



**NATIONAL FUEL GAS SUPPLY CORPORATION
AND EMPIRE PIPELINE, INC.**

NORTHERN ACCESS 2016 PROJECT

**RESOURCE REPORT 4
Cultural Resources**

FERC Docket No. PF14-18-000

Submitted: March 16, 2015



SUMMARY OF REQUIRED FERC REPORT INFORMATION		
Topic	FERC Reference	Report Reference or Not Applicable
1. Initial cultural resources consultation and documentation, and documentation of consultation with Native Americans. <ul style="list-style-type: none"> See §380.14 for specific procedures. 	§380.12(f)(1)(ii) & (2)	Section 4.2 and Appendix 4-A
2. Overview/Survey Report(s). <ul style="list-style-type: none"> See §380.14 for specific procedures. For the offshore area this will usually require completion of geophysical and other underwater surveys before filing. 	§380.12(f)(1)(iii) & (2)	Appendix 4-B

Additional Information

Identify the project area of Potential Effect in terms of direct or indirect effects to known cultural resources.	Section 4.1.1 and Section 4.5
Provide a map with mileposts, clearly showing boundaries of all areas surveyed (e.g., ROW, extra work areas, access roads, etc.) and to be surveyed with corridor widths clearly specified.	Appendix 4-B
Provide documentation of consultation with SHPOs, THPOs, and applicable land-managing agencies regarding the need for and required extent of cultural resource surveys.	Section 4.2, Table 4.2-1, and Appendix 4-A
Provide a narrative summary of overview results, cultural resource surveys completed, identified cultural resources and any cultural resource issues.	Section 4.3, Section 4.4, and Section 4.5
Provide a project specific Ethnographic Analysis (can be part of Overview/Survey Report).	Not Applicable
Identify by mileposts any areas requiring survey for which the landowner denied access.	Appendix 4-B
Provide written comments on the Overview and Survey Reports, if available, from the SHPOs or THPOs, as appropriate, and applicable land-managing agencies.	Appendix 4-A
Provide a Summary Table of completion status of cultural resource surveys, and SHPO or THPO and land-managing agency comments on the reports.	Table 4.3-1
Provide a Summary Table of identified cultural resources, and SHPO or THPO and land-managing agency comments on the eligibility recommendations for those resources.	Table 4.4.4-1
Provide a brief summary of the status of Native American consultation, including copies of all related correspondence and records of verbal communications.	Section 4.2 and Appendix 4-A
Provide a schedule for completing any outstanding cultural resource studies.	Section 4.3
Provide an Unanticipated Discoveries Plan for the project area, referencing appropriate state statutes.	Section 4.7 and Appendix 4-C

RESOURCE REPORT 4 – CULTURAL RESOURCES

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LIST OF ACRONYMS

APE	Area of Potential Effect
ATWS	additional temporary workspace
CFR	Code of Federal Regulations
Dtd/d	dekatherms per day
Empire	Empire Pipeline Inc.
FERC	Federal Energy Regulatory Commission
Hp	horsepower
M&R	Metering and Regulating
Mainline Pipeline	97 miles of new 24-inch-diameter pipeline
MLV	mainline valve
National Fuel	Supply and Empire, collectively known as
NRHP	National Register of Historic Places
NYAC	New York Archaeological Council
OPRHP	Office of Parks, Recreation, and Historic Preservation
PHMC	Pennsylvania Historical and Museum Commission
Project	Northern Access 2016 Expansion
Replacement Pipeline	24-inch pipeline segment of approximately 4 miles
ROW	right-of-way
SHPO	State Historic Preservation Office(er)
Supply	National Fuel Gas Supply Corporation
TGP	Tennessee Gas Pipeline
THPO	Tribal Historic Preservation Officer

RESOURCE REPORT 4 – CULTURAL RESOURCES

4.0 CULTURAL RESOURCES

4.1 INTRODUCTION

National Fuel Gas Supply Corporation (“Supply”) and Empire Pipeline, Inc. (“Empire”), both subsidiaries of National Fuel Gas Company, are seeking authorization from the Federal Energy Regulatory Commission (“FERC”) pursuant to Section 7(c) of the Natural Gas Act to construct and operate the proposed Northern Access 2016 Expansion Project (“Project”). Through this proposed Project, Supply and Empire (collectively known as “National Fuel”) jointly propose to expand the Supply pipeline system to provide approximately 497,000 dekatherms per day (“Dth/d”) of new firm natural gas transportation capacity, and the Empire pipeline system to provide approximately 350,000 dekatherms per day (“Dth/d”) of new firm natural gas transportation capacity.

The proposed Project consists of the following Supply components:

- construction of approximately 96.65 miles of new 24-inch-diameter pipeline (“Mainline Pipeline”), from Sergeant Township, McKean County, Pennsylvania, to an interconnection with Supply’s existing Line X-North, near Supply’s existing Porterville Compressor Station in the Town of Elma, Erie County, New York;
- addition of approximately 5,350 horsepower to Porterville Compressor Station;
- construction of an interconnection with Tennessee Gas Pipeline’s 200 Line in the Town of Wales, Erie County, New York;
- addition of interconnect/tie-in facilities at Clermont (McKean County, Pennsylvania), Hinsdale Compressor Station (Cattaraugus County, New York), and X-North Pipeline (Erie County, New York);
- addition of a meter and regulator (“M&R”)/pressure reduction station near the tie-in to X-North Pipeline;
- addition of 13 mainline valve (MLV) sites; and,
- cathodic protection facilities.

The proposed Project also consists of the following Empire components:

- construction of a 24-inch pipeline segment of approximately 3.05 miles, replacing 3.05 miles of existing 16-inch Supply pipeline (“Replacement Pipeline”) in the towns of Wheatfield and Pendleton, Niagara County, New York;
- modification of tie-in facilities at the south end of the Replacement Pipeline (tie-in

to Line X-North) and approximately 1 mile north of Replacement Pipeline MP 3.05 (tie-in to Empire Pipeline);

- construction of a new, approximately 22,214 horsepower compressor station in the Town of Pendleton, Niagara County, New York;
- construction of a new natural gas dehydration facility in the Town of Wheatfield, Niagara County, New York; and,
- removal of an existing meter station in the Town of Pendleton, Niagara County with relocation/reuse of certain metering equipment at the proposed Pendleton Compressor Station.

A list and mapping of Project components and their locations is provided in Resource Report 1 – Project Description.

This Resource Report describes existing cultural resources that may be directly or indirectly affected by the Project. It considers anticipated impacts related to construction and operation of the Project, along with proposed mitigation measures designed to minimize these impacts. The report is divided into eight sections. Section 4.2 describes Native American and agency consultations that were performed. Section 4.3 provides the status of the cultural resource surveys performed for the Project. Section 4.4 provides a brief description of the cultural resource surveys that were performed in the Project area, and the results. Section 4.5 discusses the anticipated impacts and proposed mitigation measures to be implemented should avoidance of the cultural resources prove to be impracticable. Section 4.6 identifies cemeteries that are located within the Project area. Section 4.7 discusses National Fuel’s plan should unanticipated cultural resources be discovered in areas that may be impacted by the Project during the construction phase. Finally, Section 4.8 provides a list of references used in the preparation of this Resource Report.

Appendix 4-A provides copies of correspondence with agencies and Native American groups. Appendix 4-B contains the Cultural Resources Overview/Survey reports for the Project. Appendix 4-C provides the Unanticipated Discovery Plans to be used in the event of encountering cultural resources or human remains during construction. The Unanticipated Discovery Plans also are included as attachments to the Cultural Resources Overview/Survey reports for review and comment by Pennsylvania Historical and Museum Commission (“PHMC”), Bureau of Historic Preservation, which serves as the Commonwealth’s State Historic Preservation Office (“SHPO”), and the New York Office of Parks, Recreation, and Historic Preservation (“OPRHP”), which serves as New York’s SHPO.

4.1.1 Area of Potential Effect Determination

The Area of Potential Effect (“APE”), as referred to in this Resource Report, is the “geographic area or areas within which an undertaking may directly or indirectly cause

changes in the character of or use of historic properties, if any such properties exist” (36 Code of Federal Regulations [CFR] §800.16(d)). The APE is defined based upon the potential for effect, which may differ for aboveground resources (historic structures and landscapes) and subsurface resources (archaeological sites). The APE includes all areas where the historic property may be damaged or permanently disturbed; where the character of the property’s use, or of physical features within the property’s setting that contribute to its historic significance, may be changed; where the property is removed from its historic location; or any locations where the introduction of visual, atmospheric, or audible elements diminish the integrity of the property’s significant historic features.

National Fuel, in consultation with the PHMC and the OPRHP has defined the APE for the Project as:

Pipeline Facilities

- Mainline Pipeline, 96.65 miles in length with a 300 ft-wide cultural resources survey corridor, which includes a construction right-of-way (ROW) width of 75 feet.
- Replacement Pipeline, 3.05 miles in length with a 300 ft-wide cultural resources survey corridor, which includes a construction ROW width of 66 feet.
- Areas of additional temporary workspace (ATWS) at various locations along the proposed pipeline ROWs, typically extending the ROW width by 25 feet but within the 300 ft-wide cultural resources survey corridor.

Aboveground Facilities

- Pendleton Compressor Station – construction of a new compressor station on approximately 39.79 acres of mostly agricultural land.
- Porterville Compressor Station – construction of additional compression, total construction workspace footprint of 13.55 acres.
- New meter station at the TGP Interconnect, total construction workspace footprint of 6.67 acres (portion of which falls within 300 ft-wide ROW archaeological survey corridor).
- Wheatfield Dehydration Unit – new construction of a dehydration unit on approximately 40 acres of construction workspace footprint.
- Five new tie-in facilities for a total construction workspace footprint of 16.91 acres (all of which fall within the 300 ft-wide ROW archaeological survey corridor).
- Line X pressure reduction facility associated with the Line X north tie in facility, total construction workspace footprint of 3.44 acres with some portion of the area overlapped with the Line X tie in workspace and 300 ft-wide archaeological survey corridor.
- Thirteen new mainline valve sites 50 feet by 50 feet each (all of which fall within the 300 ft-wide ROW archaeological survey corridor).
- Two pipe storage yards for a total of 20.37 acres and two contractor yards for a total of 32.85 acres (a portion of which falls within the 300 ft-wide ROW archaeological survey corridor).

- Access roads – typically 50-foot wide corridor centered with additional area at turns and entrance to ROWs or roads.
- Areas adjoining all of the aboveground facilities from which there exists a clear view of the facility.

4.2 NATIVE AMERICAN AND AGENCY CONSULTATIONS

Consultation letters regarding the Project were sent to a variety of Native American authorities in July 2014. A listing of the groups provided letters, along with responses received as of December 2, 2014, are included in Table 4.2-1. This list of individuals and groups receiving letters was compiled based on prior consultation with the Bureau of Indian Affairs, OPRHP, PHMC, Pennsylvania Department of Transportation, and a review of material held by the National Association of Tribal Historic Preservation Officers. Copies of all letters and responses received to date are provided in Appendix 4-A.

Table 4.2-1. List of Native American Groups Consulted

Name	Affiliation	Date Consultation Letter Sent	Date of Response and Comments
Joseph Blanchard NEPA/106 Review	Absentee-Shawnee Tribe of Oklahoma 2025 S. Gordon Cooper Dr. Shawnee, OK 74801	July 17, 2014	(None received as of 3/14/2015)
George Blanchard Governor	Absentee-Shawnee Tribe of Oklahoma 2025 S. Gordon Cooper Dr. Shawnee, OK 74801	July 17, 2014	(None received as of 3/14/2015)
Robin Dushane Cultural Preservation Officer	Eastern Shawnee Tribe of Oklahoma P. O. Box 350 Seneca, MO 64865	July 17, 2014	(None received as of 3/14/2015)
Glenna Wallace Chief	Eastern Shawnee Tribe of Oklahoma P. O. Box 350 Seneca, MO 64865	July 17, 2014	(None received as of 3/14/2015)
Roxane Weldon EPA Director	Eastern Shawnee Tribe of Oklahoma P. O. Box 350 Seneca, MO 64865	July 17, 2014	(None received as of 3/14/2015)
Melissa Bach Tribal Historic Preservation Officer	Seneca Nation of Indians 90 Ohi:yo' Way Salamanca, NY 14779	July 17, 2014	(None received as of 3/14/2015)
Jay Toth Tribal Archaeologist	Seneca Nation of Indians 90 Ohi:yo' Way Salamanca, NY 14779	July 17, 2014	(None received as of 3/14/2015)
Paul Barton Historic Preservation Officer	Seneca-Cayuga Tribe of Oklahoma 23701 S. 655 Road Grove, OK 74344	July 17, 2014	(None received as of 3/14/2015)
Leroy Howard Chief	Seneca-Cayuga Tribe of Oklahoma P. O. Box 1283 Miami, OK 74355	July 17, 2014	(None received as of 3/14/2015)
Kim Jumper Tribal Historic Preservation Officer	Shawnee Tribe 29 South 69a Highway Miami, OK 74354	July 17, 2014	(None received as of 3/14/2015)

Ron Sparkman Chairman	Shawnee Tribe 29 South 69a Highway Miami, OK 74354	July 17, 2014	(None received as of 3/14/2015)
Darwin Hill Chief	Tonawanda Band of Seneca Indians 7027 Meadville Road Basom, NY 14013	July 17, 2014	(None received as of 3/14/2015)

Prior to initiating cultural resource surveys, National Fuel requested comments regarding the Project from the PHMC and OPRHP. A listing of the documents submitted, along with responses received as of March 4, 2015, is included in Table 4.2-2. National Fuel submitted a Request to Initiate Consultation Form with supporting materials to the PHMC on July 23, 2014. National Fuel invited the PHMC to act as a Participating [applicant requests participation, while OEP requests cooperation] Agency in FERC’s pre-filing process, to which the PHMC declined. In a letter dated September 2, 2014, the PHMC recommended Phase I archaeological surveys to verify the extent of known sites and to locate other sites that may be eligible for listing in the National Register of Historic Places (“NRHP”). The PHMC also determined that there may be NRHP eligible historic buildings, structures, districts, or objects in view of the Project area, particularly at the locations of aboveground facilities and where the ROW requires clear cutting through hedgerows, wooded areas, other landscape features, or at the placement of new features amongst clusters of buildings associated with a farm. Therefore, an historic architectural review of the Project area was requested to locate potentially significant aboveground resources following the PHMC’s *Surveys Guidelines for Pipeline Projects – Aboveground Resources*.

Natural Fuel submitted correspondence to the OPRHP, dated June 12, 2014, introducing the Project and inviting the OPRHP to act as a Participating Agency in FERC’s pre-filing process. On June 19, 2014, National Fuel met with OPRHP staff to initiate Project consultation. Meeting minutes are included in Appendix 4-A. The OPRHP declined to act as a Participating Agency. The OPRHP determined that significant archaeological sites are located in or near the Project area and others were likely to exist. Accordingly, Phase I archaeological surveys to verify the extent of known sites and to locate other sites to determine their eligibility for listing in the NRHP was requested. The OPRHP staff also requested a historic architecture survey in any area where a change in viewshed may occur, particularly in areas of tree cutting. Prior to the initiation of any architectural survey, OPRHP staff requested that the Scope of Work and the proposed APE be submitted to the OPRHP for review and concurrence. Further, the OPRHP staff requested construction protection plans for any NRHP listed or eligible for listing property that is near the Project that could be potentially impacted.

Table 4.2-2. Summary of PHMC and OPRHP Correspondence

Agency	Documentation Submitted	Date of Submittal	Date of Response and Comments
PHMC	Project Introduction an Invitation to Participate as a Cooperating Agency	June 12, 2014	June 17, 2014 – Request for Project location on USGS 7.5-minute series quadrangle
PHMC	Response for Additional Information and Request to Initiate Project Consultation (Included Project Description and USGS Topographic Quadrangle Project Location Maps)	July 23, 2015	September 2, 2014 – Request for Phase I archaeological surveys and above ground historic properties survey.
OPRHP	Project Introduction an Invitation to Participate as a Cooperating Agency	June 12, 2015	No response received but follow up telephone call resulted in meeting at the OPRHP offices on June 19, 2014
OPRHP	Confirmation of above ground survey APE.	February 24, 2015	None as of March 1, 2015

All agency correspondence to date is included in Appendix 4-A. All additional agency correspondence, if determined to be necessary, will be filed with the FERC upon transmittal or receipt.

4.3 STATUS OF CULTURAL RESOURCE SURVEYS

The cultural resources surveys for the Project included: background archival research, a terrestrial archaeological field survey of Project areas, and an architectural survey of the aboveground facilities. The results of the three studies are incorporated into overview reports, provided in Appendix 4-B. An archaeological survey report and a separate architectural survey report, summarizing the results of background archival research and field surveys, were written for both the Pennsylvania and New York SHPOs. The comments of the SHPOs and Native American tribes reviewing the completed reports will be filed with the FERC upon receipt.

Table 4.3-1 summarizes the completion status of the cultural resources surveys and studies for the Project, including comments received to date. Data regarding portions of the Project area not subject to the Phase I archaeological or architectural survey, including areas where Project design has not been completed, are also summarized in Table 4.3-1. Approximately 60 percent of the proposed Project APE has been surveyed. Survey of the remaining portions of the Project is necessary prior to construction, and will be completed in Spring 2015.

Table 4.3-1. Completion Status of Cultural Resources Surveys

Facility	County, State	Survey Complete	Date Report Submitted to SHPO	SHPO Comment/Date and any Federal Land Management Agency and Tribal Comment/Data
Pipelines				
Mainline Pipeline	McKean, PA	P	March 2015	Pending
	Allegany, NY	P	March 2015	Pending
	Cattaraugus, NY	P	March 2015	Pending
	Erie, NY	P	March 2015	Pending
Replacement Pipeline	Niagara, NY	Y	March 2015	Pending
New Aboveground Facilities				
Pendleton Compressor	Niagara, NY	P	TBD	
Wheatfield Dehydration Unit	Niagara, NY	Y	March 2015	Pending
TGP Interconnect Meter Station	Erie, NY	P	TBD	
Tie-In Facilities	McKean, PA	Y	March 2015	Pending
	Erie, NY	P	TBD	
	Cattaraugus, NY	Y	March 2015	Pending
	Niagara, NY	Y	March 2015	Pending
Mainline Valves (13)	McKean, PA	P	March 2015	Pending
	Allegany, NY	P	March 2015	Pending
	Cattaraugus, NY	P	March 2015	Pending
	Erie, NY	P	March 2015	Pending
Modifications at Existing Aboveground Facilities				
Porterville Compressor	Erie, NY	Y	March 2015	Pending
Support/Auxiliary Facilities				
Pipe/Contractor Yards	TBD	P	TBD	
Access Roads		P	March 2015	Pending
Cathodic Protection Groundbeds		P	TBD	

Note:

Y = Yes

P = Partially Complete/Pending 2015 field surveys

TBD = To be determined, following Phase I surveys

4.4 OVERVIEW AND IDENTIFICATION SURVEYS

The cultural resource surveys were developed in accordance with standards set forth in FERC's *Guidelines for Reporting on Cultural Resources Investigations* (FERC 2002); the U.S. Department of the Interior's *Archaeological and Historic Preservation: The Secretary of the Interior's Standards and Guidelines* (48 Federal Regulation 44,716 [1983]); the Commonwealth of Pennsylvania's *Cultural Resource Management in Pennsylvania: Guidelines for Archaeological Investigations* (Pennsylvania Bureau for Historic Preservation 2008); and the New York Archaeological Council's (NYAC) *Standards for Cultural Resource Investigations and Curation of Collections* (1994).

4.4.1 Background Research

The goal of the cultural resources overview is to locate and identify known and/or documented archaeological resources and, where necessary, aboveground resources, and to define the potential for cultural resources to be present within the APE. This initial phase of investigation provides information required to determine archaeological sensitivity within the APE. Archaeological sensitivity is defined as the likelihood for prehistoric and historic period archaeological resources to be present within the APE boundaries based on different categories of information. The following methodology was utilized to complete the cultural resources background research:

- review of known and/or documented prehistoric and historic period archaeological sites through background research and state site file searches;
- review of previous cultural resource surveys performed in McKean County, Pennsylvania and Allegany, Cattaraugus, Erie, and Niagara Counties, New York;
- review of regional, local, and Project-specific environmental information; and,
- identification of aboveground resources along the Project corridor through background research and review of building survey and NRHP files at the PHMC and OPRHP offices.

4.4.2 Results of the Background Research

A detailed discussion of the review of state site files and results is contained in the Cultural Resources Overview/Survey report in Appendix 4-B. Background research and archival investigation indicated areas along the proposed ROW with low to high probability for encountering terrestrial archaeological resources such as prehistoric and historic period sites. The methodology for determining probability and results are detailed in the Cultural Resources Overview/Survey report (Appendix 4-B). Background research and site file data searches revealed several previously identified archaeological sites within the Project APE (Table 4.4.2-1 and Table 4.4.2-2) and portions of the Project APE were previously surveyed for cultural resources.

Review of the archaeological site files and relevant research reports documented four previous cultural resource investigations within the survey area. Two of the surveys represent very narrow (less than 250 feet) linear survey areas that cross the ROW; one

located in Pennsylvania and one in New York. A width of approximately 135 feet of the 300-foot-wide study corridor for the Project was surveyed in 2000 for approximately 17.5 miles, as part of the Phase I cultural resources survey for National Fuel Gas Supply Corporation's Niagara Expansion Project in Erie, Cattaraugus, and Allegany Counties, New York, beginning at approximate milepost 34.6 and heading north. No cultural resources were identified during the Niagara Expansion Project survey in the areas of overlap with the Northern Access 2016 Project. Finally, in 2001, approximately 53 acres in the Town of Wheatfield were surveyed. The area surveyed encompasses the entire proposed limits of disturbance of the Wheatfield Dehydration Facility. No cultural resources were identified during that investigation. Additionally, two previous surveys on properties adjacent to the APE were identified, however, the extent of those surveys were minimal and no cultural resources identified.

In New York, OPRHP staff requested site file background research to include previously identified and recorded archaeological sites within 400 feet of the APE. Five such sites are located within 400 of the APE. In addition, five previously recorded prehistoric sites are located beyond 400 feet of the APE, but within 2,000 feet, and are included in the site file background research because of their significance to the prehistory of the area. Two of the previously identified archaeological sites, the Simmons Site and the Buffalo Terrace Site, are eligible for listing in the NRHP. No other previously identified historic properties or architectural resources listed in or eligible for listing in the NRHP were identified during the background research in New York. Table 4.4.2-1 lists the previously recorded cultural resources in the vicinity of the APE in New York.

Table 4.4.2-1 Recorded Cultural Resources in the Vicinity of the APE in New York

OPRHP Site Number	Additional Site Name/Number	Time Period	Site Type	NRHP Determination
02912.000015*	Simmons Site (UB 229)	Iroquoian	Village; Burials	Listed
02912.000025*	N/A	Unidentified Prehistoric	No information	Undetermined
02918.000040*	Buffalo Terrace Site	Middle Woodland	Village	Eligible
02924.000033*	Rieter Road Pipeyard Site	Unidentified Prehistoric	Camp; Workshop	Undetermined
06311.000064	Conrail Site/ANR-218	Late Archaic/Early Woodland	Lithic Scatter	Not Eligible
06311.000126	Fritz Site/UB 2439	Unidentified Prehistoric	Lithic Scatter	Undetermined
--	NYSM 5363	Unidentified Prehistoric	Traces of Occupation	Undetermined
--	NYSM 3273*	Unidentified Prehistoric	Traces of Occupation	Undetermined
--	NYSM 6809	Unidentified Prehistoric	Traces of Occupation	Undetermined
--	NYSM 3208	Woodland	Village; Burials	Undetermined

* Located beyond 400 feet of the APE, but within 2,000 feet.

Sources: OPRHP site file data

In Pennsylvania, site file background research included previously identified and recorded cultural resources within 1 mile of the APE. No archaeological sites were recorded within 1 mile of the APE. Three historic properties were identified within the vicinity. Two historic railroad routes are crossed by the Project; their NRHP status is undetermined at this time. A historic bridge crossing Potato Creek, eligible for listing in the NRHP, is located approximately 2,725 feet north of the Project.

Table 4.4.2-2 Recorded Cultural Resources within 1 mile of the APE in Pennsylvania

PHMC Site Number	Additional Site Name/Number	Time Period	NRHP Determination
Key # 136162	Metal Bridge	1888	Eligible
Key # 156193	Pittsburg, Shawmut & Northern Railroad – “Shawmut Line”	1899	Undetermined
Key # 156895	Western New York & Pennsylvania Railway (aggregate file ¹)	--	Not Applicable

¹An Aggregate file does not represent a historic resource survey, and will not have a determination of eligibility. It illustrates the historic path of the railroad line based on research, but is in no way definitive and is a means of collecting and displaying previously surveyed components (“associated resources”) of a particular railroad line.

4.4.3 Cultural Resources Survey

A detailed description of the methodology for the terrestrial archaeological survey for the Project is included in the Cultural Resources Overview/Survey report (Appendix 4-B). Generally, the terrestrial survey included pedestrian survey or walkover reconnaissance, photographic documentation, and systematic shovel tests. The pedestrian survey was used to identify cultural features, soil disturbances, and setting. These observations were used in conjunction with background research results to determine the appropriate field investigation strategy (i.e., shovel testing interval or surface inspection feasibility). Photographs were taken to document environmental conditions and pertinent site conditions (e.g., cultural features, environmental features, and disturbances).

A 300-foot-wide corridor, encompassing the proposed temporary construction and permanent ROW, was evaluated for cultural resources. Generally, transects were placed 50 feet apart throughout the corridor, as per PHMC and OPRHP standards, and 20-inch-diameter shovel tests were excavated to document soil stratigraphy and characteristics. In areas of low archaeological sensitivity, transects may have been placed up to 100 feet apart. The soil from each 20-inch-diameter shovel test was removed and screened through ¼-inch mesh hardware cloth by natural soil levels. Excavators were alert to the possibility of features such as hearths, postholes, or foundations. The excavations continued in depth until Pleistocene soils were reached, except where terminated due to prior disturbance or refusal by shallow bedrock or root impasse. A profile depicting soil stratigraphy for each test pit excavated was drawn, and soil colors were described using the Munsell® system (Munsell Color 1994). Excavators were prepared to collect any cultural material recovered during the archaeological investigations by shovel test provenience, including stratigraphic level and/or depth, using plastic bags for field and laboratory processing and curation. All shovel tests were backfilled following recordation. Notes were made for each test about

provenience, topography, surface vegetation, soils, absence of cultural materials, and limit of excavation. Low sensitivity areas, including areas of standing water, designated wetlands, areas with slopes greater than 15 percent, and areas of prior disturbance were visually inspected, but were not shovel tested. Areas of recently plowed agricultural fields were surface inspected along transects spaced approximately 10 to 15 feet apart, if ground surface visibility exceeded 75 percent.

A detailed description of the methodology for the architectural survey for the Project is included in the Cultural Resources Overview/Survey report (Appendix 4-B). Generally, the architectural survey will document any historic structures within the viewshed of the proposed Project corridor or at project facilities where aboveground activities or modifications are proposed.

4.4.4 Cultural Resources Survey Results

The Phase I archaeological survey for the Project area was performed in August through December 2014. In summary, the survey resulted in the identification of six archaeological sites and one prehistoric isolated find within the Project APE. As a result of potential adverse impacts to cultural resources, route realignments have been proposed, avoiding four of the six sites identified. Table 4.4.4-1 lists the sites with brief descriptions and SHPO recommendations. Complete reports, documenting the results of the background research and field surveys (Phase I Overview/Survey reports), are being submitted to the PHMC and OPRHP in March 2015 for their comment and recommendations. National Fuel will provide the comments and recommendations to FERC Staff when they are available.

Architectural surveys at Project facilities where aboveground activities or modifications are proposed were conducted. No properties eligible for listing in the NRHP were identified. National Fuel submitted architectural survey reports to the respective SHPOs and FERC for comment and recommendations. National Fuel will provide the comments and recommendations to FERC Staff when they are available.

Table 4.4.4-1 Phase I Archaeological Survey Identified Cultural Resources

Facility/ Segment	State/County	Milepost	Site Designation	Site Type	Overview Report Referenc e	Recommendation/ Comments	Date(s) Information Submitted to SHPO	SHPO Recom- mendation
Mainline Pipeline	NY/Cattaraugus	See Appendix B	NA-355-P1	Prehistoric	a ¹	Avoid or Phase II evaluations to determine NRHP eligibility.	March 2015	Pending
Mainline Pipeline	NY/Erie	See Appendix B	NA-903-IP1	Prehistoric	b ²	Isolated Find - No additional investigations.	March 2015	Pending
Mainline Pipeline	NY/Erie	See Appendix B	02918.000040 / Buffalo Terrace Site II	Prehistoric	b	As a result of Project realignment, the site will no longer be impacted. If Project alignment revisions revert to previous alignment, avoid or Phase III data recovery if avoidance is not possible. Previous investigations determined the site eligible for NRHP listing -	March 2015	Pending
Mainline Pipeline	NY/Erie	See Appendix B	NA-926-P1	Prehistoric	b	As a result of Project realignment, the site will no longer be impacted. If Project alignment revisions revert to previous alignment, avoid or Phase II evaluations to determine NRHP eligibility.	March 2015	Pending
Mainline Pipeline	NY/Erie	See Appendix B	NA-928-P1	Prehistoric	b	As a result of Project realignment, the site will no longer be impacted. If Project alignment revisions revert to previous alignment, avoid or Phase II evaluations to determine NRHP eligibility.	March 2015	Pending
Mainline Pipeline	NY/Erie	See Appendix B	NA-937-P1	Prehistoric	b	Avoid or Phase II evaluations to determine NRHP eligibility.	March 2015	Pending
Mainline Pipeline	NY/Erie	See Appendix B	02912.000015 / Simmons Site	Prehistoric	b	As a result of Project realignment, the site will no longer be impacted. If Project alignment revisions revert to previous alignment, avoid or Phase III data recovery if avoidance is not possible. NRHP Listed Site.	March 2015	Pending

¹a/Phase I Cultural Resources Investigation Report for the Northern Access 2016 Project, McKean County, Pennsylvania.²b/Phase I Cultural Resources Investigation Report for the Northern Access 2016 Project, Cattaraugus, Allegany, and Erie Counties, New York.

4.5 PROJECT EFFECTS ON CULTURAL RESOURCES

Direct effects on cultural resources were identified as a result of Phase I cultural resource surveys. Six archaeological sites and one isolated find were identified during cultural resource investigations of the Project. Through Project realignment and route re-siting, four of the six archaeological sites are now avoided. Avoidance or Phase II surveys are recommended at the remaining two sites to determine their eligibility for listing in the NRHP. Avoidance of the two NRHP-eligible sites has been accomplished. Should routing revert to include the two NRHP-eligible sites within the APE, mitigation/Phase III data recovery is recommended if avoidance is not possible. Indirect effects to NRHP-eligible properties by the Project are not anticipated as no NRHP-eligible properties were identified within the Project APE.

4.6 CEMETERIES

There are no cemeteries located within any portion of the Project area; therefore, no impacts to cemeteries are anticipated.

4.7 UNANTICIPATED DISCOVERY PLAN

In the event that unanticipated finds are revealed during Project construction, National will follow the procedures outlined in the “Unanticipated Discovery Plan” located in Appendix 4-C of Resource Report 4.

4.8 REFERENCES

- Federal Energy Regulatory Commission. 2002. *Guidelines for Reporting on Cultural Resources Investigations*. Office of Energy Projects. Federal Energy Regulatory Commission, Washington, DC.
- Munsell Color. 1994. *Munsell Soil Color Chart*. MacBeth Division of Kollmorgen Instruments Corporation, Baltimore, Maryland.
- New York Archaeological Council. 1994. *Standards for Cultural Resource Investigations and Curation of Collections*.
- Pennsylvania Bureau for Historic Preservation. 2008. *Cultural Resource Management in Pennsylvania: Guidelines for Archaeological Investigations*. Bureau for Historic Preservation, Pennsylvania Historical and Museum Commission, Harrisburg, Pennsylvania.
- U.S. Department of the Interior. 1983. *Archaeological and Historic Preservation: The Secretary of the Interior's Standards and Guidelines* (48 Federal Regulation 44,716 [1983]).

APPENDIX 4-A

**State SHPO Correspondence and
Tribal Correspondence**

APPENDIX 4-B

Cultural Resources Overview/Survey Reports

**THESE REPORTS CONTAIN CONFIDENTIAL INFORMATION. ACCORDINGLY,
THESE REPORTS HAVE BEEN PROVIDED IN THE VOLUME ENTITLED
PRIVILEGED AND CONFIDENTIAL**

APPENDIX 4-C

Unanticipated Discovery Plan