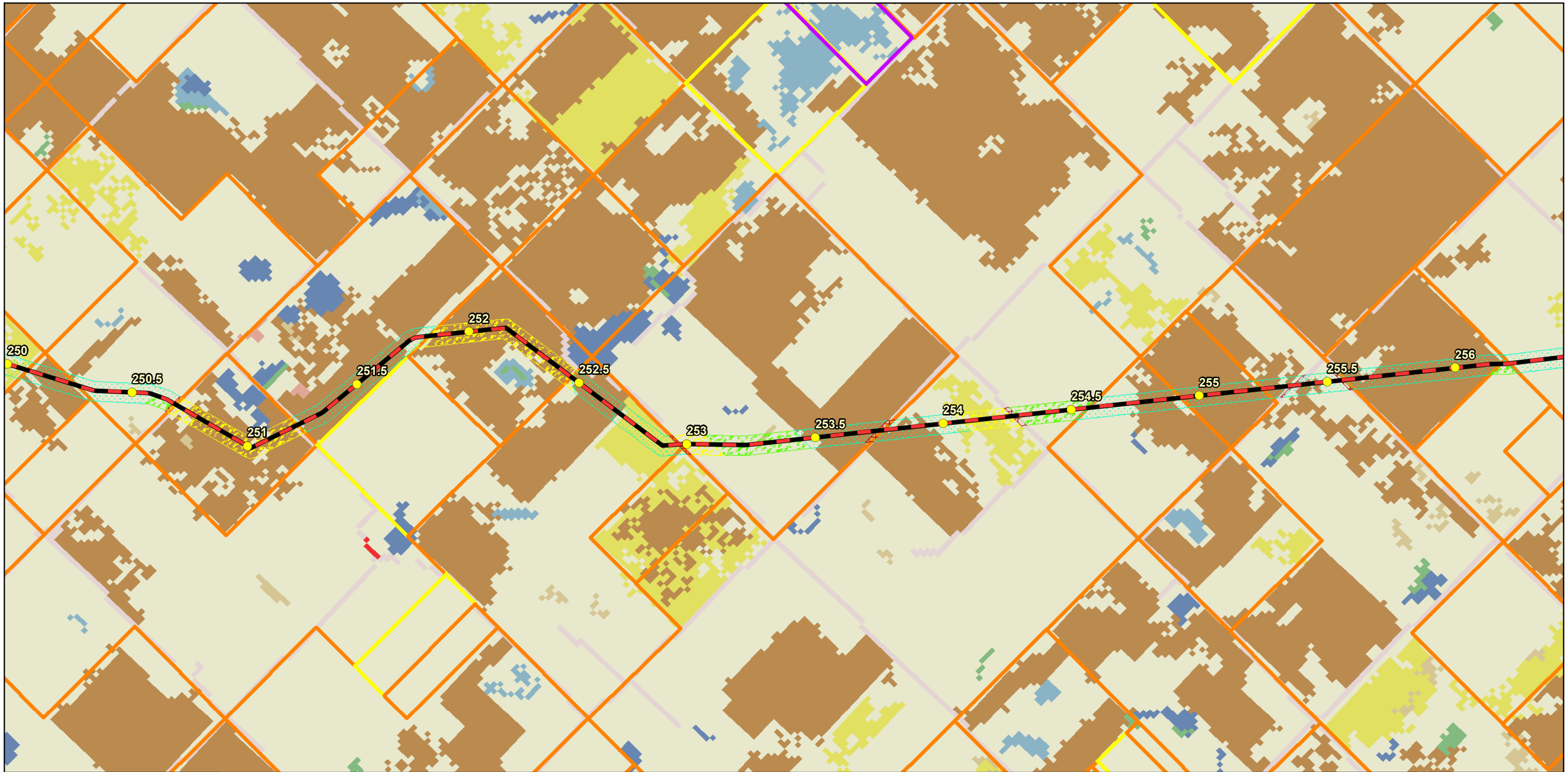
0 2,000 4,000 6,000 8,000 Feet

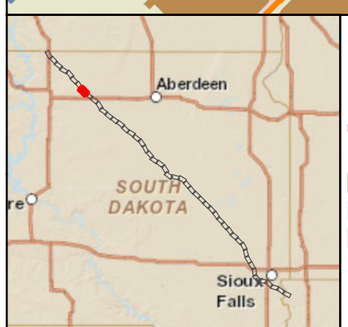
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 7 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

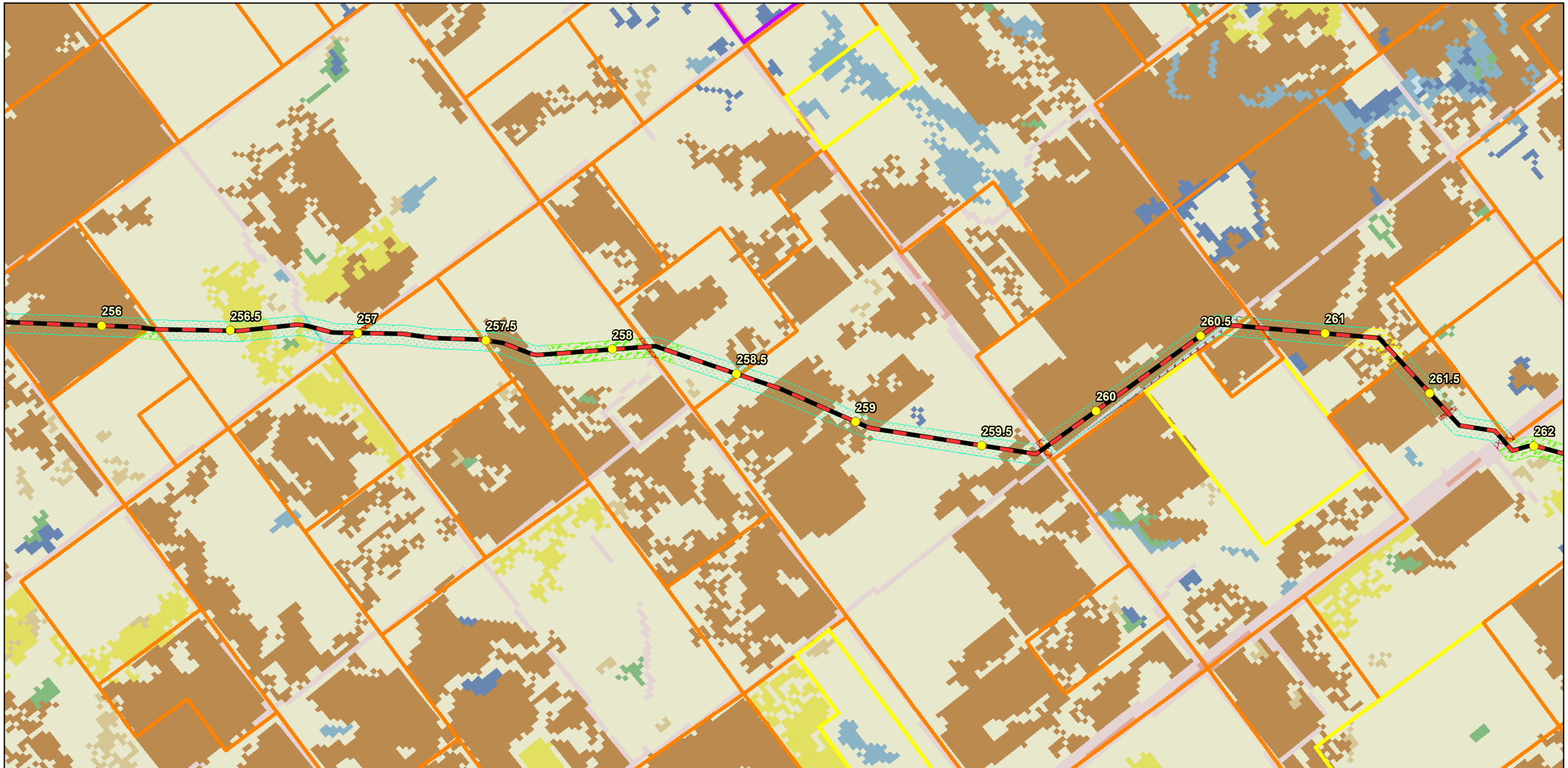
0 2,000 4,000 6,000 8,000 Feet

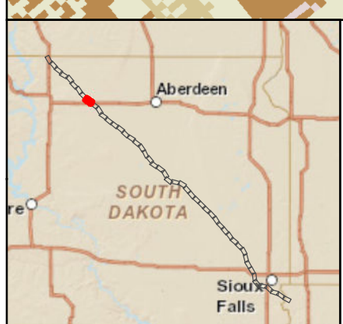
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 8 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

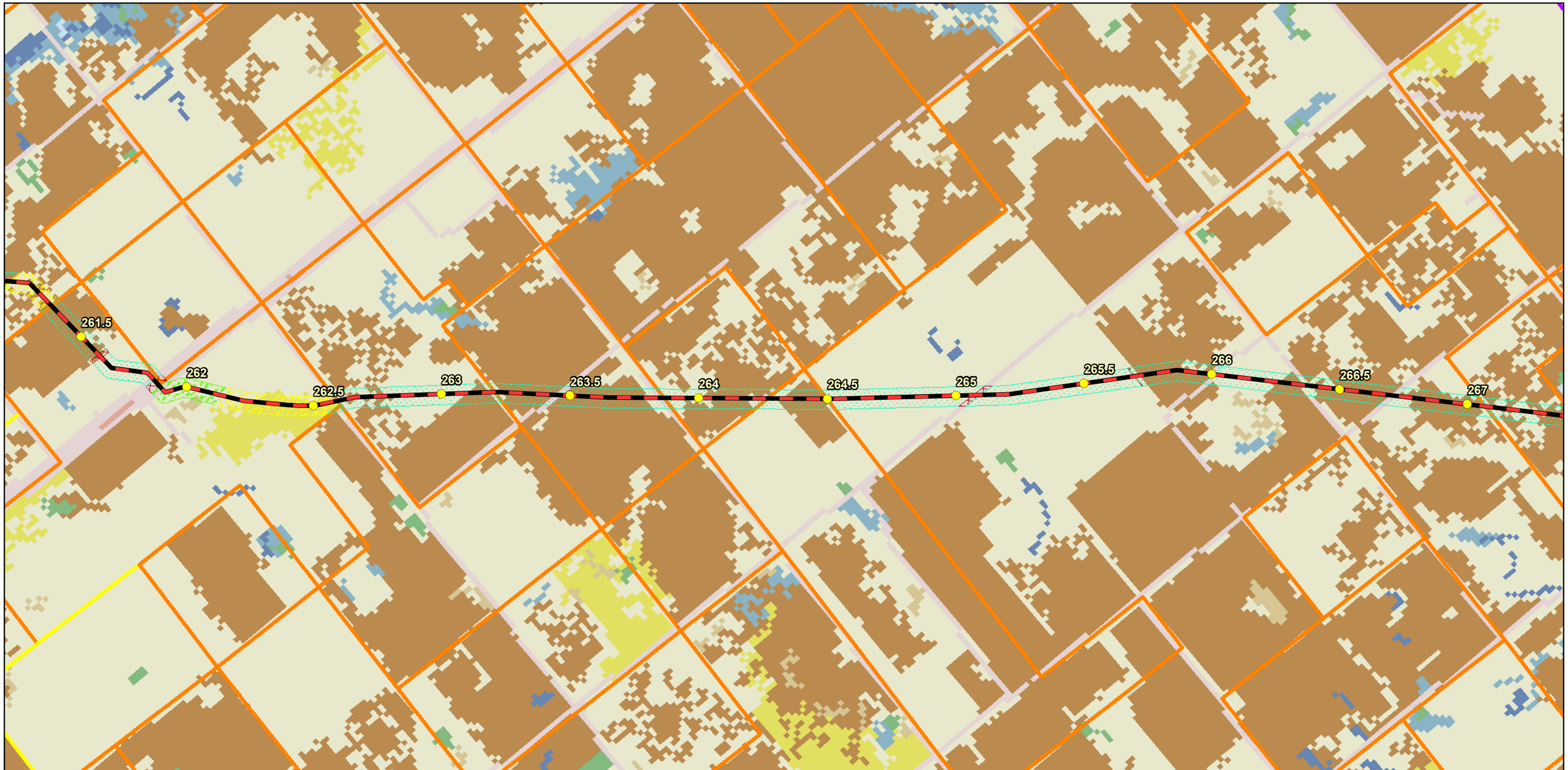
0 2,000 4,000 6,000 8,000 Feet

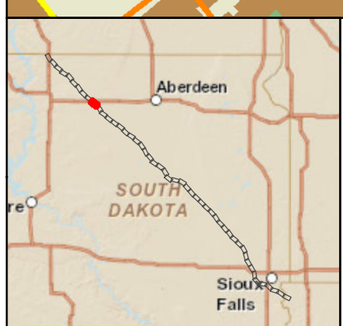
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 9 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

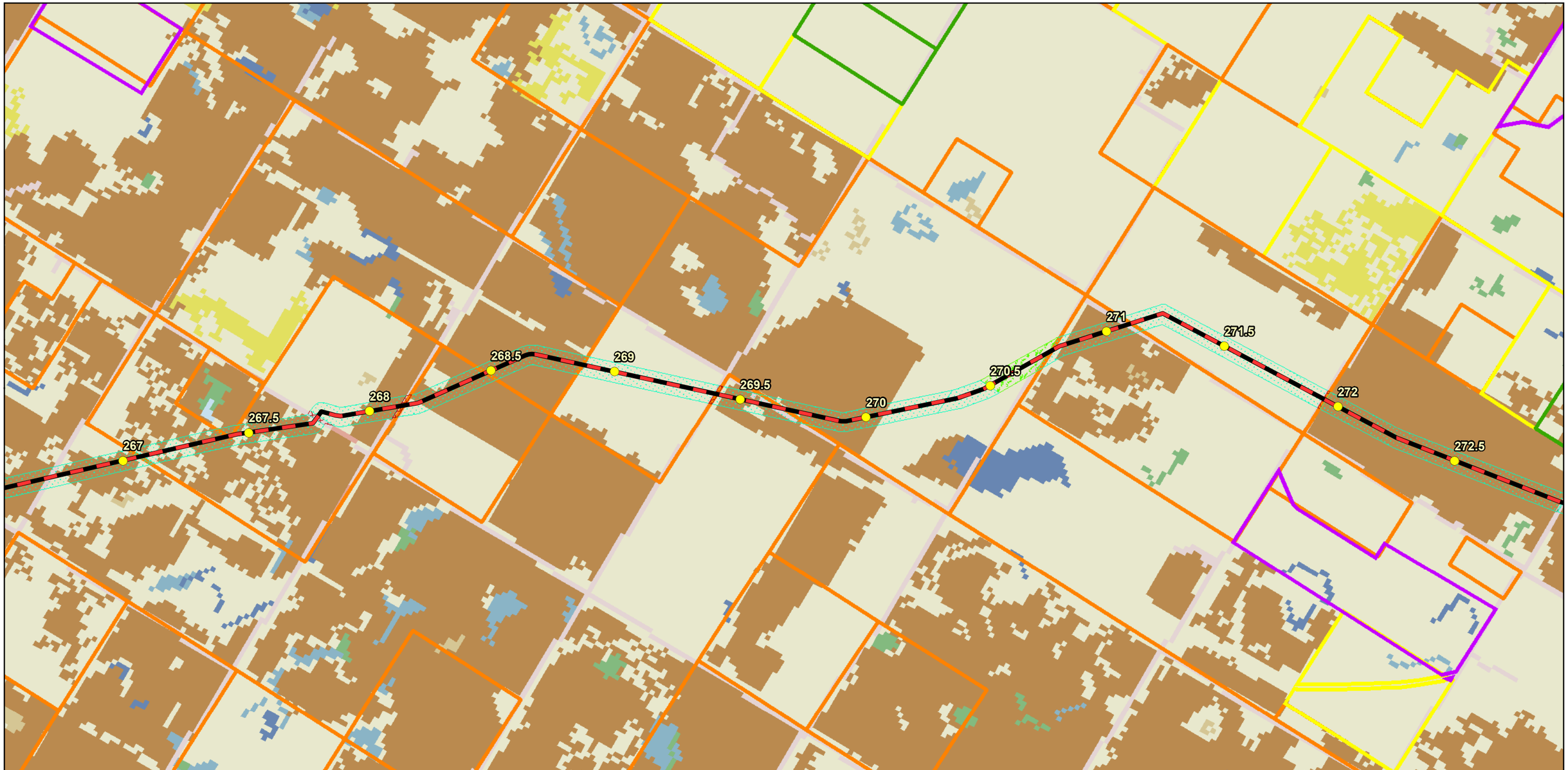
0 2,000 4,000 6,000 8,000 Feet

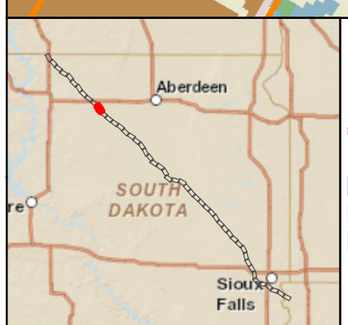
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 10 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

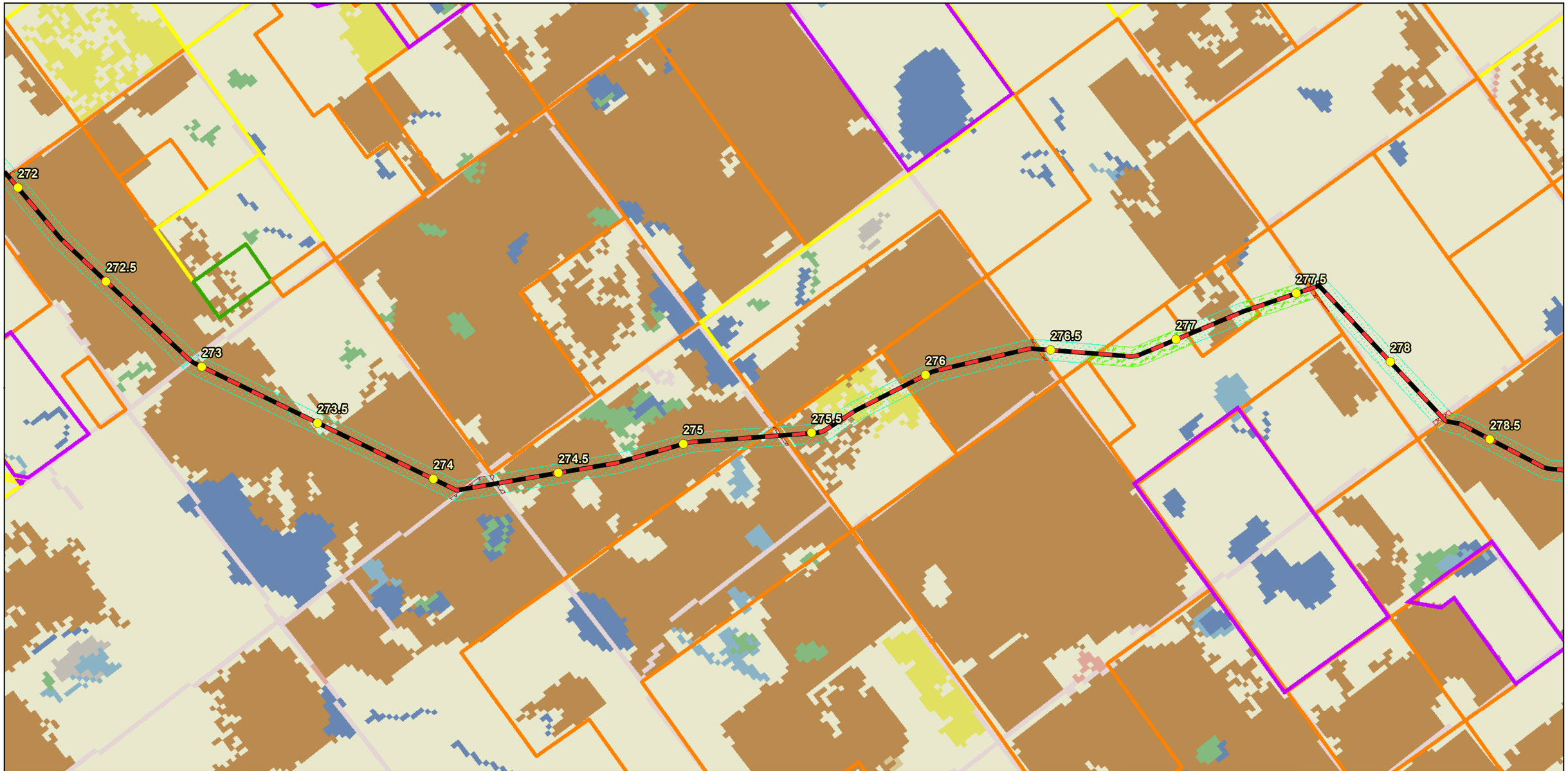
0 2,000 4,000 6,000 8,000 Feet

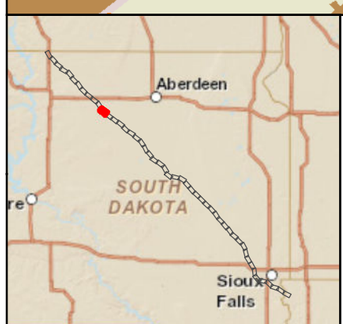
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 11 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

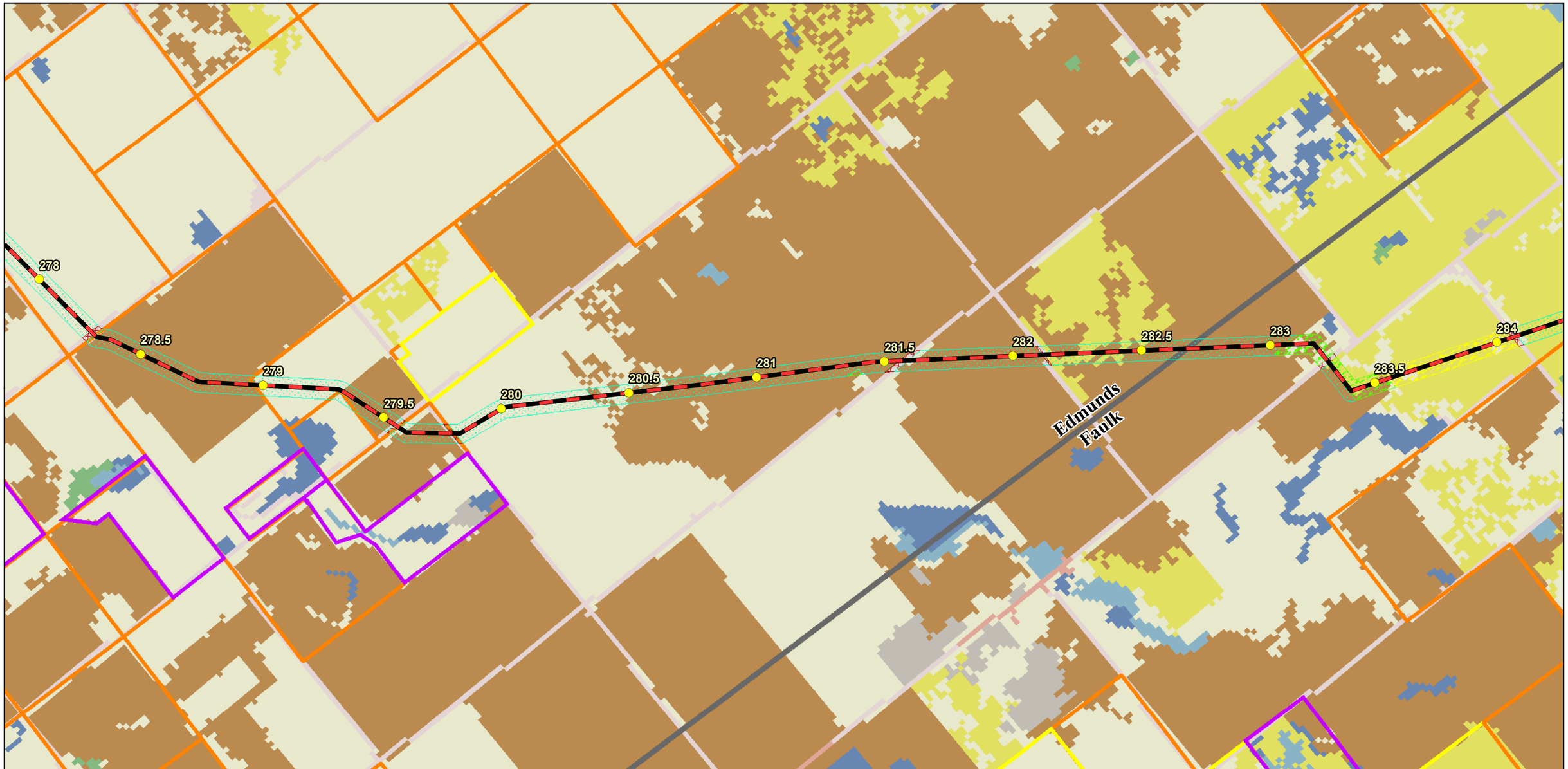
0 2,000 4,000 6,000 8,000 Feet

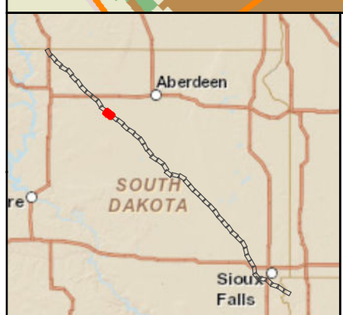
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 12 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

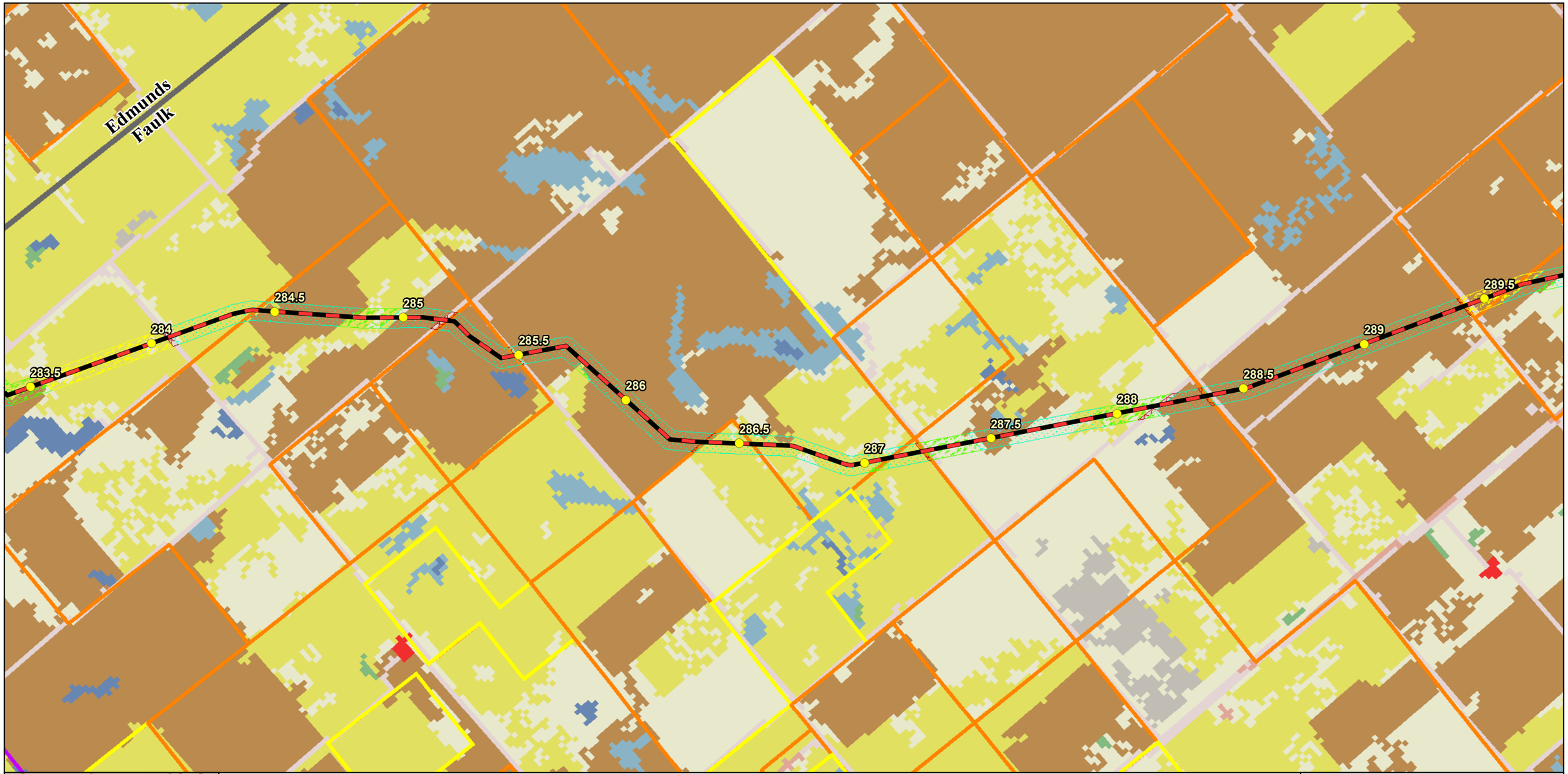
0 2,000 4,000 6,000 8,000 Feet

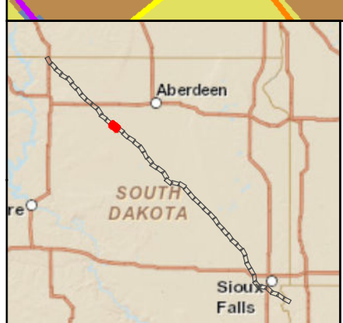
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 13 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

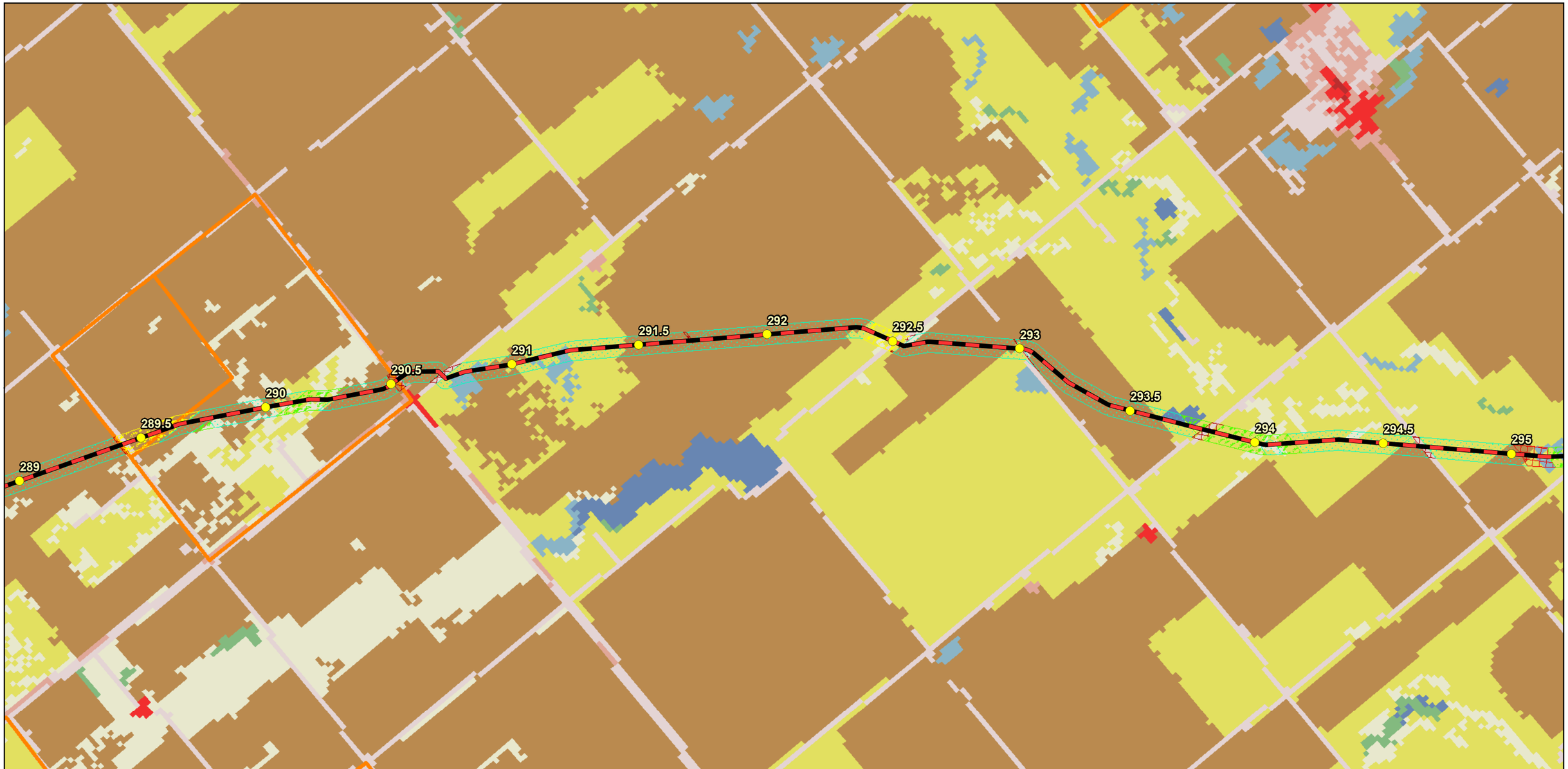
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 14 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 15 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

294.5
295
295.5
296
296.5
297
297.5
298
298.5
299
299.5
300
300.5

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

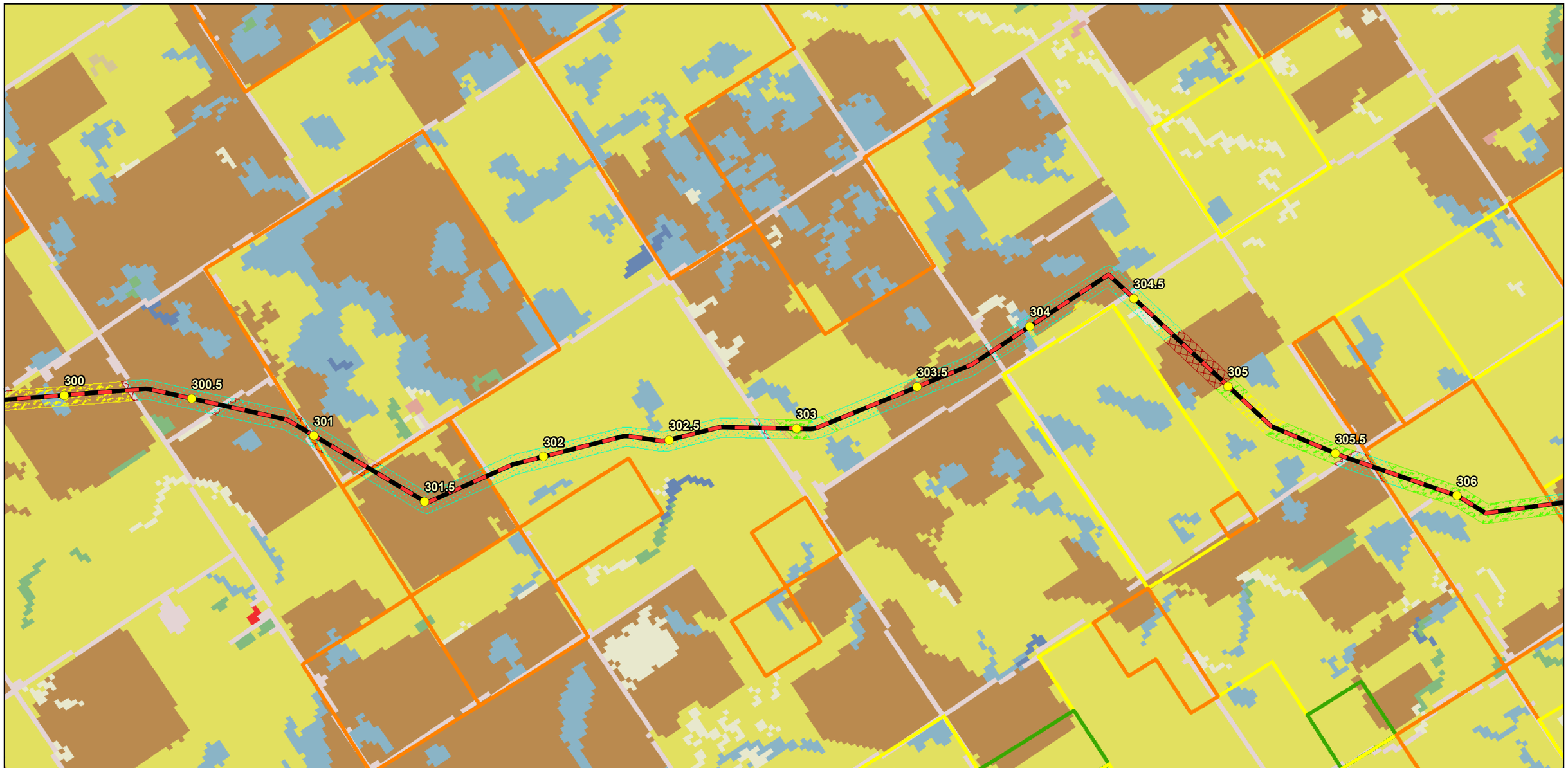
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 16 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

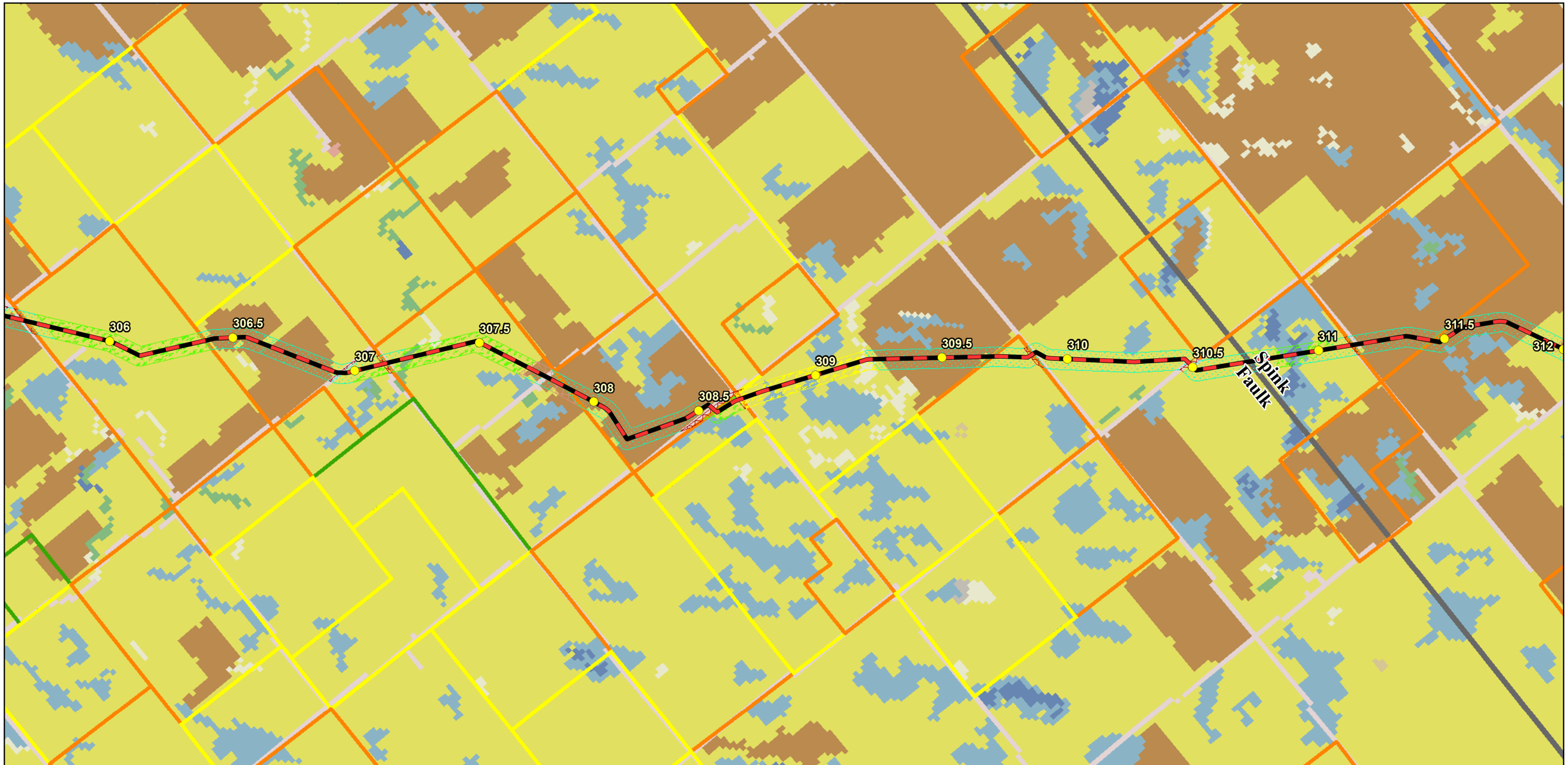
0 2,000 4,000 6,000 8,000 Feet

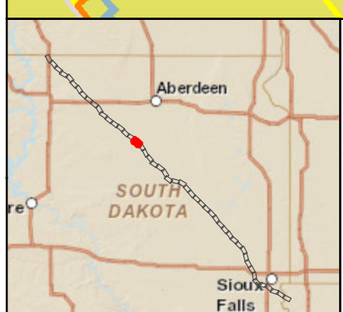
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 17 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 18 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

311.5
312
312.5
313
313.5
314
314.5
315
315.5
316
316.5
317

Spink Faulk

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

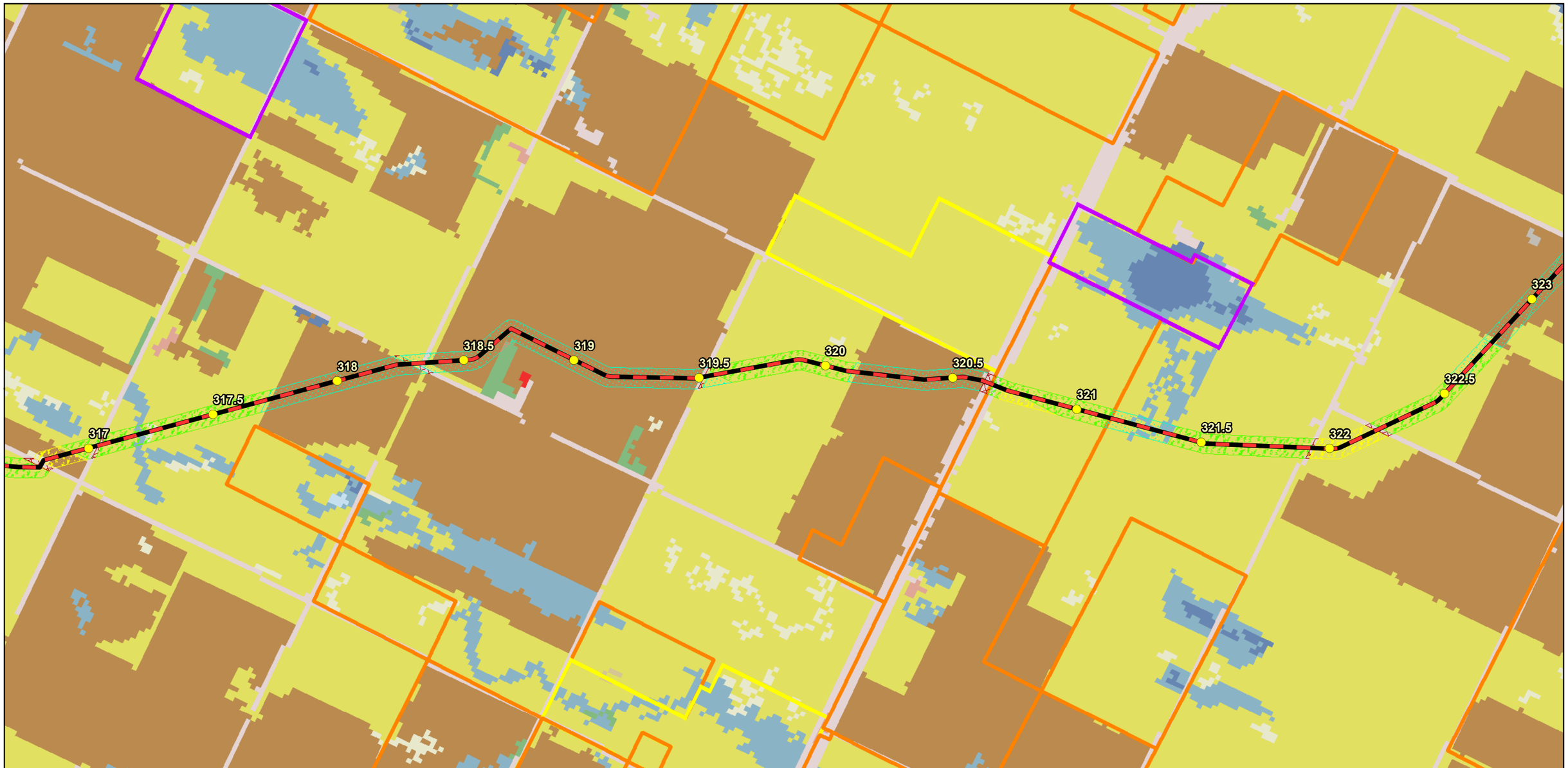
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 19 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

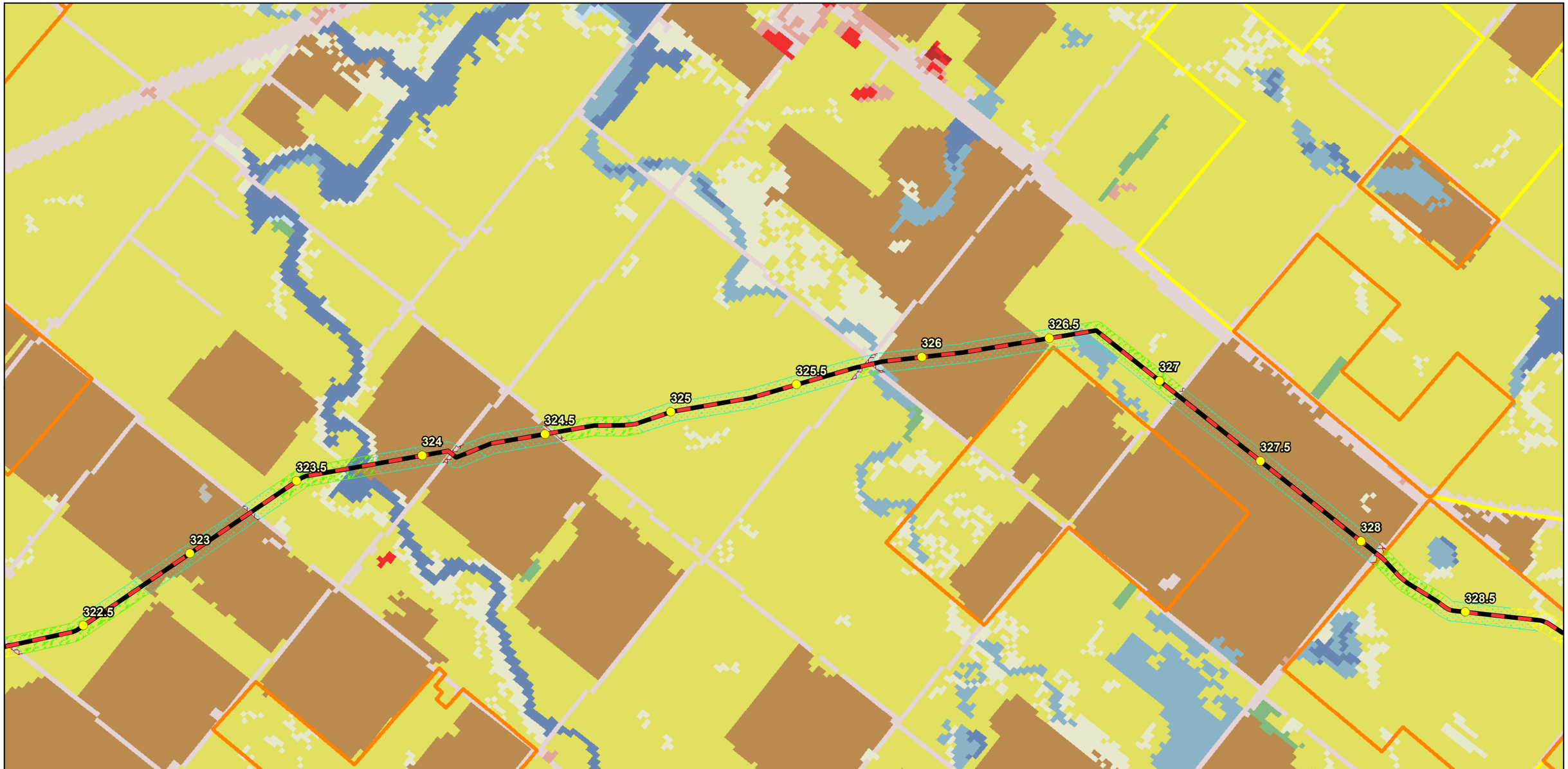
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 20 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

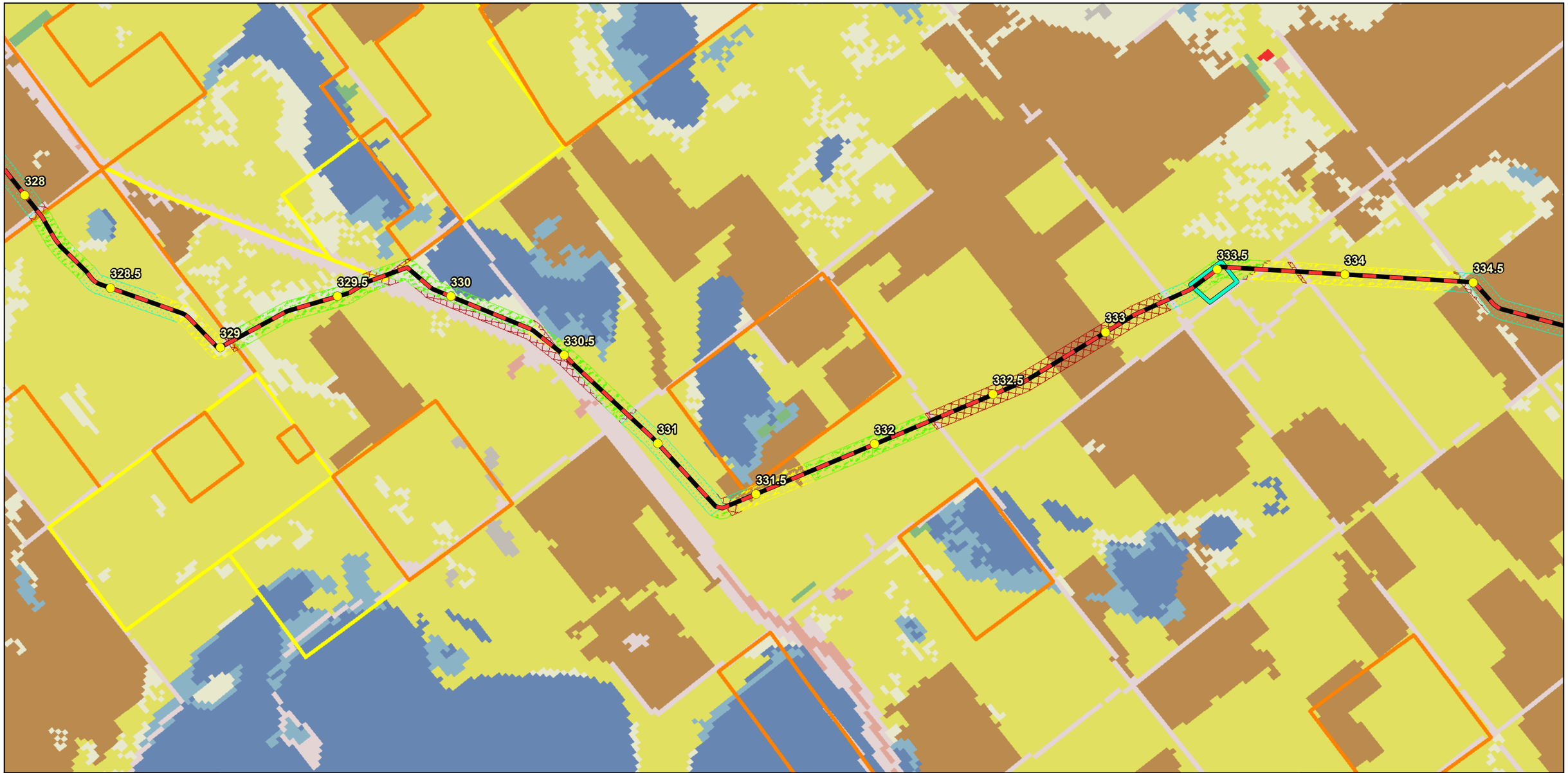
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 21 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 22 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

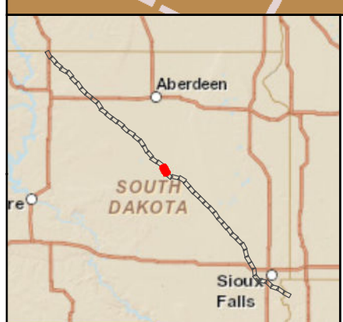
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 23 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 24 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

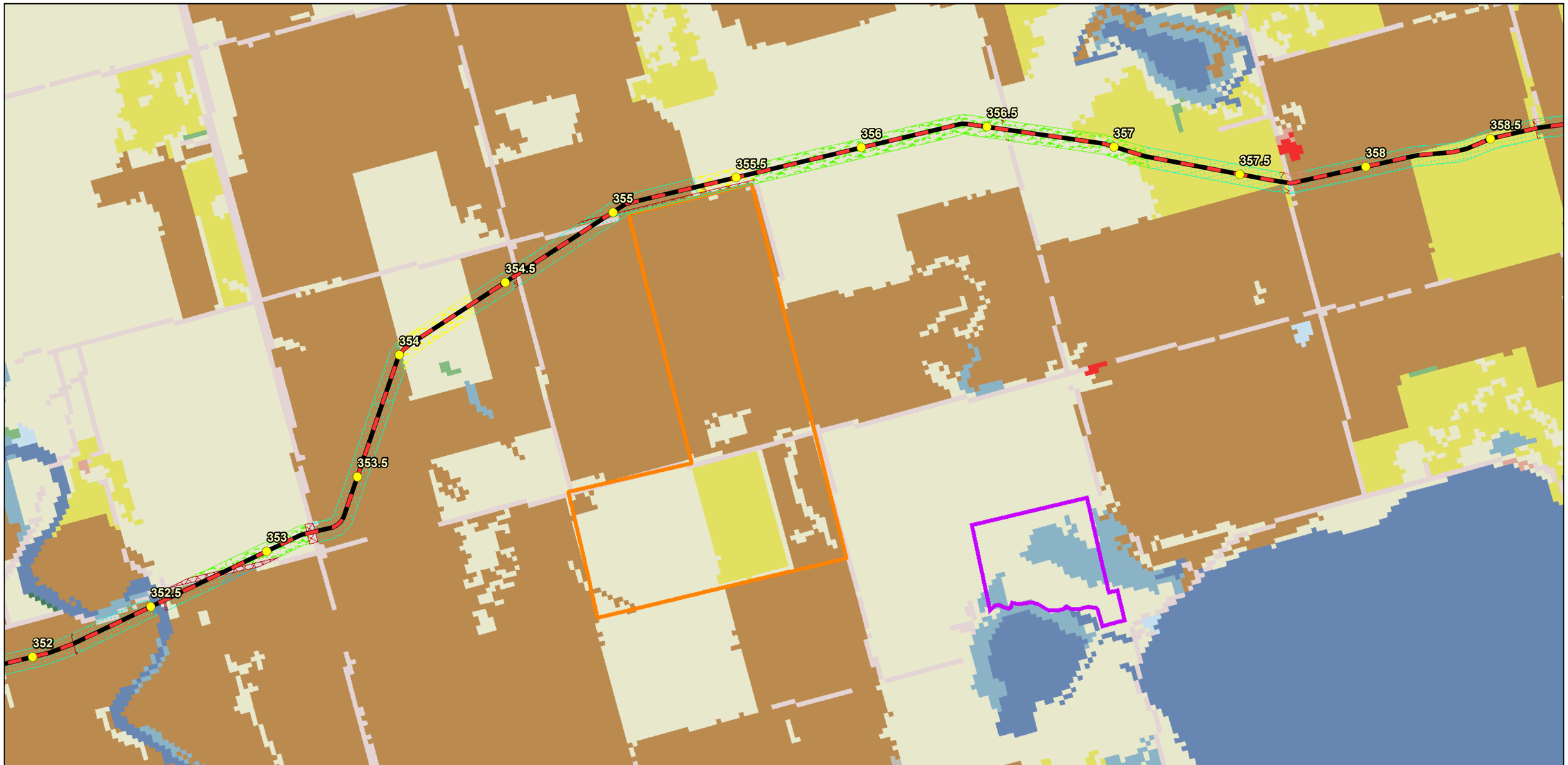
0 2,000 4,000 6,000 8,000 Feet

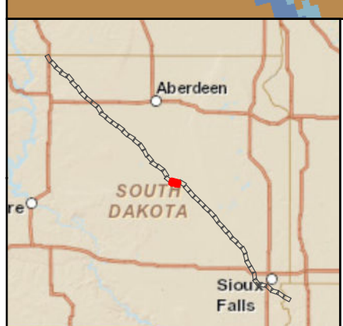
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 25 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

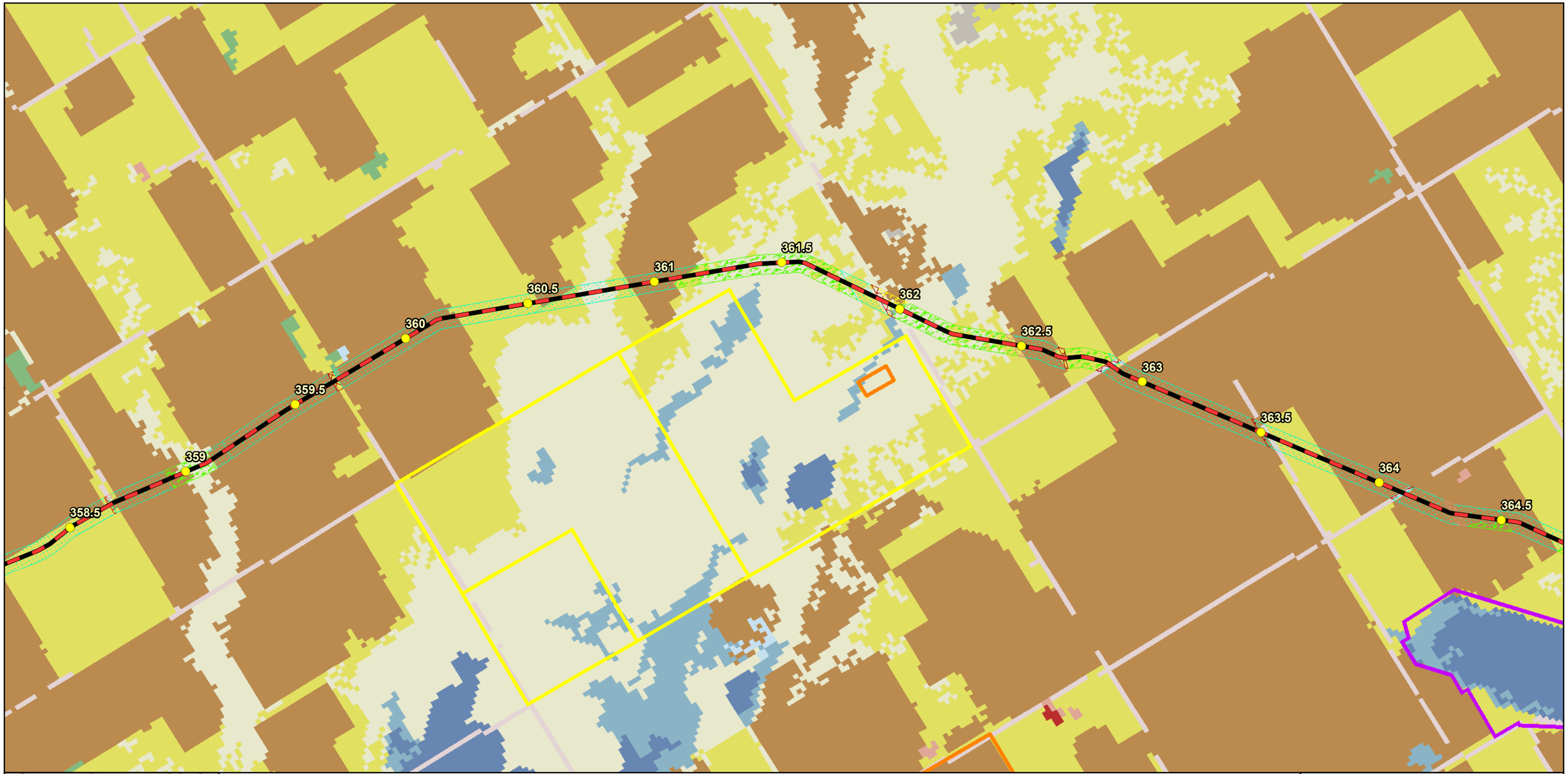
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 26 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 27 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 28 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

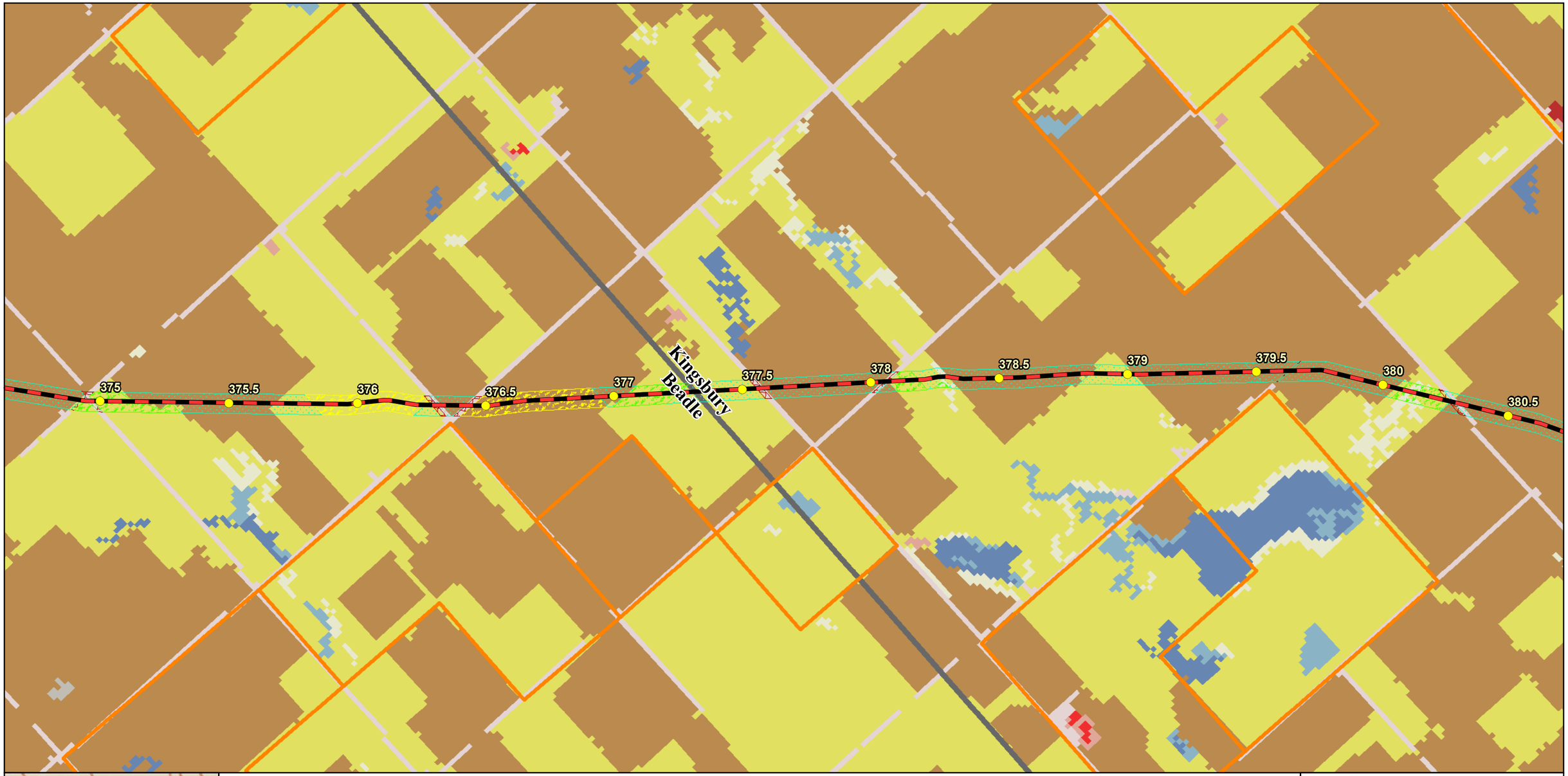
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 29 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

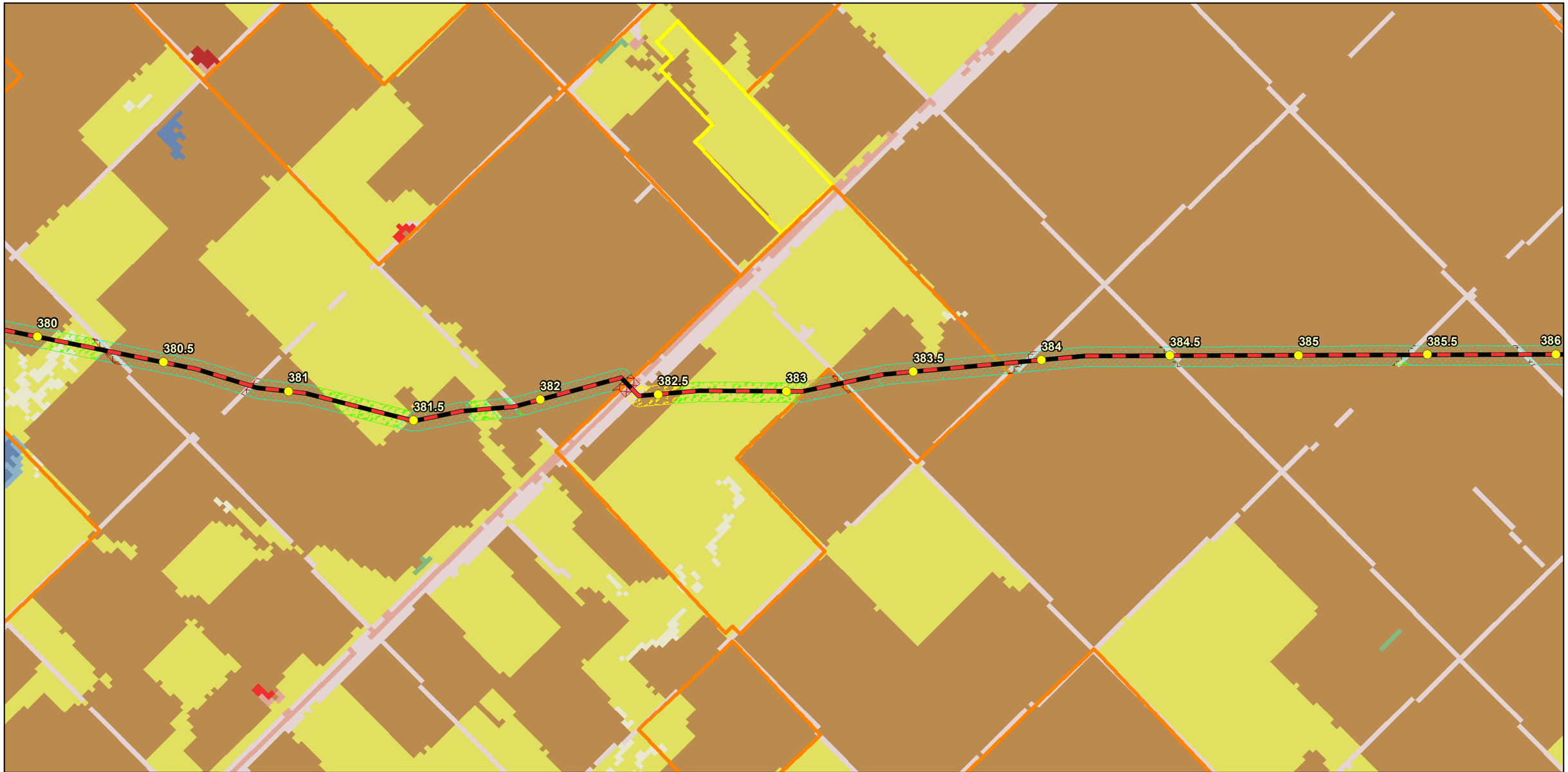
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 30 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 31 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

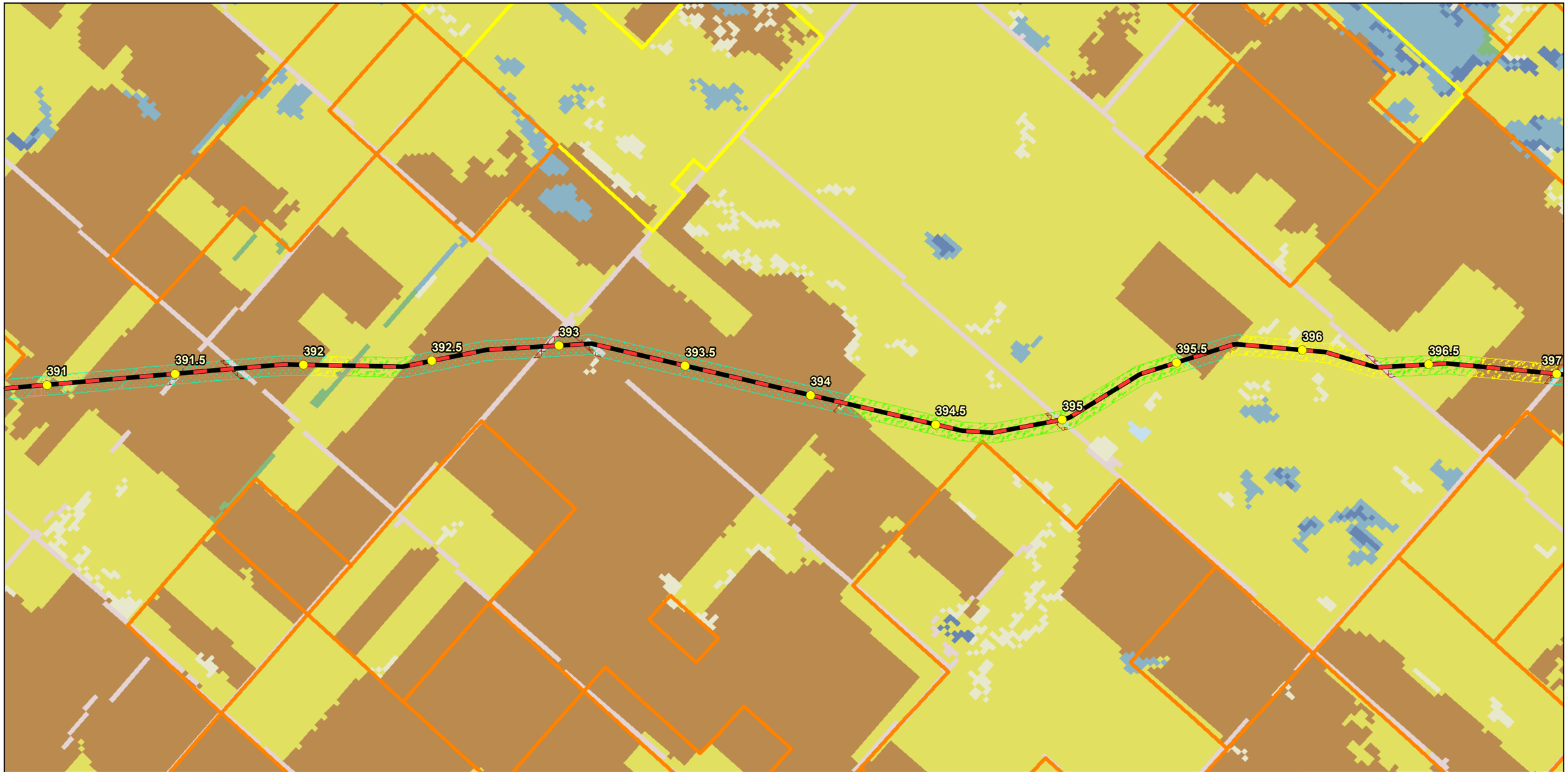
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 32 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 33 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

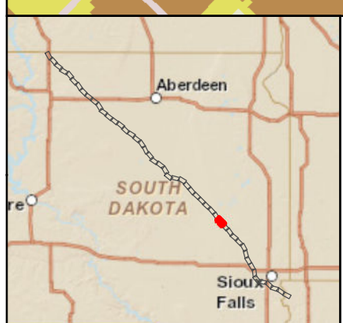
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 34 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

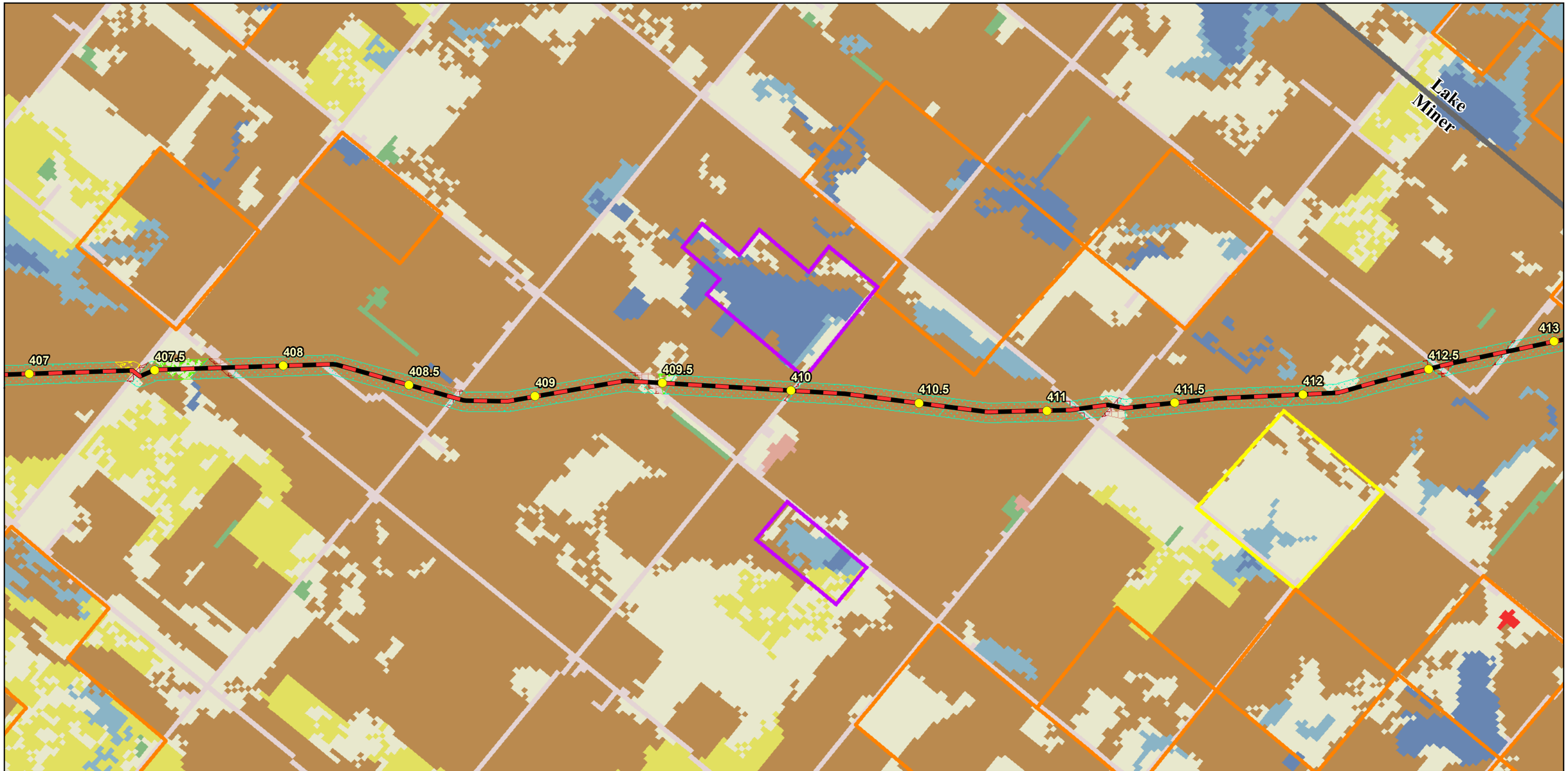
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 35 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 36 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

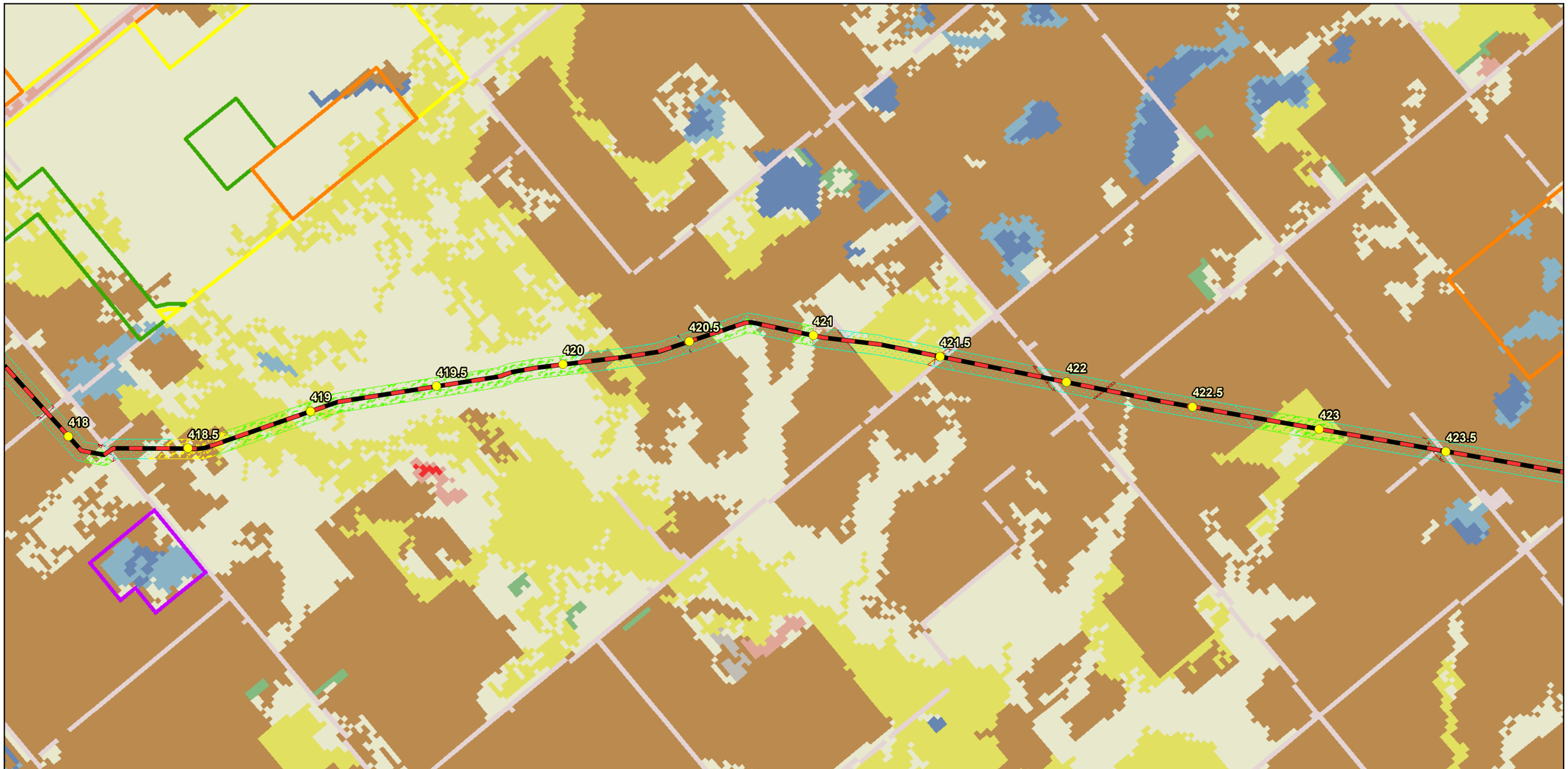
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 37 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

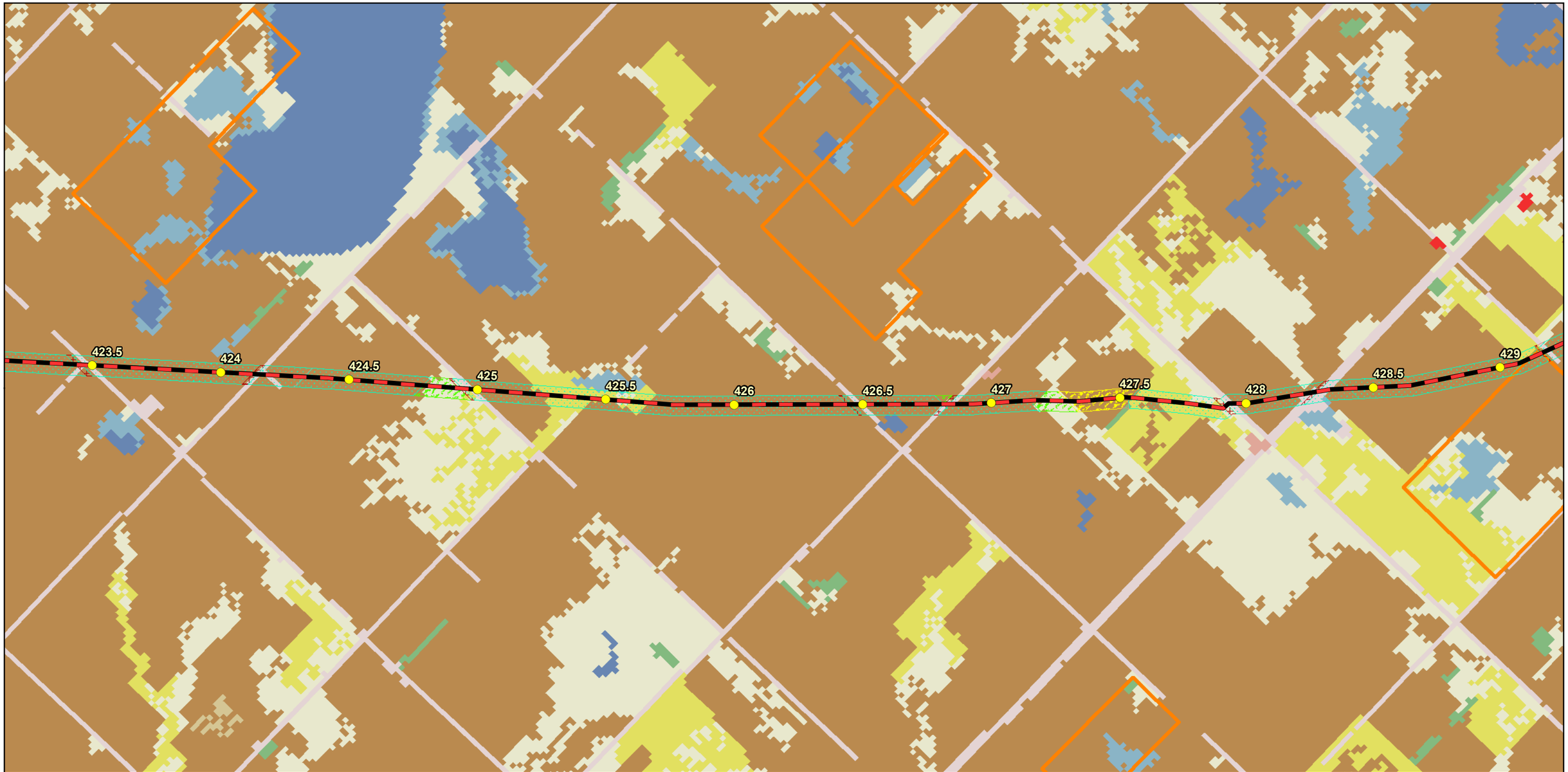
0 2,000 4,000 6,000 8,000 Feet

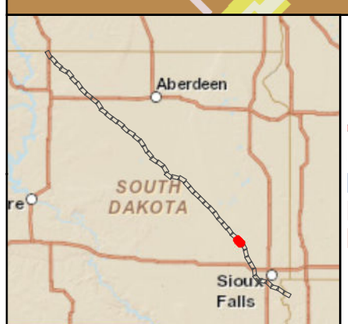
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 38 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

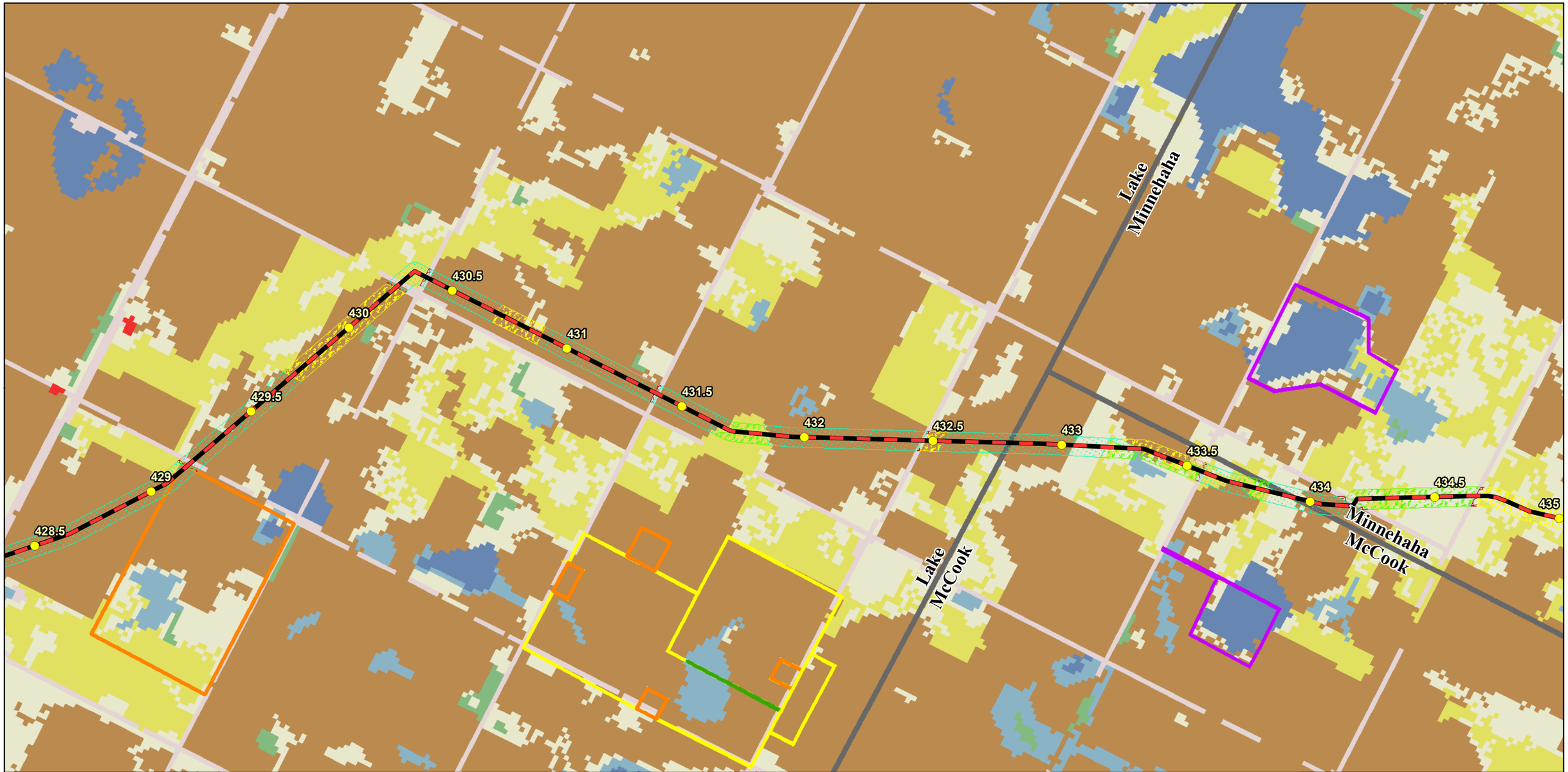
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 39 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

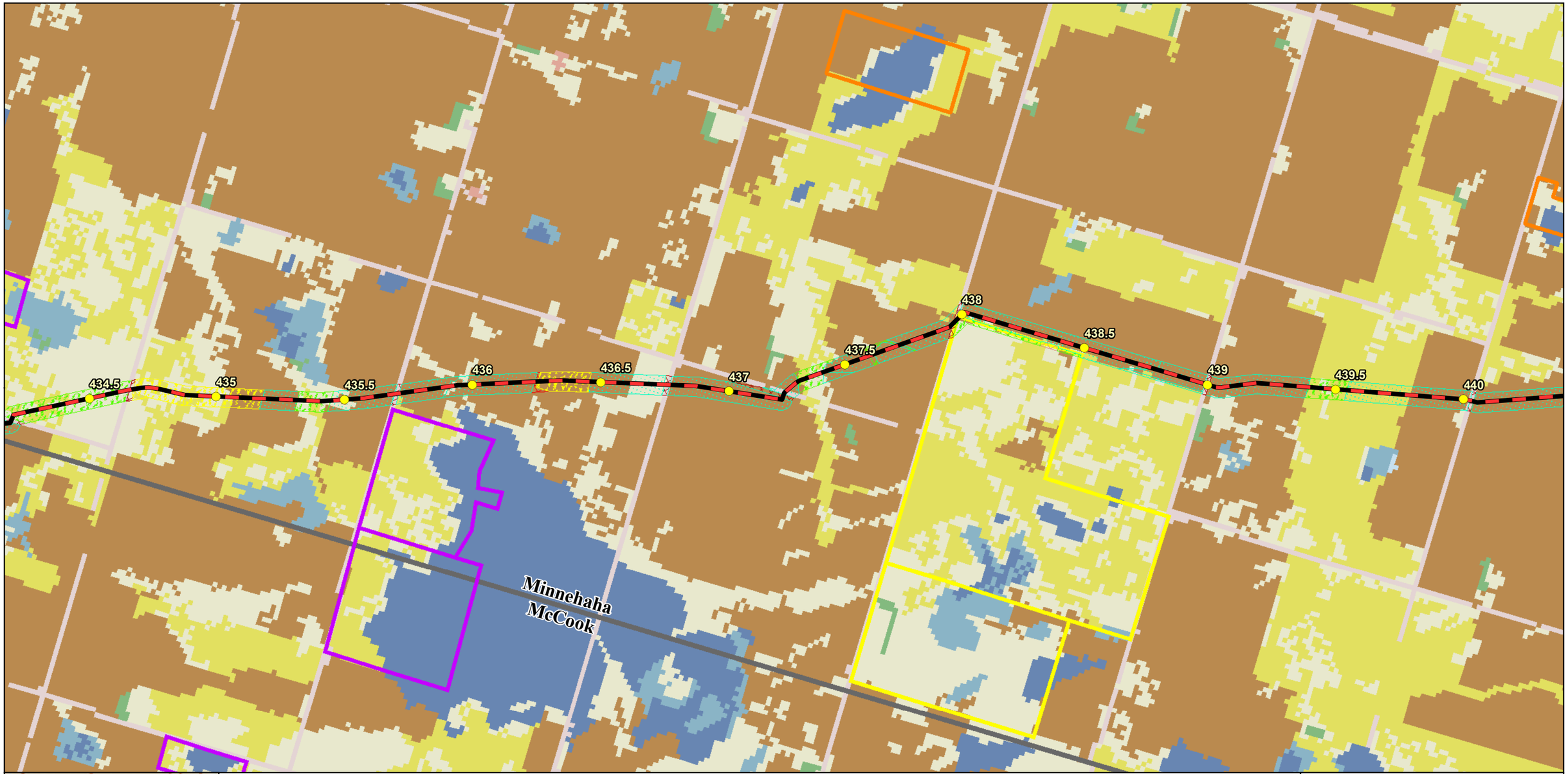
0 2,000 4,000 6,000 8,000 Feet

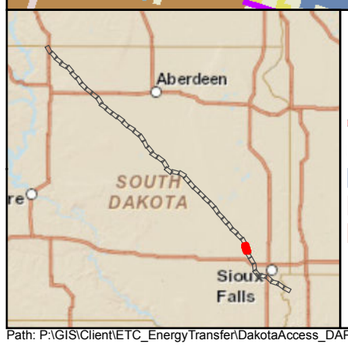
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 40 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

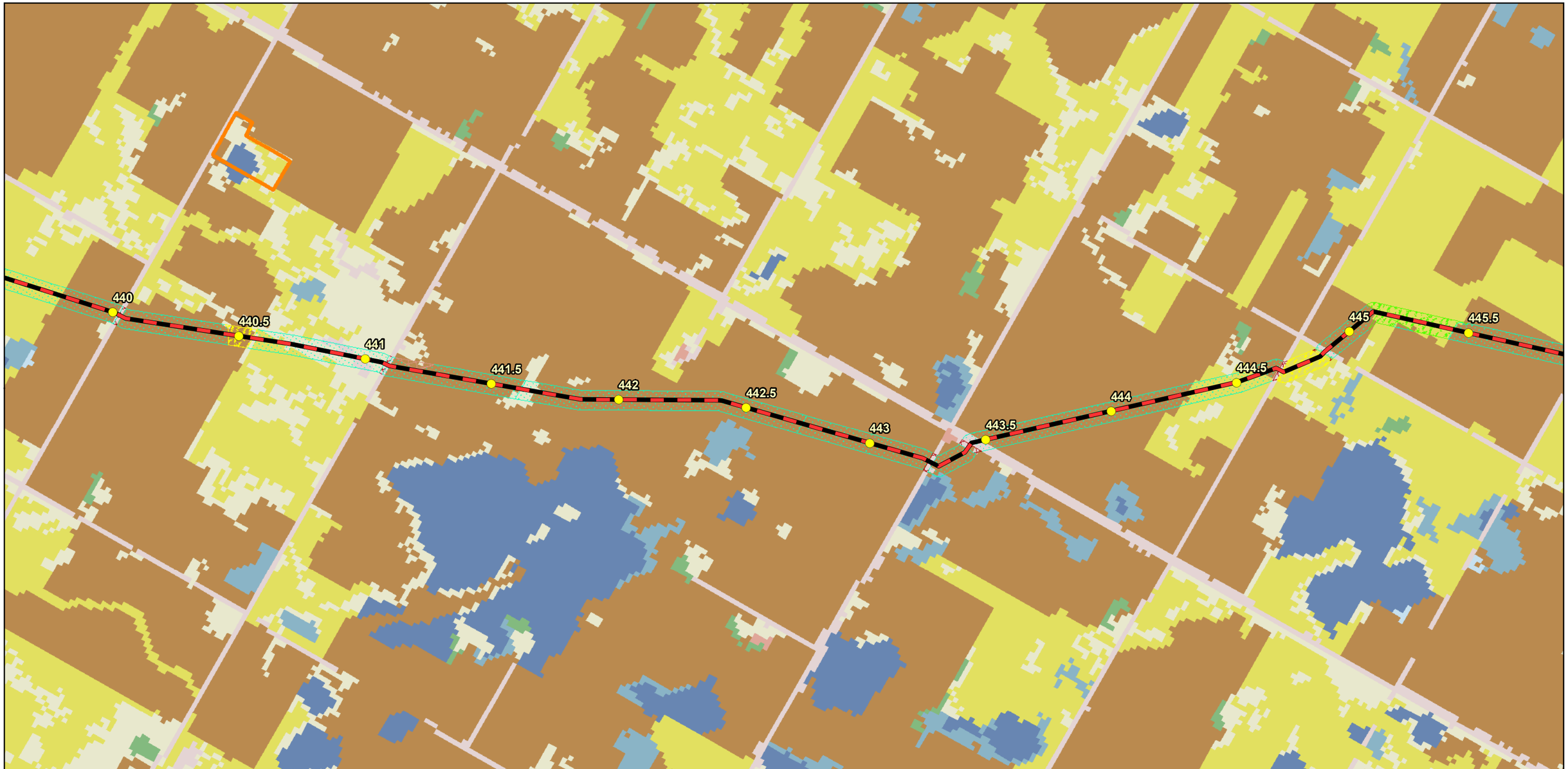
0 2,000 4,000 6,000 8,000 Feet

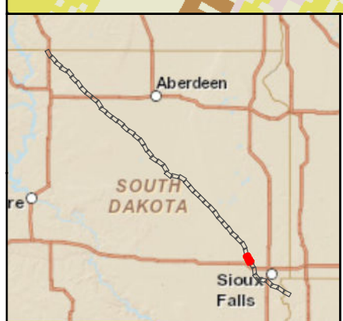
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 41 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

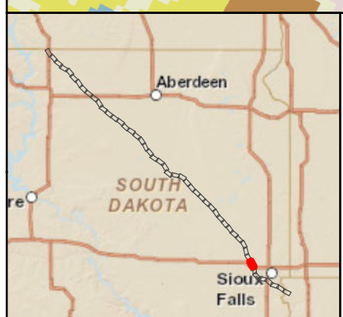
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 42 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

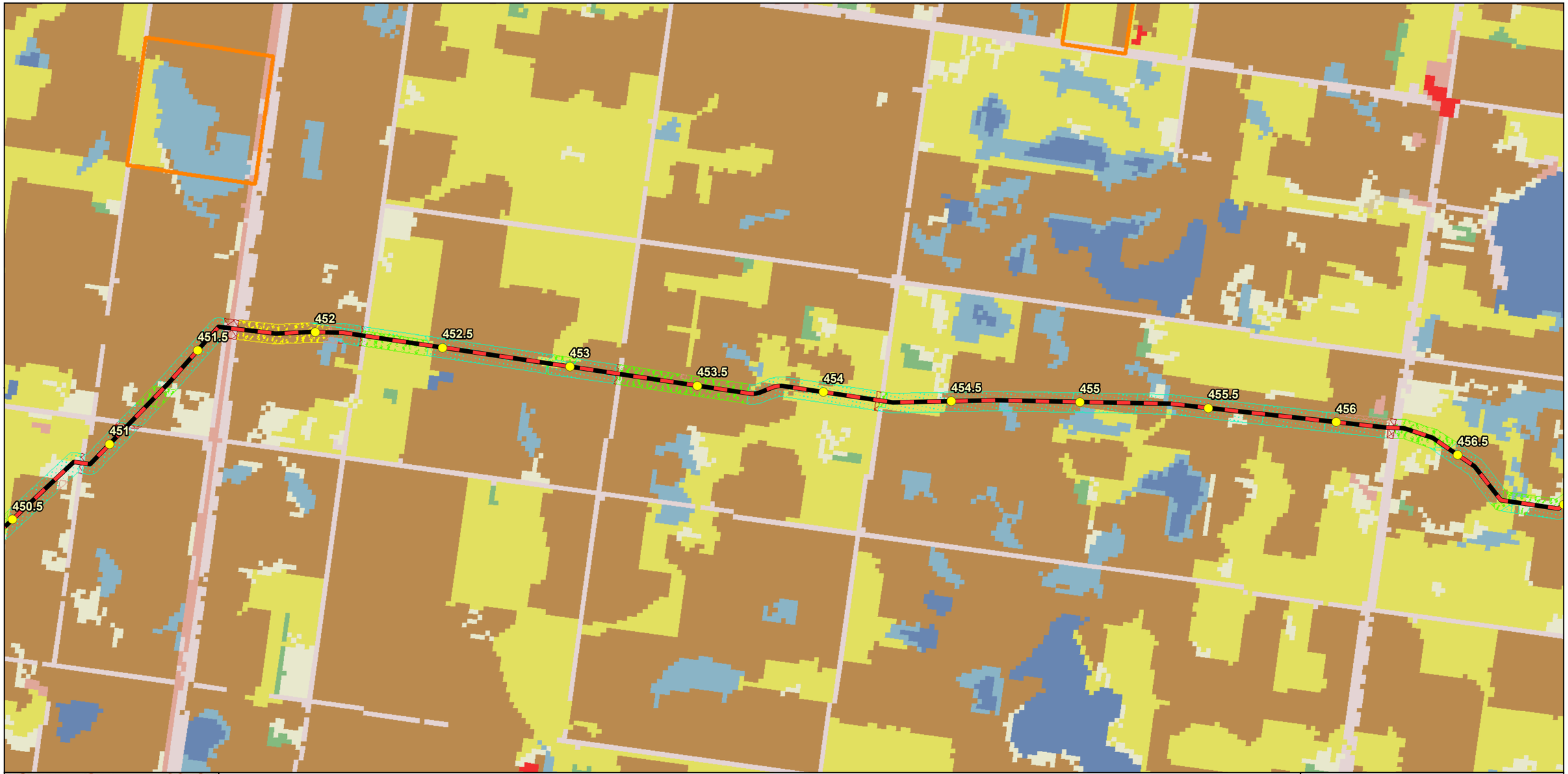
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 43 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

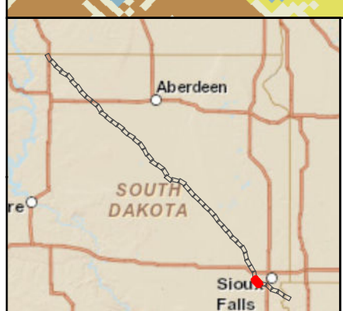
0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 44 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd



Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

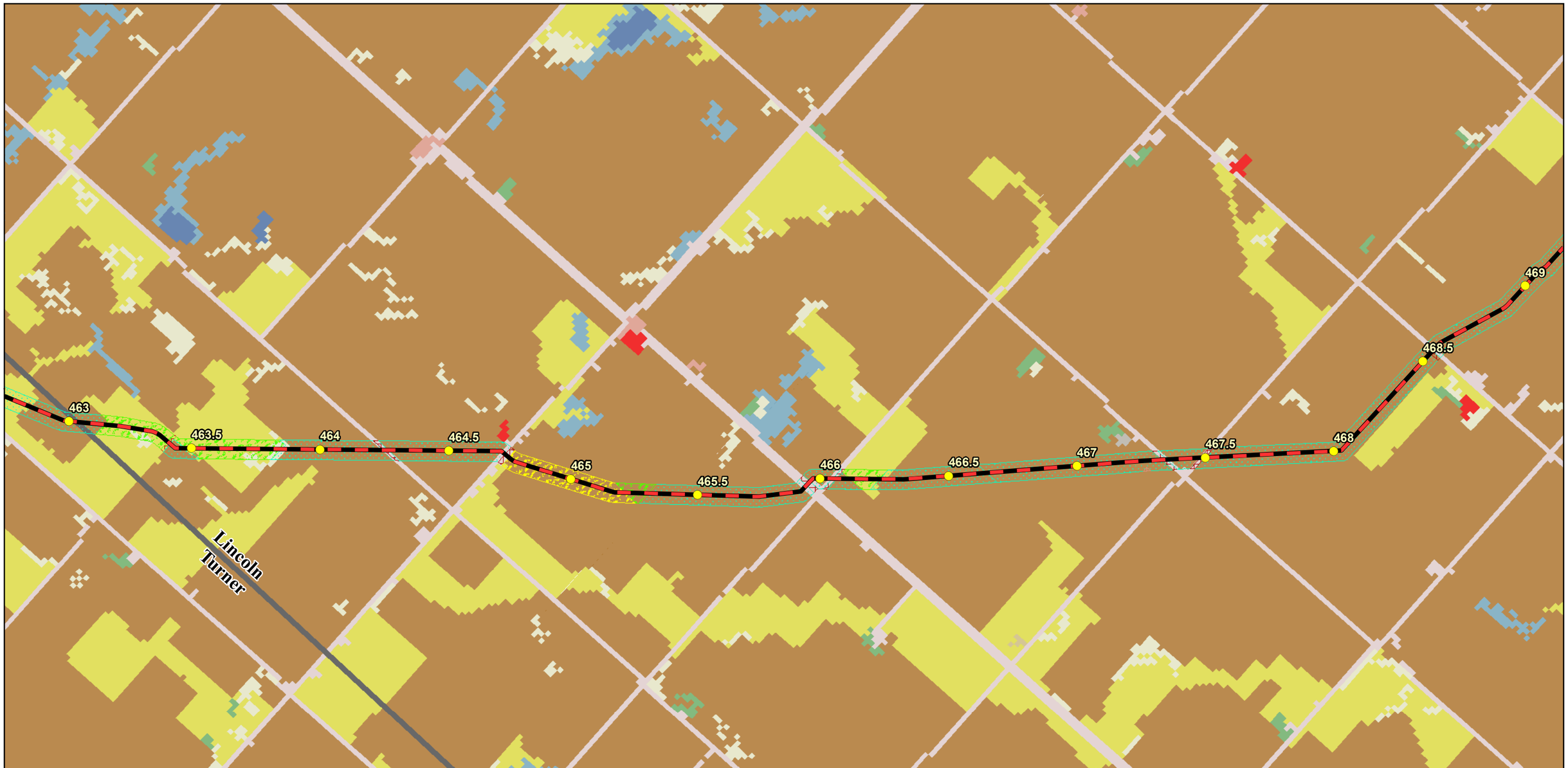
0 2,000 4,000 6,000 8,000 Feet

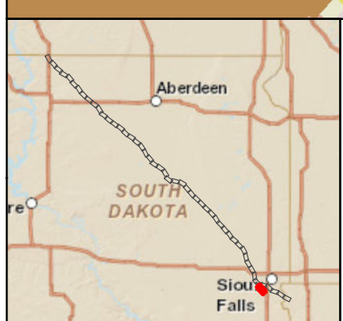
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 45 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 46 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

469
469.5
470
470.5
471
471.5
472
472.5
473
473.5
474
474.5

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 47 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd

Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

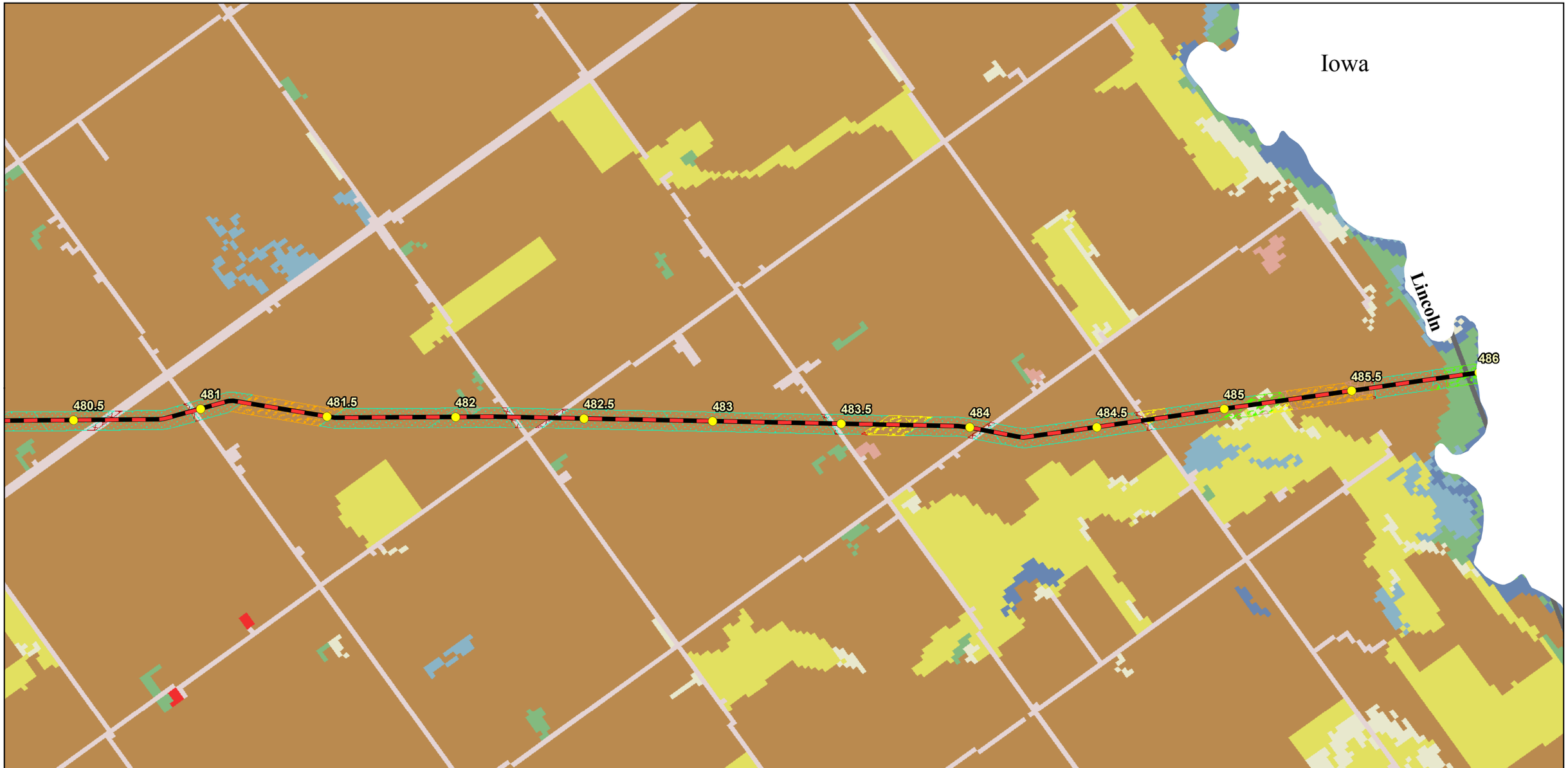
0 2,000 4,000 6,000 8,000 Feet

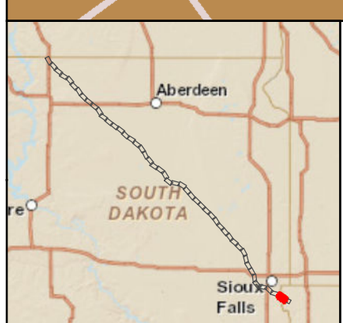
DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 48 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd





Milepost
Proposed Route

USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

USFWS Fee Owned Land
- Waterfowl Protection Area

USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

0 2,000 4,000 6,000 8,000 Feet

DAKOTA ACCESS, LLC

Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

Page 49 of 49	Scale: 1:24,000
NAD 83 South Dakota South Ft	Date: September 2015

Path: P:\GIS\Client\ETC_EnergyTransfer\DakotaAccess_DAPL\Maps\ENV\PUC\18_landcover.mxd