

**Addendum to Epping
Transmission Company, LLC
Class I and Class III Inventory of
the DAPL Connector Pipeline
Project, McKenzie County,
North Dakota.**

Prepared for:

Epping Transmission Company LLC

Prepared by:

E3 Environmental, LLC

September 2016



E3 ENVIRONMENTAL
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Exhibit 4 - E3 Addendum to Class I and III Inventory
Epping Transmission Company, LLC

EXHIBIT

4

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Consult township tables in The North Dakota Comprehensive Plan for Historic Preservation: Archeological Component, (SHSND 1990) for Study Unit assignments.
Study Units: LM, CB, KN, HE, SM, GA, JA, GR, NR, SR, SO, SH, YE

<u>COUNTY</u>	<u>TWP</u>	<u>RNG</u>	<u>SEC</u>	<u>SU</u>
Williams	155N	98W	6	GA
	155N	99W	1	GA
	156N	98W	31, 32	GA
	156N	99W	36	GA

**Addendum to Epping Transmission Company LLC, DAPL
Connector Pipeline Project Class I and Class III Cultural
Resource Inventory**

Submitted to:

State Historical Society of North Dakota

Prepared for:

Epping Transmission Company LLC

Prepared By:

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September 2016

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EXECUTIVE SUMMARY

E3 Environmental, LLC (E3) conducted a Class I and a Class III cultural resources inventory for the Epping Transmission Company LLC (ETC) DAPL Connector Pipeline Project (Project). The Project falls entirely on private land in Williams County, North Dakota. The regulatory agencies involved are the North Dakota State Historic Preservation Office (ND SHPO) and the North Dakota Public Service Commission (ND PSC); ND SHPO guidelines are implemented in this cultural resources study. E3 completed Class I and Class III inventories for the Project and received ND SHPO concurrence in July 2016. Since the original effort, ETC identified an additional 1.04 acres of additional workspace that will be required to construct the Project. As such, E3 completed a Class III cultural resource inventory of this area in August 2016.

The original Class I inventory, conducted in June 2016, identified 10 previously completed cultural resources surveys (MS#3251, MS#9856, MS#11987, MS#14750, MS#15020, MS#15860, MS#15938, MS#16512, MS#16513, and MS#16625) within one-half mile of the proposed pipeline (Project Corridor). Ten previously-recorded cultural resources were also identified as located within the Project Corridor, including eight *sites* (32WI81, 32WI82, 32I481, 32WI791, 32WI1169, 32WI1493, 32WI1165, and 32WI11678) and two *isolates* (32WIX433, and 32WIX569.) Of these ten resources, three sites (32WI82, 32WI1169 and 32WI1678) are recorded within 125-feet of the Project centerline. Class III efforts inventoried a 250-foot wide corridor, which was centered upon the Project centerline (Survey Corridor). The 1.04 acres of additional workspace falls within the Project Corridor as such no additional Class I work was required

The Class III inventory, conducted in June 2016, included pedestrian survey of the Survey Corridor and a re-investigation of previously recorded archaeological sites. The entire Survey Corridor was surveyed in 15-meter (maximum) transects as part of this study. These survey efforts identified no new cultural resources. E3 re-located and investigated two previously-recorded prehistoric sites (32WI1169 and 32WI1678) and one previously recorded historic site (32WI82) within the Survey Corridor. Details of these results are included in the original report (Knudsen & Pnewski, 2016). The additional area surveyed in August 2016 is negative for additional cultural resources.

Construction activity within the Survey Corridor addressed in this report **WILL NOT** affect any known cultural resources.



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SECTION 1: INTRODUCTION

Epping Transmission Company, LLC (ETC), owns and operates petroleum assets in North Dakota. ETC is planning the DAPL Connector Pipeline Project (Project). The Project will result in a new steel petroleum pipeline approximately 3.2-miles in length, with a 12.75-inch diameter. The Project will originate approximately 545 feet northeast of the 60th St. NW and County Road 8 junction and ends approximately one quarter mile southeast of the junction of ND Highway 42 and ND Highway 17 junction in Williams County, North Dakota (see Figure 1).

ETC has retained E3 Environmental (E3) to complete cultural resource Class I and III inventories for the Project and assess the potential effects of Project activities to cultural resources. These efforts will be utilized in ETC’s submittal to the ND PSC for an amended Certificate of Corridor Compatibility and Route Permit Application for the Project.

Class I and Class III cultural resource inventories conducted by E3 in June 2016 for ETC can be found in the original report (MS#161335) (Knudsen & Pnewski, 2016). E3 completed a Class III inventory of approximately 120.6 acres during this initial effort. Since then ETC has identified an additional 1.04 acres of additional workspace that will be required to construct the Project. E3 completed a Class III inventory in August of 2016 of this additional area. Results of this effort are further detailed in this report.

1.1 PROJECT LOCATION

The Project is being constructed on private and state land within North Dakota. The southern terminus of the Project is located approximately one half mile south of the town of Epping, North Dakota along ND Highway 42. The northern terminus of the Project is located approximately 1.8 miles northeast of the town of Epping, North Dakota in Williams County. The Project is situated on Spring Brook and Brooklyn North Dakota, U.S. Geological Survey (USGS) topographic quadrangles. Refer to Figure 1 for added Project location. Garrett L. Knudsen was Principal Investigators. Table 1 details the Project location.

Table 1: Legal Location of Project

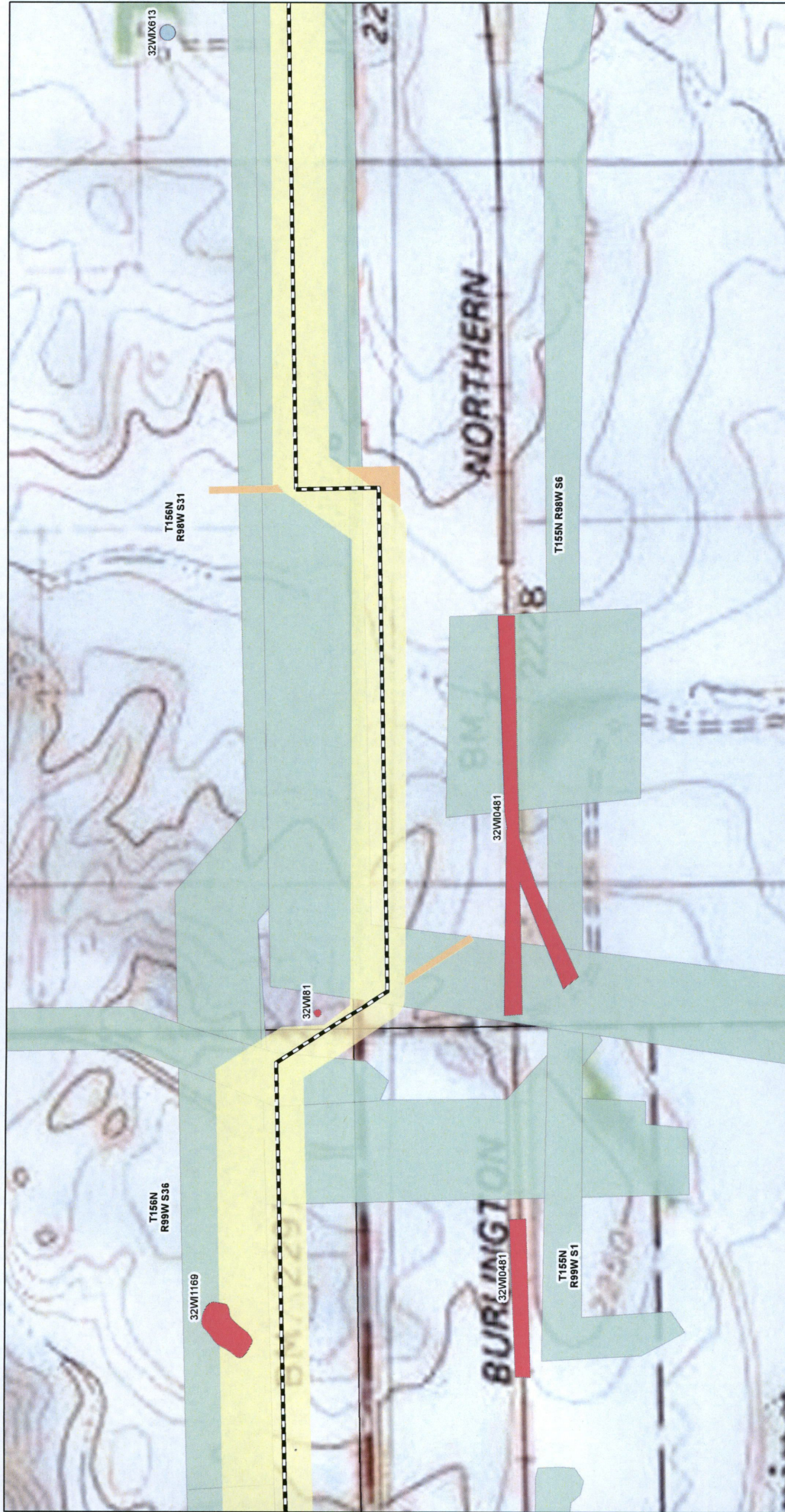
Township	Range	Section(s)
155N	98W	6
155N	99W	1
156N	98W	31, 32
156N	99W	36



1.2 SURVEY CORRIDOR

For purposes of this Project, and to meet pertinent state regulatory requirements, the Survey Corridor (see Figure 2) consists of:

- The Original 250 foot-wide Survey Corridor centered on the Project centerline, encompassing 120.6 acres.
- The additional workspace addressed by this addendum increases the total ROW by 1.04 acres to 121.4 acres.



Epping Transmission Company, LLC
 DAPL Connector Pipeline Project
 Survey Realignment
 Williams County, ND



- Centerline
- New Survey Area
- Previously Surveyed Corridor
- Previously Recorded Isolates
- Previously Recorded Sites
- Previous Survey Corridors

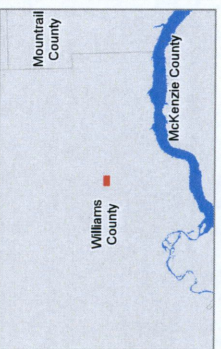




Image 1: Overview of Project Area, View to the SE



Image 2: Overview of Project Area, View to NW



SECTION 2: REGULATORY FRAMEWORK

2.1 FEDERAL

The principal law relevant to the protection of cultural resources for the Project is the National Historic Preservation Act (NHPA), which established a State Historic Preservation Office (SHPO) in each state.

2.2 STATE

The Project meets the North Dakota Public Service Commission (NDPSC) definition of a transmission facility, as such it must satisfy the NDPSC's Energy Conversion and Transmission Facility Siting Act. North Dakota Century Code Chapter 49-22 is the law governing the NDPSC's regulation of these facilities. This Chapter requires that a Project avoid impacts to historic sites, monuments, markers and archaeological sites.

2.3 INVENTORY METHODOLOGY

Standard Class I Cultural Resource Inventory methodologies were utilized: research was conducted on files maintained at the State Historical Society in Bismarck, North Dakota. These files consist of a searchable digital database, Geographic Information System (GIS) based mapping and traditional paper files for site forms and manuscripts. In addition, General Land Office (GLO) maps were consulted to help identify potential locations of previously unrecorded cultural resources.

Archaeologists conducted the survey by walking parallel transects at 15 meter intervals across the Survey Corridor. When possible, E3's archaeologists examined subsurface exposures in erosional cut banks, road cuts, rodent burrow entrances and ant hills for artifacts or evidence of buried cultural deposits. In areas where the surface visibility was less than 30 percent, tighter spaced transects were utilized, with spacing not exceeding 10 meters. None of the additional survey area addressed in this report had less than 10 percent surface visibility.

None of the additional survey area addressed in this report had less than 5 percent surface visibility; no shovel tests were completed. Table 2 below outlines the surface visibility within this additional survey area.

Table 2: Approximation of Surface Visibility within Survey Area

<10%	10-20%	20-30%	30-40%	40-50%	50-60%	60-70%	70-80%	80-90%	>90%
0%	0%	0%	0%	40%	25%	35%	0%	0%	0%



Only resources that appeared to be more than 50 years old were recorded. Site locations and boundaries were mapped using a Trimble Geo XT 6000 Global Positioning System (GPS) unit and are provided in North American Datum (NAD) 83, and Universal Transverse Mercator (UTM) projection. Archaeologists conducting the inventory utilized the appropriate North Dakota Site Form(s) when recording cultural resources.

SECTION 3: INVENTORY RESULTS

3.1 CLASS I RESULTS

The additional survey area discussed in this report falls within the area described in the Project Class I inventory detailed in the original report (Knudsen & Pnewski, 2016).

3.2 CLASS III RESULTS

The additional survey area discussed in this report was negative for cultural resources.

SECTION 4: CONCLUSIONS

Construction activity within the additional survey area addressed in this report **WILL NOT** affect any known cultural resources. Conclusions and recommendations for the entire Project Survey Corridor are detailed in the original report (MS#161335) (Knudsen & Pnewski, 2016).



SECTION 5: REFERENCES

Knudsen, G. L., & Pnewski, J. K. (2016). *Epping Transmission Company, LLC Class I and Class III Inventory of the DAPL Connector Pipeline Project*. Bismark, ND: North Dakota State Historic Preservation Office.