# NEXUS GAS TRANSMISSION PROJECT

## *RESOURCE REPORT 2*
*Water Use and Quality*

*FERC Docket No. PF15-10-000*

**Pre-filing Draft**
**June 2015**

## NOTICE TO PUBLIC STAKEHOLDER REVIEWERS

This Draft Resource Report for the NEXUS Gas Transmission Project ("Project") is being filed as part of the Federal Energy Regulatory Commission's ("FERC's") pre-filing process. The pre-filing process allows interested stakeholders, FERC, and regulatory agency staff to engage in early dialogue to identify affected stakeholders, facilitate early issue identification and resolution, provide multiple opportunities for public meetings (e.g., open houses), and support the preparation of high-quality environmental Resource Reports and related documents that describe the Project, assess its potential impacts, identify measures to avoid and mitigate impacts, and analyze alternatives to the Project.

Since the initial filing of Draft Resource Report 1 (Project Description) and 10 (Alternatives) on January 23, 2015, NEXUS hosted eight Open Houses along the proposed pipeline route to inform stakeholders about the proposed Project and to answer questions. FERC staff also hosted six independent Public Scoping Meetings along the proposed route in April and May of 2015, as part of the National Environmental Policy Act ("NEPA") compliance process. This Draft Resource Report may contain items that are highlighted in grey that will be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015.

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| ☒ Identify and describe by milepost perennial waterbodies and municipal water supply or watershed areas, specially designated surface water protection areas and sensitive waterbodies, and wetlands that would be crossed. For each waterbody crossing, identify the approximate width, state water quality classifications, any known potential pollutants present in the water or sediments, and any potable water intake sources within 3 miles downstream. (§380.12(d)(1)) | Sections: 2.3.1, 2.3.2, 2.3.3, 2.3.4, 2.3.5, 2.3.6, and 2.4.1. Tables: 2.3-1, 2.3-2, 2.3-4, 2.3-6, 2.3-7, 2.3-8-and 2.4-1. |
| ☒ Compare proposed mitigation measures with the staff's current "*Wetland and Waterbody Construction and Mitigation Procedures*," which are available from the Commission Internet home page or the Commission staff, describe what proposed alternative mitigation would provide equivalent or greater protection to the environment, and provide a description of site- specific construction techniques that would be used at each major waterbody crossing. (§380.12(d)(2)) | Section 2.3.10, 2.4.4 and Table 2.3-2 and Table 2.4-1 |
| ☒ Describe typical staging area requirements at waterbody and wetland crossings. Also, identify and describe waterbodies and wetlands where staging areas are likely to be more extensive. (§380.12(d)(3)) | Section 1.7.1 in Draft Resource Report 1, Section 2.3.9, 2.4.3, Tables 2.3-12, 2.4-3, and 2.4-4 |
| ☒ Include National Wetland Inventory (NWI) maps. If NWI maps are not available, provide the appropriate state wetland maps. Identify for each crossing, the milepost, the wetland classification specified by the U.S. Fish and Wildlife Service, and the length of the crossing. Include two copies of the NWI maps (or the substitutes, if NWI maps are not available) clearly showing the proposed route and mileposts directed to the environmental staff. Describe by milepost, wetland crossings as determined by field delineations using the current Federal methodology. (§380.12(d)(4)) | Section 2.4, Table 2.4-1 and Appendix 1A in Draft Resource Report 1 |
| ☒ Identify aquifers within excavation depth in the project area, including the depth of the aquifer, current and projected use, water quality and average yield, and known or suspected contamination problems. (§380.12(d)(5)) | Section 2.2 and Table 2.2-1 |
| ☒ Describe specific locations, the quantity required, and the method and rate of withdrawal and discharge of hydrostatic test water. Describe suspended or dissolved material likely to be present in the water as a result of contact with the pipeline, particularly if an existing pipeline is being retested. Describe chemical or physical treatment of the pipeline or hydrostatic test water. Discuss waste products generated and disposal methods. (§380.12(d)(6)) | Section 2.3.8 and Tables: 2.3.9, 2.3-10, 2.3-11 |
| ☒ If underground storage of natural gas is proposed:<br>**(i)** Identify how water produced from the storage field will be disposed of, and<br>**(ii)** For salt caverns, identify the source locations, the quantity required, and the method and rate of withdrawal of water for creating salt cavern(s), as well as the means of disposal of brine resulting from cavern leaching. (§380.12(d)(7)) | N/A |
| ☒ Discuss proposed mitigation measures to reduce the potential for adverse impacts to surface water, wetlands, or groundwater quality to the extent they are not described in response to paragraph (d)(2) of this section. Discuss the potential for blasting to affect water wells, springs, and wetlands, and measures to be taken to detect and remedy such effects. (§380.12(d)(8)) | Sections: 2.2.5, 2.3.10, 2.4.4<br>Tables: 2.3.2, 2.3-3, 2. 2.3-10 and 2.3-11 |

| RESOURCE REPORT 2 – WATER USE AND QUALITY | |
|---|---|
| **Filing Requirement** | **Location in Environmental Report** |
| ☒ Identify the location of known public and private groundwater supply wells or springs within 150 feet of proposed construction areas. Identify locations of EPA or state-designated sole-source aquifers and wellhead protection areas crossed by the proposed pipeline facilities. (§380.12(d)(9)) | Section 2.2.3 and Table 2.2-2 |

# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| Application | Certificate Application |
| ATWS | additional temporary workspace |
| AWB | approximate wetland boundary |
| Bcf/d | Billion cubic feet per day |
| BMPs | best management practices |
| Certificate | Certificate of Public Convenience and Necessity |
| CAZ | critical assessment zone |
| CU | Cataloguing Unit |
| Dawn | Dawn Hub in Ontario, Canada |
| DDAGW | OEPA's Division of Drinking and Ground Water |
| E&SCP | Erosion and Sediment Control Plan |
| EDR | Environmental Data Resources, Inc. |
| EI | Environmental Inspector |
| FEMA | Federal Emergency Management Agency |
| FERC | Federal Energy Regulatory Commission |
| GIS | geographic information systems |
| gpm | gallons per minute |
| HDD | horizontal directional drill |
| HUC | Hydrologic Unit Code |
| M&R | metering and regulating |
| MDNR | Michigan Department Natural Resources |
| MDEQ | Michigan Department Environmental Quality |
| MP | milepost |
| NGA | National Gas Act |
| NRI | National Rivers Inventory |
| NWI | National Wetlands Inventory |
| ORV | outstandingly remarkable values |
| PEM | Palustrine Emergent |
| PFO | Palustrine Forested |
| PSS | Palustrine Scrub-Shrub |
| PUB | Palustrine Unconsolidated Bottom |
| ROW | right-of-way |
| SDWA | Safe Drinking Water Act of 1974 |
| SPCC Plan | Spill Prevention, Control and Countermeasure Plan |
| SSA | Sole Source Aquifers |
| SWAPP | Source Water Assessment Program Plan |
| TMDL | Total Maximum Daily Load |
| U.S. | United States |
| USACE | US Army Corps of Engineers |
| USEPA | US Environmental Protection Agency |
| USFWS | US Fish and Wildlife Service |
| USGS | US Geological Survey |
| WHPA | Well Head Protection Area |
| WHPP | MDEQ Wellhead Protection Program |

# 2.0 RESOURCE REPORT 2 - WATER USE AND QUALITY

## 2.1 Introduction

NEXUS Gas Transmission, LLC ("NEXUS") is seeking a Certificate of Public Convenience and Necessity ("Certificate") from the Federal Energy Regulatory Commission ("FERC") pursuant to Section 7(c) of the Natural Gas Act ("NGA") authorizing the construction and operation of the NEXUS Gas Transmission Project ("NEXUS Project" or "Project"). NEXUS is owned by affiliates of Spectra Energy Partners, LP ("Spectra" or "Spectra Energy") and DTE Energy Company. The NEXUS Project will utilize greenfield pipeline construction and capacity of third party pipelines to provide for the seamless transportation of 1.5 billion cubic feet per day of Appalachian Basin shale gas, including Utica and Marcellus shale gas production, directly to consuming markets in northern Ohio and southeastern Michigan, and to the Dawn Hub in Ontario, Canada ("Dawn"). Through interconnections with existing pipelines, shippers on the NEXUS Project will also be able to reach the Chicago Hub in Illinois and other Midwestern markets. The United States ("U.S.") portion of the NEXUS Project will traverse Pennsylvania, West Virginia, Ohio and Michigan, terminating at the U.S./Canada international boundary between Michigan and Ontario. The Canadian portion of the Project will extend from the U.S./Canada international boundary to Dawn. A more detailed description of the Project is set forth in Draft Resource Report 1.

This Draft Resource Report 2 describes the existing water resources and water quality in the Project area, evaluates the potential impacts of construction and operation of the proposed Project on those resources, and identifies proposed mitigation measures to avoid or minimize potential impacts to groundwater, surface waterbodies, and wetland resources. The information presented in this Draft Resource Report was obtained from field surveys, review of available technical literature, and consultation with various federal, state, and local regulatory agencies. A checklist showing the status of the FERC filing requirements for Draft Resource Report 2 is included after the table of contents.

Project drawings, maps, alignment sheets, and aerials are provided in Draft Resource Report 1, Appendix 1A.

## 2.2 Groundwater Resources

This section discusses the existing groundwater resources that are located along the Project. Descriptions include groundwater uses and quality, and state and federal designated aquifers. This Section also discusses potential groundwater impacts and methods that NEXUS will use to avoid, minimize, and mitigate impacts.

### 2.2.1 Sole Source Aquifers

Sole source aquifer ("SSA") designations were defined by the U.S. Environmental Protection Agency ("USEPA"), pursuant to Section 1424(e) of the Safe Drinking Water Act ("SDWA") of 1974, for an aquifer that provides a sole or principal source (greater than 50 percent) of drinking water for an area, where contamination of the aquifer could create a significant hazard to public health, and where there are no alternative water sources that could reasonably be expected to replace the water supplied by the aquifer (USEPA, 2015a). According to the USEPA's designated SSA maps for Region 5, no designated SSAs are crossed by the NEXUS Project (USEPA, 2015b).

### 2.2.2 Regional Aquifers Crossed by the Project

The principal aquifers crossed by NEXUS Project are unconsolidated surface aquifers (primarily glacial and alluvial deposits) and consolidated and partially consolidated (fragmented bedrock) aquifers that are confined in siltstone, shale, sandstone, limestone, and dolomite bedrock (USGS, 1995; USGS. 1995a).

The surface aquifers are the uppermost aquifer type located along the NEXUS Project. These aquifer systems act as storage reservoirs that are recharged from precipitation and in turn recharge into the underlying confined or partially confined bedrock aquifers. Surface aquifer functions are directly related to

the localized surface geologic material that was deposited during advancing and receding continental ice sheets and can range from >100-600 feet and 50-400 feet in thickness in Ohio and Michigan respectively (USGS, 1995; USGS, 1995a). Glacial till deposits were created by the advancing ice and as a result are typically dense, thin, and unsorted deposits consisting of gravel, fine silt, and clay. Glacial outwash deposits are typically thicker than glacial till deposits and were formed during the receding of the ice sheets where melt water typically sorted deposits based on the energy of water. Coarser materials are primarily deposited where water flows were fastest, and finer materials were deposited in areas with slower moving melt water. Refer to Draft Resource Report 6 for more information regarding surface and bedrock geology.

Sections 2.2.2.1 and 2.2.2.2 below describes the principal regional aquifers crossed by the NEXUS Project. Refer to Figure 2.2-1 for a depiction of each principal aquifer type crossed by the NEXUS Project facilities. Table 2.2-1 provides a summary of milepost ("MP") ranges, thickness, average water depths, and gallons per minute ("gpm") of these aquifers.

#### 2.2.2.1 Ohio

Ohio averages approximately 30 to 44 inches of rainfall each year; of the total annual rain fall about 10-33 percent infiltrates into Ohio aquifers. According to the Ohio Environmental Protection Agency ("OEPA"), approximately 42 percent of Ohio's population relies on groundwater for its water source (USGS, 1995). According to the OEPA 2014 Integrated Water Quality Report, the NEXUS Project traverses three major aquifer types; Sand and Gravel, Sandstone and Carbonate aquifer types. Refer to Figure 2.2-1 for a depiction of the principal aquifer types cross by the Project in Ohio. Table 2.2-1 provides a summary of the aquifer types, MP ranges crossed, thickness, average water depths, and gpm.

**Sand and Gravel Aquifers**

The unconsolidated sand and gravel aquifers (surface aquifers) are typically associated with buried valley aquifer systems where the glacial deposits are the thickest, and they are considered the most productive water-bearing formations or aquifers in the State of Ohio. These originated from pre-glacial and glacial watercourses cutting into the bedrock. These valley cuts were then filled by glacial drift and alluvial deposits of sand and gravel as the glaciers advanced and receded. In addition to the unconsolidated sand and gravel aquifers typically associated with buried valley aquifer systems, the Project crosses another sand and gravel aquifer type that is located in the Oak Opening sand deposits formed by the advance and receding of Lake Erie (OEPA, 2014).

These sand and gravel aquifers can range from 500 to 1,000 gpm where deposits are thickest, but lower yielding sand gravel aquifers are more common and are dependent upon the type, distribution, permeability, and thickness as well as construction parameters of a given well (OEPA, 2014). Sand and gravel aquifers recharge rapidly due to the coarser material deposits, which makes these aquifers more vulnerable to contamination from surrounding land use activities (OEPA, 2007).

**Sandstone Aquifers**

Mississippian and Pennsylvanian sandstone units are predominantly bedrock (confined) aquifers located in eastern Ohio. The sandstone aquifers are comprised of numerous layers of siltstone and sandstone that vary in thickness and are typically separated by layers of shale and minor amounts of limestone, clay, and coal. Although some of the thicker sandstones and conglomerates aquifers can yield 50 to 100 gpm, approximately 25 gpm is more common for the higher yielding sandstone aquifers.

**Carbonate Aquifers**

Carbonate bedrock units are the dominant aquifer type in western Ohio. Silurian and Middle Devonian, typically comprised of limestone and dolomite and can have a total thickness of 300 to 600 feet. Although these aquifers are capable of yielding from 100 to over 500 gpm the Project crosses carbonate aquifers that yield between 0 to 100 gpm. Higher production units are associated with fractures and dissolution features

that can increase the permeability. These carbonates were generally deposited in warm, shallow seas with limited input of sediment from continental sources. Some carbonate aquifers of this type are poor in quality and not used for drinking water.

#### 2.2.2.2 Michigan

The Michigan region averages approximately 20 to 40 inches of precipitation annually, and a small portion of that water infiltrates into Michigan aquifers. According to the United States Geological Survey ("USGS"), approximately 50 to 55 percent of the Michigan population uses groundwater for their water source (USGS, 1995a). Similar to the western portion of Ohio, the NEXUS Project also crosses carbonate aquifers in Michigan, but the surface aquifers crossed in Michigan are estimated between 50 to 100 feet in depth and can yield approximately 0 to 70 gpm. The majority of the Project crosses confining bedrock units that are impermeable to water and therefore are not considered principal aquifers in Michigan. A smaller portion of the Project is located along the Silurian-Devonian bedrock aquifer that is primarily consolidated. Refer to Figure 2.2-1 for a depiction of the principal aquifer types crossed by the Project in Michigan. Table 2.2-1 provides a summary of the aquifer types, MP ranges crossed, thickness, average water depths, and gallons per minute.

**Unconfined Silurian-Devonian Bedrock Aquifer**

In Michigan, the Silurian-Devonian aquifer consists mostly of dolomite and limestone. Silurian-Devonian bedrock is about 300-400 feet in thickness and typically yield less than 50 gpm. Portions of the aquifer are unconfined and are overlain by surface aquifers and can be susceptible to contamination from the land surface through overlying glacial deposits. Where confined the Silurian-Devonian aquifers are protected from contamination by overlying confining units (USGS, 1995b).

### 2.2.3 Wells and Groundwater Protection Areas

Under the Safe Drinking Water Act ("SDWA"), each state is required to develop and implement an aquifer assessment and protection program in order to identify an aquifer's recharge areas contributing to public supply wells, and prevent the contamination of drinking water supplies. The SDWA was updated in 1996 with an amendment requiring the development of a broader-based Source Water Assessment Program to analyze existing and potential threats to quality of drinking water. The following section describes the Ohio and Michigan groundwater protection areas and programs.

The SDWA defines public water systems (groundwater and surface water) as having at least 15 service connections or regularly serving at least 25 individuals. There are three types of public water systems in Ohio: 1) community water systems serve at least 15 service connections used by year-round residents or regularly serve at least 25 year-round residents; 2) nontransient noncommunity systems serve at least 25 of the same persons over six months per year; and 3) transient noncommunity systems serve at least 25 different persons over 60 days per year. Examples of facilities that use these public water systems include campgrounds, restaurants and gas stations. A private water system is defined as a water system that serves fewer than 25 people per day, 60 days per year. Refer to Section 2.3.4 for surface public water.

The NEXUS facilities are sited to avoid public and private wells and wellhead protection areas as much as practicable. The sections below describe these groundwater resources located along the Project facilities.

**Ohio**

OEPA's Division of Drinking and Ground Water ("c") mandates public groundwater and surface water supply systems to establish a source water assessment and protection program ("SWAPP" or wellhead protection area). The assessment and protection program is designed to minimize potential contamination and maintain groundwater quality around a particular water well. These protection areas may vary in size depending upon a particular water supply's recharge areas. A SWAPP is developed by delineating the

recharge area, identify and manage potential sources of pollution, groundwater monitoring, and development of a contingency plan. Refer to Section 2.3.3 for surface water protection area information.

Based on OEPA geographic information systems ("GIS") data and field data collected during the surveys of the Project, NEXUS has identified thirty-three private wells and no public wells located within 150 feet of the Project facilities construction workspace. There are no springs or seeps identified along the Project that are used for drinking water or agricultural purposes. Based on OEPA GIS data, the NEXUS Project crosses two wellhead protection areas: one located at MP 50.4 in Wayne County, Ohio and the other at MP 66.2 in Medina County, Ohio. A list of known water supply wells located within 150 feet and wellhead protection areas that are crossed by the Project facilities is provided in Table 2.2-2. In addition, Figure 2.2-2 depicts the location of the OEPA GIS wells and wellhead protection areas along the Project. The wells that have been identified by NEXUS in the field are depicted on the Project Alignment Sheets that are provided in Appendix 1A – Volume II-B of Draft Resource Report 1.

**Michigan**

The Michigan Department of Environmental Quality ("MDEQ") Wellhead Protection Program ("WHPP") is a voluntary program in which communities may choose to develop an approved WHPP according to the guidelines established by the state. As part of the WHPP a Wellhead Protection Area ("WHPA") identifies the overlying surface area that contributes directly to a particular well based on a 10-year groundwater travel timeframe. The WHPA is submitted to the MDEQ for approval; once approved, a higher level of monitoring applies with respect to certain activities located in the WHPA (MDEQ, 2006).

Based on MDEQ GIS Data, and field data collected during the surveys of the Project, NEXUS has identified twenty private wells and two public wells that are located within 150 feet of the Project facilities construction workspace. One private well is located in the vicinity of Willow Run Meter and Regulator ("M&R") Station and three private wells are located in the vicinity of the wareyard 4-1. The two public wells are located at MP 244.7 in Washtenaw County, Michigan along the proposed NEXUS pipeline facilities. There are no springs or seeps identified along the Project that are used for drinking water or agricultural purposes. Based on MDEQ GIS data, the NEXUS Project crosses one wellhead protection area for a private well located at MP 231.9 in Monroe County, Michigan. A list of known public and private water supply wells located within 150 feet and the WHPA that is crossed by the Project facilities is provided in Table 2.2-2. In addition, Figure 2.2-2 depicts the MDEQ GIS well and wellhead protection areas along the Project. The wells that have been identified by NEXUS in the field are indicated on the Project Alignment Sheets that are provided in Appendix 1A – Volume II-B of Draft Resource Report 1.

### 2.2.4 Sources of Potentially Contaminated Groundwater [Impaired Groundwater]

NEXUS conducted a corridor database search using Environmental Data Resources, Inc., ("EDR") to identify various facilities with potential and/or actual existing sources of contamination that may affect groundwater near and along the proposed pipeline and aboveground facilities. The search identified multiple facilities with potential sources of contamination that may impact nearby soil and groundwater. Information in the EDR report includes a compilation of data from a variety of available federal, state, and local government databases detailed further in Draft Resource Report 8. The EDR report provides a detailed list of potentially contaminated sites within one-mile of the proposed pipeline centerline; however, only sites within 0.25 mile of the pipelines were reviewed for their potential to affect pipeline construction.

The EDR report identified 105 historic occurrences of potential contaminated groundwater sites along the Project pipeline. Of the 105 reported occurrences EDR databases queried, approximately 42 sites are located less than 500 feet from the proposed pipeline and two are located less than 100 feet from the proposed pipeline which suggests that the likelihood of encountering contaminated soils and groundwater along the majority of the Project route is generally low. The Willow Run M&R Station is the only aboveground facility that is located 500 feet from a known site. Information relevant to documented

effected areas that the pipeline will transect, or that the pipeline will be in close proximity to, is provided in Section 8.4.3 of Draft Resource Report 8. See Table 8.4-4 for a listing of environmental sites listed by MP.

Although not anticipated, if contaminated or suspect groundwater is identified during trenching operations, the applicable agencies and FERC will be notified. Work in the area of the suspected contamination typically will be halted until the type and extent of the contamination is determined. The type and extent of contamination and federal and state regulations will determine the appropriate mitigation for these areas. In addition, NEXUS has developed a Spill Prevention, Control and Countermeasure ("SPCC") Plan, in compliance with Environmental Protection Agency regulations at 40 C.F.R. Part 112, that specifies cleanup procedures in the event of groundwater contamination from spills or leaks of fuel, lubricants, coolants, or solvents (*see* Appendix 1B2 in Draft Resource Report 1). NEXUS and its contractors will implement the SPCC Plan to manage and minimize the potential effects on groundwater from any existing contaminated sites and potential spills during construction.

Septic systems located in the vicinity of the Project may also be encountered during the construction. NEXUS is working with landowners along the proposed route to identify septic systems within the study corridor or close proximity to the study corridor limits. NEXUS will continue to work with affected landowners regarding the presence of private septic systems along the proposed alignment. Septic systems located adjacent to the construction workspace will be identified on residential construction plans (Draft Resource Report 8, Appendix 8A) to alert construction crews to the presence of the system and to avoid inadvertent damage to the system that could lead to groundwater contamination. The Project will implement its Project E&SCP; (Draft Resource Report 1, Appendix 1B1) to minimize or avoid any potential disturbances to contaminated materials encountered during construction and will dispose of or mitigate for any hazardous materials uncovered, in accordance with federal, state, and local requirements.

### 2.2.5 Groundwater Impacts and Mitigation

Construction activities associated with the NEXUS Project that have the potential to impact groundwater include shallow excavations, HDD, hydrostatic test discharges, and potential spills or leaks of hazardous liquids from the refueling of construction vehicles or storage of fuel, oil, and other fluids. As described in Section 2.2.4, the Project has the potential to encounter contaminated groundwater in some locations. NEXUS will implement proper groundwater management procedures at the intersection of Project-related construction activities with contaminated groundwater sites to avoid or minimize potential impacts. Depending on the volume requiring management, groundwater management procedures will include the use of portable treatment systems and/or will include transporting groundwater to a treatment facility. Additionally, clay trench breakers or equivalent will be utilized if necessary to prevent the potential migration of contaminated groundwater along the trench.

**Spill Prevention Control and Countermeasures Plan**

Potential spills or leaks of hazardous liquids, resulting from the refueling of construction vehicles or storage of fuel, oil, and other fluids during construction, could contaminate groundwater. NEXUS SPCC Plan for construction addresses preventative measures to be used to minimize the potential impacts of a hazardous material spill on groundwater resources. Spill reporting requirements will be conducted in accordance with all federal, state, and local regulations. The SPCC Plan in included in Appendix 1B2 of Draft Resource Report 1.

#### 2.2.5.1 Pipeline Facilities

Short-term and highly localized impacts to groundwater could potentially occur during various construction stages, particularly during clearing and grading, trench excavation, and blasting if required. During construction, local water table elevations could be affected by trenching and backfilling, thereby temporarily impacting springs and wells in close proximity. In locations where groundwater is near the

surface, trench excavation may intersect the water table in low-lying areas. Each of these possible impacts is short-term and temporary; a long-term impact on groundwater resources is not anticipated as a result of this Project.

Dewatering of the pipeline trench may be required in areas with a high water table or after a heavy rain. Removal of the water from the trench may result in a temporary fluctuation in local groundwater levels. Trench dewatering activities are usually completed in a few days within a particular location; therefore, impacts are expected to be temporary and localized to the dewatering area. All trench water will be discharged into well-vegetated upland areas or properly constructed dewatering structures to allow the water to infiltrate back into the ground, thereby minimizing any long-term impacts on the water table.

The Project is not expected to adversely impact groundwater quality and/or supply. The Project proposes to implement construction practices designed to reduce and/or mitigate potential impacts on groundwater during construction as detailed in the Project E&SCP and SPCC Plan (*see* Appendices 1B1 and 1B2 of Draft Resource Report 1), the FERC Upland Erosion Control, Revegetation, and Maintenance Plan ("FERC Plan"), and FERC's Wetland and Waterbody Construction and Mitigation Procedures ("FERC Procedures") (FERC, 2013) including:

- Installation/maintenance of temporary and/or permanent erosion control structures until soil stabilization is achieved;
- Monitoring of dewatering operations and discharging trench-water to appropriate receiving structures or filter bags as required;
- Use of secondary containment structures when working in/near sensitive resource areas;
- Enforcing restrictions on refueling locations and storage of hazardous substances;
- Revegetation of disturbed workspace locations following installation of the Project facilities;
- Installation of permanent trench plugs, where needed to maintain existing groundwater flow patterns;
- Limited and controlled use of herbicides on the ROW only in appropriate circumstances (where other options are impractical or not available) and consistent with applicable laws, rules, and regulations, as well as any enforceable limitations and controls arising from agency consultations; and
- Prohibiting use of herbicides in or within 100 feet of wetlands or waterbodies, except as allowed by the appropriate land management agency or state agency.

The Project evaluated pipeline routing and associated aboveground facility site options, based on existing land use, utility line infrastructure, regional topography, potential adverse effects on the environment, public health and safety, population density, and construction safety and feasibility considerations.

During the initial landowner contacts to acquire survey access permission, the Project's land representatives requested information on the locations of wells, springs, and septic systems from landowners. In addition survey crews have been identifying wells and septic systems in the field. To date, there have been no springs identified along the Project that are being used as a drinking water source. Regardless, NEXUS will work with affected landowners to reconfigure work areas or modify the pipeline alignment to avoid impacts to springs used as water sources if identified. The Project's land representatives will continue to request information on the location of wells, springs, and septic systems prior to the commencement of construction to complete an inventory of these structures within 150 feet of the Project.

The Project will offer landowners pre- and post-construction testing of water wells within 150 feet of the construction workspace and will test for yield and turbidity parameters. A Project representative will

contact landowners after construction testing events for any significant differences in the well yield between pre- and post-construction sampling that cannot be attributed to naturally occurring conditions, such as seasonal groundwater level fluctuations. The Project will compensate the landowner for the installation of a new well or otherwise arrange for provision of suitable water supplies.

If any blasting is required within 150 feet of any water supply wells, pre-blast and post-blast inspections by NEXUS will also be performed as necessary. All blasting will be performed by registered licensed blasters, in accordance with all appropriate state approvals, and will be monitored by certified blasting inspectors. The contractor will be responsible for supplying explosives and blasting materials that are perchlorate-free in order to eliminate the potential for perchlorate contamination of groundwater. During blasting, NEXUS will monitor ground vibrations at the nearest structure or water well that is within 150 feet of the blast site. In the unlikely event that any water supply well is damaged as a result of blasting, NEXUS will ensure that a temporary source of water is provided until the damaged water well is restored to its former capacity and quality, that a replacement source is provided, or that the landowner is fairly compensated for the damages. Draft Resource Report 7 identifies areas with mapped shallow bedrock that may require blasting.

Where possible, the Project will seek to avoid affecting septic systems and leach fields. Where affecting a septic system, the Project will work with the landowner to relocate the system, and appropriately compensate the landowner for any additionally lost usable land and associated costs.

Additional surveys and landowner contacts to identify and re-confirm the location of springs, wells and septic systems are ongoing and will continue prior to construction. If requested by the landowner, springs used as a water source that are located within 150 feet of construction workspaces will be reviewed by an expert in the field to make a determination as to whether the normally planned construction activities are expected to have any effect. If any impacts are anticipated to occur, the expert will recommend construction alterations for consideration to avoid impacting these areas.

#### 2.2.5.2 Aboveground Facilities

Construction of the new compressor stations and M&R stations will require some grading, and the installation of paved surfaces, buildings, concrete pads and gravel surfaces. Post-construction stormwater management measures will be installed to treat the difference in stormwater runoff volume from pre- to post-construction conditions for the design storm event in accordance with federal and state requirements. NEXUS anticipates that new impervious and graveled surfaces required for the facility will be minor in comparison to the mostly undeveloped area surrounding the compressor station sites. Therefore, it is unlikely that aboveground facility construction and operation will result in any meaningful change in groundwater recharge outside of the station limits.

Hazardous material storage at aboveground facilities will be designed with respect to applicable engineering, safety, and environmental standards. The facilities will include leak detection and spill containment structures commensurate with the quantity of materials stored and will be maintained in compliance with all applicable federal and state regulations and permits.

## 2.3 Surface Water Resources

Surface water resources were initially identified using USGS topographic maps and subsequently verified and surveyed in the field. Surface water resources documented along the NEXUS Project area include major rivers, streams, ponds, and associated tributaries. The following sections describe the surface water resources along the NEXUS Project area.

### 2.3.1 Watersheds

The U.S. is divided and subdivided into successively smaller watersheds that are delineated by the USGS. Watersheds are identified using the Hydrologic Unit Code ("HUC"). Each hydrologic unit is identified by a unique HUC consisting of two to twelve digits based on the six levels of classification: 2-digit HUC first-

level (region), 4-digit HUC second-level (subregion), 6-digit HUC third-level (accounting unit), 8-digit HUC fourth-level (cataloguing unit), 10-digit HUC fifth-level (watershed), and 12-digit HUC sixth-level (subwatershed) (NRCS, 2007).

The NEXUS Project facilities are located within the Ohio River and Lake Erie drainage basins and cross thirteen cataloguing units (8-digit HUC) and 102 subwatersheds (12-digit HUC). Figure 2.3-1 identifies the watersheds crossed by the Project facilities, Table 2.3-1 provides the beginning and end MP of each cataloguing units and subwatersheds crossing.

### 2.3.2 Waterbodies Crossed by the Project

A waterbody, as defined by the FERC, is "any natural or artificial stream, river, or drainage with perceptible flow at the time of crossing, and other permanent waterbodies such as ponds and lakes." The U.S. Army Corps of Engineers ("USACE") has jurisdiction over "waters of the U.S., including wetlands," pursuant to Section 404 of the federal Clean Water Act. Waterbodies include streams with perennial, intermittent, or ephemeral flow. Perennial streams flow year-round. Typically, intermittent streams will flow continuously during wet seasons, but may be dry for a portion of the year. Ephemeral streams flow only for a short period following major rainfall events. Intermittent and ephemeral streams may be dry at the time of construction, depending on the time of year and rainfall conditions.

The term "waterbody" as it is used in this Draft Resource Report is inclusive of all "waters of the U.S.," other than wetlands, that are potentially jurisdictional to the USACE, and all waterbodies as defined by the FERC. Potential surface water resources within the Project area were initially identified using USGS 7.5-minute topographic maps and then field verified during waterbody and wetland delineation surveys. Field surveys for wetlands and waterbodies commenced in 2014 and are ongoing (*see* Draft Resource Report 1, Section 1.14).

Sixty-two percent of the Project facilities were surveyed for the presence of waterbodies along the Project in 2014. The remaining thirty-eight percent were not surveyed due to lack of survey permission and winter conditions during the fall of 2014. For the Project areas not surveyed in 2014, NEXUS utilized publically available USGS topography quadrangles, 2-foot contour LIDAR information, and aerial photography to approximate waterbody boundaries. Approximated waterbodies are shown as orange on the alignment sheets and are listed in Table 2.3-2 as approximated stream "AS" or approximate pond "AP". Surveys along the NEXUS Project are currently ongoing and additional information will be in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015.

#### 2.3.2.1 Pipeline Facilities

The NEXUS Project pipeline facilities will cross 490 waterbodies. Of the 490 waterbodies, 6 ponds and 484 streams were identified. Of the waterbodies crossed, 179 perennial streams were identified and the remaining 305 stream crossings consists of small, intermittent or ephemeral stream flow types. According to the FERC classification system, there are 294 minor (0 to 10 feet bank width), 186 intermediate waterbodies (greater than 10 and less than 100 feet bank width) and 10 major waterbodies (greater than 100 feet bank width) crossed by the NEXUS Project. Although the majority of the waterbodies along the NEXUS Project will be crossed with either dry or wet cut construction methods, there are eighteen waterbodies that will be crossed using a horizontal directional drill ("HDD") method. See Table 2.3-3 for a complete list of waterbodies that are proposed to be crossed using the HDD method along the NEXUS Project corridor. See Table 2.3-2 for a complete list of the waterbodies crossed by the pipeline facilities.

**Temporary and Permanent Access Roads**

Wetland and waterbody surveys are currently underway for temporary and permanent access roads. It is the intention of NEXUS to design access roads to avoid any direct wetland or waterbody impacts as to the

extent practicable. NEXUS will provide the FERC any proposed waterbody crossings at these temporary and permanent access roads in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015.

**Aboveground Facilities**

Field surveys have been completed at the four compressor station sites. All compressor stations have been sited and designed to avoid impacts to wetland and waterbodies. Wetland and waterbody field surveys have not been completed within all the M&R Stations at this time but are underway. It is the intention of NEXUS to avoid wetland and waterbody impacts at M&R Stations to the extent practicable. NEXUS will provide the FERC any proposed aboveground facility waterbody impacts in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015.

**Pipe and Contractor Ware Yards**

The NEXUS Project has identified seven potential pipe and contractor ware yards along the Project. Wetland and waterbody surveys are currently underway, but it is the intention of NEXUS to avoid any wetland and waterbody impacts for the use of pipe and contractor yards use. NEXUS will provide the FERC any proposed waterbody crossing at these yards in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015. Proposed pipe yards and contractor ware yards are shown on USGS Quadrangle mapping located in Appendix 1A.

### 2.3.3 Surface Water Supplies and Surface Water Protection Areas

NEXUS conducted a review of publically available data for public surface water intakes located within three miles downstream of the Project waterbody crossing locations. Three surface water intakes were identified in Ohio and one was identified in Michigan. See Table 2.3-4 for summary of surface water intakes that are located within three miles downstream of the Project. Table 2.3-5 indicates the surface water protection areas crossed by the NEXUS Project and Figure 2.3-2 depicts these locations along the Project.

**Ohio**

Surface public water systems, as described in Section 2.2.3, are regulated by OEPA's DDAGW. The OEPA mandates public surface water supply systems to establish a SWAPP. Ohio's public watershed areas include municipal watersheds and associated reservoirs as well as any state or locally designated surface water protection areas. Based on OEPA GIS data, the Project crosses surface water protection areas located within the greater Ohio River SWAPP (MP 0-69.4), West Branch Black River SWAPP (MP 87.8- 91.3), and Swanton Reservoir SWAPP (MP 188.4-192.4). Although the Project crosses segments of these SWAPPS, NEXUS will avoid direct impacts to these surface water intakes by adhering to NEXUS E&SCP along the entire Project and utilizing HDD and conventional bore crossing methods for numerous streams crossings. Refer to Appendix 1B1 in Draft Resource Report 1 for the Project E&SCP and Section 2.3.9 for waterbody crossing methods.

The surface water intakes associated with Ohio River SWAPP are located along the River, which is located at least sixteen miles from the NEXUS Project. In addition, the NEXUS Project is located approximately 20.5 miles for the nearest Ohio River surface water intake (East Liverpool, Columbiana County, Ohio). Due to significant distance from Project and utilization of the Project-wide E&SCP, NEXUS will not affect the Ohio River or its' associated surface intakes. In addition, NEXUS will utilize an HDD crossing at the West Branch Black River and a conventional bore crossing method for the Swan Creek crossing (intake for Swanton Reservoir) to avoided direct impacts to these public source water streams.

**Michigan**

Michigan determines surface water protection areas by identifying the watershed upstream from a surface water intake. The surface water protection area for an intake is defined as a critical assessment zone ("CAZ"). A 3,000-foot radius is applied to a CAZ for river intakes and 1,000-3,000-foot radius is applied to shore intake (i.e. lake shore) (USGS and MDEQ, 2002).

Based on the *Michigan's Source-water Assessment Program- Surface-Water Assessments Leading to Protection Initiatives* 2002 report, NEXUS has determined that Blissfield surface water intake along the River Raisin (MP 209.8) is located within three miles of the Project pipeline facilities, but its CAZ intake is located outside of the Project crossing of the River Raisin. In addition, NEXUS is proposing to utilize a conventional bore crossing method of the crossing of the River Raisin. This crossing method will install the pipeline under the river and therefore there will be no impact to the river or the Blissfield surface water intake and water supply. There are no other identified public surface water intakes within 3-miles of the Project.

### 2.3.4 Sensitive Surface Waters

Sensitive surface waters include all waterbodies that have been designated for intensive water quality management, waters containing federally- or state-listed threatened or endangered species or critical habitats, any waters afforded national or state designated status, and Section 10 Navigable Waterways. Sensitive surface waters are summarized in Table 2.3-6 by milepost and applicable designated categories. See Section 2.3.5 for waters that do not meet state water quality standards and are considered impaired.

**Endangered, Threatened, and Special Concern Species and Fisheries of Special Concern**

The United States Fish and Wildlife Service ("USFWS"), the Ohio Department of Natural Resources ("ODNR"), and the Michigan Department of Natural Resources ("MDNR") identified that the NEXUS Project area is located within the range of federal and state listed species. Survey work for federal and state listed species is ongoing for waterbodies located along the Project route. Refer to Draft Resource Report 3 for more information regarding federal and state listed species associated within waterbodies crossed by the Project.

**Federal and State Designated Waters**

NEXUS reviewed available state regulations and mapping, the National Rivers Inventory ("NRI") (NPS, 2011), and National Wild and Scenic River System maps (National Wild and Scenic River System, 2014) to identify federal or state recognized exceptional quality waters crossed by the Project. The NRI is a listing of more than 3,400 free flowing river segments in the United States that are believed to possess one or more "outstandingly remarkable" natural or cultural values ("ORVs") judged to be of more than local or regional significance. All federal agencies must seek to avoid or mitigate actions that would adversely affect one or more NRI segments (NPS, 2011). The National Wild and Scenic Rivers System was created by Congress in 1968 (Public Law 90-542; 16 U.S.C. 1271 et seq.) to preserve certain rivers with outstanding natural, cultural, and recreational values in a free-flowing condition for the enjoyment of present and future generations. The 1968 Wild and Scenic Rivers Act encourages river management that crosses political boundaries and promotes public participation in developing goals for river protection (National Wild and Scenic River System, 2014). Federally and state designated waters are discussed below and are summarized by MP in Table 2.3-6.

Ohio

The OEPA Antidegredation rule 3745-1-05 of the Administrative Code identifies stream segments that have exceptional water quality, special ecological significance, or recreational value. NEXUS has determined the Vermillion River (MP 100.4) to be an outstanding water based on its ecological value, the Huron River (MP 112.9) as having a superior high quality water, and the Maumee River (MP 176.3) for being an

outstanding recreational water. NEXUS is proposing to use the HDD crossing method for these OEPA streams designated as outstanding and superior water quality which will avoid impacts to these resources. See Table 2.3-3 for a list of proposed HDDs.

Review of the NRI identified listed river segments crossed by the NEXUS Project in Ohio. Tuscarawas River (MP 46.0) is listed as having the following ORVs: scenery, recreation, and history. The Vermillion River (MP 100.4) is listed as having the following ORVs: recreation, geology, and wildlife. The Sandusky River (MP 141.6) is listed as having the following ORVs: recreation and history. NEXUS is proposing to use the HDD crossing method for all of the NRI designated stream crossed by the Project which will avoid impacts to these resources. See Table 2.3-3 for a list of proposed HDDs.

NEXUS reviewed the National Wild and Scenic River list and determined that there are no federally designated Wild and Scenic Rivers crossed by the Project in Ohio.

Michigan

NEXUS reviewed Michigan Department of Natural Resources list of designated natural streams as well as the NRI and National Wild and Scenic River listing and has determined that the Project does not cross any federally or state designated waters.

**Navigable Waters**

Under Section 10 of the Rivers and Harbors Act of 1899, the USACE has authority to regulate construction in navigable rivers of the United States, which are defined under 33 Code of Federal Regulations § 329 as those waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. The NEXUS Project crosses four Section 10 navigable waters including the Tuscarawas River (MP 46.0), Huron River (MP 112.9), Sandusky River (MP 141.6), and the Maumee River (MP 176.3) in Ohio. There are no navigable waters crossed in Michigan. NEXUS is proposing to utilize HDD crossing methods avoid impacts to navigable waters crossed by the Project (*see* Table 2.3-3).

### 2.3.5 Impaired Surface Waters

States are mandated to adopt and review water quality standards under Section 303(c) of the Clean Water Act. Water quality standards define the beneficial designated uses that are protected for each waterbody and the associated water quality criteria that must be met to protect those uses. Water quality classifications are based on the designated uses set under the water quality standards. A waterbody that does not achieve water quality criteria for one or more of its designated uses is considered impaired.

To determine whether any impaired waterbodies will be affected by the Project, NEXUS reviewed the 303(d) lists for Michigan and Ohio. The Total Maximum Daily Load ("TMDL") program, established under Section 303(d) focuses on identifying and restoring polluted rivers, streams, lakes and other surface waterbodies. A TMDL is a written, quantitative assessment of water quality problems in a waterbody and contributing sources of pollution. TMDLs are used to identify impaired waters.

In Ohio, waterbodies classified in USEPA Categories 4 and 5 are considered Impaired Surface Waters. In Ohio Category 4 includes waterbodies where the TMDLs have been completed or cannot be completed due to the nature of the contamination.

Ohio Category 5 includes waterbodies where TMDLs need to be developed by the state. For Michigan, the MDEQ provides a list of only Category 5 waterbodies that are listed as Impaired. A Category 5 waterbody in Michigan indicates that available data and/or information suggests that at least one designated use is not being supported or is threatened, and a TMDL is required.

NEXUS reviewed both the Ohio and Michigan 2014 Section 303d lists of impaired streams. A total of 177 impaired streams along the NEXUS Project mainline pipeline were identified. Of those 177 impaired

streams, 150 are located in Ohio and 27 are located in Michigan. Table 2.3-7 identifies each impaired waterbody by milepost and includes the cause of impairment and state TMDL status for each stream in Ohio and Michigan.

### 2.3.6 FEMA Flood Zones

NEXUS reviewed available state and federal digital flood data to identify proposed crossings of areas subject to flooding and high volume flows. Flood zones are geographic areas that the Federal Emergency Management Agency ("FEMA") has defined according to varying levels of flood risk and type of flooding. These zones are depicted on the published Flood Insurance Rate Map or Flood Hazard Boundary Map. Special Flood Hazard Areas represent the area subject to inundation by 1-percent-annual chance flood (FEMA, 2015). All aboveground facilities have been sited outside of FEMA flood zones. A small portion of ware yards 2-1 and 3-2, which will only be used as temporary workspace with no change to the flood storage capacity, are located within a mapped flood zone. Figure 2.3-3 depicts mapped FEMA Flood Zones located along the Project and Table 2.3-8 identifies FEMA Flood Zones crossed by the Project.

### 2.3.7 Construction Permits

NEXUS will apply for applicable federal and state permits, approvals, and licenses related to the construction and installation of the pipeline across regulated waterbodies and wetlands and the withdrawal or discharge of hydrostatic test water. Table 1.13-1 in Draft Resource Report 1 provides a list of the permits and authorizations required for construction of the Project facilities.

#### 2.3.7.1 Surface Water Permits

NEXUS will acquire all applicable construction-related permits at the federal and state level, including Clean Water Act Section 404 authorization with the USACE for wetland impacts. Federal Clean Water Act Section 401 water quality certifications will be requested from the OEPA. Hydrostatic test water discharge will require a National Pollutant Discharge Elimination System general permit from the OEPA. Table 1.13-1 in Draft Resource Report 1 lists all federal and state environmental permits that are required for the NEXUS Project.

### 2.3.8 Hydrostatic Test Water

In compliance with U.S. Department of Transportation regulations at 49 CFR Part 192, NEXUS will conduct hydrostatic testing on the pipeline facilities prior to placement in service. Potential sources of hydrostatic test water identified to date for the proposed Project pipeline and aboveground facilities, as well as the eleven proposed HDD locations are provided in Table 2.3-9, Table 2.3-10, and Table 2.3-11 respectively. Test sections were selected based on several factors, including pipe parameters, the elevation changes within the alignment, the target design pressure, and the class locations of the pipeline. To the extent practicable, NEXUS will transfer hydrostatic test water from one test segment to the next, which will reduce the volume of test water required.

The source waters were selected based on proximity to the construction area, proximity to the required test sections, and ability to supply a sufficient volume of water for the testing process without compromising normal waterbody dynamics and ecology. NEXUS will provide the final withdrawal and discharge volumes for each potential water source for the pipeline facility segments and provide that to the FERC in the final Application.

Preliminary evaluations have identified eleven different waterbodies and one municipal water source as potential hydrostatic test water sources for the Project pipeline facilities. Except for the Wadsworth and Clyde Compressor Stations, hydrostatic test waters used for the proposed compressor and M&R stations will likely be withdrawn from municipal water sources. At this time NEXUS is investigating the option of installing on-site water wells at the Wadsworth and Clyde Compressor Stations that would provide the source water for hydrostatic testing. NEXUS is proposing eleven HDDs along the Project pipeline facilities,

ten of which are designed to cross the major and sensitive surface waterbodies, and the remaining HDD is proposed for crossing Interstate 94 in Michigan. NEXUS will propose to withdraw hydrostatic test water from the waterbodies crossed by the HDD method and will utilize municipal water for the Interstate 94 crossing. Refer to Table 2.3-9, Table 2.3-10, and Table 2.3-11 for milepost references, estimated withdrawals and discharge volumes, and other specific information regarding the proposed hydrostatic test waters.

Environmental impacts from withdrawal and discharge of hydrostatic test water will be minimized by using the measures prescribed in the NEXUS Project E&SCP. To minimize impacts NEXUS will:

- Locate hydrostatic test manifolds outside of wetlands and riparian areas, to the extent practicable;
- Comply with all appropriate federal and state permit requirements;
- Not withdraw from or discharge into state-designated special waters, waterbodies that provide habitat for federally listed threatened or endangered species, or waterbodies designated as public water supplies, unless the relevant federal, state, and local permitting agencies grant written permission;
- Screen the intake hose to prevent entrainment and impingement of fish and other aquatic life;
- Maintain ambient, downstream flow rates to protect aquatic life, and provide for all designated water uses, including withdrawals by existing downstream users;
- Discharge test water to a well-vegetated and stabilized area, if practical, and maintain at least a 50-foot vegetated buffer from adjacent waterbody/wetland areas. If an adequate buffer is not available, sediment barriers or similar erosion control measures must be installed;
- Regulate discharge rate, use energy dissipation device(s), and install sediment barriers, as necessary, to prevent sedimentation and streambed scour;
- Reuse hydrostatic test water where practicable; and
- Comply with state and federal discharge requirements once testing is complete.

NEXUS does not anticipate using chemicals for testing or for drying the pipeline following hydrostatic testing. Upon the completion of hydrostatic testing, the test water will be discharged into dewatering structures located in upland areas within the construction work area in accordance with the NEXUS Project E&SCP and all applicable permits. Samples of this outflow will be collected and tested in accordance with the federal and state permit requirements.

### 2.3.9 Waterbody Construction Methods

The Project pipeline facilities will cross a total of 490 waterbodies. A total of 420 will be crossed by centerline and 70 are located within the construction workspace and will either be avoided or temporarily crossed using equipment bridges. The waterbody construction procedures described below and within the Project E&SCP are consistent with those prescribed in the FERC Procedures May 2013 version.

#### 2.3.9.1 General Procedures

Following surveying and staking, it is necessary to mobilize the required equipment at the waterbody crossing. To facilitate this process, temporary bridges may be constructed across the waterbody during clearing and grading activities for construction equipment (*see* the Project E&SCP located in Appendix 1B1 of Draft Resource Report 1). Temporary bridges and associated supports are removed as part of the restoration process.

In general, construction equipment and vehicle refueling and lubricating takes place in upland areas located more than 100 feet from the edge of a waterbody (or wetland). In addition, fuels, lubricating oils, petroleum products, and other hazardous materials are not stored within 100 feet of an aquatic resource. However, instances may arise where equipment refueling and lubrication near or in a waterbody are necessary. For example, stationary equipment, such as a hydrostatic test water pump, may need to operate continuously on the bank of a waterbody. The Project E&SCP and SPCC Plan (*see* Appendices 1B1 and 1B2 of Draft Resource Report 1) address the handling of fuel and other hazardous materials in or within 100 feet of a waterbody, which may be approved with conditions by the Lead Environmental Inspector ("EI").

If trench dewatering is necessary in or near a waterbody, the removed trench water will be discharged into an energy dissipation/sediment filtration device, such as a geotextile filter bag or straw bale/geotextile structure located away from the water's edge to prevent heavily silt-laden water from flowing directly into the waterbody in accordance with the Project E&SCP and all applicable permits. Monitoring will be conducted to ensure that all flow from the structure is infiltrating into the underlying soil. Refer to Section 1.7 of Draft Resource Report 1 for additional waterbody construction-related information.

#### 2.3.9.2 Additional Temporary Workspace

In general, additional temporary workspace ("ATWS") is typically required on both sides of a waterbody crossing to store materials and trench spoil. In adherence to the FERC's Procedures, the ATWS will be located at least 50 feet away from the waterbody edge, topographic and other site specific conditions permitting and except where the adjacent upland consists of cultivated or rotated cropland or other disturbed land. If conditions do not permit a 50-foot setback where required, NEXUS will request deviations from the FERC's Procedures. Table 2.3-12 identifies the locations where deviations from the FERC Procedures (2013) ATWS waterbody setback are required along the Project pipeline facilities.

#### 2.3.9.3 Clearing

Clearing involves the removal of all trees and brush from the construction workspace. Woody vegetation along the permanent easement is cleared to the edge of the waterbody; however, where available, a 50-foot wide herbaceous strip is left on the approach until immediately before construction to provide a natural sediment filter that helps minimize the potential for erosion immediately adjacent to the waterbody and sedimentation from cleared upland areas. With the exception of stream buffers and forested wetlands, stumps are typically removed over the width of the permanent ROW. Initial grading of the herbaceous strip is limited to what is needed to install the equipment bridge and, where a large grade cut is needed, to the extent necessary to safely implement the construction activity. After clearing and prior to grading activities, temporary erosion control devices (sediment barriers) will be installed and maintained adjacent to the waterbody and within the construction work area, as needed to further minimize the potential for sediment runoff.

#### 2.3.9.4 Crossing Methods

To minimize potential impacts, waterbodies, streams and rivers will be crossed as quickly and safely as possible. Additionally, efforts will be made to plan work during dry conditions for intermittent and ephemeral channels, where practicable. Adherence to the construction procedures will ensure stream flow will be maintained throughout construction. Pending the results of ongoing geotechnical investigations, NEXUS proposes eleven HDDs along the Project route. Ten of the HDD's will avoid direct impact to a total of eighteen waterbodies. Sixteen of these waterbodies are located in Ohio, and two are located in Michigan. Proposed waterbody crossing methods for each waterbody crossed by the proposed pipeline are provided in Table 2.3-3.

**Wet Crossing (Wet Open Cut)**

Wet open cut crossings will be performed by using excavation equipment to trench across the waterbody. Equipment used to dig the trench will work from the waterbody banks, equipment crossings, or by straddling the trenchline where the width of the waterbody prohibits excavations solely from the banks. The depth of the trench will be sufficient to allow a minimum of five feet of cover over the pipeline below the streambed, provided rock is not encountered. Consistent with the FERC's Procedures, NEXUS plans to complete construction activities, except for blasting and other rock breaking measures, within 24 hours at minor wet open cut crossings and within 48 hours at intermediate wet open cut crossings. The Lead EI may adjust the final placement of the erosion and sediment control structures in the field to maximize effectiveness.

The following additional stipulations will apply to wet open cut crossings:

- Adherence to measures outlined for open wet cut crossings in the Project E&SCP (*see* Appendix 1B1 of Draft Resource Report 1).
- Use of equipment operating in the waterbody will be limited to that needed to construct the crossing;
- Material excavated from the trench will be kept to a minimum and will be stockpiled in the construction ROW at least 10 feet from the water's edge or in ATWS (located at least 50 feet from the water's edge);
- Material excavated from the trench will be used as backfill, unless federal or state permits specify otherwise;
- Any excess material will be removed from the body of water; and
- The waterbody bottom will be returned to its original contour.

NEXUS may choose to use mainline construction procedures across minor waterbodies where the open cut crossing method is proposed. In these instances, a flume pipe will be installed immediately after trenching is completed. The flume pipe will remain in place until the lowering-in process. The flume pipe will be removed just prior to lowering in the pipeline. The 24-hour restoration timeframe starts as soon as the flume is removed.

**Dry Crossing (Dry Cut)**

Dry crossing methods will involve installation of a flume pipe(s) and/or dam and pump prior to trenching to divert the stream flow over the construction area and allow trenching of the stream crossing in drier conditions isolated from the stream flow. A description of the Flumed crossing method and the Dam and Pump crossing method are included in the Project E&SCP (*see* Appendix 1B1 of Draft Resource Report 1). Spoil removed during the trenching will be stored away from the water's edge and protected by sediment containment structures. Pipe strings will be prefabricated into one continuous section on one bank and either pulled across the stream bottom to the opposite bank, floated across the isolated portion of the stream, or carried into place and lowered into the trench. Where these methods are employed, ATWS areas will be required for assembly of the pipe strings and spoil storage areas. Fisheries resources along the route are discussed in Draft Resource Report 3.

A wet open cut will be utilized for all waterbodies that are dry during the time of the crossing with no discernible or anticipated flow regardless of the designated waterbody crossing method. This method will utilize conventional construction techniques with no temporary diversion structures (e.g., flume pipes, cofferdams) required during construction of the crossing. Consistent with the FERC Procedures, NEXUS plans to complete construction activities within 24 hours at minor open cut waterbody crossings and within

48 hours at intermediate open cut crossings. A minimum cover depth of five feet will be maintained over the pipeline for all designated waterbodies crossed with the dry open cut method.

**Conventional Bore Method (Bore)**

In site-specific circumstances, a conventional bore may be used for waterbody crossings. This method is essentially the same as is used for road and railroad crossings, and the pipeline is installed by boring a hole under the waterbody. Specialized boring equipment is used. The soil and or rock are bored by a drill that contains a cutting head which cuts through the soil. Dummy casing which is slightly larger in diameter than the pipeline, is installed immediately behind the cutting head. An auger is placed inside the pipe to remove the cuttings. When completed, the bored hole is slightly larger than the outside diameter of the pipeline to be installed. Once the bore is completed, the pipeline section is welded to the boring pipe and pulled into place and the boring pipe is removed. Any voids between the pipeline and the subsoil are filled with grout (a sand-cement mix) to prevent settlement. This method requires that bore pits be excavated on each side of the waterbody so that the boring equipment can install the pipeline below the bottom of the stream channel.

**Horizontal Directional Drill**

The HDD method is a trenchless installation process by which the pipeline is installed beneath obstacles or sensitive areas utilizing equipment and techniques derived from oil well drilling technology. In principle, HDD construction is the least disturbing method upon the existing environment relative to any other conventional open trench operations. The installation is a multi-stage process consisting of establishing a small diameter pilot hole along the crossing profile, followed by enlargement of the pilot hole to accommodate pull back of the proposed pipeline.

The HDD rig and associated equipment (e.g., control cab, drill string pipe storage, office and tool storage trailers, power generators, bentonite storage, bentonite slurry mixing equipment, slurry pump, cuttings separation equipment, and heavy construction equipment) will be set up on one side of the waterbody crossing. Due to the specialized equipment and area requirements associated with HDD technology, additional temporary workspace will be requested to stage and successfully operate the equipment. Drilling will progress beneath the waterbody towards the other shore. The pilot hole is drilled using a small diameter drill string and a drill bit consisting of an asymmetric jetting head. The hydraulic cutting action of the drill head is remotely operated to control its orientation and direction. The position of the drill string is electronically monitored during the drilling operation. Directional corrections are made as necessary to ensure that the drill string maintains the desired profile and alignment.

Bentonite drilling fluid is delivered to the cutting head through the drill string to provide the hydraulic cutting action, lubricate the drill bit, stabilize the hole, and to remove cutting spoil as the drilling fluid returns to the entry point of the pilot hole to an excavated containment pit. Typically, drilling fluid returns are processed to remove the cuttings and the bentonite is recycled for use as the drilling operation continues. In the event that there is an inadvertent release of drilling fluid, lost circulation materials may be used in an attempt to seal the formation and reestablish drilling fluid returns to the entry and/or exit pits. Many types of lost circulation materials are available for use during HDD operations which are inert and environmentally benign. These can include wood fibers, cotton seed husks, ground walnut shells and other natural materials. Special polymers that swell to several times their original size when introduced to water can also be used. Which of these types of products are used is typically left to the discretion of the HDD Superintendent and the EI.

Water sources and volumes for HDD locations are discussed in Section 2.3.8, Hydrostatic Test Water, above. Drilling mud and cuttings will be recycled or disposed of at an approved upland location or disposal facility. No recovered drilling fluid will be disposed of in waterbodies or wetlands. Recovered materials

will be collected in containers for temporary storage prior to removal from the site and all containment structures will be removed from the site.

Enlarging the pilot hole is an incremental process accomplished with one to several reaming passes, depending upon the carrier pipe diameter and the subsurface geology. The rotating reaming/cutting tool is attached to the drill string at the exit point, and drawn back toward the drilling rig situated at the entry point of the pilot hole. Drill pipe is added behind the reaming tool as it progresses toward the drill rig to ensure that a continuous drill string is maintained in the drilled hole. Bentonite drilling fluid is again utilized during the reaming process to remove cutting spoil from the hole and stabilize the enlarged hole.

Additional temporary workspace or false ROW will be required along the other side of the waterbody to prefabricate the pipeline into one continuous section in preparation for the pullback. Once assembled, the pipeline is placed on pipe rollers so that it may be conveyed into the drill hole during the pullback operation. The fabricated pipe will be hydrostatically tested prior to pullback. Once reaming is completed, the prefabricated pipeline is attached to the drill string at the exit point, and drawn back toward the drilling rig at the entry location. Upon completion of pipeline construction, the entire line, including the incorporated HDD segment, will again be hydrostatically tested.

Currently, geotechnical surveys are being conducted at the proposed HDD crossing locations. Based on geotechnical survey result analysis, NEXUS will evaluate and confirm that each of the proposed HDD crossing locations is technically feasible. If the geotechnical survey results indicate a high risk of failure, NEXUS will reevaluate for a more feasible waterbody crossing method.

#### 2.3.9.5 Drilling and Blasting at Waterbodies

To identify the need for drilling or blasting, the trench crew will drill the stream banks to determine if rock will be encountered during construction. Should these test holes identify the need for blasting, the ditch crew will prepare the trench line. If in-water blasting is determined to be necessary, NEXUS will follow mitigation measures provided in the Project Blasting Plan. The Blasting Plan is provided in Appendix 1B3 of Draft Resource Report 1. The mainline tie-in crews will then excavate the trench, install the pipeline, and restore the area in accordance with the Project E&SCP.

#### 2.3.9.6 Restoration

Completed stream crossings will be stabilized within 24 hours of backfilling in accordance with the FERC Procedures and the Project E&SCP, weather and soil conditions permitting.

Within the construction ROW, a 25 foot-wide riparian strip adjacent to waterbodies will be allowed to revegetate with native plant species. A 10 foot wide area centered on the pipeline may be maintained to facilitate periodic pipeline corrosion/leak surveys. Any trees within 15 feet of the pipeline that have roots that could compromise the integrity of the pipeline coating may be cut and removed from the permanent ROW during maintenance activities.

### 2.3.10 Surface Water Effects and Mitigation

Construction activities associated with the Project that have the potential to affect surface waters include clearing activities, crossings of waterbodies for pipeline installation, HDD, hydrostatic test discharges, potential spills or leaks of hazardous liquids from the refueling of construction vehicles or storage of fuel, oil, and other fluids, and temporary access road crossings. Periodic maintenance of the ROW also has the potential to impact bank and riparian areas adjacent to waterbodies.

Pipeline construction across rivers and streams or adjacent to surface waters can result in temporary and long-term adverse environmental impacts if not properly completed. However, proper construction techniques and timing can ensure that any such effects are both temporary and minor. The primary effect associated with in-stream trenching is a temporary increase in turbidity and the resulting sedimentation that

may occur downstream. Surface runoff and erosion from the cleared ROW can also increase in-stream sedimentation during construction. Other potentially deleterious effects include accidental hazardous material spills resulting from refueling/maintaining construction equipment, fuel storage, or equipment failure in or near a waterbody, and could have immediate effects on aquatic resources and contaminate the waterbody downstream of the release point.

Long-term effects on water quality can result from alteration of stream banks and removal of riparian vegetation. If not stabilized and revegetated properly, soil erosion associated with surface runoff and stream bank sloughing can result in the deposition of large quantities of sediment into the waterbody. Increased turbidity from soil erosion and increased water temperature from vegetation removal can reduce the suitability of habitat for fisheries.

Minor long-term effects associated with pipeline operations and maintenance will largely be restricted to periodic clearing of vegetation within the permanent ROW at waterbody crossings as described earlier in this section. These maintenance activities will be consistent with the FERC Procedures, which have been fully integrated into the Project E&SCP (*see* Appendix 1B1 of Draft Resource Report 1).

#### 2.3.10.1 Mitigation and Restoration Measures

To minimize effects at waterbody crossings during construction, operation, and maintenance, NEXUS will construct the Project in accordance with the best management practices ("BMPs") outlined in its Project E&SCP and with all federal and state regulations and permit requirements including stormwater permit requirements. NEXUS has sited the proposed ROW adjacent to existing maintained utility ROWs and agricultural fields at waterbody crossings to the extent practicable to minimize potential impacts on riparian buffers along stream corridors.

To minimize the potential for sedimentation to waterbodies and within public drinking water watershed areas caused by erosion from the adjacent landscape, trench spoil that is excavated from streambeds and banks will be placed at least 10 feet from the top of the waterbody bank or within ATWS located 50 feet from the water's edge, except where the adjacent upland consists of cultivated or rotated cropland or other disturbed land. Erosion control devices, such as silt fences and other BMP's, will be placed at the downslope edges of the spoil piles to prevent sediment from entering the waterbody.

Once the pipeline is placed in the trench, the temporarily-stored spoil material will be placed back in the trench and the stream banks and streambed will be restored as close to their pre-construction contours as feasible. Stream banks and riparian areas will then be revegetated in accordance with the Project E&SCP (Appendix 1B1 of Draft Resource Report 1) and any applicable agency requirements. During construction, the open trench may, on occasion, accumulate water from either groundwater intrusion or precipitation. In such cases, the trench will be dewatered periodically to allow for proper and safe construction. Additionally, major waterbody crossings and crossings of federal and state-designated waterbodies are proposed to be crossed utilizing HDD where practicable to avoid in-stream disturbance and to minimize tree clearing at stream banks along these sensitive waters.

Any hazardous materials, chemicals, lubricating oils, solvents, or fuels used during construction will be stored in upland areas at least 100 feet from wetlands and waterbodies as required by the Project SPCC Plan. All such materials and spills (if any) will be handled in accordance with NEXUS' SPCC Plan. Except where absolutely necessary, or required to otherwise minimize overall effects to the environment, there will be no refueling or lubricating of vehicles or equipment within 100 feet of a waterbody. Under no circumstances will refuse be discarded in waterbodies, trenches, or along the construction corridor. In accordance with the SPCC Plan, NEXUS will conduct routine inspections of tanks and storage areas to help reduce the potential for spills of hazardous materials (*see* Appendix 1B2 of Draft Resource Report 1). NEXUS will consult with federal and state agencies regarding the potential to encounter contaminated

sediments along the Project. In the event that contaminated sediment areas are confirmed, NEXUS will work with federal and state agencies to develop appropriate mitigation.

#### 2.3.10.2 Hydrostatic Test Water

The piping associated with all Project pipeline facilities will be hydrostatically tested for structural integrity prior to being placed in service. Testing will be completed by capping installed pipe facilities with test manifolds, filling these segments with water, and maintaining a test pressure in excess of normal operating pressures for a specified period of time (typically 8 hours). Hydrostatic testing will be conducted on this Project in a manner that meets or exceeds the U.S. Department of Transportation "Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards" (49 CFR Part 192).

NEXUS will employ measures designed to reduce the likelihood of entrainment or impingement of juvenile and adult fishes during hydrostatic test water withdrawal operations. NEXUS will attempt to avoid low-flow conditions to limit any potential effect on downstream aquatic resources. Hydrostatic test water intake structures will be floated so they are not laying on the streambed and screened with wire to prevent larger fish from entering the intake structure. The screen around the intake will be fabricated to provide an adequate surface area of fine meshed screen designed to reduce the approach velocity to prevent impingement or entrainment of small fish and/or macroinvertebrates. NEXUS will obtain necessary permits for water withdrawal as required to be implemented during surface water withdrawals to maintain adequate stream flow rates and to ensure adequate volumes are available downstream for withdrawals by existing users.

Upon completion of the hydrostatic test, environmental effects from the discharge of hydrostatic test water will be minimized by using the measures described in the Project E&SCP. See Section 2.3.8 above of procedures utilized by NEXUS to avoid and minimize impacts to waterbodies during hydrostatic testing.

## 2.4 Wetlands

Wetlands are defined as areas inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in saturated soil conditions. Typical wetlands include swamps, marshes, wet meadows, and similar areas.

NEXUS identified, located, classified, and delineated wetland resources within the Project area through field surveys conducted in 2014 and surveys are currently ongoing in 2015. Jurisdictional wetlands crossed by the Project were field delineated in accordance with the USACE's Wetlands Delineation Manual (Environmental Laboratory, 1987), Regional Supplement to the Corps of Engineers Wetland Delineation Manual: North Central Northeast Region (Version 2) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest (Version 2.0) (USACE 2012).

Sixty-two percent of the Project facilities have been surveyed for jurisdictional wetlands located along the Project. The remaining thirty-eight percent was not surveyed due to lack of survey permission and winter conditions during the fall of 2014. For the Project areas not surveyed in 2014, NEXUS utilized publically available National Wetlands Inventory ("NWI"), USGS topography quadrangles, 2-foot contour LIDAR information, and aerial photography to approximate wetland boundaries. Approximated wetlands are shown as orange on the alignment sheets and are indicated as approximate wetland boundary ("AWB"). Wetland delineation efforts are continuing and the wetland information will be in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015.

### 2.4.1 Existing Conditions

Wetland types were assigned based on the NWI classifications as described in Cowardin et al., 1979. NWI maps for the Project area are provided in Appendix 1A, Volume II-B of Draft Resource Report 1. The USFWS wetland classification system described by Cowardin et. al. (1979) was used to classify the wetlands that will be affected by the Project. The wetlands in the Project area were delineated as Palustrine

Forested ("PFO"), Palustrine Scrub-Shrub ("PSS"), Palustrine Emergent ("PEM"), Palustrine Unconsolidated Bottom ("PUB"), or a combination of these four cover types. Palustrine systems include all non-tidal wetlands that are dominated by trees, shrubs, persistent emergent, and emergent mosses or lichens and all wetland that occur in tidal areas where salinity due to ocean-derived salts is below 0.5 percent. The palustrine system was developed to group vegetated wetlands, commonly referred to as marshes, swamps, bogs, and prairies. This system includes ponds and may be situated shoreward of lakes, river channels, estuaries, and river floodplains or in isolated catchments or on slopes (Cowardin et. al., 1979). All of the wetlands identified along the Project route are classified as palustrine systems (*see* sections below).

A brief description of the wetland cover types and associated vegetative communities crossed by the Project are detailed in Section below. Wetlands in the Project area are listed in Table 2.4-1 by identification numbers, MPs, and cover type(s). The table also provides calculated temporary and permanent wetland effects associated with the construction and operation of the Project, which are further discussed in Section 2.4.4. Table 2.4-2 provides a summary of wetland effects by wetland type for the Project.

**Palustrine Forested Wetlands (PFO)**

Palustrine forested wetlands are characterized by woody vegetation that is 6 meters (approximately 20 feet) tall or taller and normally include an overstory of trees, an understory of young trees or shrubs, and an herbaceous layer (Cowardin et. al., 1979). Among the many types of forested wetlands in the U.S. are maple swamps, floodplain or bottomland hardwood swamps, forested bogs, cypress-gum (tupelo) swamps, bay swamps, wet flatwoods, and pine swamps and lowlands (Tiner, 1999). The forested wetlands along the Project are classified as palustrine forested broad-leaved deciduous. The forested wetlands along the route were typically found along floodplains and poorly drained basins (depressions). Generally, these wetlands have seasonally flooded inorganic, poorly drained mineral soils. Plants often associated with forested wetland communities in Ohio and Michigan are: red maple (*Acer rubrum*), slippery elm (*Ulmus rubra*), green ash (*Fraxinus pennsylvanica*), black willow (*Salix nigra*), eastern cottonwood (*Populus deltoides*), pin oak (*Quercus palustris*), shagbark hickory (*Carya ovata*), silver maple (*Acer sacharinum*), and box elder (*Acer negundo*). Shrub species observed in PFO wetlands can consist of spice bush (*Lindera benzoin*), multiflora rose (*Rosa multiflora*) and redoiser dogwood (*Cornus sericea*). Depending on canopy cover, hydrology and soil characteristics, the following species can be observed as an herb layer in PFO wetlands: skunk cabbage (*Symplocarpus foetidus*), fowl mannagrass (*Glyceria striata*), stout wood reed (*Cinna arundinacea*), garlic mustard (Allaria petiolata), white avens (Geum canadense), sensitive fern (*Onoclea sensibilis*), poison ivy (*Toxidendron redicans*), jewel weed (*Impatiens capensis*) and various *Carex* species.

**Palustrine Scrub-Shrub Wetlands (PSS)**

Scrub-shrub wetlands are dominated by woody vegetation less than 20 feet in height (Cowardin et. al., 1979). The species found in PSS wetlands include true shrubs, saplings, young trees, and trees or shrubs that are small or stunted because of environmental conditions. Scrub-shrub wetlands may include habitats where the climax community consists of shrub species such as a buttonbush swamp, or where secondary-growth habitat composed of shrub or sapling species is present due to recent disturbance. In cases of disturbance or where individuals do not reach 20 feet due to other environmental conditions, sapling species composition for scrub-shrub wetlands may overlap with species described above for forested wetlands. These shrub dominated wetlands are commonly called bogs, pocosins, shrub-carrs, or simply shrub swamps (Tiner, 1999). Vegetation communities for PSS wetlands in Ohio and Michigan consisted of the following species: steeple bush (*Spiraea tomentosa*), redoiser dogwood, silky dogwood (*Cornus amomum*), green ash, red maple, black raspberry (*Rubus occidentalis*), red raspberry (*Rubus idaeus*), multiflora rose and various species of willow (*Salix* sp).

**Palustrine Emergent Wetlands (PEM)**

PEM wetlands are non-tidal wetlands characterized by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. PEM wetlands usually are dominated by perennial plants (Cowardin et. al., 1979). These wetlands are commonly referred to by a host of terms, including marsh, wet meadow, fen, and vernal pool. Marshes represent emergent wetlands that are flooded for all or most of the year. Fens are seasonally flooded and saturated emergent wetlands. In the southern region of the U.S. these wetlands may be called sedge meadows where sedges predominate or wet meadows where grasses and other species abound. Virtually treeless grasslands called savannahs are present in the Atlantic and Gulf Coastal Plain Region (Tiner, 1999).

In the Project area, emergent wetlands were the most common wetland designation, often occurring in conjunction with other wetland types (PSS, PFO) and also along open water or streams/rivers. Many emergent wetlands throughout the Project occur within agricultural fields (both active and fallow) and therefore have altered hydrology. Emergent wetlands were also located within existing utility corridors throughout the Project area. This specific wetland type has a variety of species that occupy it, and the following list of species are the most common species observed in PEM wetlands throughout Ohio and Michigan: jewel weed, deer tongue grass (*Dichanthelium clandestinum*), tearthumb (*Polygonum sp.*) Joe pye weed (*Eupatorium purpureum*), reed canary grass (*Phalaris arundinacae*), rice cut grass (*Leersia oryzoides*), common rush (*Juncus effusus*), fowl mannagrass, woolgrass (*Scirpus cyperinus*), Canada goldenrod (*Solidago canadensis*), sensitive fern, narrowleaf cattail (*Typha angustifolia*), bluejoint grass (*Calamagrostis canadensis*), gray's sedge (*Carex grayii*), poison ivy (*Toxidendron radicans*), Frank's sedge (*Carex frankii*), green bulrush (*Scirpus atrovirens*) and common reed (*Phragmites australis*).

**Palustrine Unconsolidated Bottom Wetland (PUB) Associations**

The palustrine unconsolidated bottom cover type includes wetlands with at least 25 percent cover of particles smaller than stones, and a vegetative cover less than 30 percent (Cowardin et al., 1979). A small number of PUBs were identified along the route and include small, shallow depression areas which are seasonally to permanently flooded. These PUB areas are generally anthropogenic in origin and are the result of mining activity, railroad or road construction excavations, and agricultural activities. PUB areas are dominated by mineral soils with a small percentage of the soil surface covered by vegetation. Generally the edges of the PUB components are vegetated with either emergent or shrub species.

**Forested/Scrub-Shrub/Emergent Wetlands**

Some wetlands are best characterized as having co-dominance between vegetation types, such as a mixed forest and scrub-shrub communities. On NWI maps, these can appear as PFO/PSS, PFO/PEM, and PSS/PEM and may occur as adjacent communities within a single wetland, or a single co-dominant community. Communities with mixed dominance are composed of vegetation similar to that described above for separate forested, emergent, and scrub-shrub wetlands.

### 2.4.2 Wetlands Crossed by the Project Facilities

NEXUS has identified a total of 456 wetlands located along the Project route. As described in Section 2.4.1 above, sixty-two percent of the Project was surveyed in the field for the presence of wetland as incorporated as part of this Draft Resource Report 2 and the remaining thirty-eight percent was surveyed using desktop analysis. Field surveys are currently ongoing and NEXUS will provide revised wetland crossing information in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015.

NEXUS has designed the Project route to avoid and minimize effects on wetlands to the extent practicable and there are no permanent wetland impacts associated with construction or operation of the proposed facilities. In additional, NEXUS is proposing eleven HDD crossings that will avoid eight wetland crossings

totaling in 0.71 acres of temporary wetland impacts and 0.12 acres of forested wetland conversion avoidance.

NEXUS proposes to implement its E&SCP and SPCC Plan to minimize effects on wetlands, and proposes mitigation where temporary effects are unavoidable, as described in Section 2.4.4. A summary of temporary effects on wetlands is included in Table 2.4-2.

**Pipeline Facilities**

The 456 wetland crossings along the pipeline will result in a total of 106.2 acres of temporary impact to wetland, which includes 53.73 acres of temporary impact to PEM, PSS, and PUB wetland types and 52.47 acres of PFO wetland types. Since hydrologic conditions during operation of the pipeline will be returned to pre-construction conditions, there will be no permanent loss of wetlands. There will, however, be a permanent conversion of 34.06 acres of forested wetlands into emergent or scrub-shrub wetlands as a result of vegetation maintenance of the permanent maintained ROW.

**Temporary and Permanent Access Roads**

NEXUS Project will use existing roads or existing open land as TARs and PARs to the extent practicable, but it is the intention of NEXUS to avoid any access road wetland crossings. Wetland and waterbody field surveys have not been completed along access roads at this time but these surveys will be completed in the summer 2015 where landowner access is available. NEXUS will provide the FERC any proposed access road wetland crossings in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015. Proposed access roads are shown on USGS Quadrangle mapping and Project alignment sheets located in Appendix 1A – Volume II-B of Draft Resource Report 1.

**Aboveground Facilities**

Field surveys have been completed at the four compressor station sites. Wetlands and waterbodies have been identified at three of the compressor sites (Hanoverton, Wadsworth, and Waterville sites) but these stations and associated temporary workspace have been designed to avoid impacts to these resources. The Clyde Compressor Station has no wetlands on site. Wetland and waterbodies field surveys have not been completed within the M&R Stations at this time but are underway and it is the intention of NEXUS to avoid any wetland and waterbody impacts. NEXUS will provide the FERC wetland and waterbody crossing details associated with aboveground facilities in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015.

**Pipe and Contractor Ware Yards**

The NEXUS Project has identified seven potential pipe and contractor ware yards along the Project. Wetland and waterbody surveys are currently underway, but it is the intention of NEXUS to avoid any waterbody impacts for the use of pipe and contractor yards use. NEXUS will provide the FERC any proposed wetland and waterbody impacts associated with ware yards in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015. Proposed pipe yards and contractor ware yards are shown on USGS Quadrangle mapping located in Appendix 1A.

### 2.4.3 Wetland Construction Methods

NEXUS will protect and minimize potential adverse impacts on wetlands using construction procedures specified within its Project E&SCP (Appendix 1B1 of Draft Resource Report 1).

For wetlands that have firm substrates, are unsaturated and will not be frozen during the time of construction, the top 12 inches of wetland soil over the trenchline will be segregated and stockpiled separate from subsoil. Wetland vegetation will be cut to ground level. Stump removal and grading will be limited to

the area over the trench except where safety conditions dictate additional site preparation on the working side of the ROW. Trench spoils will be temporarily piled in a ridge along the pipeline trench. Gaps in the spoil pile(s) will be left at appropriate intervals to provide for natural circulation or drainage of water.

Temporary trench plugs will be installed in the trench at the edges of the wetland if the possibility exists for sediment-laden water to flow from uplands down the trench and into the wetland. Silt fences and/or straw bales will be installed at the edges of the construction work area if the possibility exists for spoil to flow into undisturbed areas of the wetland. Original topographic conditions and contours will be restored as close to pre-construction conditions as possible after completion of construction. See Section 1.7 of Draft Resource Report 1 for more construction-related information. If dry conditions exist pipe fabrication will occur in wetlands.

Construction methods will minimize the extent and time that construction equipment operates in wetland areas. When wetlands are not saturated at the time of construction, NEXUS requests a variance from the wetland construction procedures in the FERC Procedures (Section VI.B.2.d): Do not trench the wetland until the pipeline is assembled and ready for lowering in. This will allow conventional cross-country construction practices and eliminate the need for additional workspace and added construction time to complete additional tie-in welds, thus ultimately reducing the construction duration and allowing for earlier restoration and revegetation in wetlands and adjacent upland areas.

Should unusually wet weather result in wetland soils that are inundated or saturated to the surface, the pipeline trench will be excavated across the wetland by equipment supported on wooden swamp mats to minimize the disturbance to wetland soils, it may not be possible to stockpile segregated topsoil. In these situations the pipe strings will be fabricated on one bank and either pulled across the excavated trench in the wetland, floated across the wetland, or carried into place and submerged into the trench. This method will minimize the amount of equipment and travel in wetland areas.

#### 2.4.3.1 Construction Workspace Greater than 75 feet within Wetlands

Generally, the typical wetland crossing workspace is reduced from 100 to 75 feet in width for wetland crossing. In some cases, due to constructability issue a 75 foot wetland crossing width cannot be achieved and NEXUS will request deviations from the FERC's Procedures. Table 2.4-3 identifies the locations where deviations from the FERC Procedures requiring a 75 foot construction width in wetlands are required along the Project pipeline facilities.

#### 2.4.3.2 Additional Temporary Workspace

In general, ATWS is typically required on both sides of a wetland crossing to store materials and trench spoil. These work areas will be located at least 50 feet away from the wetland edge, topographic and other site specific conditions permitting and except where the adjacent upland consists of cultivated or rotated cropland or other disturbed land. If conditions do not permit a 50-foot setback where required, NEXUS will request deviations from the FERC's Procedures. Table 2.4-4 identifies the locations where the ATWS wetland setbacks are less than 50 feet from the wetland boundary and site-specific justifications for that workspace. For the ATWS areas located less than 50 feet from the wetland boundary which are not located in adjacent cultivated or rotated cropland or other disturbed land, NEXUS will request a Variance from the FERC Procedures in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015.

### 2.4.4 Wetland Effects and Mitigation

#### 2.4.4.1 Construction Effects

The construction of the NEXUS pipeline will result in a total of 106.2 acres of temporary wetland impacts, which includes 53.73 acres of temporary effect on PEM, PSS and PUB wetlands and 52.47 acres of temporary effect on PFO wetlands. Approximately 34.06 acres of previously forested wetlands will be

permanently converted from forested wetlands into emergent and/or scrub-shrub wetlands as a result of vegetation maintenance of the permanent maintained ROW. The remaining forested wetland will be allowed to revert to a forested state following construction and restoration of the ROW. As described above, approximately 38 percent of the Project area wetland data is approximated using photo interpretation methods. It should be noted that NEXUS used a conservative approach for approximating wetland areas. NEXUS expects a reduction in the total number of wetlands and wetland acres impacted once wetland delineations have been completed along the entire Project.

There are no wetlands impacted by the NEXUS Project compressor stations. At this time, surveys are ongoing at proposed M&R Stations, pipe and contractor wareyards, and temporary and permanent access roads. NEXUS does not anticipate any wetland impacts associated with aboveground facilities and will provide the FERC any proposed wetland and waterbody crossings at these locations in the updated Resource Report 2 to be filed when NEXUS files its NGA 7(c) Certificate Application with the Commission in November 2015. The total Project wetland impacts are summarized in Table 2.4-2. Table 2.4-1 indicates each wetland crossed by the NEXUS Project pipeline facilities.

#### 2.4.4.2 Minimization of Effects

NEXUS will protect and minimize potential adverse effects on wetlands by complying with the applicable permit conditions issued by appropriate federal and state regulatory agencies with respect to construction and operation of the Project facilities within wetlands, and through implementation of the wetland construction procedures described in the Project E&SCP for this Project (Appendix 1B1 of Draft Resource Report 1). These wetland construction procedures are summarized below:

**Expediting Construction In and Around Wetlands**

Expediting construction in and around wetlands will reduce the amount of time wetland soils are exposed, minimizing the opportunity for soil loss and reducing the amount of time during which wetland functions and values are affected.

**Minimizing Vegetation Clearing within Wetlands**

NEXUS has reduced workspace in and around wetlands during construction in accordance with the Commission's requirements. With the exception of areas identified in Table 2.4-3, workspace within wetlands will be reduced to a width of 75 feet. Table 2.4-3 provides a list by MP of any areas where greater than 75 feet of construction workspace will be needed in wetlands and provides site-specific justification for these proposed modifications from the FERC Procedures. In forested wetlands, NEXUS will minimize tree clearing to the extent practicable while maintaining safe construction conditions.

During operation of the Project, wetlands within the ROW will be maintained in accordance with the FERC Procedures.

**Use of Equipment Mats**

Equipment mats will be used to cross most wetlands to minimize the potential for rutting. Soil decompaction would be performed if necessary following removal of mats.

**Segregation of Topsoil**

Effects on wetlands will be minimized by segregating up to the top 12 inches of soil from the non-saturated wetland area disturbed by trenching activities. The topsoil will be restored to its original location immediately after backfilling is complete to preserve the existing seedbank and promote the revegetation of the disturbed area.

**Installation of Erosion Controls**

Erosion controls, including but not limited to silt fence and/or staked BMPs, will be put in place to protect wetlands from sediment from disturbed areas in adjacent uplands during construction. The Project E&SCP provided in Appendix 1B1 of Draft Resource Report 1, describes the erosion and sediment controls that will be utilized to minimize wetland impacts.

**Stabilization and Restoration of Wetlands**

Restoring wetlands to their original configurations and contours, post-construction, will assist in maintaining preconstruction hydrology, minimizing impacts on wetlands. Prompt stabilization of disturbed upland areas adjacent to wetlands will minimize sediment transport into wetlands, protecting wetlands from filling with sediment and maintaining functions and values long-term. Wetlands will be seeded with annual rye to provide soil stabilization while allowing the natural seedbank to revegetate the wetland area. After construction, disturbed wetlands and adjacent uplands will be monitored to ensure long-term stabilization. Regular inspection and maintenance of erosion control measures will expedite successful restoration of the wetland.

**Invasive Species Monitoring and Control**

NEXUS will conduct post-construction maintenance and monitoring of the ROW in affected wetlands to assess the success of restoration and revegetation. Monitoring efforts will include documenting occurrences of exotic invasive species in wetlands to compare to pre-construction conditions. Monitoring will continue for a minimum of three years after construction. If after three years of monitoring the densities of invasive species are documented as being below or consistent with off ROW densities, then NEXUS will cease monitoring activities upon approval from the appropriate regulatory agencies (i.e., USACE, MDEQ, and OEPA). The use of herbicides or pesticides for targeted invasive species control may be implemented if necessary and only in accordance with approval from the applicable regulatory agency. Without such direct approval, herbicides and pesticides will not be used within 100 feet of wetlands or waterbodies. Refer to Draft Resource Report 3 for more information regarding invasive species.

#### 2.4.4.3 Mitigation of Effects

To minimize effects on wetlands, NEXUS will implement the construction procedures described in the Project E&SCP (Appendix 1B of Draft Resource Report 1). In wetlands, vegetation maintenance over the full width of the permanent ROW is prohibited pursuant to the FERC Procedures. During operation of the Project, to facilitate periodic pipeline corrosion/leak surveys, ten feet of the permanent ROW, centered over the pipeline, will be maintained within wetlands at an early successional stage in accordance with Commission requirements. In forested wetlands, NEXUS will minimize tree clearing to the maximum extent practicable while maintaining safe construction conditions. Tree clearing within wetlands will be limited to selectively clearing trees within 15 feet of the pipeline with roots that could compromise the integrity of the pipeline coating. Trees and shrubs that become reestablished beyond 15 feet on either side of the pipeline will not be disturbed.

Within wetlands, the construction corridor will be reduced to a width of 75 feet or less. Access within the ROW across wetlands will only be permitted where the soils are non-saturated and able to support construction equipment at the time of crossing or with the use of equipment mats to avoid rutting of the wetland soil. Effects on wetlands will be minimized by segregating the top 12 inches of soil from the area disturbed by trenching activities, except in areas where standing water is present or soils are saturated. The topsoil will be restored to its original location immediately after backfilling is complete, to preserve the existing seedbank and promote revegetation of the affected area. Seed mixes spread on the restored topsoil for temporary stabilization will include annual rye grass at a rate of 40 pounds per acre (unless standing water is present) or appropriate mixes recommended by the local conservation districts. The use of fertilizers will not be permitted. Erosion controls including silt fence and/or staked BMPs will also be put

in place to protect wetland from sediment disturbed in adjacent uplands during construction. Post-construction, the disturbed area will be monitored to ensure long-term stabilization of the site. The Project E&SCP (Appendix 1B of Draft Resource Report 1) provides additional details on construction practices within wetlands.

NEXUS will protect and minimize potential adverse effects on wetlands by expediting construction in and around wetlands, by restoring wetlands to their original configurations and contours, by segregating topsoil during excavation where applicable, by permanently stabilizing upland areas near wetlands as soon as possible after backfilling, by inspecting the ROW periodically during and after construction and by repairing any erosion control or restoration features until permanent revegetation is successful. NEXUS will comply with the applicable permit conditions issued by federal, state, and local permitting agencies.

In compliance with federal and state regulatory permitting framework relative to wetland protection, NEXUS will develop a Project-specific wetland mitigation plan that will include the purchase of mitigation credits from established wetland banks and the Ohio in-lieu fee program prior to construction. The mitigation plan will provide measures to avoid, minimize, and compensate for temporary and permanent impacts. NEXUS will consult with the applicable federal and state regulatory agencies for guidance during development of the proposed mitigation measures and plans. As additional mitigation measures are developed and submitted as part of the federal and state permit applications, supplemental information will be provided to the Commission.

## 2.5 References


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# TABLES

TABLE 2.2-1

**Aquifers Crossed by the NEXUS Project**

| State and Facility | From Milepost | To Milepost | Crossing Length (mi) a/ | Thickness (feet) b/ | Yield (gpm) c/ | Average Water Depths (Feet) d/ | Aquifer Name | Aquifer Type |
|---|---|---|---|---|---|---|---|---|
| **Ohio** | | | | | | | | |
| *Mainline* | 0.00 | 1.72 | 1.72 | > 100 | 0 to 5 | 95 | Pennsylvanian | Sandstone |
| | 1.72 | 2.21 | 0.49 | ~ 100 | 0 to 5 | 95 | Pennsylvanian | Sandstone |
| | 2.21 | 4.62 | 2.41 | > 100 | 0 to 5 | 95 | Pennsylvanian | Sandstone |
| | 4.62 | 4.72 | 0.10 | ~ 100 | 0 to 5 | 95 | Pennsylvanian | Sandstone |
| | 4.72 | 4.93 | 0.21 | 25 - 100 | < 5 | <95 | Sandy Creek Buried Valley | Sand and Gravel |
| | 4.93 | 9.64 | 4.71 | ~ 100 | 0 to 5 | 95 | Pennsylvanian | Sandstone |
| | 9.64 | 10.69 | 1.06 | > 100 | 5 to 25 | <95 | Mahoning Buried Valley | Sand and Gravel |
| | 10.69 | 10.83 | 0.14 | > 100 | 5 to 25 | <95 | Sandy Creek Buried Valley | Sand and Gravel |
| | 10.83 | 11.22 | 0.38 | > 100 | 5 to 25 | <95 | Sandy Creek Buried Valley | Sand and Gravel |
| | 11.22 | 11.94 | 0.73 | ~ 100 | 0 to 5 | 95 | Pennsylvanian | Sandstone |
| | 11.94 | 15.24 | 3.29 | ~ 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 12.22 | 12.81 | 0.60 | < 100 | 0 to 5 | 95 | Pennsylvanian | Sandstone |
| | 15.24 | 16.83 | 1.59 | > 100 | 5 to 25 | <95 | Mahoning Buried Valley | Sand and Gravel |
| | 16.83 | 17.50 | 0.67 | ~ 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 17.50 | 20.32 | 2.82 | > 100 | 5 to 25 | <95 | Mahoning Buried Valley | Sand and Gravel |
| | 20.32 | 23.43 | 3.11 | > 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 20.32 | 25.90 | 5.58 | ~ 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 25.90 | 26.25 | 0.36 | > 100 | 25 to 100 | <95 | Sandy Creek Buried Valley | Sand and Gravel |
| | 26.25 | 27.25 | 0.99 | > 100 | 25 to 100 | <95 | Kent-Hartville Buried Valley | Sand and Gravel |
| | 27.25 | 28.15 | 0.90 | > 100 | 25 to 100 | 95 | Pennsylvanian | Sandstone |
| | 27.41 | 27.86 | 0.45 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 28.15 | 29.16 | 1.00 | > 100 | 25 to 100 | <95 | Kent-Hartville Buried Valley | Sand and Gravel |

TABLE 2.2-1

**Aquifers Crossed by the NEXUS Project**

| State and Facility | From Milepost | To Milepost | Crossing Length (mi) a/ | Thickness (feet) b/ | Yield (gpm) c/ | Average Water Depths (Feet) d/ | Aquifer Name | Aquifer Type |
|---|---|---|---|---|---|---|---|---|
| | 29.16 | 29.86 | 0.71 | ~ 100 | 5 to 100 | 95 | Pennsylvanian | Sandstone |
| | 29.86 | 30.09 | 0.19 | 25 - 100 | 5 to 25 | <95 | Kent-Hartville Buried Valley | Sand and Gravel |
| | 30.09 | 30.41 | 0.33 | > 100 | 25 to 100 | 95 | Pennsylvanian | Sandstone |
| | 30.41 | 31.46 | 1.05 | 25 - 100 | 25 to 100 | <95 | Kent-Hartville Buried Valley | Sand and Gravel |
| | 31.46 | 32.36 | 0.90 | 25 - 100 | 25 to 100 | <95 | Kent-Hartville Outwash/Kame | Sand and Gravel |
| | 32.36 | 33.06 | 0.70 | > 100 | 25 to 100 | <95 | Portage Lakes Buried Valley | Sand and Gravel |
| | 33.06 | 33.39 | 0.33 | ~ 100 | 5 to 100 | 95 | Pennsylvanian | Sandstone |
| | 33.39 | 33.66 | 0.27 | 25 - 100 | 25 to 100 | <95 | Portage Lakes Outwash/Kame | Sand and Gravel |
| | 33.66 | 35.08 | 1.42 | ~ 100 | 5 to 100 | 95 | Pennsylvanian | Sandstone |
| | 35.08 | 35.89 | 0.81 | 25 - 100 | 25 to 100 | <95 | Portage Lakes Outwash/Kame | Sand and Gravel |
| | 35.89 | 39.17 | 3.28 | > 100 | 25 to 100 | <95 | Portage Lakes Buried Valley | Sand and Gravel |
| | 39.17 | 39.98 | 0.82 | > 100 | 5 to 25 | <95 | Portage Lakes Buried Valley | Sand and Gravel |
| | 39.98 | 40.32 | 0.34 | > 100 | 25 to 100 | 95 | Pennsylvanian | Sandstone |
| | 40.32 | 40.48 | 0.16 | > 100 | 25 to 100 | <95 | Tuscarawas Buried Valley | Sand and Gravel |
| | 40.48 | 41.87 | 1.38 | > 100 | 25 to 100 | 95 | Pennsylvanian | Sandstone |
| | 41.87 | 42.23 | 0.37 | > 100 | 25 to 100 | <95 | Tuscarawas Buried Valley | Sand and Gravel |
| | 42.23 | 43.07 | 0.84 | > 100 | 25 to 100 | 95 | Pennsylvanian | Sandstone |
| | 43.07 | 43.17 | 0.10 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 43.17 | 43.47 | 0.31 | > 100 | 25 to 100 | <95 | Tuscarawas Buried Valley | Sand and Gravel |
| | 43.47 | 43.64 | 0.17 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 43.64 | 43.66 | 0.02 | > 100 | 25 to 100 | 95 | Pennsylvanian | Sandstone |
| | 43.66 | 43.76 | 0.10 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 43.76 | 44.64 | 0.88 | > 100 | 25 to 100 | 95 | Pennsylvanian | Sandstone |

TABLE 2.2-1

**Aquifers Crossed by the NEXUS Project**

| State and Facility | From Milepost | To Milepost | Crossing Length (mi) a/ | Thickness (feet) b/ | Yield (gpm) c/ | Average Water Depths (Feet) d/ | Aquifer Name | Aquifer Type |
|---|---|---|---|---|---|---|---|---|
| | 44.64 | 44.71 | 0.07 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 44.71 | 45.71 | 1.00 | > 100 | 25 to 100 | 95 | Pennsylvanian | Sandstone |
| | 45.71 | 45.78 | 0.07 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 45.78 | 46.10 | 0.32 | > 100 | 25 to 100 | <95 | Tuscarawas Buried Valley | Sand and Gravel |
| | 46.10 | 47.07 | 0.97 | > 100 | 5 to 25 | <95 | Tuscarawas Buried Valley | Sand and Gravel |
| | 47.07 | 47.34 | 0.27 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 47.34 | 48.93 | 1.58 | > 100 | 25 to 100 | 95 | Pennsylvanian | Sandstone |
| | 48.93 | 48.93 | 0.01 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 48.93 | 50.22 | 1.28 | > 100 | 5 to 25 | <95 | Chippewa Buried Valley | Sand and Gravel |
| | 50.22 | 50.29 | 0.07 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 50.29 | 51.85 | 1.56 | > 100 | 25 to 100 | 95 | Pennsylvanian | Sandstone |
| | 51.85 | 52.59 | 0.74 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 52.59 | 53.06 | 0.46 | > 100 | 5 to 25 | 95 | Mississippian | Sandstone |
| | 53.06 | 53.35 | 0.29 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |
| | 53.35 | 54.14 | 0.80 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 54.14 | 54.70 | 0.56 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |
| | 54.70 | 55.69 | 0.99 | > 100 | 100 to 500 | <95 | Chippewa Buried Valley | Sand and Gravel |
| | 55.69 | 56.40 | 0.71 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |
| | 56.40 | 56.77 | 0.36 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 56.77 | 57.05 | 0.28 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |
| | 57.05 | 57.47 | 0.42 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 57.47 | 57.71 | 0.24 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |
| | 57.71 | 58.01 | 0.30 | > 100 | 5 to 25 | <95 | Chippewa Buried Valley | Sand and Gravel |
| | 58.01 | 58.73 | 0.72 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |

TABLE 2.2-1

**Aquifers Crossed by the NEXUS Project**

| State and Facility | From Milepost | To Milepost | Crossing Length (mi) a/ | Thickness (feet) b/ | Yield (gpm) c/ | Average Water Depths (Feet) d/ | Aquifer Name | Aquifer Type |
|---|---|---|---|---|---|---|---|---|
| | 58.73 | 61.52 | 2.80 | < 100 | 5 to 25 | 95 | Pennsylvanian | Sandstone |
| | 61.52 | 61.78 | 0.26 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |
| | 61.78 | 62.00 | 0.22 | > 100 | 5 to 25 | <95 | Chippewa Buried Valley | Sand and Gravel |
| | 62.00 | 62.17 | 0.16 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |
| | 62.17 | 62.60 | 0.43 | > 100 | 5 to 25 | <95 | Chippewa Buried Valley | Sand and Gravel |
| | 62.60 | 64.19 | 1.60 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |
| | 64.19 | 65.08 | 0.88 | > 100 | 5 to 25 | <95 | Chippewa Buried Valley | Sand and Gravel |
| | 65.08 | 67.50 | 2.42 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |
| | 67.50 | 67.88 | 0.38 | > 100 | 25 to 100 | <95 | Chippewa Buried Valley | Sand and Gravel |
| | 67.88 | 68.63 | 0.75 | > 100 | 5 to 25 | <95 | Chippewa Buried Valley | Sand and Gravel |
| | 68.63 | 70.39 | 1.76 | > 100 | 25 to 100 | 95 | Mississippian | Sandstone |
| | 70.39 | 77.36 | 6.97 | > 100 | 5 to 25 | 95 | Mississippian | Sandstone |
| | 77.36 | 80.46 | 3.10 | > 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 80.46 | 86.41 | 5.95 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 86.41 | 87.24 | 0.82 | > 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 87.24 | 88.17 | 0.93 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 88.17 | 88.67 | 0.50 | > 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 88.67 | 88.68 | 0.01 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 88.68 | 88.86 | 0.18 | > 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 88.86 | 89.03 | 0.18 | 25 - 100 | 5 to 25 | <95 | Black River Buried Valley | Sand and Gravel |
| | 89.03 | 89.29 | 0.26 | > 100 | 5 to 25 | <95 | Black River Buried Valley | Sand and Gravel |
| | 89.29 | 90.97 | 1.68 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 90.97 | 91.23 | 0.26 | < 100 | 5 to 25 | 95 | Mississippian | Sandstone |
| | 91.23 | 91.85 | 0.62 | > 100 | 0 to 5 | 95 | Mississippian | Sandstone |

TABLE 2.2-1

**Aquifers Crossed by the NEXUS Project**

| State and Facility | From Milepost | To Milepost | Crossing Length (mi) a/ | Thickness (feet) b/ | Yield (gpm) c/ | Average Water Depths (Feet) d/ | Aquifer Name | Aquifer Type |
|---|---|---|---|---|---|---|---|---|
| | 91.85 | 92.68 | 0.83 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 92.68 | 93.08 | 0.39 | > 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 93.08 | 96.25 | 3.17 | < 100 | 5 to 25 | 95 | Mississippian | Sandstone |
| | 96.25 | 96.40 | 0.15 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 96.40 | 96.63 | 0.23 | > 100 | 0 to 5 | 95 | Devonian | Carbonate |
| | 96.63 | 97.49 | 0.86 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 97.49 | 98.21 | 0.72 | > 100 | 0 to 5 | 95 | Devonian | Carbonate |
| | 98.21 | 99.02 | 0.82 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 99.02 | 100.15 | 1.12 | < 100 | 5 to 25 | 95 | Mississippian | Sandstone |
| | 100.15 | 100.59 | 0.44 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 100.59 | 101.12 | 0.53 | < 100 | 5 to 25 | 95 | Mississippian | Sandstone |
| | 101.12 | 101.82 | 0.71 | > 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 101.82 | 101.97 | 0.15 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 101.97 | 102.03 | 0.06 | < 100 | 5 to 25 | 95 | Mississippian | Sandstone |
| | 102.03 | 102.36 | 0.33 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 102.36 | 103.33 | 0.97 | > 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 103.33 | 103.92 | 0.59 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 103.92 | 104.57 | 0.65 | < 100 | 5 to 25 | 95 | Mississippian | Sandstone |
| | 104.57 | 105.79 | 1.22 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 105.79 | 106.89 | 0.90 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 106.89 | 107.97 | 1.08 | < 100 | 5 to 25 | 95 | Mississippian | Sandstone |
| | 107.97 | 108.10 | 0.13 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| | 108.10 | 110.15 | 2.05 | > 100 | 0 to 5 | 95 | Devonian | Carbonate |
| | 110.15 | 110.47 | 0.33 | 25 - 100 | 5 to 25 | <95 | Norwalk Buried Valley | Sand and Gravel |
| | 110.47 | 112.24 | 1.77 | > 100 | 25 to 100 | <95 | Norwalk Buried Valley | Sand and Gravel |

TABLE 2.2-1

**Aquifers Crossed by the NEXUS Project**

| State and Facility | From Milepost | To Milepost | Crossing Length (mi) a/ | Thickness (feet) b/ | Yield (gpm) c/ | Average Water Depths (Feet) d/ | Aquifer Name | Aquifer Type |
|---|---|---|---|---|---|---|---|---|
| | 112.24 | 112.69 | 0.45 | 25 - 100 | 5 to 25 | <95 | Norwalk Buried Valley | Sand and Gravel |
| | 112.69 | 119.99 | 7.31 | > 100 | 0 to 5 | 95 | Devonian | Carbonate |
| | 119.99 | 121.83 | 1.84 | ~ 100 | 0 to 100 | 95 | Devonian | Carbonate |
| | 121.83 | 122.18 | 0.35 | > 100 | 25 to 100 | 95 | Devonian | Carbonate |
| | 122.18 | 137.07 | 14.89 | ~ 100 | 0 to 100 | 95 | Silurian | Carbonate |
| | 137.07 | 137.16 | 0.09 | > 100 | 5 to 25 | <95 | Green Creek Buried Valley | Sand and Gravel |
| | 137.16 | 137.34 | 0.18 | > 100 | 5 to 25 | <95 | Green Creek Buried Valley | Sand and Gravel |
| | 137.34 | 138.55 | 1.21 | > 100 | 5 to 25 | <95 | Green Creek Buried Valley | Sand and Gravel |
| | 138.55 | 156.91 | 18.36 | ~ 100 | 0 to 100 | 95 | Silurian | Carbonate |
| | 156.91 | 171.23 | 14.32 | ~ 100 | 0 to 100 | 95 | Silurian | Carbonate |
| | 171.23 | 181.29 | 10.06 | ~ 100 | 0 to 100 | 95 | Silurian | Carbonate |
| | 181.29 | 181.48 | 0.19 | 25 - 100 | 5 to 25 | <95 | Oak Openings Beech Ridge | Sand and Gravel |
| | 181.48 | 190.98 | 9.50 | 25 - 100 | 25 to 100 | <95 | Oak Openings Beech Ridge | Sand and Gravel |
| | 190.98 | 193.18 | 2.20 | ~ 100 | 0 to 25 | 95 | Devonian | Carbonate |
| | 193.18 | 197.76 | 4.57 | > 100 | 0 to 5 | 95 | Devonian | Carbonate |
| | 197.76 | 202.81 | 5.06 | < 100 | 0 to 5 | 95 | Mississippian | Sandstone |
| **Michigan** | | | | | | | | |
| *Mainline* | 202.81 | 225.97 | 23.16 | N/A | N/A | N/A | Confining Unit | N/A |
| | 225.97 | 234.89 | 8.92 | < 25 | < 5 | 95 | Silurian-Devonian | Carbonate |
| | 234.89 | 237.85 | 2.96 | N/A | N/A | N/A | Confining Unit | N/A |
| | 237.85 | 245.49 | 7.64 | < 25 | < 5 | 95 | Silurian-Devonian | Carbonate |
| | 245.49 | 249.00 | 4.51 | N/A | N/A | N/A | Confining Unit | N/A |
| **Ohio** | | | | | | | | |
| TGP Interconnecting Pipeline | 0.00 | 0.89 | 0.89 | > 100 | 0 to 5 | 95 | Pennsylvanian | Sandstone |

TABLE 2.2-1

**Aquifers Crossed by the NEXUS Project**

| State and Facility | From Milepost | To Milepost | Crossing Length (mi) a/ | Thickness (feet) b/ | Yield (gpm) c/ | Average Water Depths (Feet) d/ | Aquifer Name | Aquifer Type |
|---|---|---|---|---|---|---|---|---|

a/ Any minor discrepancies in totals are due to rounding.
b/ Some Sandstone and Carbonate aquifers GIS layers provided by ODNR overlap and the aquifer thickness was averaged and indicated as "'~ ".
c/ Some Sandstone and Carbonate aquifers GIS layers provided by ODNR overlap and the aquifer yields were grouped into broader range (i.e. 0-100).
d/ Due to varying conditions, aquifer water depths are approximated.

Table 2.2-2

**Wells Located within 150 Feet and Wellhead Protection Areas Crossed by the NEXUS Project**

| State, Facility, and MP | County | Approximate Distance from Construction Workspace (feet) a/ | Workspace Crossing Wellhead Protected Area (Yes/No) | Workspace Crossing Length on Wellhead (feet) | Type |
|---|---|---|---|---|---|
| **Ohio** | | | | | |
| *Mainline* | | | | | |
| 2.2 | Columbiana | 25 | No | N/A | Private |
| 3.4 | Columbiana | 85 | No | N/A | Private |
| 3.4 | Columbiana | 142 | No | N/A | Private |
| 4.4 | Columbiana | 65 | No | N/A | Private |
| 4.7 | Columbiana | 43 | No | N/A | Private |
| 4.9 | Columbiana | 147 | No | N/A | Private |
| 6.1 | Columbiana | 42 | No | N/A | Private |
| 6.2 | Columbiana | 6 | No | N/A | Private |
| 6.2 | Columbiana | 8 | No | N/A | Private |
| 6.2 | Columbiana | 11 | No | N/A | Private |
| 6.3 | Columbiana | 103 | No | N/A | Private |
| 6.6 | Columbiana | 30 | No | N/A | Private |
| 6.8 | Columbiana | 65 | No | N/A | Private |
| 11.2 | Columbiana | 20 | No | N/A | Private |
| 11.6 | Columbiana | 42 | No | N/A | Private |
| 14.5 | Stark | 79 | No | N/A | Private |
| 22.5 | Stark | 53 | No | N/A | Private |
| 22.9 | Stark | 23 | No | N/A | Private |
| 26.0 | Stark | 33 | No | N/A | Private |
| 26.8 | Stark | 22 | No | N/A | Private |
| 27.2 | Stark | 104 | No | N/A | Private |
| 30.0 | Stark | 21 | No | N/A | Private |
| 39.0 | Summit | 121 | No | N/A | Private |
| 39.2 | Summit | 17 | No | N/A | Private |
| 45.9 | Summit | 142 | No | N/A | Private |
| 50.3 | Wayne | >150 | Yes | 318 | Public |
| 50.4 | Wayne | >150 | Yes | 318 | Private |
| 56.6 | Medina | 109 | No | N/A | Private |
| 59.4 | Medina | 48 | No | N/A | Private |
| 59.5 | Medina | 9 | No | N/A | Private |
| 59.6 | Medina | 8 | No | N/A | Private |
| 66.1 | Medina | >150 | Yes | 845 | Public |
| 66.1 | Medina | >150 | Yes | 845 | Public |
| 66.2 | Medina | >150 | Yes | 845 | Public |

Table 2.2-2

**Wells Located within 150 Feet and Wellhead Protection Areas Crossed by the NEXUS Project**

| State, Facility, and MP | County | Approximate Distance from Construction Workspace (feet) a/ | Workspace Crossing Wellhead Protected Area (Yes/No) | Workspace Crossing Length on Wellhead (feet) | Type |
|---|---|---|---|---|---|
| 63.4 | Medina | 125 | No | N/A | Private |
| 89.2 | Lorain | 36 | No | N/A | Private |
| 116.3 | Erie | 0 | No | N/A | Private |
| 129.7 | Sandusky | 0 | No | N/A | Private |
| **Michigan** | | | | | |
| *Mainline* | | | | | |
| 221.9 | Lenawee | 0 | No | N/A | Private |
| 222.5 | Lenawee | 28 | No | N/A | Private |
| 225.6 | Monroe | 107 | No | N/A | Private |
| 226.8 | Monroe | 120 | No | N/A | Private |
| 227.4 | Monroe | 68 | No | N/A | Private |
| 229 | Monroe | 89 | No | N/A | Private |
| 229.1 | Monroe | 49 | No | N/A | Private |
| 230.6 | Monroe | 150 | No | N/A | Private |
| 231.9 | Washtenaw | 117 | Yes | 1225 | Private |
| 236 | Washtenaw | 115 | No | N/A | Private |
| 239.4 | Washtenaw | 57 | No | N/A | Private |
| 239.4 | Washtenaw | 0 | No | N/A | Private |
| 239.5 | Washtenaw | 0 | No | N/A | Private |
| 241.6 | Washtenaw | 135 | No | N/A | Private |
| 244.7 | Washtenaw | 0 | No | N/A | Private |
| 244.7 | Washtenaw | 0 | No | N/A | Public |
| 244.7 | Washtenaw | 28 | No | N/A | Public |
| 249 | Washtenaw | 87 | No | N/A | Private |
| **Michigan** | | | | | |
| *Aboveground Facilities* | | | | | |
| MP 249 – NEXUS/ Willow Run M&R Station | Washtenaw | 103 | No | N/A | Private |
| **Michigan** | | | | | |
| *Pipe Yards and Contractor Ware Yards* | | | | | |
| MP 223 - Yard 4-1 | Lenawee | 0 | No | N/A | Private |
| MP 223 - Yard 4-1 | Monroe | 88 | No | N/A | Private |
| MP 223 - Yard 4-1 | Monroe | 83 | No | N/A | Private |

a/ distance measured from edge of NEXUS Project workspace to water well.

TABLE 2.3-1

**Watersheds Crossed by the NEXUS Project**

| State, Facility | From MP | To MP | Crossing Length (mi) | HUC 12 Identifier | HUC12 Name | HUC 8 Identifier |
|---|---|---|---|---|---|---|
| **Ohio** | | | | | | |
| *Mainline* | 0 | 0.34 | 0.34 | 050400010406 | Brush Creek | 5030101 |
| | 0.34 | 4.26 | 3.92 | 050400010401 | Headwaters Sandy Creek | 5040001 |
| | 4.26 | 6.57 | 2.32 | 050301030101 | Conser Run | 5040001 |
| | 6.57 | 8.74 | 2.16 | 050400010402 | Beaver Run-Mahoning River | 5030103 |
| | 8.74 | 13.77 | 5.04 | 050301030102 | Middle Branch Sandy Creek | 5040001 |
| | 13.77 | 14.29 | 0.52 | 050301030103 | Beech Creek | 5030103 |
| | 14.29 | 14.34 | 0.04 | 050301030102 | Fish Creek-Mahoning River | 5030103 |
| | 14.34 | 20.54 | 6.2 | 050400010501 | Beech Creek | 5030103 |
| | 20.54 | 25.83 | 5.29 | 050400010504 | Swartz Ditch-Middle Branch Nimishillen Creek | 5040001 |
| | 25.83 | 25.85 | 0.02 | 050400010501 | City of Canton-Middle Branch Nimishillen Creek | 5040001 |
| | 25.85 | 27.7 | 1.85 | 050400010503 | Swartz Ditch-Middle Branch Nimishillen Creek | 5040001 |
| | 27.7 | 32.27 | 4.57 | 050400010101 | West Branch Nimishillen Creek | 5040001 |
| | 32.27 | 32.34 | 0.07 | 050400010503 | Headwaters Tuscarawas River | 5040001 |
| | 32.34 | 32.73 | 0.39 | 050400010101 | West Branch Nimishillen Creek | 5040001 |
| | 32.73 | 33.82 | 1.09 | 050400010503 | Headwaters Tuscarawas River | 5040001 |
| | 33.82 | 34.02 | 0.2 | 050400010101 | West Branch Nimishillen Creek | 5040001 |
| | 34.02 | 34.58 | 0.57 | 050400010302 | Headwaters Tuscarawas River | 5040001 |
| | 34.58 | 39.31 | 4.72 | 050400010303 | Nimisila Reservoir-Nimisila Creek | 5040001 |
| | 39.31 | 43.77 | 4.46 | 050400010301 | Lake Lucern-Nimisila Creek | 5040001 |
| | 43.77 | 48.64 | 4.88 | 050400010207 | Pancake Creek-Tuscarawas River | 5040001 |
| | 48.64 | 53.96 | 5.32 | 050400010204 | Silver Creek-Chippewa Creek | 5040001 |
| | 53.96 | 57.46 | 3.5 | 050400010205 | River Styx | 5040001 |
| | 57.46 | 59.97 | 2.51 | 050400010202 | Tommy Run-Chippewa Creek | 5040001 |
| | 59.97 | 60.79 | 0.82 | 050400010205 | Hubbard Creek-Chippewa Creek | 5040001 |
| | 60.79 | 61.1 | 0.31 | 050400010202 | Tommy Run-Chippewa Creek | 5040001 |
| | 61.1 | 65.23 | 4.14 | 050400010201 | Hubbard Creek-Chippewa Creek | 5040001 |
| | 65.23 | 69.63 | 4.4 | 041100010104 | Headwaters Chippewa Creek | 5040001 |
| | 69.63 | 74.56 | 4.93 | 041100010106 | Mallet Creek | 4110001 |
| | 74.56 | 76.51 | 1.95 | 041100010402 | Cossett Creek-West Branch Rocky River | 4110001 |
| | 76.51 | 81.31 | 4.8 | 041100010404 | Salt Creek-East Branch Black River | 4110001 |
| | 81.31 | 83.7 | 2.39 | 041100010506 | Jackson Ditch-East Branch Black River | 4110001 |
| | 83.7 | 88.13 | 4.44 | 041100010503 | Lower West Branch Black River | 4110001 |
| | 88.13 | 88.49 | 0.36 | 041100010504 | Wellington Creek | 4110001 |
| | 88.49 | 91.35 | 2.86 | 041100010505 | Middle West Branch Black River | 4110001 |

TABLE 2.3-1

**Watersheds Crossed by the NEXUS Project**

| State, Facility | From MP | To MP | Crossing Length (mi) | HUC 12 Identifier | HUC12 Name | HUC 8 Identifier |
|---|---|---|---|---|---|---|
| | 91.35 | 93.76 | 2.41 | 041100010701 | Plum Creek | 4110001 |
| | 93.76 | 95.38 | 1.62 | 041000120202 | Headwaters Beaver Creek | 4110001 |
| | 95.38 | 99.66 | 4.29 | 041000120203 | East Fork Vermilion River | 4100012 |
| | 99.66 | 101.33 | 1.67 | 041000120302 | Town of Wakeman-Vermilion River | 4100012 |
| | 101.33 | 102.89 | 1.55 | 041000120304 | Chappel Creek | 4100012 |
| | 102.89 | 104.66 | 1.78 | 041000120302 | Old Woman Creek | 4100012 |
| | 104.66 | 105.17 | 0.51 | 041000120304 | Chappel Creek | 4100012 |
| | 105.17 | 105.39 | 0.21 | 041000120302 | Old Woman Creek | 4100012 |
| | 105.39 | 106.99 | 1.6 | 041000120304 | Chappel Creek | 4100012 |
| | 106.99 | 110.88 | 3.89 | 041000120606 | Old Woman Creek | 4100012 |
| | 110.88 | 115.77 | 4.89 | 041000110101 | Huron River-Frontal Lake Erie | 4100012 |
| | 115.77 | 119.57 | 3.8 | 041000110102 | Sawmill Creek | 4100011 |
| | 119.57 | 123.36 | 3.79 | 041000110103 | Pipe Creek-Frontal Sandusky Bay | 4100011 |
| | 123.36 | 126.92 | 3.56 | 041000110202 | Mills Creek | 4100011 |
| | 126.92 | 131.27 | 4.35 | 041000110203 | Strong Creek | 4100011 |
| | 131.27 | 133.88 | 2.61 | 041000110204 | Pickerel Creek | 4100011 |
| | 133.88 | 135.69 | 1.81 | 041000110205 | Raccoon Creek | 4100011 |
| | 135.69 | 136.95 | 1.27 | 041000111203 | South Creek | 4100011 |
| | 136.95 | 137.95 | 0.99 | 041000111303 | Green Creek | 4100011 |
| | 137.95 | 142.24 | 4.29 | 041000111403 | Mouth Sandusky River | 4100011 |
| | 142.24 | 142.4 | 0.16 | 041000111301 | Little Muddy Creek | 4100011 |
| | 142.4 | 143.32 | 0.93 | 041000111403 | Muskellunge Creek | 4100011 |
| | 143.32 | 146.19 | 2.87 | 041000111404 | Little Muddy Creek | 4100011 |
| | 146.19 | 146.67 | 0.48 | 041000111403 | Town of Lindsey-Muddy Creek | 4100011 |
| | 146.67 | 146.97 | 0.3 | 041000111404 | Little Muddy Creek | 4100011 |
| | 146.97 | 149.75 | 2.77 | 041000100501 | Town of Lindsey-Muddy Creek | 4100011 |
| | 149.75 | 151.34 | 1.6 | 041000100502 | Little Portage River | 4100010 |
| | 151.34 | 153.1 | 1.76 | 041000100401 | Portage River | 4100010 |
| | 153.1 | 155.2 | 2.1 | 041000100402 | Sugar Creek | 4100010 |
| | 155.2 | 158.42 | 3.22 | 041000100601 | Larcarpe Creek Outlet #4-Portage River | 4100010 |
| | 158.42 | 163.89 | 5.47 | 041000100602 | Upper Tousant Creek | 4100010 |
| | 163.89 | 164.2 | 0.31 | 041000100601 | Packer Creek | 4100010 |
| | 164.2 | 164.25 | 0.05 | 041000100602 | Upper Tousant Creek | 4100010 |
| | 164.25 | 168.53 | 4.28 | 041000100703 | Packer Creek | 4100010 |
| | 168.53 | 171.29 | 2.76 | 041000090901 | Cedar Creek-Frontal Lake Erie | 4100010 |
| | 171.29 | 173.34 | 2.05 | 041000090603 | Grassy Creek Diversion | 4100009 |

TABLE 2.3-1

**Watersheds Crossed by the NEXUS Project**

| State, Facility | From MP | To MP | Crossing Length (mi) | HUC 12 Identifier | HUC12 Name | HUC 8 Identifier |
|---|---|---|---|---|---|---|
| | 173.34 | 176.89 | 3.55 | 041000090804 | Haskins Road Ditch-Maumee River | 4100009 |
| | 176.89 | 177.81 | 0.92 | 041000090802 | Heilman Ditch-Swan Creek | 4100009 |
| | 177.81 | 181.81 | 4 | 041000090801 | Lower Blue Creek | 4100009 |
| | 181.81 | 184.48 | 2.66 | 041000090802 | Upper Blue Creek | 4100009 |
| | 184.48 | 184.56 | 0.08 | 041000090801 | Lower Blue Creek | 4100009 |
| | 184.56 | 188.31 | 3.75 | 041000090702 | Upper Blue Creek | 4100009 |
| | 188.31 | 192.37 | 4.06 | 041000090701 | Fewless Creek-Swan Creek | 4100009 |
| | 192.37 | 198.1 | 5.73 | 041000010303 | Ai Creek | 4100009 |
| | 198.1 | 200.47 | 2.37 | 041000010304 | Prairie Ditch | 4100001 |
| Michigan | 200.47 | 203.93 | 3.46 | 041000020307 | Headwaters Tenmile Creek | 4100001 |
| | 203.93 | 213.44 | 9.51 | 041000020308 | Floodwood Creek-River Raisin | 4100002 |
| | 213.44 | 214.44 | 1 | 041000020309 | Camp Drain-River Raisin | 4100002 |
| | 214.44 | 218.78 | 4.34 | 041000020405 | Little River Raisin | 4100002 |
| | 218.78 | 221.32 | 2.54 | 041000020408 | South Branch Macon Creek | 4100002 |
| | 221.32 | 223.35 | 2.03 | 041000020404 | Macon Creek | 4100002 |
| | 223.35 | 224 | 0.65 | 041000020408 | Headwaters Macon Creek | 4100002 |
| | 224 | 226.05 | 2.06 | 041000020406 | Macon Creek | 4100002 |
| | 226.05 | 229.09 | 3.04 | 041000020407 | Bear Swamp Creek | 4100002 |
| | 229.09 | 231.15 | 2.06 | 041000020409 | North Branch Macon Creek | 4100002 |
| | 231.15 | 232.19 | 1.04 | 041000010106 | Saline River | 4100002 |
| | 232.19 | 237.01 | 4.82 | 041000010105 | Sugar Creek-Stony Creek | 4100001 |
| | 237.01 | 240.84 | 3.83 | 041000010107 | Paint Creek | 4100001 |
| | 240.84 | 241.29 | 0.45 | 041000010103 | Stony Creek | 4100001 |
| | 241.29 | 242.15 | 0.86 | 041000010102 | Middle Creek-Swan Creek | 4100001 |
| | 242.15 | 243.33 | 1.17 | 040900050405 | North Branch Swan Creek | 4100001 |
| | 243.33 | 243.72 | 0.4 | 040900050404 | Griggs Drain-Huron River | 4090005 |
| | 243.72 | 245.19 | 1.47 | 040900050403 | Belleville Lake-Huron River | 4090005 |
| | 245.19 | 245.53 | 0.34 | 040900050404 | Ford Lake-Huron River | 4090005 |
| | 245.53 | 246.5 | 0.98 | 040900050403 | Belleville Lake-Huron River | 4090005 |
| | 246.5 | 247.59 | 1.08 | 040900050404 | Ford Lake-Huron River | 4090005 |
| | 247.59 | 248.19 | 0.61 | 040900040302 | Belleville Lake-Huron River | 4090005 |
| | 248.19 | 249.03 | 0.84 | 050301010503 | Molt Drain-Lower River Rouge | 4090004 |
| *Interconnecting Pipeline to TGP* | 0 | 0.89 | 0.89 | 050301010503 | Brush Creek | 5030101 |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| **Ohio** | | | | | | | | | |
| *Ohio River Basin* | | | | | | | | | |
| ***Columbiana County*** | | | | | | | | | |
| AS-CO-19-A | Trib to Brush Creek | 0.09 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 2 | Wet Cut |
| A14-5-S1 | Sandy Creek | 1.85 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact A | 12 | Bore |
| A14-5-S3 | Trib to Sandy Creek | 2.08 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 4 | N/A |
| A14-8-S1 | Trib to Sandy Creek | 3.80 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Wet Cut |
| A14-10-S1 | Conser Run | 4.78 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Bore |
| A14-11-S1 | Trib to Conser Run | 5.16 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| A14-126-S1 | Trib to Conser Run | 5.49 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | N/A |
| A14-126-S1 | Trib to Conser Run | 5.49 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Wet Cut |
| A14-127-S1 | Trib to Conser Run | 5.55 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | N/A |
| A14-127-S1 | Trib to Conser Run | 5.55 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Wet Cut |
| A14-12-S1 | Trib to Conser Run | 6.31 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Dry Cut |
| A14-125-S2 | Trib to Mahoning River | 6.74 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| A14-190-S1 | Trib to Mahoning River | 7.52 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| A14-191-S1 | Trib to Mahoning River | 7.56 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| AS-CO-7 | Trib to Manhoning River | 7.72 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 35 | Dry Cut |
| AS-CO-9 | Trib to Mahoning River | 7.89 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| A14-33-S1 | Trib to Middle Branch Sandy Creek | 8.89 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Wet Cut |
| A14-33-S2 | Trib to Middle Branch Sandy Creek | 8.91 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | N/A |
| A14-193-S1 | Trib to Middle Branch Sandy Creek | 9.17 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| A14-194-S2 | Trib to Middle Branch Sandy Creek | 9.26 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| A14-196-S1 | Trib to Middle Branch Sandy Creek | 9.58 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Wet Cut |
| A14-13-S1 | Trib to Middle Branch Sandy Creek | 9.90 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 2 | Wet Cut |
| A14-15-S1 | Trib to Middle Branch Sandy Creek | 10.37 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| AS-CO-11 | Middle Branch Sandy Creek | 10.75 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Dry Cut |
| AS-CO-12 | Trib to Middle Branch Sandy Creek | 11.25 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| AS-CO-12 | Trib to Middle Branch Sandy Creek | 11.26 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| AS-CO-12A | Trib to Middle Branch Sandy Creek | 11.33 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| AS-CO-12A | Trib to Middle Branch Sandy Creek | 11.49 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| A14-165-S2 | Trib to Woodland Lake | 11.94 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Dry Cut |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| A14-165-S1 | Trib to Woodland Lake | 11.95 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| ***Stark County*** | | | | | | | | | |
| A14-108-S2 | Trib to Middle Branch Sandy Creek | 12.66 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 2 | N/A |
| A14-108-S1 | Trib to Middle Branch Sandy Creek | 12.67 | Intermittent | MInor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| A14-108-S3 | Trib to Middle Branch Sandy Creek | 12.71 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Dry Cut |
| AS-ST-1 | Trib to Middle Branch Sandy Creek | 12.82 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| AP-ST-1 | Trib to Middle Branch Sandy Creek | 12.87 | Perennial | Major | WWH | AWS and IWS | Primary Contact B | 122 | N/A |
| A14-19-S1 | Trib to Middle Branch Sandy Creek | 12.91 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| AS-ST-2 | Trib to Middle Branch Sandy Creek | 13.20 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| AS-ST-7 | Beech Creek | 16.66 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | Dry Cut |
| AS-ST-7A | Trib to Beech Creek | 16.77 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Wet Cut |
| A14-105-S1 | Trib to Beech Creek | 17.27 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Bore |
| A14-103-S1 | Trib to Beech Creek | 17.68 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-ST-8 | Trib to Beech Creek | 18.35 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Dry Cut |
| A14-23-S1 | Trib to Beech Creek | 18.90 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Dry Cut |
| A14-172-S3 | Trib to Beech Creek | 19.53 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 1 | Bore |
| A14-173-S1 | Trib to Beech Creek | 19.70 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Wet Cut |
| A14-176-S1 | Trib to Beech Creek | 20.04 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Dry Cut |
| A14-176-S1 | Trib to Beech Creek | 20.09 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Dry Cut |
| A14-176-S2 | Trib to Beech Creek | 20.09 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | N/A |
| A14-25-S1 | Middle Branch Nimishillen Creek | 21.32 | Perennial | MInor | WWH | AWS and IWS | Primary Contact B | 10 | Bore |
| A14-175-S1 | Trib to Middle Branch Nimishillen Creek | 22.04 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Dry Cut |
| A14-174-S1 | Trib to Middle Branch Nimishillen Creek | 22.28 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| A14-27-S1 | Trib to Middle Branch Nimishillen Creek | 23.39 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Dry Cut |
| A14-161-S1 | Trib to Middle Branch Nimishillen Creek | 23.87 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 28 | Dry Cut |
| A14-161-S2 | Trib to Middle Branch Nimishillen Creek | 23.89 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Dry Cut |
| A14-30-S1 | Trib to Middle Branch Nimishillen Creek | 25.02 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Wet Cut |
| A14-100-S1 | Trib to Middle Branch Nimishillen Creek | 25.99 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Wet Cut |
| A14-99-S1 | Middle Branch Nimishillen Creek | 26.07 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Wet Cut |
| A14-99-S2 | Trib to Middle Branch Nimishillen Creek | 26.09 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Wet Cut |
| A14-97-S1 | Swartz Ditch | 26.53 | Perennial | Intermediate | MHW | AWS and IWS | Secondary Contact | 20 | Dry Cut |
| A14-34-S1 | Trib to Swarts Ditch | 27.03 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 3 | N/A |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| AS-ST-13 | Trib to Swarts Ditch | 27.22 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| A14-168-S1 | Trib to Nimishillen Creek | 28.18 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-ST-27 | Trib to Nimishillen Creek | 28.19 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | N/A |
| AS-ST-14 | Trib to Nimishillen Creek | 28.54 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| AS-ST-15 | Trib to Nimishillen Creek | 28.59 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 18 | Dry Cut |
| AS-ST-17 | Trib to Nimishillen Creek | 28.90 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 27 | Wet Cut |
| A14-157-S1 | Trib to Nimishillen Creek | 29.42 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Wet Cut |
| A14-159-S1 | Trib to Nimishillen Creek | 29.91 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Wet Cut |
| A14-158-S1 | Trib to Nimishillen Creek | 30.06 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Bore |
| AS-ST-24 | Trib to Nimishillen Creek | 30.06 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | N/A |
| AS-ST-21 | Trib to West Branch Nimishillen Creek | 30.61 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | Bore |
| A14-163-S1 | Trib to West Branch Nimishillen Creek | 30.74 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Wet Cut |
| A14-164-S2 | West Branch Nimishillen Creek | 31.06 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Wet Cut |
| A14-164-S1 | Trib to West Branch Nimishillen Creek | 31.31 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 22 | Wet Cut |
| ***Summit County*** | | | | | | | | | |
| AS-SU-2 | Trib to Tuscarawas River | 33.4 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | N/A |
| AS-SU-2A | Trib to Tuscarawas River | 33.48 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-SU-5 | Trib to Tuscarawas River | 34.38 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Dry Cut |
| AP-SU-6 | Trib to Tuscarawas River | 34.61 | Perennial | Major | WWH | AWS and IWS | Primary Contact B | 190 | N/A |
| AS-SU-43 | Trib to Willowdale Lake | 35.38 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 16 | Dry Cut |
| AS-SU-8 | Trib to Nimisila Reservoir | 35.84 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 2 | Dry Cut |
| AS-SU-9 | Trib to Nimisila Reservoir | 36.13 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Wet Cut |
| AS-SU-10 | Trib to Nimisila Reservoir | 36.42 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 22 | Wet Cut |
| AS-SU-11 | Trib to Nimisila Reservoir | 36.72 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| A14-166-S1 | Trib to Nimisila Reservoir | 36.72 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| A14-112-S1 | Trib to Nimisila Reservoir | 37.15 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| A14-112-S1-a | Trib to Nimisila Reservoir | 37.54 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| A14-112-S1-b | Trib to Nimisila Reservoir | 37.73 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| A14-112-S2 | Trib to Nimisila Reservoir | 37.77 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 2 | Dry Cut |
| AS-SU-13 | Trib to Nimisila Reservoir | 38 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| AS-SU-13 | Trib to Nimisila Reservoir | 38.01 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| AS-SU-13A | Trib to Nimisila Reservoir | 38.05 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Bore |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| A14-120-S2 | Trib to Nimisila Reservoir | 38.52 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Dry Cut |
| A14-120-S1 | Trib to Nimisila Reservoir | 38.65 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 4 | N/A |
| AS-SU-14 | Trib to Nimisila Reservoir | 38.65 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| AS-SU-15 | Trib to Nimisila Reservoir | 38.76 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 55 | Bore |
| AS-SU-17 | Nimisila Creek | 39.66 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 65 | Dry Cut |
| AS-SU-17A | Trib to Nimisila Creek | 39.80 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Dry Cut |
| A14-122-S1 | Trib to Nimisila Creek | 39.93 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 4 | N/A |
| AS-SU-18 | Trib to Nimisila Creek | 40.38 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 11 | N/A |
| AS-SU-18 | Trib to Nimisila Creek | 40.39 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 11 | N/A |
| A14-117-S1 | Trib to Nimisila Creek | 41.18 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| AS-SU-21 | Trib to Nimisila Creek | 41.64 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| AS-SU-21A | Trib to Nimisila Creek | 41.68 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-SU-22 | Trib to Nimisila Creek | 41.87 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Dry Cut |
| AS-SU-23 | Trib to Nimisila Creek | 42.08 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 17 | Dry Cut |
| AS-SU-26 | Trib to Nimisila Creek | 43.51 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | N/A |
| AS-SU-29 | Trib to Tuscarawas River | 43.87 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-SU-30 | Trib to Tuscarawas River | 44.10 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| A14-119-S1 | Trib to Tuscarawas River | 44.35 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 2.5 | Dry Cut |
| AS-SU-32 | Trib to Tuscarawas River | 44.71 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Bore |
| AS-SU-31 | Trib to Tuscarawas River | 44.71 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | N/A |
| AS-SU-34 | Trib to Tuscarawas River | 44.75 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| AS-SU-34 | Trib to Tuscarawas River | 44.75 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Bore |
| AS-SU-35A | Trib to Tuscarawas River | 44.94 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| AS-SU-37 | Tuscarawas River | 46.01 | Perennial | Major | MHW | AWS and IWS | Primary Contact A | 105 | HDD |
| AS-SU-38 | Trib to Tuscarawas River | 46.12 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | HDD |
| AP-SU-40 | Trib to Pancake Creek | 46.75 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 66 | N/A |
| AS-SU-40 | Pancake Creek | 46.77 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 24 | Dry Cut |
| A14-41-S2 | Trib to Pancake Creek | 47.44 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Dry Cut |
| A14-41-S1 | Trib to Pancake Creek | 47.47 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 4 | N/A |
| A14-42-S1 | Trib to Pancake Creek | 47.81 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Dry Cut |
| ***Wayne County*** | | | | | | | | | |
| AS-WE-1 | Trib to Pancake Creek | 48.15 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Wet Cut |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| AS-WE-4 | Trib to Silver Creek | 48.92 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | N/A |
| AS-WE-5 | Trib to Silver Creek | 49.12 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Bore |
| AS-WE-6 | Trib to Silver Creek | 49.21 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| AS-WE-9 | Trib to Silver Creek | 49.87 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| A14-124-S2 | Trib to Silver Creek | 50.24 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Dry Cut |
| A14-124-S1 | Silver Creek | 50.32 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | Dry Cut |
| AS-WE-11 | Trib to Silver Creek | 50.72 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Bore |
| AS-WE-11A | Trib to Silver Creek | 50.76 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 2 | Wet Cut |
| A14-91-S1 | Trib to Mill Creek | 51.57 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| A14-93-S1 | Trib to Mill Creek | 51.69 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 2 | N/A |
| AP-WE-14 | Trib to Mill Creek | 51.77 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 50 | N/A |
| AS-WE-14 | Trib to Mill Creek | 51.79 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | N/A |
| AP-WE-16 | Trib to Mill Creek | 51.8 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 60 | N/A |
| AS-WE-16 | Trib to Mill Creek | 52.63 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| AS-WE-17 | Mill Creek | 53.01 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 17 | Dry Cut |
| ***Medina County*** | | | | | | | | | |
| AS-ME-1 | Trib to Styx River | 54.43 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Bore |
| AS-ME-6/A14-43-S1 | Styx River | 55.06 | Perennial | Intermediate | MWH | AWS and IWS | Primary Contact B | 30 | Dry Cut |
| AS-ME-7 | Trib to Styx River | 56.15 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Wet Cut |
| A14-44-S1 | Trib to Styx River | 56.28 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| AS-ME-14 | Trib to Styx River | 56.86 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 18 | Dry Cut |
| AS-ME-16 | Trib to Styx River | 57.11 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Wet Cut |
| AS-ME-17 | Trib to Styx River | 57.28 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Bore |
| A14-39-S1 | Tommy Run | 57.73 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| A14-40-S1 | Trib to Tommy Run | 57.89 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Dry Cut |
| A14-40-S2 | Trib to Tommy Run | 57.91 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 2 | Wet Cut |
| A14-37-S1 | Trib to Chippewa Creek | 58.68 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| AS-ME-19 | Trib to Chippewa Creek | 58.80 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Wet Cut |
| AS-ME-20 | Trib to Chippewa Creek | 59.07 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Wet Cut |
| AS-ME-91 | Trib to Chippewa Creek | 59.75 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Dry Cut |
| AS-ME-91A | Trib to Chippewa Creek | 59.78 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Dry Cut |
| A14-116-S2 | Trib to Hubbard Creek | 62.25 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| A14-116-S5 | Trib to Hubbard Creek | 62.31 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| AS-ME-24 | Trib to Hubbard Creek | 62.98 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Bore |
| B14-4-S1 | Hubbard Creek | 63.16 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| AS-ME-27 | Trib to Chippewa Creek | 64.35 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 17 | Wet Cut |
| AS-ME-30 | Trib to Chippewa Creek | 64.55 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| AS-ME-31 | Trib to Chippewa Creek | 64.61 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| AS-ME-31A | Trib to Chippewa Creek | 64.67 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| AS-ME-31B | Trib to Chippewa Creek | 64.74 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| AS-ME-32 | Trib to Chippewa Creek | 64.82 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| AS-ME-34 | Trib to Chippewa Creek | 65.08 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 21 | Dry Cut |
| AS-ME-35 | Trib to McCabe Creek | 65.42 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-ME-37A | Trib to McCabe Creek | 65.70 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Wet Cut |
| AS-ME-37 | McCabe Creek | 65.79 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 22 | Wet Cut |
| AS-ME-37C | Trib to McCabe Creek | 65.8 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | N/A |
| AS-ME-39 | Trib to The Inlet | 66.05 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | N/A |
| AS-ME-39A | Trib to The Inlet | 66.38 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | N/A |
| AS-ME-39A | Trib to The Inlet | 66.39 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | Wet Cut |
| AS-ME-40 | Trib to The Inlet | 66.65 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | Wet Cut |
| AS-ME-41A | Trib to The Inlet | 66.85 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| AS-ME-41 | Trib to The Inlet | 66.95 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| AS-ME-46 | The Inlet | 67.81 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 23 | Dry Cut |
| AS-ME-47 | Trib to The Inlet | 67.88 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | Bore |
| AS-ME-48 | Trib to the Inlet | 68.12 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 17 | Wet Cut |
| A14-46-S2 | Trib to The Inlet | 68.29 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Wet Cut |
| A14-46-S1 | Trib to The Inlet | 68.35 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | Wet Cut |
| A14-47-S1 | Trib to The Inlet | 69.23 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 2 | Dry Cut |
| A14-47-S2 | Trib to The Inlet | 69.24 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| *Lake Erie Basin* | | | | | | | | | |
| AS-ME-53 | Mallet Creek | 69.91 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Bore |
| AS-ME-53B | Trib to Mallet Creek | 70.02 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-ME-53A | Trib to Mallet Creek | 70.06 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-ME-53 | Mallet Creek | 70.34 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Dry Cut |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| AS-ME-56 | Trib to Mallet Creek | 70.64 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | N/A |
| AS-ME-56 | Trib to Mallet Creek | 70.65 | Intermittent | MInor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| AS-ME-58A | Trib to Mallet Creek | 70.82 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 14 | Dry Cut |
| AS-ME-58C | Trib to Mallet Creek | 70.87 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-ME-58B | Trib to Mallet Creek | 70.94 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 14 | Wet Cut |
| B14-9-S1 | Trib to Mallet Creek | 71.25 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | N/A |
| AS-ME-62A | Trib to Mallet Creek | 71.82 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| AS-ME-62 | Trib to Mallet Creek | 71.83 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| B14-10-S1 | Trib to Mallet Creek | 72.05 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 2 | Dry Cut |
| AS-ME-64 | Trib to Mallet Creek | 72.52 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 17 | Wet Cut |
| AS-ME-67 | Trib to Mallet Creek | 73.21 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-ME-69 | Trib to Mallet Creek | 73.51 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Bore |
| AS-ME-73 | Mallet Creek | 73.90 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 39 | Dry Cut |
| AS-ME-74B | Trib to Mallet Creek | 74.06 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| AS-ME-74 | Trib to Mallet Creek | 74.10 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Dry Cut |
| AS-ME-75 | Trib to Mallet Creek | 74.43 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 16 | Dry Cut |
| AS-ME-96 | Trib to West Branch Rocky River | 75.61 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 14 | Wet Cut |
| AS-ME-97 | Trib to West Branch Rocky River | 75.77 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | N/A |
| AS-ME-97 | Trib to West Branch Rocky River | 75.77 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Bore |
| AS-ME-98 | Trib to West Branch Rocky River | 76.05 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| AS-ME-99 | Trib to West Branch Rocky River | 76.21 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| ***Lorain County*** | | | | | | | | | |
| AS-LO-1 | Trib to East Branch Black River | 77.05 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 19 | Dry Cut |
| AS-LO-1 | Trib to East Branch Black River | 77.16 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 19 | Dry Cut |
| AS-LO-1 | Trib to East Branch Black River | 77.23 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 19 | Dry Cut |
| AS-LO-1 | Trib to East Branch Black River | 77.25 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 19 | Dry Cut |
| AS-LO-31B | Trib to East Branch Black River | 77.48 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-LO-34 | Trib to East Branch Black River | 77.76 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Wet Cut |
| A14-56-S2 | Trib to East Branch Black River | 78.06 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Dry Cut |
| A14-56-S1 | Trib to East Branch Black River | 78.17 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 2 | Dry Cut |
| A14-59-S1 | Trib to East Branch Black River | 78.68 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 2 | N/A |
| AS-LO-38 | Trib to East Branch Black River | 79.17 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Bore |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| AS-LO-38 | Trib to East Branch Black River | 79.2 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | N/A |
| A14-61-S1 | Trib to East Branch Black River | 79.22 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Bore |
| A14-61-S1 | Trib to East Branch Black River | 79.25 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Bore |
| AS-LO-48 | Salt Creek | 80.97 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact A | 15 | Dry Cut |
| AS-LO-47 | Trib to East Branch Black River | 81.28 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| AS-LO-9 | Trib to East Branch Black River | 81.63 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Bore |
| AS-LO-10 | Trib to East Branch Black River | 82.44 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| AS-LO-10 | Trib to East Branch Black River | 82.55 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Bore |
| A14-50-S1 | East Branch Black River | 83.33 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact A | 65 | HDD |
| AS-LO-11 | Trib to East Branch Black River | 83.68 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Bore |
| A14-55-S1 | Trib to West Branch Black River | 83.92 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-LO-45 | Trib to East Branch Black River | 84.61 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Wet Cut |
| A14-73-S1 | King Ditch | 85.23 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Dry Cut |
| A14-128-S1 | Trib to West Branch Black River | 85.84 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Bore |
| A14-75-S1 | Trib to West Branch Black River | 85.85 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Bore |
| A14-75-S2 | Trib to West Branch Black River | 85.91 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Wet Cut |
| A14-76-S1 | Kelner Ditch | 86.82 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Dry Cut |
| A14-130-S1 | Trib to West Branch Black River | 87.07 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Wet Cut |
| AS-LO-15 | Trib to West Branch Black River | 87.07 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | N/A |
| AS-LO-17 | Elk Creek | 87.93 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 37 | Dry Cut |
| AS-LO-19 | Wellington Creek | 88.37 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 52 | Dry Cut |
| AS-LO-21 | Trib to West Branch Black River | 88.84 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 83 | HDD |
| AS-LO-20 | West Branch Black River | 88.96 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact A | 72 | HDD |
| AS-LO-22 | Trib to West Branch Black River | 89.18 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Dry Cut |
| A14-140-S1 | Trib to West Branch Black River | 90.02 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 2 | Bore |
| A14-141-S1 | Plum Creek | 92.67 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| AS-LO-28 | Trib to Plum Creek | 93.24 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Bore |
| A14-138-S1 | Trib to Plum Creek | 93.31 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | Bore |
| A14-138-S2 | Trib to Plum Creek | 93.38 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Dry Cut |
| A14-152-S1 | Trib to East Fork Vermillion River | 97.36 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Wet Cut |
| A14-146-S1 | Trib to East Fork Vermillion River | 97.76 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| A14-148-S1 | East Fork Vermillion River | 98.07 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 75 | Dry Cut |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| ***Erie County*** | | | | | | | | | |
| A14-198-S1 | Trib to Vermillion River | 99.84 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 1.5 | N/A |
| AS-ER-100-S2 | Trib to Vermillion River | 100.34 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | HDD |
| A14-197-S2 | Trib to Vermillion River | 100.34 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | HDD |
| AS-ER-100-S1 | Vermillion River | 100.40 | Perennial | Major | WWH | AWS and IWS and SSH | Primary Contact A | 130 | HDD |
| AS-ER-100-S3 | Trib to Vermillion River | 100.45 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 1 | HDD |
| AS-ER-50 | Trib to Chappel Creek | 101.18 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | Dry Cut |
| AS-ER-49A | Trib to Chappel Creek | 101.8 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | N/A |
| AS-ER-49 | Trib to Chappel Creek | 101.89 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 38 | Dry Cut |
| AS-ER-51 | Trib to Chappel Creek | 105.78 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Wet Cut |
| AS-ER-41 | Trib to Old Woman Creek | 106.67 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Bore |
| AS-ER-53 | Trib to Old Woman Creek | 107.53 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-ER-35 | Trib to Old Woman Creek | 108.98 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Dry Cut |
| A14-187-S1 | Old Woman Creek | 109.12 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 28 | Dry Cut |
| A14-188-S2 | Trib to Old Woman Creek | 109.3 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | N/A |
| A14-188-S1 | Trib to Old Woman Creek | 109.30 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| AS-ER-12 | Trib to Old Women Creek | 109.82 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 33 | Dry Cut |
| AS-ER-13 | Trib to Old Woman Creek | 110.23 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| AS-ER-15 | Trib to Huron River | 111.37 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Dry Cut |
| AS-ER-16 | Trib to Huron River | 111.71 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 28 | Dry Cut |
| AS-ER-36 | Trib to Huron River | 111.95 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Bore |
| AS-ER-36A | Trib to Huron River | 112.05 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Dry Cut |
| AS-ER-17 | Trib to Huron River | 112.15 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| A14-155-S1 | Trib to Huron River | 112.49 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| A14-186-S1/AS-ER-19 | Huron River | 112.85 | Perennial | Major | WWH | AWS and IWS and SSH | Primary Contact A | 195 | HDD |
| AS-ER-20A | Trib to Huron River | 113.01 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | HDD |
| AS-ER-20 | Trib to Huron River | 113.08 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 3 | N/A |
| AS-ER-21 | Trib to Mud Brook | 113.45 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 11 | Wet Cut |
| AS-ER-22 | Trib to Mud Brook | 114.35 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Dry Cut |
| AS-ER-37 | Trib to Mud Brook | 114.72 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Wet Cut |
| E14-97-S1 | Mud Brook | 114.88 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 19 | Wet Cut |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| AS-ER-25 | Zorn Beutal Ditch | 116.01 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 24 | Wet Cut |
| AS-ER-51 | Sherer Ditch | 116.21 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Wet Cut |
| AS-ER-52 | Sherer Ditch | 116.73 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | Wet Cut |
| AS-ER-26 | Trib to Sherer Ditch | 117.81 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| AS-ER-26 | Trib to Sherer Ditch | 117.90 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| E14-96-S1 | Trib to Sherer Ditch | 118.81 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Wet Cut |
| AS-ER-28 | Trib to Pipe Creek | 119.77 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Wet Cut |
| AS-ER-38 | Trib to Pipe Creek | 121.45 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 17 | Wet Cut |
| E14-95-S1 | Pipe Creek | 121.60 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Bore |
| E14-49-S1 | Trib to Pipe Creek | 123.08 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| E14-50-S1 | Trib to Mills Creek | 123.56 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Wet Cut |
| E14-51-S1 | Trib to Mills Creek | 123.80 | Perennial | Intermediate | WWH | AWS and IWS | Secondary Contact | 15 | Wet Cut |
| E14-94-S1 | Mills Creek | 124.88 | Perennial | Intermediate | WWH | AWS and IWS | Secondary Contact | 30 | Dry Cut |
| ***Sandusky County*** | | | | | | | | | |
| D14-1-S1 | Scherz Ditch | 129.98 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 27 | Dry Cut |
| D14-4-S1 | Strong Creek | 130.98 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| D14-5-S1 | Trib to Strong Creek | 131.05 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Bore |
| D14-6-S1 | Fuller Creek | 131.68 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | Wet Cut |
| D14-7-S1 | Trib to Fuller Creek | 132.05 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Bore |
| AS-SA-1 | Trib to Fuller Creek | 132.60 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| E14-105-S1 | Pickerel Creek | 133.60 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 18 | Dry Cut |
| D14-9-S1 | Little Raccoon Creek | 134.24 | Perennial | Minor | WWH | AWS and IWS | Secondary Contact | 10 | Bore |
| D14-10-S1 | Trib to Little Raccoon Creek | 134.67 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Dry Cut |
| D14-10-S1 | Trib to Little Raccoon Creek | 134.67 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 6 | N/A |
| AS-SA-70 | Trib to Racoon Creek | 135.39 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Wet Cut |
| AS-SA-71 | Trib to Racoon Creek | 135.42 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Wet Cut |
| D14-8-S1 | Raccoon Creek | 135.47 | Perennial | Intermediate | WWH | AWS and IWS | Secondary Contact | 30 | Wet Cut |
| E14-103-S1 | South Creek | 136.14 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 22 | Dry Cut |
| AS-SA-4 | Trib to South Creek | 136.71 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 17 | Dry Cut |
| AS-SA-78 | Green Creek | 137.24 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 35 | Dry Cut |
| AS-SA-100 | Trib to Buehler Ditch | 138.25 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Bore |
| E14-36-S1 | Trib to Buehler Ditch | 138.54 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| D14-40-S1 | Bark Creek | 139.27 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 20 | Dry Cut |
| E14-19-S1 | Trib to Sandusky River | 140.53 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 8 | N/A |
| E14-31-S1 | Sandusky River | 141.28 | Perennial | Major | WWH | AWS and IWS | Primary Contact A | 390 | HDD |
| AS-SA-6 | Trib to Sandusky River | 141.5 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | HDD |
| AP-SA-6 | Trib to Sandusky River | 141.54 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 25 | N/A |
| D14-33-S1 | Trib to Muskellunge Creek | 142.41 | Ephemeral | Intermediate | WWH | AWS and IWS | Primary Contact B | 14 | Bore |
| E14-98-S1 | Trib to Muskellunge Creek | 142.56 | DRAINAGE DITCH | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| E14-121-S1 | Trib to Muskellunge Creek | 142.66 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Wet Cut |
| AS-SA-82 | Little Muddy Creek | 144.30 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 18 | Dry Cut |
| E14-43-S1/AS-SA-9 | Muddy Creek | 148.30 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 24 | Dry Cut |
| E14-181-S1 | Trib to Muddy Creek | 148.70 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Bore |
| AS-SA-10 | Trib to Muddy Creek | 149.39 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | Wet Cut |
| E14-109-S1 | Trib to Ninemile Creek | 149.68 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Bore |
| E14-42-S1 | Ninemile Creek | 150.13 | Intermittent | Intermediate | WWH | AWS and IWS | Priamry Contact B | 18 | Dry Cut |
| E14-3-S1 | Trib to Ninemile Creek | 150.87 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Bore |
| AS-SA-14 | Wolf Creek | 152.75 | Intermittent | Intermediate | WWH | AWS and IWS | Priamry Contact B | 12 | Dry Cut |
| D14-25-S1 | Sugar Creek | 153.55 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact A | 35 | Dry Cut |
| AS-SA-15 | Trib to Victoria Creek | 155.71 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Wet Cut |
| E14-108-S1 | Victoria Creek | 156.22 | Ephemeral | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | Dry Cut |
| AS-SA-75 | Portage River | 157.42 | Perennial | Major | WWH | AWS and IWS | Primary Contact A | 170 | HDD |
| AS-SA-16 | Trib to Portage River | 158.00 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Bore |
| ***Wood County*** | | | | | | | | | |
| E14-111-S1 | Martin Ditch | 158.74 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 17 | Bore |
| AS-WO-4 | Trib to Marin Ditch | 158.99 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Wet Cut |
| D14-31-S1 | Trib to Martin Ditch | 159.59 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| E14-85-S1 | Trib to Toussaint Creek | 160.46 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 13 | Dry Cut |
| E14-153-S1 | Trib to Toussaint Creek | 161.34 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Wet Cut |
| AS-WO-14 | Trib to Toussaint Creek | 161.64 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Bore |
| D14-34-S1 | Trib to Toussaint Creek | 161.64 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 6 | N/A |
| E14-175-S1 | Toussaint Creek | 162.19 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 24 | Dry Cut |
| AS-WO-1 | Trib to Toussaint Creek | 163.07 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| E14-48-S1 | Trib to Toussaint Creek | 163.16 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Bore |
| E14-79-S1 | Trib to Packer Creek | 165.29 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 7 | Bore |
| E14-80-S1 | Trib to Packer Creek | 165.67 | Ephemeral | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Bore |
| E14-40-S1 | Packer Creek | 165.98 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 25 | Dry Cut |
| AS-WO-5 | Trib to Packer Creek | 167.43 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | Bore |
| AS-WO-6 | Trib to Packer Creek | 168.81 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 11 | Bore |
| E14-35-S1 | Trib to Cedar Creek | 169.33 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Bore |
| AS-WO-7 | Trib to Cedar Creek | 170.33 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 23 | Bore |
| AS-WO-8 | Trib to Cedar Creek | 172.03 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 18 | Bore |
| D14-45A-S1 | Trib to Maumee River | 172.79 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Bore |
| AS-WO-18 | Trib to Maumee River | 174.67 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 24 | HDD |
| AS-WO-19 | Trib to Maumee River | 175.36 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Dry Cut |
| E14-44-S1 | Trib to Maumee River | 175.47 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| E14-47-S1 | Trib to Maumee River | 175.67 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 3 | Bore |
| ***Lucas County*** | | | | | | | | | |
| AS-LU-1 | Maumee River | 176.12 | Perennial | Major | WWH | AWS and IWS | Primary Contact A | 750 | HDD |
| AS-LU-1A | Maumee River | 176.37 | Perennial | Major | WWH | AWS and IWS | Primary Contact A | 610 | HDD |
| E14-116-S1 | Blystone Ditch | 177.24 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Wet Cut |
| E14-29-S1 | Suter Ditch | 177.95 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 9 | Wet Cut |
| AS-LU-2 | Trib to Whitemeir Ditch | 178.04 | Ephemeral | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Bore |
| E14-1-S1 | Whitemeir Ditch | 178.23 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Wet Cut |
| AS-LU-3 | Trib to Whitemeir Ditch | 178.38 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| AS-LU-4 | Disher Ditch | 178.78 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 18 | Wet Cut |
| AS-LU-5 | Harris Ditch | 179.95 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 18 | Bore |
| E14-22-S1 | Trib to Blue Creek | 181.27 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | Wet Cut |
| AS-LU-16 | Doran Ditch | 181.99 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | Bore |
| AS-LU-17 | Yawberg Ditch | 182.12 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Wet Cut |
| AS-LU-18 | Jeffers Ditch | 182.36 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-LU-20 | Laver Ditch | 182.78 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Wet Cut |
| ***Henry County*** | | | | | | | | | |
| AS-HE-2 | Trib to Aumend Ditch | 184.14 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Dry Cut |
| AS-HE-3 | Trib to Aumend Ditch | 184.35 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 6 | Dry Cut |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| AS-HE-7 | Trib to Aumend Ditch | 184.83 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Bore |
| ***Fulton County*** | | | | | | | | | |
| AS-FU-55 | Blue Creek | 185.60 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Dry Cut |
| AS-FU-55A | Trib to Blue Creek | 185.73 | Perennial | Minor | WWH | AWS and IWS | Primary Contact B | 10 | Dry Cut |
| AS-FU-56 | Trib to Blue Creek | 186.30 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Wet Cut |
| AS-FU-57 | Trib to Blue Creek | 186.97 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 16 | Dry Cut |
| AS-FU-57 | Trib to Blue Creek | 186.99 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 16 | N/A |
| AS-FU-61 | Trib to Blue Creek | 187.88 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| AS-FU-59 | Trib to Swan Creek | 188.54 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-FU-60 | Trib to Swan Creek | 189.66 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Dry Cut |
| AS-FU-61 | Fewless Creek | 189.92 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 13 | Dry Cut |
| AS-FU-62 | Trib to Swan Creek | 190.52 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Bore |
| AS-FU-63 | Swan Creek | 191.03 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 20 | Bore |
| AS-FU-65 | Trib to Swan Creek | 191.88 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Wet Cut |
| AS-FU-66 | Trib to Swan Creek | 192.14 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Dry Cut |
| AS-FU-67 | Trib to Ai Creek | 192.49 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 4 | Bore |
| AS-FU-68 | Trib to Ai Creek | 193.28 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Dry Cut |
| E14-4-S1 | Ai Creek | 195.42 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 25 | Dry Cut |
| AS-FU-20 | Frankfort Ditch | 196.76 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | Dry Cut |
| D14-24-S1 | Trib to McNett Ditch | 197.32 | Ephemeral | Minor | WWH | AWS and IWS | Primary Contact B | 5 | Bore |
| E14-112-S1 | Trib to McNett Ditch | 198.06 | Ephemeral | Intermediate | WWH | AWS and IWS | Primary Contact B | 11 | Wet Cut |
| D14-44-S1 | Trib to Langenderfer Ditch | 198.39 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Bore |
| D14-44-S1 | Trib to Langenderfer Ditch | 198.51 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Dry Cut |
| D14-44-S1 | Trib to Langenderfer Ditch | 198.56 | Perennial | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Dry Cut |
| E14-53-S1 | Trib to Langenderfer Ditch | 199.73 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | Wet Cut |
| AS-FU-21 | Trib to Langenderfer Ditch | 200.07 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 15 | Wet Cut |
| AS-FU-22 | Trib to Langenderfer Ditch | 200.46 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 12 | Bore |
| AS-FU-50 | Trib to Schmitz Ditch | 200.72 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | Dry Cut |
| E14-11-S1 | Trib to Schmitz Ditch | 200.72 | Intermittent | Intermediate | WWH | AWS and IWS | Primary Contact B | 20 | N/A |
| E14-12-S1 | Trib to Tenmile Creek | 201.47 | Intermittent | Minor | WWH | AWS and IWS | Primary Contact B | 8 | Bore |
| AS-FU-23 | Tenmile Creek | 202.36 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 20 | Dry Cut |
| D14-45-S1 | Tenmile Creek | 202.37 | Perennial | Intermediate | WWH | AWS and IWS | Priamry Contact B | 20 | Dry Cut |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| **Michigan** | | | | | | | | | |
| ***Lenawee County*** | | | | | | | | | |
| E14-113-S1 | Trib to Tenmile Creek | 203.22 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 14 | Wet Cut |
| E14-114-S1 | Trib to Tenmile Creek | 203.46 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 11 | Bore |
| AS-LE-1 | Trib to Tenmile Creek | 204.45 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Bore |
| E14-78-S1 | Trib to Tenmile Creek | 205.45 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 4 | Bore |
| E14-56-S1 | Trib to Tenmile Creek | 206.48 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 8 | Bore |
| E14-137-S1 | Trib to Clement Drain | 207.44 | Intermittent | Minor | WWH | AWS and IWS | Partial/Total | 8 | Bore |
| E14-138-S1 | Trib to Clement Drain | 207.95 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 11 | Wet Cut |
| E14-139-S1 | Trib to Clement Drain | 208.47 | Perennial | Minor | WWH | AWS and IWS | Partial/Total | 8 | Bore |
| AS-LE-3/E14-140-S1 | River Raisin | 209.77 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 80 | N/A |
| AS-LE-5 | Trib to River Raisin | 210.67 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 7 | Wet Cut |
| E14-58-S1 | Goodrich Drain | 211.15 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 15 | Dry Cut |
| AS-LE-6 | Trib to Goodrich Drain | 211.49 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Bore |
| AS-LE-13 | Trib to Goodrich Drain | 211.49 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | N/A |
| AS-LE-7 | Trib to Goodrich Drain | 211.50 | Intermittent | Minor | WWH | AWS and IWS | Partial/Total | 7 | Bore |
| E14-59-S1 | Trib to Goodrich Drain | 211.87 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 16 | Dry Cut |
| AS-LE-8 | Hill Drain | 212.47 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 13 | Dry Cut |
| E14-141-S1 | Pease Drain | 212.89 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 12 | Dry Cut |
| E14-142-S1 | Colvin Drain | 213.19 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 11 | Dry Cut |
| AS-LE-9 | Trib to Little River Raisin | 214.00 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Bore |
| AS-LE-10 | Trib to Little River Raisin | 214.44 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Bore |
| E14-143-S1 | Little River Raisin | 214.85 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 18 | Wet Cut |
| E14-64-S1 | Fry Drain | 215.07 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 13 | Bore |
| E14-69-S1 | Isley Drain | 216.41 | Ephemeral | Intermediate | WWH | AWS and IWS | Partial/Total | 15 | Bore |
| E14-76-S1 | Swamp Raisin Creek | 216.85 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 23 | Dry Cut |
| E14-77-S1 | Trib to Swamp Raisin Creek | 217.03 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 11 | Bore |
| E14-145-S1 | Spring Brook | 217.61 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 20 | Bore |
| E14-171-S1 | Schwab Drain | 218.20 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 12 | Wet Cut |
| E14-70-S1 | Kelly Drain | 218.78 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 15 | Bore |
| AS-LE-48 | Wilson Drain | 219.48 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Wet Cut |
| E14-146-S1 | Trib to South Branch Macon Creek | 220.12 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 13 | Bore |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| E14-147-S1 | Dibble Drain | 220.35 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 16 | Wet Cut |
| E14-127-S1 | South Branch Macon Creek | 220.75 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 22 | Dry Cut |
| E14-126-S1 | Trib to South Branch Macon Creek | 220.93 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 22 | Bore |
| E14-74-S1 | Schreeder Brook | 221.15 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 10 | Dry Cut |
| E14-75-S1 | Trib to Wahoo Prairie Drain | 221.32 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 10 | Bore |
| E14-60-S1 | Wahoo Prairie Drain | 222.46 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 18 | Wet Cut |
| E14-149-S1 | Trib to Middle Branch Macon Creek | 223.11 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 13 | Wet Cut |
| AS-LE-12 | Trib to Middle Branch Macon Creek | 223.11 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 13 | Wet Cut |
| E14-150-S1 | Trib to Macon Creek | 223.70 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 14 | Bore |
| E14-87-S1 | Macon Creek | 223.86 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 28 | Dry Cut |
| E14-87-S2 | Trib to Macon Creek | 223.86 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 3 | N/A |
| E14-61-S1 | Trib to Macon Creek | 224.14 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 20 | Dry Cut |
| E14-62-S1 | Trib to Macon Creek | 224.68 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | N/A |
| ***Monroe County*** | | | | | | | | | |
| E14-63-S1 | Trib to Richardson Drain | 225.03 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 16 | Wet Cut |
| AS-MO-1 | Richardson Drain | 225.74 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 15 | Dry Cut |
| E14-65-S1 | Bear Swamp Creek | 226.22 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 12 | Dry Cut |
| E14-66-S1 | Trib to Bear Swamp Creek | 226.71 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 8 | Dry Cut |
| E14-67-S1 | Trib to Bear Swamp Creek | 226.80 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 6 | Bore |
| E14-86-S2 | Trib to Cone Drain | 227.35 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | N/A |
| AS-MO-12 | Trib to Cone Drain | 227.39 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 3 | N/A |
| AS-MO-11 | Cone Drain | 227.60 | Intermittent | Minor | WWH | AWS and IWS | Partial/Total | 9 | Dry Cut |
| AS-MO-2 | Trib to Center Creek | 228.01 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 15 | Wet Cut |
| AS-MO-10A | Trib to Center Creek | 228.58 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Bore |
| AS-MO-10 | Center Creek | 228.71 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 15 | Dry Cut |
| E14-71-S1 | Trib to North Branch MaconCreek | 229.09 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 4 | N/A |
| E14-72-S1 | Trib to North Branch MaconCreek | 229.23 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Wet Cut |
| AS-MO-3 | Trib to North Branch Macon Creek | 229.67 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 9 | Wet Cut |
| AS-MO-4 | North Branch Macon Creek | 230.29 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 15 | Dry Cut |
| ***Washtenaw County*** | | | | | | | | | |
| E14-157-S1 | Saline River | 231.88 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 60 | HDD |
| E14-159-S1 | Trib to Saline River | 232.53 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 8 | Bore |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| E14-88-S1 | McIntyre Drain | 233.4 | Intermittent | Minor | WWH | AWS and IWS | Partial/Total | 7 | Wet Cut |
| E14-89-S1 | Trib to McIntyre Drain | 233.53 | Intermittent | Minor | WWH | AWS and IWS | Partial/Total | 7 | Wet Cut |
| E14-90-S1 | Trib to McIntyre Drain | 233.62 | Ephemeral | Intermediate | WWH | AWS and IWS | Partial/Total | 16 | Bore |
| E14-165-S1 | Trib to McIntyre Drain | 233.65 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 8 | Bore |
| E14-91-S1 | Trib to Sugar Creek | 233.94 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 15 | Wet Cut |
| E14-92-S1 | Sugar Creek | 234.05 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 11 | Dry Cut |
| AS-WA-2 | Trib to Sugar Creek | 234.18 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Bore |
| E14-93-S1 | Trib to Buck Creek | 234.86 | Intermittent | Minor | WWH | AWS and IWS | Partial/Total | 10 | Wet Cut |
| E14-128-S3 | Trib to Buck Creek | 235.03 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 4 | N/A |
| E14-128-S1 | Buck Creek | 235.04 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 13 | Dry Cut |
| AS-WA-3 | Trib to Stony Creek | 235.71 | Intermittent | Intermediate | WWH | AWS and IWS | Partial/Total | 12 | Dry Cut |
| E14-131-S1 | Trib to Stony Creek | 236.33 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 6 | Bore |
| E14-132-S1 | Stony Creek | 236.54 | Perennial | Minor | WWH | AWS and IWS | Partial/Total | 8 | Dry Cut |
| E14-161-S1 | Trib to McCarthy Drain | 237.94 | Intermittent | Minor | WWH | AWS and IWS | Partial/Total | 10 | Bore |
| E14-135-S1 | McCarthy Drain | 238.41 | Perennial | Minor | WWH | AWS and IWS | Partial/Total | 10 | Dry Cut |
| E14-162-S1 | West Branch Paint Creek | 239.00 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 14 | Dry Cut |
| E14-99-S1 | Trib to Bird Drain | 239.28 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Bore |
| AS-WA-5 | Bird Drain | 239.56 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 10 | N/A |
| AS-WA-6/E14-164-S1 | Paint Creek | 240.45 | Perennial | Intermediate | WWH | AWS and IWS | Partial/Total | 25 | Dry Cut |
| E14-176-S1 | Trib to Paint Creek | 240.75 | Intermittent | Minor | WWH | AWS and IWS | Partial/Total | 7 | Bore |
| AS-WA-49 | Trib to Bradshaw Drain | 241.37 | Ephemeral | Intermediate | WWH | AWS and IWS | Partial/Total | 12 | Wet Cut |
| AS-WA-46 | Trib to North Branch Swan Creek | 242.61 | Intermittent | Minor | WWH | AWS and IWS | Partial/Total | 9 | Dry Cut |
| AS-WA-11 | Huron River | 245.03 | Perennial | Major | WWH | AWS and IWS | Partial/Total | 160 | HDD |
| AS-WA-15 | Trib to Willow Run | 248.13 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 7 | Dry Cut |
| AS-WA-16C | Trib to Willow Run | 248.63 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Dry Cut |
| AS-WA-16B | Trib to Willow Run | 248.63 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | N/A |
| AS-WA-16B | Trib to Willow Run | 248.64 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | N/A |
| AS-WA-16A | Trib to Willow Run | 248.82 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Dry Cut |
| AS-WA-17 | Trib to Willow Run | 248.83 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | Dry Cut |
| AS-WA-18 | Trib to Sines Drain | 249.03 | Ephemeral | Minor | WWH | AWS and IWS | Partial/Total | 5 | N/A |
| **Ohio** | | | | | | | | | |
| *Ohio River Basin* | | | | | | | | | |

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody ID a/ | Waterbody Name | Milepost b/ | Flow TYPE c/ | FERC Classification d/ | State Water Quality Classification e/ | State Water Supply Classification f/ | State Recreation Classification g/ | Waterbody Width (feet) h/ | Proposed Construction Method i/ |
|---|---|---|---|---|---|---|---|---|---|
| **Columbiana County** | | | | | | | | | |
| Interconnecting Pipeline to TGP | | | | | | | | | |
| AS-CO-4A | Trib. to Brush Creek | 0.9 | | Mnor | WWH | AWS and IWS | Primary Contact B | 2 | Wet Cut |

a/ Identifies State and County where the stream is located, Drainage Area where stream is located and Project waterbody identifier.
b/ Waterbody crossing reference by nearest NEXUS pipeline milepost.
c/ Flow types were identified in the field based on flow relative to time/duration terminology from USGS Hydrologic Definitions.
*Perennial* – streams that flow continuously.
*Intermittent* – streams which flow only at certain times of the year when it receives water from springs or from some surface source such as melting snow in mountainous areas.
*Ephemeral* – streams that flow only in direct response to precipitation, and whose channel is at all times above the water table.
d/ FERC stream classification are based on FERC's "Procedures" definition of minor, intermediate and major waterbodies. Minor = waterbodies less than or equal to 10 feet wide; Intermediate = waterbodies greater than 10 feet wide but less than or equal to 100 feet wide; Major = greater than 100 feet wide.
e/ Aquatic Life Habitat designation types that area crossed by the NEXUS Project are defined below:
**State Of Ohio -** Water Use Quality Designations for Aquatic Life Habitat.
*WWH* - "Warmwater" - these are waters capable of supporting and maintaining a balanced, integrated, adaptive community of warmwater aquatic organisms having a species composition, diversity, and functional organization comparable to the twenty-fifth percentile of the identified reference sites within each of the following ecoregions: the interior plateau ecoregion, the Erie/Ontario lake plains ecoregion, the western Allegheny plateau ecoregion and the eastern corn belt plains ecoregion. For the Huron/Erie lake plains ecoregion, the comparable species composition, diversity and functional organization are based upon the ninetieth percentile of all sites within the region. For all ecoregions, the attributes of species composition, diversity and functional organization will be measured using the index of biotic integrity, the modified index of well-being and the invertebrate community index as defined in "Biological Criteria for the Protection of Aquatic Life: Volume II, User's Manual for Biological Field Assessment of Ohio Surface Waters," as cited in paragraph (B) of rule 3745-1-03 of the Administrative Code. In addition to those water body segments designated in rules 3745-1-08 to 3745-1-32 of the Administrative Code, all upground storage reservoirs are designated warmwater habitats. Attainment of this use designation (except for upground storage reservoirs) is based on the criteria in table 7-15 of this rule. A temporary variance to the criteria associated with this use designation may be granted as described in paragraph (F) of rule 3745-1-01 of the Administrative Code.
*MWH* **–** Modified Warmwater Habitat" – applies to extensively modified habitats that are capable of supporting the semblance of a warmwater biological community, but fall short of attaining WWH because of functional and structural deficiencies due primarily to altered macrohabitats.
**State of Michigan -** Water Use Quality Designations for Aquatic Life Habitat:
*WWH* **–** Warmwater habitat qualifies as a mean water temperature >70 degrees Fahrenheit in July
f/ State Of Ohio Water Use Quality Designations Water Supply. Only Water Supply designation types that are crossed by the NEXUS Project are defined below:
*AWS* - "Agricultural" - these are waters suitable for irrigation and livestock watering without treatment.
*IWS* - "Industrial" - these are waters suitable for commercial and industrial uses, with or without treatment. Criteria for the support of the industrial water supply use designation will vary with the type of industry involved.
g/ **Ohio** - These Ohio use designations are in effect only during the recreation season, which is the period from May 1 to October 31. Primary Contact Classes A, B, and secondary contact recreational uses are crossed by the NEXUS Project. Primary Contact are waters that, during the recreation season, are suitable for one or more full-body contact recreation activities such as, but not limited to, wading, swimming, boating, water skiing, canoeing, kayaking, and scuba diving. Three classes of Primary Contact Recreation use are defined to reflect differences in the observed and potential frequency and intensity of usage. State recreation classifications are are identified in rules 3745-1-08 to 3745-1-30 of the Administrative Code and defined below:
*Primary Contact A***.** These are waters that support, or potentially support, frequent primary contact recreation activities. The following water bodies are designated as class A Primary Contact Recreation waters. The streams and rivers listed in table 7-16 of this rule 3745-1-07 are popular paddling streams with public access points developed, maintained, and publicized by governmental entities.

TABLE 2.3-2

**Waterbodies Crossed by NEXUS Project**

| **State, Drainage Basin, County, Waterbody ID** a/ | **Waterbody Name** | **Milepost** b/ | **Flow TYPE** c/ | **FERC Classification** d/ | **State Water Quality Classification** e/ | **State Water Supply Classification** f/ | **State Recreation Classification** g/ | **Waterbody Width (feet)** h/ | **Proposed Construction Method** i/ |
|---|---|---|---|---|---|---|---|---|---|

*Primary Contact B*. These are waters that support, or potentially support, occasional Primary Contact Recreation activities. All surface waters of the state are designated as class B Primary Contact Recreation unless otherwise designated as bathing waters, Class A Primary Contact Recreation, Class C Primary Contact Recreation or Secondary Contact Recreation.

*Secondary Contact.* These are waters that result in minimal exposure potential to water borne pathogens because the waters are: rarely used for water based recreation such as, but not limited to, wading; situated in remote, sparsely populated areas; have restricted access points; and have insufficient depth to provide full body immersion, thereby greatly limiting the potential for water based recreation activities.

**Michigan** - At a minimum, all surface waters in Michigan are designated and protected by MIDEQ for the partial body contact recreation and total body contact recreation designations. Partial body contact recreation is designated throughout the year and total body recreation is designated from May 1 through October 1. Most designations have two or more types of assessment that may be used to determine support. These types of assessment include biological, physical/chemical, toxicological, pathogen indicators, other public health indicators and other aquatic health indicators.

*Partial Body Contact* - These are waters that support, or potentially support, occasional Partial Body Contact Recreation activities. Partial body recreation activities include paddling, canoeing, kayaking, etc. and are protected in all surface waters year round in Michigan.

*Total Body Contact* **-** These are waters that support, or potentially support, occasional Total Body Contact Recreation activities. Total body contact recreation activities include activities such as swimming, and all surface waters in Michigan are protected from May 1 through October 1 for such activities.

h/ Waterbody widths were estimated based on the average width located within NEXUS Project study corridor.

i/ NEXUS is proposing to utilize wet open cut, dry crossing, conventional bore, and HDD crossing methods. See section 2.3.9 of Resource Report 2 for descriptions of each crossing method type. Waterbodies that are located within the construction workspace but will not be crossed by the pipeline are listed as N/A (not applicable).

TABLE 2.3-3

**Summary of Waterbodies Crossed by NEXUS Project HDDs**

| State, Facility, Waterbody ID | Milepost | Waterbody Name |
|---|---|---|
| **Ohio** | | |
| *Mainline* | | |
| AS-SU-37 | 46.0 | Tuscarawas River |
| AS-SU-38 | 46.1 | Trib to Tuscarawas River |
| A14-50-S1 | 83.3 | East Branch Black River |
| AS-LO-21 | 88.8 | Trib to West Branch Black River |
| AS-LO-20 | 89.0 | West Branch Black River |
| A14-197-S2/AS-ER-100-S2 | 100.3 | Trib to Vermillion River |
| AS-ER-100-S1 | 100.4 | Vermillion River |
| AS-ER-100-S3 | 100.4 | Trib to Vermillion River |
| A14-186-S1/AS-ER-19 | 112.9 | Huron River |
| AS-ER-20A | 113.0 | Trib to Huron River |
| AS-ER-20 | 113.1 | Trib to Huron River |
| E14-31-S1/AS-SA-5 | 141.3 | Sandusky River |
| AS-SA-6 | 141.5 | Trib to Sandusky River |
| AS-SA-75 | 157.4 | Portage River |
| AS-LU-1 | 176.1 | Maumee River |
| AS-LU-1A | 176.4 | Maumee River |
| **Michigan** | | |
| *Mainline* | | |
| E15-157-S1 | 231.9 | Saline River |
| AS-WA-11 | 245.0 | Huron River |

TABLE 2.3-4

**Surface Water Intakes**

| State, Facility County | Nearest MP | Municipality | Waterbody Intake |
|---|---|---|---|
| **Ohio** | | | |
| *Interconnecting Pipeline to TGP* | | | |
| None | | | |
| *Mainline* | | | |
| Lorain | 89.0 | Oberlin Water Department | West Branch Black River Reservoir |
| Fulton | 191.5 | Swanton Village | Swan Creek and Reservoir |
| **Michigan** | | | |
| *Mainline* | | | |
| Lenawee | 210.1 | Blissfield | River Raisin |

TABLE 2.3-5

**Surface Public Water Supply Protection Area Crossed by the NEXUS Project**

| Facility | State | County | Milepost Begin | Milepost End | Source | Municipality, County |
|---|---|---|---|---|---|---|
| *Mainline* | | | | | | |
| | OH | Columbiana-Medina | 0.0 | 69.6 | Ohio River | Cincinnati, Hamilton<br>East Liverpool, Columbiana<br>Ironton, Lawrence<br>Portsmouth, Scioto<br>Steubenville, Jefferson<br>Toronto, Jefferson |
| | OH | Lorain | 87.8 | 91.3 | West Branch of Black River Reservoir | Oberlin, Lorain |
| | OH | Fulton | 188.4 | 192.4 | Swanton Reservoir | Swanton, Fulton |
| *Interconnecting Pipeline to TGP* | | | | | | |
| | OH | Columbiana | 0.0 | 0.9 | Ohio River | Cincinnati, Hamilton<br>East Liverpool, Columbiana<br>Ironton, Lawrence<br>Portsmouth, Scioto<br>Steubenville, Jefferson<br>Toronto, Jefferson |
| *Aboveground* | | | | | | |
| NEXUS/TGP M&R Station | OH | Columbiana | 0.0 | 0.1 | Ohio River | Cincinnati, Hamilton<br>East Liverpool, Columbiana<br>Ironton, Lawrence<br>Portsmouth, Scioto<br>Steubenville, Jefferson<br>Toronto, Jefferson |
| NEXUS/Kensington M&R Station | OH | Columbiana | 0.0 | 0.6 | Ohio River | Cincinnati, Hamilton<br>East Liverpool, Columbiana<br>Ironton, Lawrence<br>Portsmouth, Scioto<br>Steubenville, Jefferson<br>Toronto, Jefferson |
| CS1 | OH | Columbiana | 1.3 | 1.5 | Ohio River | Cincinnati, Hamilton<br>Ironton, Lawrence<br>Portsmouth, Scioto |
| CS2 | OH | Medina | 60.3 | 60.5 | Ohio River | Cincinnati, Hamilton<br>Ironton, Lawrence<br>Portsmouth, Scioto |

TABLE 2.3-5

**Surface Public Water Supply Protection Area Crossed by the NEXUS Project**

| Facility | State | County | Milepost Begin | Milepost End | Source | Municipality, County |
|---|---|---|---|---|---|---|
| *Pipe Yards and Contractor Ware Yards* | | | | | | |
| Yard 1-1 | OH | Stark | 22.5 | 23.0 | Ohio River | Cincinnati, Hamilton<br>Ironton, Lawrence<br>Portsmouth, Scioto |

Table 2.3-6

**Sensitive Water Crossed by the NEXUS Project Pipeline Facilities**

| State, Facility | County | MP | Waterbody ID a/ | Waterbody Name | NRI ORV b/ | State Designation c/ |
|---|---|---|---|---|---|---|
| **Ohio** | | | | | | |
| *Mainline* | | | | | | |
| | Summit | 46.01 | AS-SU-37* | Tuscarawas River | S, R, H | N/A |
| | Erie | 100.40 | AS-ER-100-S1 | Vermillion River | R, G, W | OSW-E |
| | Erie | 112.85 | A14-186-S1/AS-ER-19* | Huron River | N/A | SHQW |
| | Sandusky | 141.28 | E14-31-S1* | Sandusky River | R, H | N/A |
| | Lucas | 176.12 | AS-LU-1/ AS-LU-1A* | Maumee River | N/A | OSW-R |
| *Interconnecting Pipeline to TGP* | | | | | | |
| | Columbiana | N/A | N/A | N/A | N/A | N/A |

a/ *: Indicates the waterbodies that are under USACE Section 10 of the Rivers and Harbors Act and designated as Navigable waters.
b/ NRI ORV Definitions
Scenery (S): The landscape elements of landform, vegetation, water, color, and related factors result in notable or exemplary visual features and/or attractions. When analyzing scenic values, additional factors -- such as seasonal variations in vegetation, scale of cultural modifications, and the length of time negative intrusions are viewed -- may be considered. Scenery and visual attractions may be highly diverse over the majority of the river or river segment.
Recreation (R): Recreational opportunities are, or have the potential to be, popular enough to attract visitors from throughout or beyond the region of comparison or are unique or rare within the region. Visitors are willing to travel long distances to use the river resources for recreational purposes. River-related opportunities could include, but are not limited to, sightseeing, wildlife observation, camping, photography, hiking, fishing and boating.
Geology (G): The river, or the area within the river corridor, contains one or more example of a geologic feature, process or phenomenon that is unique or rare within the region of comparison. The feature(s) may be in an unusually active stage of development, represent a "textbook" example, and/or represent a unique or rare combination of geologic features (erosional, volcanic, glacial, or other geologic structures).
Wildlife (W): Wildlife values may be judged on the relative merits of either terrestrial or aquatic wildlife populations or habitat or a combination of these conditions.
History (H): The river or area within the river corridor contains a site(s) or feature(s) associated with a significant event, an important person, or a cultural activity of the past that was rare or one-of-a-kind in the region. Many such sites are listed on the National Register of Historic Places. A historic site(s) and/or features(s) is 50 years old or older in most cases.
b/ State Designations are based on the OEPA Antidegradation Rule definitions.
SHQW: Surface waters that possess exceptional ecological values.
OSW-E: Waters that have special significance for the state because of their exceptional ecological values.
OSW-R: Waters that have special significance for the state because exceptional recreational values.

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody I.D. a/ | Waterbody Name | Milepost b/ | Beneficial Use Impaired c/ |
|---|---|---|---|
| **Ohio** | | | |
| *Mainline* | | | |
| *Ohio River Drainage Basin* | | | |
| Columbiana | | | |
| A14-5-S1 | Sandy Creek | 1.85 | Human Health<br>Recreation<br>Aquatic Health |
| A14-8-S1 | Trib to Sandy Creek | 3.8 | Human Health<br>Recreation<br>Aquatic Health |
| A14-10-S1 | Conser Run | 4.78 | Human Health<br>Recreation<br>Aquatic Health |
| A14-12-S1 | Trib to Conser Run | 6.31 | Human Health<br>Recreation<br>Aquatic Health |
| AS-CO-7 | Trib to Manhoning River | 7.72 | Recreation<br>Aquatic Health |
| A14-196-S1 | Trib to Middle Branch Sandy Creek | 9.58 | Human Health<br>Recreation |
| AS-CO-11 | Middle Branch Sandy Creek | 10.75 | Human Health<br>Recreation |
| A14-165-S2 | Trib to Woodland Lake | 11.94 | Human Health<br>Recreation |
| Stark | | | |
| AS-ST-7 | Beech Creek | 16.66 | Recreation<br>Aquatic Health |
| A14-23-S1 | Trib to Beech Creek | 18.9 | Recreation<br>Aquatic Health |
| A14-176-S1 | Trib to Beech Creek | 20.04 | Recreation<br>Aquatic Health |
| A14-176-S1 | Trib to Beech Creek | 20.09 | Recreation<br>Aquatic Health |
| A14-25-S1 | Middle Branch Nimishillen Creek | 21.32 | Human Health<br>Recreation<br>Aquatic Health |
| A14-175-S1 | Trib to Middle Branch Nimishillen Creek | 22.04 | Human Health<br>Recreation<br>Aquatic Health |
| A14-161-S1 | Trib to Middle Branch Nimishillen Creek | 23.87 | Human Health |

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody I.D. a/ | Waterbody Name | Milepost b/ | Beneficial Use Impaired c/ |
|---|---|---|---|
| | | | Recreation<br>Aquatic Health<br>Human Health |
| | A14-99-S1 | Middle Branch Nimishillen Creek | 26.07 | Recreation<br>Aquatic Health<br>Human Health |
| | A14-97-S1 | Swartz Ditch | 26.53 | Recreation<br>Aquatic Health<br>Human Health |
| | AS-ST-17 | Trib to Nimishillen Creek | 28.9 | Recreation<br>Aquatic Health<br>Human Health |
| | A14-158-S1 | Trib to Nimishillen Creek | 30.06 | Recreation<br>Aquatic Health<br>Human Health |
| | A14-164-S2 | West Branch Nimishillen Creek | 31.06 | Recreation<br>Aquatic Health |
| Summit | | | | |
| | AS-SU-5 | Trib to Tuscarawas River | 34.38 | Human Health<br>Recreation<br>Aquatic Health |
| | AS-SU-43 | Trib to Willowdale Lake | 35.38 | Recreation<br>Aquatic Health |
| | AS-SU-9 | Trib to Nimisila Reservoir | 36.13 | Recreation<br>Aquatic Health |
| | AS-SU-10 | Trib to Nimisila Reservoir | 36.42 | Recreation<br>Aquatic Health |
| | A14-166-S1 | Trib to Nimisila Reservoir | 36.72 | Recreation<br>Aquatic Health |
| | A14-112-S1 | Trib to Nimisila Reservoir | 37.15 | Recreation<br>Aquatic Health |
| | A14-112-S1-a | Trib to Nimisila Reservoir | 37.54 | Recreation<br>Aquatic Health |
| | A14-112-S1-b | Trib to Nimisila Reservoir | 37.73 | Recreation<br>Aquatic Health |
| | AS-SU-13A | Trib to Nimisila Reservoir | 38.05 | Recreation<br>Aquatic Health |
| | AS-SU-15 | Trib to Nimisila Reservoir | 38.76 | Recreation<br>Aquatic Health |
| | AS-SU-17 | Nimisila Creek | 39.66 | Human Health<br>Recreation |

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| **State, Drainage Basin, County, Waterbody I.D.** a/ | **Waterbody Name** | **Milepost** b/ | **Beneficial Use Impaired** c/ |
|---|---|---|---|
| AS-SU-23 | Trib to Nimisila Creek | 42.08 | Human Health<br>Recreation |
| AS-SU-32 | Trib to Tuscarawas River | 44.71 | Human Health<br>Recreation<br>Aquatic Health |
| AS-SU-37 | Tuscarawas River | 46.01 | Human Health<br>Recreation<br>Aquatic Health |
| AS-SU-40 | Pancake Creek | 46.77 | Human Health<br>Recreation<br>Aquatic Health |
| Wayne | | | |
| A14-124-S1 | Silver Creek | 50.32 | Human Health<br>Recreation<br>Aquatic Health |
| AS-WE-17 | Mill Creek | 53.01 | Human Health<br>Recreation<br>Aquatic Health |
| Medina | | | |
| AS-ME-6/A14-43-S1 | Styx River | 55.06 | Human Health<br>Recreation<br>Aquatic Health |
| AS-ME-14 | Trib to Styx River | 56.86 | Human Health<br>Recreation<br>Aquatic Health |
| A14-39-S1 | Tommy Run | 57.73 | Human Health<br>Recreation<br>Aquatic Health |
| A14-116-S2 | Trib to Hubbard Creek | 62.25 | Human Health<br>Recreation<br>Aquatic Health |
| B14-4-S1 | Hubbard Creek | 63.16 | Human Health<br>Recreation<br>Aquatic Health |
| AS-ME-34 | Trib to Chippewa Creek | 65.08 | Human Health<br>Recreation<br>Aquatic Health |
| AS-ME-37A | Trib to McCabe Creek | 65.7 | Human Health<br>Recreation<br>Aquatic Health |
| AS-ME-37 | McCabe Creek | 65.79 | Human Health |

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| **State, Drainage Basin, County, Waterbody I.D.** a/ | **Waterbody Name** | **Milepost** b/ | **Beneficial Use Impaired** c/ |
|---|---|---|---|
| | | | Recreation<br>Aquatic Health<br>Human Health |
| AS-ME-41A | Trib to The Inlet | 66.85 | Recreation<br>Aquatic Health<br>Human Health |
| AS-ME-46 | The Inlet | 67.81 | Recreation<br>Aquatic Health<br>Human Health |
| AS-ME-48 | Trib to the Inlet | 68.12 | Recreation<br>Aquatic Health |
| *Lake Erie Drainage Basin* | | | |
| A14-46-S1 | Trib to The Inlet | 68.35 | Human Health<br>Recreation<br>Aquatic Health |
| AS-ME-53 | Mallet Creek | 69.91 | Human Health<br>Aquatic Health |
| AS-ME-53 | Mallet Creek | 70.34 | Human Health<br>Aquatic Health |
| AS-ME-58B | Trib to Mallet Creek | 70.94 | Human Health<br>Aquatic Health |
| AS-ME-64 | Trib to Mallet Creek | 72.52 | Human Health<br>Aquatic Health |
| AS-ME-73 | Mallet Creek | 73.9 | Human Health<br>Aquatic Health |
| AS-ME-75 | Trib to Mallet Creek | 74.43 | Human Health<br>Aquatic Health |
| AS-ME-96 | Trib to West Branch Rocky River | 75.61 | Recreation<br>Aquatic Health |
| AS-LO-1 | Trib to East Branch Black River | 77.05 | Human Health<br>Recreation<br>Aquatic Health |
| AS-LO-1 | Trib to East Branch Black River | 77.16 | Human Health<br>Recreation<br>Aquatic Health |
| Lorain | | | |
| AS-LO-1 | Trib to East Branch Black River | 77.23 | Human Health<br>Recreation<br>Aquatic Health |

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| **State, Drainage Basin, County, Waterbody I.D.** a/ | **Waterbody Name** | **Milepost** b/ | **Beneficial Use Impaired** c/ |
|---|---|---|---|
| AS-LO-1 | Trib to East Branch Black River | 77.25 | Human Health<br>Recreation<br>Aquatic Health |
| A14-56-S1 | Trib to East Branch Black River | 78.17 | Human Health<br>Recreation<br>Aquatic Health |
| AS-LO-48 | Salt Creek | 80.97 | Human Health<br>Recreation<br>Aquatic Health |
| AS-LO-10 | Trib to East Branch Black River | 82.44 | Human Health<br>Recreation<br>Aquatic Health |
| AS-LO-10 | Trib to East Branch Black River | 82.55 | Human Health<br>Recreation<br>Aquatic Health |
| A14-5-S1 | East Branch Black River | 83.33 | Human Health<br>Recreation<br>Aquatic Health |
| A14-55-S1 | Trib to West Branch Black River | 83.92 | Human Health<br>Recreation<br>Aquatic Health |
| A14-73-S1 | King Ditch | 85.23 | Human Health<br>Recreation<br>Aquatic Health |
| A14-76-S1 | Kelner Ditch | 86.82 | Human Health<br>Recreation<br>Aquatic Health |
| AS-LO-17 | Elk Creek | 87.93 | Human Health<br>Recreation<br>Aquatic Health |
| AS-LO-19 | Wellington Creek | 88.37 | Recreation<br>Aquatic Health |
| AS-LO-21 | Trib to West Branch Black River | 88.84 | Human Health<br>Recreation<br>Aquatic Health |
| AS-LO-20 | West Branch Black River | 88.96 | Human Health<br>Recreation<br>Aquatic Health |
| AS-LO-22 | Trib to West Branch Black River | 89.18 | Human Health<br>Recreation<br>Aquatic Health |
| A14-141-S1 | Plum Creek | 92.67 | Human Health |

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody I.D. a/ | Waterbody Name | Milepost b/ | Beneficial Use Impaired c/ |
|---|---|---|---|
| | | | Recreation<br>Aquatic Health |
| A14-148-S1 | East Fork Vermillion River | 98.07 | Human Health<br>Aquatic Health |
| Erie | | | |
| AS-ER-10-S1 | Vermillion River | 100.4 | Human Health<br>Aquatic Health |
| AS-ER-49 | Trib to Chappel Creek | 101.89 | Aquatic Health |
| A14-187-S1 | Old Woman Creek | 109.12 | Recreation<br>Aquatic Health |
| AS-ER-12 | Trib to Old Women Creek | 109.82 | Recreation<br>Aquatic Health |
| A14-186-S1/AS-ER-19 | Huron River | 112.85 | Recreation<br>Aquatic Health |
| E14-97-S1 | Mud Brook | 114.88 | Recreation<br>Aquatic Health |
| AS-ER-25 | Zorn Beutal Ditch | 116.01 | Recreation |
| AS-ER-51 | Sherer Ditch | 116.21 | Recreation |
| AS-ER-52 | Sherer Ditch | 116.73 | Recreation |
| AS-ER-26 | Trib to Sherer Ditch | 117.81 | Recreation |
| AS-ER-28 | Trib to Pipe Creek | 119.77 | Recreation<br>Aquatic Health |
| AS-ER-38 | Trib to Pipe Creek | 121.45 | Recreation<br>Aquatic Health |
| E14-95-S1 | Pipe Creek | 121.6 | Recreation<br>Aquatic Health |
| E14-51-S1 | Caswell Ditch | 123.8 | Recreation<br>Aquatic Health |
| E14-94-S1 | Mills Creek | 124.88 | Recreation<br>Aquatic Health |
| Sandusky | | | |
| D14-1-S1 | Scherz Ditch | 129.98 | Recreation |
| D14-4-S1 | Strong Creek | 130.98 | Recreation |
| D14-6-S1 | Fuller Creek | 131.68 | Recreation<br>Aquatic Health |
| D14-7-S1 | Trib to Fuller Creek | 132.05 | Recreation<br>Aquatic Health |
| AS-SA-1 | Trib to Fuller Creek | 132.6 | Recreation<br>Aquatic Health |
| E14-105-S1 | Pickerel Creek | 133.6 | Recreation<br>Aquatic Health |

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody I.D. a/ | Waterbody Name | Milepost b/ | Beneficial Use Impaired c/ |
|---|---|---|---|
| D14-9-S1 | Little Raccoon Creek | 134.24 | Recreation<br>Aquatic Health |
| D14-8-S1 | Raccoon Creek | 135.47 | Recreation<br>Aquatic Health |
| E14-103-S1 | South Creek | 136.14 | Recreation<br>Aquatic Health |
| AS-SA-4 | Trib to South Creek | 136.71 | Recreation<br>Aquatic Health |
| AS-SA-78 | Green Creek | 137.24 | Recreation<br>Aquatic Health |
| D14-4-S1 | Bark Creek | 139.27 | Recreation<br>Aquatic Health |
| E14-31-S1 | Sandusky River | 141.28 | Recreation<br>Aquatic Health |
| AS-SA-82 | Little Muddy Creek | 144.3 | Recreation<br>Aquatic Health |
| E14-43-S1 | Muddy Creek | 148.3 | Human Health<br>Recreation<br>Aquatic Health |
| E14-42-S1 | Ninemile Creek | 150.13 | Human Health<br>Recreation<br>Aquatic Health |
| E14-3-S1 | Trib to Ninemile Creek | 150.87 | Human Health<br>Recreation<br>Aquatic Health |
| AS-SA-14 | Wolf Creek | 152.75 | Human Health<br>Recreation<br>Aquatic Health |
| D14-25-S1 | Sugar Creek | 153.55 | Human Health<br>Recreation<br>Aquatic Health |
| AS-SA-15 | Trib to Victoria Creek | 155.71 | Human Health<br>Recreation<br>Aquatic Health |
| E14-108-S1 | Victoria Creek | 156.22 | Human Health<br>Recreation<br>Aquatic Health |
| AS-SA-75 | Portage River | 157.42 | Human Health<br>Recreation<br>Aquatic Health |
| AS-SA-16 | Trib to Portage River | 158 | Human Health<br>Recreation |

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody I.D. a/ | Waterbody Name | Milepost b/ | Beneficial Use Impaired c/ |
|---|---|---|---|
| | | | Aquatic Health |
| Wood | | | |
| | | | Human Health |
| E14-111-S1 | Martin Ditch | 158.74 | Recreation |
| | | | Aquatic Health |
| | | | Human Health |
| D14-31-S1 | Trib to Martin Ditch | 159.59 | Recreation |
| | | | Aquatic Health |
| | | | Human Health |
| E14-85-S1 | Trib to Toussaint Creek | 160.46 | Recreation |
| | | | Aquatic Health |
| | | | Human Health |
| AS-WO-14 | Trib to Toussaint Creek | 161.64 | Recreation |
| | | | Aquatic Health |
| | | | Human Health |
| E14-175-S1 | Toussaint Creek | 162.19 | Recreation |
| | | | Aquatic Health |
| | | | Human Health |
| AS-WO-1 | Trib to Toussaint Creek | 163.07 | Recreation |
| | | | Aquatic Health |
| E14-79-S1 | Trib to Packer Creek | 165.29 | Human Health |
| | | | Aquatic Health |
| E14-8-S1 | Trib to Packer Creek | 165.67 | Human Health |
| | | | Aquatic Health |
| E14-4-S1 | Packer Creek | 165.98 | Human Health |
| | | | Aquatic Health |
| AS-WO-5 | Trib to Packer Creek | 167.43 | Human Health |
| | | | Aquatic Health |
| AS-WO-6 | Trib to Packer Creek | 168.81 | Recreation |
| | | | Aquatic Health |
| E14-35-S1 | Trib to Cedar Creek | 169.33 | Recreation |
| | | | Aquatic Health |
| AS-WO-8 | Trib to Cedar Creek | 172.03 | Recreation |
| D14-45A-S1 | Trib to Maumee River | 172.79 | Recreation |
| Lucas | | | |
| | | | Human Health |
| E14-116-S1 | Blystone Ditch | 177.24 | Recreation |
| | | | Aquatic Health |
| | | | Recreation |
| AS-LU-4 | Disher Ditch | 178.78 | Aquatic Health |
| AS-LU-5 | Harris Ditch | 179.95 | Recreation |

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody I.D. a/ | Waterbody Name | Milepost b/ | Beneficial Use Impaired c/ |
|---|---|---|---|
| | | | Aquatic Health |
| E14-22-S1 | Trib to Blue Creek | 181.27 | Recreation |
| | | | Aquatic Health |
| Fulton | | | |
| AS-FU-55 | Blue Creek | 185.6 | Recreation |
| AS-FU-55A | Trib to Blue Creek | 185.73 | Recreation |
| AS-FU-57 | Trib to Blue Creek | 186.97 | Recreation |
| AS-FU-61 | Trib to Blue Creek | 187.88 | Recreation |
| | | | Recreation |
| AS-FU-59 | Trib to Swan Creek | 188.54 | Aquatic Health |
| | | | Recreation |
| AS-FU-60 | Trib to Swan Creek | 189.66 | Aquatic Health |
| | | | Recreation |
| AS-FU-61 | Fewless Creek | 189.92 | Aquatic Health |
| | | | Recreation |
| AS-FU-63 | Swan Creek | 191.03 | Aquatic Health |
| | | | Recreation |
| AS-FU-66 | Trib to Swan Creek | 192.14 | Aquatic Health |
| | | | Recreation |
| AS-FU-67 | Trib to Ai Creek | 192.49 | Aquatic Health |
| | | | Recreation |
| AS-FU-68 | Trib to Ai Creek | 193.28 | Aquatic Health |
| | | | Recreation |
| E14-4-S1 | Ai Creek | 195.42 | Aquatic Health |
| | | | Recreation |
| AS-FU-20 | Frankfort Ditch | 196.76 | Aquatic Health |
| | | | Recreation |
| E14-112-S1 | Trib to McNett Ditch | 198.06 | Aquatic Health |
| | | | Human Health |
| D14-44-S1 | Trib to Langenderfer Ditch | 198.39 | Recreation |
| | | | Human Health |
| D14-44-S1 | Trib to Langenderfer Ditch | 198.51 | Recreation |
| | | | Human Health |
| D14-44-S1 | Trib to Langenderfer Ditch | 198.56 | Recreation |
| | | | Human Health |
| AS-FU-50 | Trib to Schmitz Ditch | 200.72 | Recreation |
| | | | Aquatic Health |
| | | | Human Health |
| D14-45-S1 | Tenmile Creek | 202.37 | Recreation |
| | | | Aquatic Health |

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| State, Drainage Basin, County, Waterbody I.D. a/ | Waterbody Name | Milepost b/ | Beneficial Use Impaired c/ |
|---|---|---|---|
| **Michigan** | | | |
| Lenawee | | | |
| AS-LE-3/E14-140-S1 | River Raisin | 209.77 | Fish Consumption |
| AS-LE-5 | Trib to River Raisin | 210.67 | Fish Consumption |
| E14-143-S1 | Little River Raisin | 214.85 | Fish Consumption |
| E14-64-S1 | Fry Drain | 215.07 | Fish Consumption |
| E14-69-S1 | Isley Drain | 216.41 | Fish Consumption |
| E14-76-S1 | Swamp Raisin Creek | 216.85 | Fish Consumption |
| E14-147-S1 | Dibble Drain | 220.35 | Fish Consumption |
| E14-127-S1 | South Branch Macon Creek | 220.75 | Fish Consumption |
| E14-74-S1 | Schreeder Brook | 221.15 | Fish Consumption |
| E14-149-S1/AS-LE-12 | Trib to Middle Branch Macon Creek | 223.11 | Fish Consumption |
| E14-87-S1 | Macon Creek | 223.86 | Fish Consumption<br>Aquatic Life and Wildlife |
| E14-61-S1 | Trib to Macon Creek | 224.14 | Fish Consumption |
| Monroe | | | |
| E14-63-S1 | Trib to Richardson Drain | 225.03 | Fish Consumption |
| AS-MO-1 | Richardson Drain | 225.74 | Fish Consumption |
| E14-65-S1 | Bear Swamp Creek | 226.22 | Fish Consumption |
| E14-66-S1 | Trib to Bear Swamp Creek | 226.71 | Fish Consumption |
| AS-MO-11 | Cone Drain | 227.6 | Fish Consumption |
| AS-MO-10 | Center Creek | 228.71 | Fish Consumption |
| AS-MO-4 | North Branch Macon Creek | 230.29 | Fish Consumption |
| Washtenaw | | | |
| E14-157-S1 | Saline River | 231.88 | Fish Consumption |
| E14-161-S1 | Trib to McCarthy Drain | 237.94 | Aquatic Life and Wildlife |
| E14-135-S1 | McCarthy Drain | 238.41 | Aquatic Life and Wildlife |
| E14-162-S1 | West Branch Paint Creek | 239 | Aquatic Life and Wildlife |
| AS-WA-5 | Bird Drain | 239.55 | Aquatic Life and Wildlife |
| AS-WA-6/E14-164-S1 | Paint Creek | 240.45 | Aquatic Life and Wildlife |
| E14-176-S1 | Trib to Paint Creek | 240.75 | Aquatic Life and Wildlife |
| AS-WA-11 | Huron River | 245.03 | Fish Consumption |
| *Interconnecting Pipeline to TGP* | | | |
| Ohio River Drainage Basin | | | |
| Columbiana | | | |
| N/A | N/A | N/A | N/A |

a/ Identifies State and County where the stream is located, Drainage Area where stream is located and Project Identifier.
b/ Stream crossing referenced by nearest NEXUS Project pipeline facility milepost.

TABLE 2.3-7

**Impaired Surface Waters Crossed by NEXUS Project**

| **State, Drainage Basin, County, Waterbody I.D.** a/ | **Waterbody Name** | **Milepost** b/ | **Beneficial Use Impaired** c/ |
|---|---|---|---|

c/ Beneficial use impairment was identified by the 2014 Ohio Integrated Water Quality Monitoring Report and OEPA GIS data and the 2014 Michigan Integrated Water Quality Monitoring Report.

**Human Health** - Ohio -waterbodies with a weighted average fish tissue concentration of PCBs, mercury, DDT, chlordane, or hexachlorobenzene above the WQS-based fish tissue concentration is then assigned a corresponding score.

**Recreation** -Ohio - waterbodies with a seasonal geometric mean E.coli content based on samples from the recreation season within a calendar year exceeds the predetermined levels of acceptance.

**Aquatic Life**- Ohio - A biological community at an EWH, WWH, or MWH sampling site must achieve the relevant criteria for all three indices, or those available and/or applicable, in order to be in full attainment of the designated aquatic life use criteria. Partial attainment is determined if one criterion is not achieved while nonattainment results when all biological scores are less than the criteria or if poor or very poor index scores are measured in either fish or macroinvertebrate communities.

**Aquatic Life/Wildlife and Fish Consumption** -Michigan surface waters impacted by polychlorinated biphenyls (PCBs) and mercury do not support the other indigenous aquatic life and wildlife designated use and/or the fish consumption designated use.

TABLE 2.3-8

**FEMA Flood Zones Crossed by the NEXUS Project**

| State, Facility, County | Milepost Enter a/ | Milepost Exit a/ | FEMA Flood Zone b/ |
|---|---|---|---|
| ***Ohio*** | | | |
| *Mainline* | | | |
| Columbiana | 1.76 | 1.83 | A |
| Columbiana | 1.83 | 1.85 | A |
| Columbiana | 1.86 | 1.90 | A |
| Columbiana | 1.99 | 2.00 | A |
| Columbiana | 2.02 | 2.07 | A |
| Columbiana | 2.07 | 2.07 | A |
| Columbiana | 2.11 | 2.12 | A |
| Columbiana | 4.78 | 4.87 | A |
| Columbiana | 4.88 | 4.88 | A |
| Columbiana | 4.90 | 4.91 | A |
| Columbiana | 10.74 | 10.80 | A |
| Stark | 25.02 | 25.02 | A |
| Stark | 25.93 | 26.19 | A |
| Stark | 26.48 | 26.57 | A |
| Stark | 31.05 | 31.05 | AE |
| Stark | 31.05 | 31.06 | AE |
| Stark | 31.06 | 31.06 | AE |
| Stark | 31.08 | 31.09 | AE |
| Stark | 31.09 | 31.10 | AE |
| Stark | 31.10 | 31.11 | AE |
| Stark | 31.18 | 31.20 | AE |
| Stark | 31.20 | 31.26 | AE |
| Stark | 31.31 | 31.31 | AE |
| Stark | 32.60 | 32.73 | AE |
| Summit | 39.68 | 39.68 | A |
| Summit | 39.71 | 39.92 | A |
| Summit | 45.91 | 45.96 | AE |
| Summit | 45.96 | 46.03 | AE |
| Summit | 46.75 | 46.82 | A |
| Wayne | 50.32 | 50.33 | A |
| Medina | 54.89 | 54.91 | AE |
| Medina | 54.97 | 55.04 | AE |
| Medina | 55.04 | 55.11 | AE |
| Medina | 55.11 | 55.28 | AE |
| Medina | 57.70 | 57.72 | AE |
| Medina | 57.72 | 57.74 | AE |
| Medina | 57.74 | 57.74 | AE |
| Medina | 65.77 | 65.79 | A |
| Medina | 67.80 | 67.81 | AE |
| Medina | 68.12 | 68.12 | AE |
| Medina | 68.35 | 68.36 | A |
| Medina | 73.87 | 73.88 | AE |
| Medina | 73.88 | 73.92 | AE |
| Medina | 73.92 | 73.95 | AE |
| Lorain | 80.94 | 81.02 | A |
| Lorain | 83.02 | 83.35 | A |

TABLE 2.3-8

**FEMA Flood Zones Crossed by the NEXUS Project**

| State, Facility, County | Milepost Enter a/ | Milepost Exit a/ | FEMA Flood Zone b/ |
|---|---|---|---|
| Lorain | 85.18 | 85.20 | A |
| Lorain | 85.21 | 85.37 | A |
| Lorain | 86.80 | 86.85 | A |
| Lorain | 87.92 | 87.94 | A |
| Lorain | 88.36 | 88.43 | A |
| Lorain | 88.80 | 89.35 | A |
| Lorain | 92.63 | 92.66 | AE |
| Lorain | 92.66 | 92.67 | AE |
| Lorain | 92.67 | 92.67 | AE |
| Lorain | 98.05 | 98.11 | A |
| Erie | 100.37 | 100.43 | A |
| Erie | 100.37 | 100.43 | A |
| Erie | 101.79 | 101.91 | A |
| Erie | 101.79 | 101.91 | A |
| Erie | 109.12 | 109.22 | A |
| Erie | 109.12 | 109.22 | A |
| Erie | 109.30 | 109.31 | A |
| Erie | 109.30 | 109.31 | A |
| Erie | 109.81 | 109.87 | A |
| Erie | 109.81 | 109.87 | A |
| Erie | 110.23 | 110.26 | A |
| Erie | 110.23 | 110.26 | A |
| Erie | 111.36 | 111.37 | A |
| Erie | 111.36 | 111.37 | A |
| Erie | 111.71 | 111.72 | A |
| Erie | 111.71 | 111.72 | A |
| Erie | 112.48 | 112.52 | AE |
| Erie | 112.48 | 112.52 | AE |
| Erie | 112.70 | 112.75 | AE |
| Erie | 112.70 | 112.75 | AE |
| Erie | 112.75 | 112.93 | AE |
| Erie | 112.75 | 112.93 | AE |
| Erie | 112.93 | 112.97 | AE |
| Erie | 112.93 | 112.97 | AE |
| Erie | 113.42 | 113.46 | A |
| Erie | 113.42 | 113.46 | A |
| Erie | 114.34 | 114.37 | A |
| Erie | 114.34 | 114.37 | A |
| Erie | 114.70 | 114.74 | A |
| Erie | 114.70 | 114.74 | A |
| Erie | 114.83 | 114.89 | A |
| Erie | 114.83 | 114.89 | A |
| Erie | 121.45 | 121.47 | A |
| Erie | 121.45 | 121.47 | A |
| Erie | 121.58 | 121.65 | A |
| Erie | 121.58 | 121.65 | A |
| Erie | 124.64 | 125.00 | A |
| Erie | 124.64 | 125.00 | A |
| Erie | 125.01 | 125.06 | A |
| Erie | 125.01 | 125.06 | A |

TABLE 2.3-8

**FEMA Flood Zones Crossed by the NEXUS Project**

| State, Facility, County | Milepost Enter a/ | Milepost Exit a/ | FEMA Flood Zone b/ |
|---|---|---|---|
| Erie | 127.15 | 127.15 | A |
| Sandusky | 127.15 | 127.33 | A |
| Sandusky | 130.97 | 130.99 | A |
| Sandusky | 131.66 | 131.74 | A |
| Sandusky | 133.52 | 133.65 | A |
| Sandusky | 135.42 | 135.53 | A |
| Sandusky | 136.13 | 136.14 | A |
| Sandusky | 136.65 | 136.74 | A |
| Sandusky | 137.08 | 137.26 | A |
| Sandusky | 139.23 | 139.37 | A |
| Sandusky | 141.00 | 141.10 | AE |
| Sandusky | 141.12 | 141.18 | AE |
| Sandusky | 141.18 | 141.33 | AE |
| Sandusky | 141.33 | 141.33 | AE |
| Sandusky | 141.42 | 141.54 | AE |
| Sandusky | 144.28 | 144.34 | A |
| Sandusky | 148.29 | 148.44 | A |
| Sandusky | 148.81 | 148.82 | A |
| Sandusky | 150.11 | 150.13 | A |
| Sandusky | 153.51 | 153.63 | A |
| Sandusky | 157.40 | 157.59 | A |
| Wood | 160.46 | 160.46 | A |
| Wood | 162.13 | 162.23 | A |
| Wood | 162.23 | 162.24 | A |
| Wood | 165.98 | 165.99 | A |
| Wood | 176.04 | 176.05 | AE |
| Wood | 176.05 | 176.12 | AE |
| Lucas | 176.14 | 176.43 | AE |
| Lucas | 176.43 | 176.44 | AE |
| Lucas | 177.24 | 177.24 | AE |
| Lucas | 177.24 | 177.24 | AE |
| Lucas | 177.24 | 177.28 | AE |
| Lucas | 177.35 | 177.36 | AE |
| Lucas | 179.92 | 179.96 | AE |
| Lucas | 179.97 | 179.98 | A |
| Fulton | 185.42 | 185.42 | AE |
| Fulton | 185.43 | 185.43 | AE |
| Fulton | 185.44 | 185.57 | AE |
| Fulton | 185.57 | 185.63 | AE |
| Fulton | 185.73 | 185.74 | AE |
| Fulton | 185.80 | 185.81 | AE |
| Fulton | 189.66 | 189.66 | AE |
| Fulton | 189.90 | 189.94 | AE |
| Fulton | 189.94 | 189.96 | AE |
| Fulton | 190.54 | 190.63 | AE |
| Fulton | 190.96 | 191.02 | AE |
| Fulton | 191.02 | 191.06 | AE |
| Fulton | 191.06 | 191.07 | AE |
| Fulton | 195.41 | 195.45 | AE |
| Fulton | 195.45 | 195.51 | AE |

TABLE 2.3-8

**FEMA Flood Zones Crossed by the NEXUS Project**

| State, Facility, County | Milepost Enter a/ | Milepost Exit a/ | FEMA Flood Zone b/ |
|---|---|---|---|
| Fulton | 202.35 | 202.36 | AE |
| Fulton | 202.36 | 202.37 | AE |
| Fulton | 202.37 | 202.41 | AE |
| ***Michigan*** | | | |
| Monroe | 225.03 | 225.03 | A |
| Monroe | 225.73 | 225.74 | A |
| Monroe | 226.22 | 226.23 | A |
| Monroe | 226.71 | 226.73 | A |
| Monroe | 227.54 | 227.68 | A |
| Monroe | 228.40 | 228.42 | A |
| Monroe | 228.70 | 228.74 | A |
| Monroe | 229.67 | 229.68 | A |
| Monroe | 230.26 | 230.35 | A |
| Washtenaw | 231.70 | 231.89 | A |
| Washtenaw | 238.40 | 238.42 | A |
| Washtenaw | 238.95 | 238.98 | AE |
| Washtenaw | 238.98 | 239.08 | AE |
| Washtenaw | 239.08 | 239.16 | AE |
| Washtenaw | 240.33 | 240.42 | AE |
| Washtenaw | 240.42 | 240.50 | AE |
| Washtenaw | 240.50 | 240.52 | AE |
| Washtenaw | 244.96 | 244.97 | AE |
| Washtenaw | 244.97 | 245.05 | AE |
| Washtenaw | 245.05 | 245.05 | AE |
| **Ohio** | | | |
| Interconnecting Pipeline to TGP | | | |
| Columbiana | -- | -- | -- |
| *Aboveground Facilities* | | | |
| -- | -- | -- | -- |
| *Pipe Yards and Contractor Ware Yards* | | | |
| Yard 2-1 | 106.4 | -- | A |
| Yard 3-2 | 176.5 | -- | AE |

a/ Approximate enter and exit MP along the proposed pipeline centerline rounded to the nearest hundredth.
b/ Flood hazard areas identified on the Flood Insurance Rate Map are identified as a Special Flood Hazard Area (SFHA). SFHA are defined as the area that will be inundated by the flood event having a 1-percent chance of being equaled or exceeded in any given year.
FEMA Flood Zone A: Areas subject to inundation by the 1-percent-annual-chance (100 year) flood event generally determined using approximate methodologies.
FEMA Flood Zone AE: Areas subject to inundation by the 1-percent-annual-chance (100 year). Flood event determined by detailed methods.

TABLE 2.3-9

**Potential Hydrostatic Testing Water Sources for Project Pipeline Segments**

| State/Facility | Estimated Volume Uptake (gallons) | Potential Source(s) | Approximate Withdrawal Milepost | Withdrawal Watershed (HUC 8) | Approximate Discharge Milepost | Discharge Watershed (HUC 8) | Maximum Discharge Rate (gallons per minute) | Discharge (gallons) | Miles of Pipe in Fill Section | Miles of Pipe in Discharge Section | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ohio** | | | | | | | | | | | |
| ***Mainline*** | 11,028,075 | Lake P'na | 6.7 | 05030103 | N/A | N/A | 9,000 | N/A | 39.5 | N/A | Spread 1 Fill taken from Lake P'na. |
| | N/A | N/A | N/A | N/A | 0.0 | 05030101 | 9,000 | 1,870,590 | N/A | 6.7 | Spread 1 Partial discharge of volume taken from Lake P'na. |
| | N/A | N/A | N/A | N/A | 17.8 | 05030103 | 9,000 | 3,099,025 | N/A | 11.1 | Spread 1 Partial discharge of volume taken from Lake P'na. |
| | N/A | N/A | N/A | N/A | 31.0 | 05040001 | 9,000 | 3,509,840 | N/A | 13.2 | Spread 1 Partial discharge of volume taken from Lake P'na. |
| | N/A | N/A | N/A | N/A | 39.5 | 05040001 | 9,000 | 2,548,620 | N/A | 8.5 | Spread 1 Balance of discharge of volume taken from Lake P'na. |
| | 3,182,790 | Comet Lake | 39.5 | 05040001 | 50.9 | 05040001 | 9,000 | 3,182,790 | 11.4 | 11.4 | Spread 1 |
| | 9,101,650 | Silver Creek Lake | 50.9 | 05040001 | N/A | N/A | 9,000 | 0 | 32.6 | N/A | Spread 2 Fill taken from Silver Creek Lake |
| | N/A | N/A | N/A | N/A | 59.4 | 05040001 | 9,000 | 2,548,620 | N/A | 8.5 | Spread 2 Partial discharge of volume taken from Silver Creek Lake |

TABLE 2.3-9

**Potential Hydrostatic Testing Water Sources for Project Pipeline Segments**

| State/Facility | Estimated Volume Uptake (gallons) | Potential Source(s) | Approximate Withdrawal Milepost | Withdrawal Watershed (HUC 8) | Approximate Discharge Milepost | Discharge Watershed (HUC 8) | Maximum Discharge Rate (gallons per minute) | Discharge (gallons) | Miles of Pipe in Fill Section | Miles of Pipe in Discharge Section | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | N/A | N/A | N/A | N/A | 65.4 | 05040001 | 9,000 | 1,675,150 | N/A | 6.0 | Spread 2 Partial discharge of volume taken from Silver Creek Lake |
| | N/A | N/A | N/A | N/A | 83.5 | 04110001 | 9,000 | 4,877,880 | N/A | 18.1 | Spread 2 Balance of discharge of volume taken from Silver Creek Lake |
| | 1,647,230 | Unnamed lake near Grafton, OH | 83.5 | 04110001 | 89.4 | 04110001 | 9,000 | 1,647,230 | 5.9 | 5.9 | Spread 2. Fill taken from Unnamed Lake near Grafton, OH |
| | 6,533,080 | Huron River | 112.8 | 04100012 | N/A | N/A | 9,000 | 0 | 23.4 | N/A | Spread 2 Fill taken from Huron River |
| | N/A | N/A | N/A | N/A | 98.9 | 04100012 | 9,000 | 2,562,320 | N/A | 9.5 | Spread 2 Partial discharge of volume taken from Huron River |
| | N/A | N/A | N/A | N/A | 112.8 | 04100012 | 9,000 | 3,970,760 | N/A | 13.9 | Spread 2 Partial discharge of volume taken from Huron River |
| | 4,327,470 | Huron River | 112.8 | 04100012 | 128.3 | 04100011 | 9,000 | 4,327,470 | 15.5 | 15.5 | Spread 2 Balance of discharge volume taken from Huron River |
| | 3,545,730 | Sandusky River | 141.2 | 04100011 | 141.0 | 04100011 | 9,000 | 3,545,730 | 12.7 | 12.7 | Spread 3. Fill taken from Sandusky River |

TABLE 2.3-9

**Potential Hydrostatic Testing Water Sources for Project Pipeline Segments**

| State/Facility | Estimated Volume Uptake (gallons) | Potential Source(s) | Approximate Withdrawal Milepost | Withdrawal Watershed (HUC 8) | Approximate Discharge Milepost | Discharge Watershed (HUC 8) | Maximum Discharge Rate (gallons per minute) | Discharge (gallons) | Miles of Pipe in Fill Section | Miles of Pipe in Discharge Section | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4,550,820 | Sandusky River | 141.2 | 04100011 | 141.0 | 04100011 | 9,000 | 4,550,820 | 16.3 | 16.3 | Spread 3. Fill taken from Sandusky River |
| | 5,192,960 | Portage River | 157.4 | 04100010 | 157.3 | 04100010 | 9,000 | 5,192,960 | 18.6 | 18.6 | Spread 3. Fill taken from Portage River |
| | 5,053,370 | Maumee River | 176.1 | 04100009 | N/A | N/A | 9,000 | 0 | 18.1 | N/A | Spread 3 Fill taken from Maumee River |
| | 2,456,890 | City of Waterville | 176.9 | 04100009 | N/A | N/A | 9,000 | 0 | 8.8 | N/A | Spread 3 Fill taken from City of Waterville |
| | N/A | N/A | N/A | N/A | 176.9 | 04100009 | 9,000 | 4,215,780 | N/A | 15.1 | Spread 3. Partial discharge of volume taken from Maumee River and City of Waterville |
| | N/A | N/A | N/A | N/A | 191.0 | 04100009 | 9,000 | 3,294,480 | N/A | 11.8 | Spread 3. Balance of discharge of volume taken from Maumee River and City of Waterville |
| ***Interconnecting Pipeline to TGP*** | 251,275 | Lake P'na | 6.7 | 05030103 | 0.0 | 05030101 | 9,000 | 251,275 | 0.9 | 0.9 | Filled off Spread 1, Fill Taken from Lake P'na. |
| ***Ohio Subtotal*** | ***56,871,340*** | | | | | | | ***56,871,340*** | ***203.7*** | ***203.7*** | |

TABLE 2.3-9

**Potential Hydrostatic Testing Water Sources for Project Pipeline Segments**

| State/Facility | Estimated Volume Uptake (gallons) | Potential Source(s) | Approximate Withdrawal Milepost | Withdrawal Watershed (HUC 8) | Approximate Discharge Milepost | Discharge Watershed (HUC 8) | Maximum Discharge Rate (gallons per minute) | Discharge (gallons) | Miles of Pipe in Fill Section | Miles of Pipe in Discharge Section | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Michigan** | | | | | | | | | | | |
| ***Mainline*** | 1,926,420 | River Raisin | 209.8 | 04100002 | 209.7 | 04100002 | 9,000 | 1,926,420 | 6.9 | 6.9 | Spread 4. Fill taken from River Raisin |
| | 3,601,570 | River Raisin | 209.8 | 04100002 | 209.7 | 04100002 | 9,000 | 3,601,570 | 12.9 | 12.9 | Spread 4. Fill taken from River Raisin |
| | 2,568,565 | Saline River | 231.8 | 04100002 | 231.8 | 04100002 | 9,000 | 2,568,565 | 9.2 | 9.2 | Spread 4. Fill taken from Saline River |
| | 2,736,080 | Saline River | 231.8 | 04100002 | 231.8 | 04100002 | 9,000 | 2,736,080 | 9.8 | 9.8 | Spread 4. Fill taken from Saline River |
| | 1,005,090 | Huron River | 245.2 | 04090005 | 245.2 | 04090005 | 9,000 | 1,005,090 | 3.6 | 3.6 | Spread 4. Fill taken from Huron River |
| | 1,060,928 | Huron River | 245.2 | 04090005 | 245.2 | 04090005 | 9,000 | 1,060,928 | 3.8 | 3.8 | Spread 4. Fill taken from Huron River |
| ***Michigan Subtotal*** | ***12,898,653*** | | | | | | | ***12,898,653*** | ***46.2*** | ***46.2*** | |
| **PROJECT TOTAL** | ***69,769,993*** | | | | | | | ***69,769,993*** | ***249.9*** | ***249.9*** | |

Notes:
N/A = Not Applicable
Test sections are filled concurrently and tested separately.

TABLE 2.3-10

**Potential Sources of Hydrostatic Test Water for Project Aboveground Facilities**

| Facility | Estimated Volume (gallons) a/ | Potential Source(s) | Discharge Location b/ |
|---|---|---|---|
| ***Compressor Stations*** | | | |
| Compressor Station 1 - Hanoverton | 124,600 | City Water | 1.2 |
| Compressor Station 2 - Wadsworth | 111,600 | On Site Well | 60.3 |
| Compressor Station 3 - Clyde | 114,440 | On Site Well | 129.5 |
| Compressor Station 4 - Waterville | 118,700 | City Water | 178.1 |
| ***Meter Stations*** | | | |
| MR01 | 42,400 | City Water | 0.0 |
| MR02 | 42,400 | City Water | TGP 1.9 |
| MR03 | 42,400 | City Water | 0.0 |
| MR04 | 51,330 | City Water | 249.0 |
| **Aboveground Facilities Total** | **647,870** | | |

a/ Volumes for Meter Stations do not include skid piping. This piping is tested during initial fabrication prior to arriving at the Project site. Testing as part of the Project installation is not anticipated.
b/ Approximate milepost location provided.

TABLE 2.3-11

**Potential Hydrostatic Test Water for the NEXUS Project HDDs**

| HDD State/Facility | Milepost of the HDD Exit | Maximum Estimated Volume (gallons) | | Water Source |
|---|---|---|---|---|
| | | Hydrostatic Test Water | HDD Operations | |
| **Ohio** | | | | |
| ***Mainline*** | | | | |
| RR and Tuscarawas River | 46.2 | 221,000 | 1,500,000 | Tuscarawas River |
| East Branch of Black River | 83.5 | 155,300 | 750,000 | Black River |
| West Branch of Black River | 89.0 | 181,800 | 750,000 | Black River |
| Vermillion River | 100.6 | 250,950 | 1,100,000 | Vermillion River |
| Huron River | 113.2 | 256,300 | 1,625,000 | Huron River |
| Sandusky River | 141.6 | 282,900 | 1,350,000 | Sandusky River |
| Portage River | 157.6 | 160,600 | 750,000 | Portage River |
| Maumee River | 175.9 | 405,200 | 1,925,000 | Maumee River |
| **Michigan** | | | | |
| ***Mainline*** | | | | |
| Saline River | 231.7 | 165,900 | 1,400,000 | Saline River |
| Hydro Park | 244.8 | 224,400 | 2,000,000 | Huron River |
| I-94 | 245.6 | 160,600 | 750,000 | City of Detroit |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ***Ohio*** | | | | | |
| *Mainline* | | | | | |
| ATWS-0632 | A14-5-S2 | 1.8 | 1.9 | 4 | Road and Waterbody Crossing |
| ATWS-0632 | A14-5-S1 | 1.8 | 1.9 | 8 | Road and Waterbody Crossing |
| ATWS-0631 | A14-5-S3 | 1.9 | 1.9 | 23 | Road and Waterbody Crossing |
| ATWS-1096 | A14-5-S3 | 2.1 | 2.1 | 0 | Road and Waterbody Crossing |
| ATWS-0603 | A14-126-S1 | 5.5 | 5.5 | 29 | Waterbody Crossing |
| ATWS-0029 | A14-125-S1 | 6.8 | 6.8 | 11 | Road Crossing |
| ATWS-0026 | AS-CO-9 | 7.8 | 7.9 | 26 | Road and Waterbody Crossing |
| ATWS-1100 | AS-CO-9 | 7.9 | 8 | 36 | Road and Waterbody Crossing |
| ATWS-0652 | A14-196-S1 | 9.5 | 9.6 | 22 | Waterbody Crossing |
| ATWS-0653 | A14-196-S1 | 9.6 | 9.6 | 18 | Waterbody Crossing |
| ATWS-1121 | AS-CO-12 | 11.2 | 11.3 | 26 | Road and Waterbody Crossing |
| ATWS-1877 | AS-CO-12A | 11.4 | 11.5 | 23 | Waterbody Crossing |
| ATWS-0729 | A14-165-S1 | 11.9 | 11.9 | 10 | Waterbody Crossing |
| ATWS-0729 | A14-165-S2 | 11.9 | 11.9 | 10 | Waterbody Crossing |
| ATWS-0044 | A14-105-S1 | 17.2 | 17.3 | 12 | Waterbody Crossing |
| ATWS-0043 | A14-105-S1 | 17.3 | 17.3 | 49 | Waterbody Crossing |
| ATWS-1881 | A14-103-S1 | 17.7 | 17.8 | 12 | Waterbody Crossing |
| ATWS-0648 | A14-172-S3 | 19.5 | 19.6 | 7 | Road and Waterbody Crossing |
| ATWS-0052 | A14-176-S2 | 20.1 | 20.2 | 30 | Waterbody Crossing |
| ATWS-1151 | A14-25-S1 | 21.3 | 21.3 | 24 | Road and Waterbody Crossing |
| ATWS-0689 | A14-175-S1 | 22 | 22 | 45 | Waterbody Crossing |
| ATWS-0688 | A14-175-S1 | 22 | 22.1 | 10 | Waterbody Crossing |
| ATWS-1158 | A14-27-S1 | 23.2 | 23.4 | 14 | Waterbody Crossing |
| ATWS-0733 | A14-26-S1 | 23.2 | 23.2 | 44 | Waterbody Crossing |
| ATWS-1886 | A14-27-S1 | 23.4 | 23.5 | 22 | Waterbody Crossing |
| ATWS-0646 | A14-31-S1 | 25 | 25 | 26 | Waterbody Crossing |
| ATWS-0645 | A14-31-S1 | 25 | 25.1 | 17 | Waterbody Crossing |
| ATWS-1169 | A14-99-S1 | 26 | 26.1 | 14 | Waterbody Crossing |
| ATWS-0071 | A14-99-S1 | 26 | 26.1 | 14 | Waterbody Crossing |
| ATWS-1887 | A14-99-S2 | 26.1 | 26.1 | 19 | Waterbody Crossing |
| ATWS-0072 | A14-99-S2 | 26.1 | 26.1 | 16 | Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-0086 | AS-ST-14 | 28.5 | 28.6 | 0 | Road and Waterbody Crossing |
| ATWS-1179 | AS-ST-15 | 28.6 | 28.6 | 10 | Waterbody Crossing |
| ATWS-0737 | AS-ST-15 | 28.6 | 28.6 | 16 | Road and Waterbody Crossing |
| ATWS-1181 | AS-ST-17 | 28.9 | 28.9 | 15 | Waterbody Crossing |
| ATWS-0739 | AS-ST-17 | 28.9 | 29 | 14 | Waterbody Crossing |
| ATWS-1183 | AP-ST-25 | 29.3 | 29.4 | 33 | Waterbody Crossing |
| ATWS-2160 | A14-159-S1 | 29.7 | 29.9 | 12 | Road and Waterbody Crossing |
| ATWS-1998 | AS-ST-24 | 29.9 | 30.1 | 11 | Waterbody Crossing |
| ATWS-1998 | A14-159-S1 | 29.9 | 30.1 | 15 | Waterbody Crossing |
| ATWS-1998 | A14-158-S1 | 29.9 | 30.1 | 11 | Waterbody Crossing |
| ATWS-0612 | A14-158-S1 | 30 | 30 | 49 | Road and Waterbody Crossing |
| ATWS-0613 | A14-158-S1 | 30.1 | 30.1 | 11 | Road and Waterbody Crossing |
| ATWS-1185 | AS-ST-24 | 30.1 | 30.4 | 13 | Road and Waterbody Crossing |
| ATWS-1185 | A14-158-S1 | 30.1 | 30.4 | 13 | Road and Waterbody Crossing |
| ATWS-2165 | A14-163-S1 | 30.7 | 30.8 | 39 | Waterbody Crossing |
| ATWS-0691 | A14-164-S2 | 31.1 | 31.1 | 17 | Road and Waterbody Crossing |
| ATWS-0090 | A14-164-S1 | 31.1 | 31.2 | 42 | Road and Waterbody Crossing |
| ATWS-1384 | A14-164-S1 | 31.3 | 31.3 | 20 | Waterbody Crossing |
| ATWS-1996 | AS-SU-5 | 34.4 | 34.5 | 49 | Waterbody Crossing |
| ATWS-0574 | AS-SU-9 | 36.1 | 36.1 | 11 | Waterbody Crossing |
| ATWS-1993 | A14-166-S1 | 36.5 | 36.7 | 12 | Waterbody Crossing |
| ATWS-1400 | A14-166-S1 | 36.7 | 36.9 | 17 | Waterbody Crossing |
| ATWS-2087 | A14-112-S1 | 37.1 | 37.2 | 30 | Waterbody Crossing |
| ATWS-2089 | AS-SU-13 | 38 | 38 | 50 | Waterbody Crossing |
| ATWS-0101 | AS-SU-13A | 38 | 38 | 39 | Road and Waterbody Crossing |
| ATWS-2091 | A14-120-S2 | 38.4 | 38.5 | 35 | Waterbody Crossing |
| ATWS-1402 | A14-120-S1 | 38.5 | 38.6 | 48 | Constructability |
| ATWS-1402 | A14-120-S2 | 38.5 | 38.6 | 19 | Constructability |
| ATWS-0548 | A14-120-S1 | 38.6 | 38.7 | 34 | Waterbody Crossing |
| ATWS-0578 | AS-SU-21A | 41.6 | 41.7 | 0 | Waterbody Crossing |
| ATWS-1986 | B14-1-S1 | 43.3 | 43.3 | 44 | Constructability |
| ATWS-1368 | AS-SU-29 | 43.8 | 43.9 | 17 | Waterbody Crossing |
| ATWS-0119 | AS-SU-30 | 44.1 | 44.1 | 0 | Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-0580 | A14-119-S1 | 44.3 | 44.3 | 50 | Waterbody Crossing |
| ATWS-0121 | AS-SU-34 | 44.8 | 44.8 | 34 | Road and Waterbody Crossing |
| ATWS-2065 | AS-SU-37 | 46 | 46 | 17 | Railroad and Waterbody Crossing |
| ATWS-0125 | AP-SU-40 | 46.7 | 46.7 | 47 | Waterbody Crossing |
| ATWS-0127 | A14-41-S2 | 47.5 | 47.6 | 15 | Road and Waterbody Crossing |
| ATWS-1980 | A14-41-S1 | 47.6 | 47.6 | 13 | Waterbody Crossing |
| ATWS-0128 | A14-41-S1 | 47.6 | 47.6 | 23 | Waterbody Crossing |
| ATWS-1376 | AS-WE-1 | 48.1 | 48.2 | 8 | Waterbody Crossing |
| ATWS-1979 | AS-WE-1 | 48.2 | 48.7 | 11 | Waterbody Crossing |
| ATWS-1375 | AS-WE-4 | 48.9 | 49 | 39 | Waterbody Crossing |
| ATWS-0694 | AS-WE-5 | 49.1 | 49.1 | 20 | Road and Waterbody Crossing |
| ATWS-0585 | A14-124-S2 | 50.1 | 50.2 | 28 | Waterbody Crossing |
| ATWS-1417 | A14-124-S1 | 50.3 | 50.4 | 45 | Waterbody Crossing |
| ATWS-0751 | A14-124-S1 | 50.4 | 50.4 | 33 | Waterbody Crossing |
| ATWS-0137 | AS-WE-11A | 50.7 | 50.8 | 11 | Waterbody Crossing |
| ATWS-2162 | AS-WE-11A | 50.8 | 50.8 | 11 | Waterbody Crossing |
| ATWS-0608 | AS-WE-17 | 53 | 53 | 15 | Waterbody Crossing |
| ATWS-1348 | AS-WE-18 | 53 | 53.1 | 24 | Waterbody Crossing |
| ATWS-2022 | AS-WE-18 | 53.2 | 53.3 | 26 | Waterbody Crossing |
| ATWS-0754 | AS-ME-1 | 54.4 | 54.4 | 38 | Road and Waterbody Crossing |
| ATWS-0144 | AS-ME-1 | 54.4 | 54.4 | 33 | Road and Waterbody Crossing |
| ATWS-0586 | AS-ME-6 | 55 | 55.1 | 36 | Waterbody Crossing |
| ATWS-0649 | AS-ME-6 | 55.1 | 55.1 | 15 | Waterbody Crossing |
| ATWS-0649 | A14-43-S1 | 55.1 | 55.1 | 15 | Waterbody Crossing |
| ATWS-1350 | AS-ME-7 | 55.4 | 56.1 | 15 | Waterbody Crossing |
| ATWS-2154 | AS-ME-7 | 56.1 | 56.2 | 13 | Road and Waterbody Crossing |
| ATWS-0589 | AS-ME-16 | 57.1 | 57.1 | 13 | Waterbody Crossing |
| ATWS-0616 | AS-ME-16 | 57.1 | 57.2 | 11 | Waterbody Crossing |
| ATWS-0149 | AS-ME-17 | 57.3 | 57.3 | 13 | Road and Waterbody Crossing |
| ATWS-0150 | AS-ME-17 | 57.3 | 57.3 | 27 | Road and Waterbody Crossing |
| ATWS-1433 | A14-40-S1 | 57.9 | 58 | 32 | Waterbody Crossing |
| ATWS-1353 | A14-37-S1 | 58.6 | 58.6 | 16 | Waterbody Crossing |
| ATWS-2021 | A14-37-S1 | 58.7 | 58.7 | 15 | Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-1437 | AS-ME-19 | 58.8 | 59 | 27 | Waterbody Crossing |
| ATWS-1436 | AS-ME-20 | 59 | 59.1 | 26 | Waterbody Crossing |
| ATWS-1439 | AS-ME-91 | 59.6 | 59.7 | 43 | Waterbody Crossing |
| ATWS-1440 | AS-ME-91A | 59.8 | 59.9 | 12 | Waterbody Crossing |
| ATWS-2163 | AP-ME-27 | 64.1 | 64.2 | 50 | Waterbody Crossing |
| ATWS-0172 | AP-ME-33 | 64.8 | 64.9 | 26 | Waterbody Crossing |
| ATWS-0172 | AS-ME-32 | 64.8 | 64.9 | 7 | Waterbody Crossing |
| ATWS-2018 | AS-ME-34 | 64.9 | 65.1 | 10 | Waterbody Crossing |
| ATWS-2018 | AS-ME-34A | 64.9 | 65.1 | 10 | Waterbody Crossing |
| ATWS-1450 | AS-ME-34 | 65.1 | 65.2 | 49 | Waterbody Crossing |
| ATWS-0173 | AS-ME-35 | 65.3 | 65.4 | 27 | Waterbody Crossing |
| ATWS-0175 | AS-ME-39 | 66 | 66 | 39 | Road and Waterbody Crossing |
| ATWS-0176 | AS-ME-41A | 66.8 | 66.9 | 24 | Waterbody Crossing |
| ATWS-1973 | AS-ME-46 | 67.8 | 67.8 | 18 | Waterbody Crossing |
| ATWS-2016 | AS-ME-46 | 67.8 | 67.8 | 0 | Waterbody Crossing |
| ATWS-2017 | AS-ME-46 | 67.8 | 67.9 | 31 | Waterbody Crossing |
| ATWS-1360 | AS-ME-47 | 67.9 | 68.1 | 16 | Road and Waterbody Crossing |
| ATWS-1360 | AS-ME-48 | 67.9 | 68.1 | 19 | Road and Waterbody Crossing |
| ATWS-0285 | AS-ME-56 | 70.6 | 70.6 | 24 | Waterbody Crossing |
| ATWS-1461 | AS-ME-58A | 70.7 | 70.8 | 49 | Waterbody Crossing |
| ATWS-1463 | AS-ME-58C | 70.8 | 70.9 | 25 | Waterbody Crossing |
| ATWS-1464 | AS-ME-58B | 70.9 | 71 | 46 | Waterbody Crossing |
| ATWS-1345 | AS-ME-62 | 71.1 | 72 | 25 | Waterbody Crossing |
| ATWS-1466 | B14-10-S1 | 72 | 72 | 29 | Waterbody Crossing |
| ATWS-1467 | B14-10-S1 | 72.1 | 72.4 | 28 | Waterbody Crossing |
| ATWS-2024 | AS-ME-67 | 73.2 | 73.2 | 31 | Waterbody Crossing |
| ATWS-0192 | AS-ME-69 | 73.4 | 73.5 | 44 | Waterbody Crossing |
| ATWS-1474 | AS-ME-75 | 74.4 | 74.4 | 13 | Waterbody Crossing |
| ATWS-1475 | AS-ME-75 | 74.4 | 74.5 | 15 | Waterbody Crossing |
| ATWS-1484 | AS-ME-96 | 75.2 | 75.6 | 10 | Waterbody Crossing |
| ATWS-1485 | AS-ME-96 | 75.6 | 75.8 | 9 | Waterbody Crossing |
| ATWS-0196 | AS-ME-97 | 75.8 | 75.8 | 13 | Road and Waterbody Crossing |
| ATWS-2058 | AS-ME-98 | 75.9 | 76.1 | 11 | Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-2013 | AS-ME-98 | 76.1 | 76.2 | 11 | Waterbody Crossing |
| ATWS-2013 | AS-ME-99 | 76.1 | 76.2 | 25 | Waterbody Crossing |
| ATWS-1487 | AS-ME-99 | 76.2 | 76.3 | 45 | Waterbody Crossing |
| ATWS-2080 | AS-LO-31B | 77.4 | 77.5 | 11 | Waterbody Crossing |
| ATWS-2079 | AS-LO-31B | 77.5 | 77.6 | 14 | Waterbody Crossing |
| ATWS-2079 | AS-LO-32 | 77.5 | 77.6 | 13 | Waterbody Crossing |
| ATWS-2081 | AS-LO-32 | 77.6 | 77.7 | 8 | Waterbody Crossing |
| ATWS-2081 | AS-LO-34 | 77.6 | 77.7 | 11 | Waterbody Crossing |
| ATWS-1335 | AS-LO-34 | 77.8 | 77.9 | 11 | Waterbody Crossing |
| ATWS-0200 | AS-LO-38 | 79.2 | 79.2 | 47 | Waterbody Crossing |
| ATWS-0201 | A14-61-S1 | 79.2 | 79.2 | 32 | Road and Waterbody Crossing |
| ATWS-0768 | A14-61-S1 | 79.3 | 79.3 | 46 | Road and Waterbody Crossing |
| ATWS-2169 | A14-69-S3 | 80.8 | 80.9 | 32 | Waterbody Crossing |
| ATWS-2169 | A14-69-S2 | 80.8 | 80.9 | 32 | Waterbody Crossing |
| ATWS-0202 | AS-LO-47 | 81.3 | 81.3 | 14 | Road and Waterbody Crossing |
| ATWS-2145 | AS-LO-47 | 81.3 | 81.3 | 7 | Road and Waterbody Crossing |
| ATWS-2144 | AS-LO-47 | 81.3 | 81.3 | 34 | Road and Waterbody Crossing |
| ATWS-0203 | AS-LO-47 | 81.3 | 81.3 | 40 | Waterbody Crossing |
| ATWS-1496 | AS-LO-10 | 82.5 | 82.5 | 25 | Road and Waterbody Crossing |
| ATWS-1496 | AS-LO-10A | 82.5 | 82.5 | 25 | Road and Waterbody Crossing |
| ATWS-2068 | A14-50-S1 | 83.3 | 83.3 | 0 | Waterbody Crossing |
| ATWS-1501 | A14-55-S1 | 83.8 | 83.9 | 10 | Waterbody Crossing |
| ATWS-1343 | A14-55-S1 | 83.9 | 84.1 | 10 | Waterbody Crossing |
| ATWS-1502 | AS-LO-45 | 84.4 | 84.6 | 10 | Waterbody Crossing |
| ATWS-1503 | AS-LO-45 | 84.6 | 84.8 | 10 | Waterbody Crossing |
| ATWS-1295 | A14-128-S1 | 85.5 | 85.8 | 11 | Waterbody Crossing |
| ATWS-0701 | A14-75-S1 | 85.9 | 85.9 | 10 | Road and Waterbody Crossing |
| ATWS-0701 | A14-75-S2 | 85.9 | 85.9 | 15 | Road and Waterbody Crossing |
| ATWS-0700 | A14-75-S2 | 85.9 | 85.9 | 15 | Road and Waterbody Crossing |
| ATWS-0702 | A14-76-S1 | 86.8 | 86.8 | 21 | Waterbody Crossing |
| ATWS-0209 | A14-76-S1 | 86.8 | 86.8 | 15 | Waterbody Crossing |
| ATWS-1294 | A14-130-S1 | 86.9 | 87.1 | 10 | Waterbody Crossing |
| ATWS-0291 | A14-130-S1 | 87.1 | 87.2 | 10 | Road and Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-1298 | AS-LO-19 | 88.4 | 88.7 | 27 | Waterbody Crossing |
| ATWS-0779 | AS-LO-22 | 89 | 89.2 | 43 | Waterbody Crossing |
| ATWS-0213 | A14-140-S1 | 90 | 90 | 6 | Waterbody Crossing |
| ATWS-1891 | AS-LO-28 | 93.2 | 93.3 | 36 | Road and Waterbody Crossing |
| ATWS-1892 | AS-LO-28 | 93.3 | 93.3 | 35 | Road and Waterbody Crossing |
| ATWS-0221 | A14-138-S1 | 93.3 | 93.4 | 43 | Waterbody Crossing |
| ATWS-1306 | A14-138-S2 | 93.4 | 93.4 | 0 | Waterbody Crossing |
| ATWS-0704 | A14-152-S1 | 97.3 | 97.4 | 15 | Waterbody Crossing |
| ATWS-0705 | A14-152-S1 | 97.4 | 97.4 | 15 | Waterbody Crossing |
| ATWS-0239 | A14-198-S1 | 99.8 | 99.8 | 27 | Road and Waterbody Crossing |
| ATWS-1890 | A14-198-S1 | 99.8 | 99.9 | 12 | Road and Waterbody Crossing |
| ATWS-0793 | AS-ER-49B | 101.7 | 101.7 | 46 | Waterbody Crossing |
| ATWS-2086 | AS-ER-49B | 101.7 | 101.8 | 47 | Waterbody Crossing |
| ATWS-1530 | AS-ER-49A | 101.8 | 101.8 | 12 | Waterbody Crossing |
| ATWS-1531 | AS-ER-49A | 101.8 | 101.8 | 12 | Waterbody Crossing |
| ATWS-0708 | AS-ER-49 | 101.8 | 101.9 | 4 | Waterbody Crossing |
| ATWS-1318 | AS-ER-53 | 107.4 | 107.5 | 11 | Waterbody Crossing |
| ATWS-2083 | AS-ER-53 | 107.5 | 107.7 | 11 | Waterbody Crossing |
| ATWS-0610 | A14-156-S1 | 112.3 | 112.4 | 30 | Waterbody Crossing |
| ATWS-0818 | AS-ER-25 | 115.9 | 116 | 11 | Waterbody Crossing |
| ATWS-1561 | AS-ER-25 | 116 | 116.2 | 17 | Waterbody Crossing |
| ATWS-1561 | AS-ER-51 | 116 | 116.2 | 19 | Waterbody Crossing |
| ATWS-0822 | AS-ER-52 | 116.7 | 116.7 | 48 | Road and Waterbody Crossing |
| ATWS-0823 | AS-ER-52 | 116.7 | 116.8 | 0 | Road and Waterbody Crossing |
| ATWS-1967 | AS-ER-26 | 116.9 | 117.8 | 7 | Road and Waterbody Crossing |
| ATWS-1329 | AS-ER-26 | 117.8 | 117.8 | 5 | Road and Waterbody Crossing |
| ATWS-0824 | AS-ER-26 | 117.9 | 117.9 | 18 | Waterbody Crossing |
| ATWS-0825 | AS-ER-26 | 117.9 | 117.9 | 18 | Waterbody Crossing |
| ATWS-1966 | E14-96-S1 | 118.3 | 118.8 | 11 | Waterbody Crossing |
| ATWS-1565 | E14-96-S1 | 118.8 | 119 | 14 | Waterbody Crossing |
| ATWS-0545 | AS-ER-28 | 119.7 | 119.8 | 26 | Waterbody Crossing |
| ATWS-0546 | AS-ER-28 | 119.8 | 119.8 | 9 | Waterbody Crossing |
| ATWS-0829 | E14-95-S1 | 121.6 | 121.7 | 48 | Road and Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-0265 | E14-49-S1 | 123.1 | 123.1 | 11 | Road and Waterbody Crossing |
| ATWS-0266 | E14-49-S1 | 123.1 | 123.1 | 27 | Waterbody Crossing |
| ATWS-1965 | AS-ER-30 | 123.5 | 123.5 | 13 | Waterbody Crossing |
| ATWS-1965 | E14-50-S1 | 123.5 | 123.5 | 13 | Waterbody Crossing |
| ATWS-0835 | E14-50-S1 | 123.5 | 123.6 | 10 | Waterbody Crossing |
| ATWS-0303 | AS-ER-30 | 123.6 | 123.6 | 10 | Waterbody Crossing |
| ATWS-0303 | E14-50-S1 | 123.6 | 123.6 | 10 | Waterbody Crossing |
| ATWS-0834 | E14-50-S1 | 123.6 | 123.6 | 11 | Waterbody Crossing |
| ATWS-1332 | E14-51-S1 | 123.6 | 123.8 | 13 | Waterbody Crossing |
| ATWS-0837 | E14-51-S1 | 123.8 | 123.8 | 11 | Waterbody Crossing |
| ATWS-0836 | E14-51-S1 | 123.8 | 123.8 | 10 | Waterbody Crossing |
| ATWS-1289 | E14-94-S1 | 124.9 | 125.7 | 23 | Waterbody Crossing |
| ATWS-0503 | D14-1-S1 | 129.9 | 130 | 14 | Waterbody Crossing |
| ATWS-0843 | D14-4-S1 | 130.7 | 131 | 12 | Waterbody Crossing |
| ATWS-0844 | D14-4-S1 | 131 | 131 | 10 | Waterbody Crossing |
| ATWS-0845 | D14-5-S1 | 131 | 131 | 14 | Waterbody Crossing |
| ATWS-0848 | D14-7-S1 | 132 | 132.1 | 0 | Waterbody Crossing |
| ATWS-0849 | D14-7-S1 | 132.1 | 132.1 | 26 | Waterbody Crossing |
| ATWS-1962 | AS-SA-1 | 132.5 | 132.5 | 46 | Waterbody Crossing |
| ATWS-1588 | AS-SA-1 | 132.6 | 133 | 12 | Waterbody Crossing |
| ATWS-0852 | E14-105-S1 | 133.6 | 133.6 | 13 | Waterbody Crossing |
| ATWS-0853 | AS-SA-77 | 133.6 | 133.6 | 30 | Waterbody Crossing |
| ATWS-0853 | E14-105-S1 | 133.6 | 133.6 | 30 | Waterbody Crossing |
| ATWS-0856 | D14-9-S1 | 134.2 | 134.3 | 12 | Road and Waterbody Crossing |
| ATWS-0857 | D14-10-S1 | 134.7 | 134.7 | 18 | Waterbody Crossing |
| ATWS-1592 | AS-SA-3 | 135.5 | 135.6 | 27 | Waterbody Crossing |
| ATWS-1592 | D14-8-S1 | 135.5 | 135.6 | 27 | Waterbody Crossing |
| ATWS-0864 | AS-SA-4 | 136.7 | 136.7 | 23 | Waterbody Crossing |
| ATWS-0865 | AS-SA-4 | 136.7 | 136.8 | 35 | Waterbody Crossing |
| ATWS-0323 | AS-SA-100 | 138.2 | 138.2 | 12 | Road and Waterbody Crossing |
| ATWS-0324 | AS-SA-100 | 138.2 | 138.3 | 38 | Road and Waterbody Crossing |
| ATWS-0872 | E14-36-S1 | 138.5 | 138.5 | 10 | Waterbody Crossing |
| ATWS-0873 | E14-36-S1 | 138.6 | 138.6 | 10 | Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-0598 | D14-40-S1 | 139.2 | 139.3 | 11 | Waterbody Crossing |
| ATWS-0599 | D14-40-S1 | 139.3 | 139.3 | 9 | Waterbody Crossing |
| ATWS-0391 | E14-19-S1 | 140.5 | 140.6 | 0 | Constructability |
| ATWS-0505 | D14-33-S1 | 142.4 | 142.4 | 29 | Road and Waterbody Crossing |
| ATWS-0504 | D14-33-S1 | 142.4 | 142.5 | 10 | Road and Waterbody Crossing |
| ATWS-0878 | E14-98-S1 | 142.6 | 142.6 | 13 | Waterbody Crossing |
| ATWS-0393 | E14-98-S1 | 142.6 | 142.6 | 7 | Waterbody Crossing |
| ATWS-1659 | E14-121-S1 | 142.6 | 142.7 | 10 | Waterbody Crossing |
| ATWS-1606 | E14-121-S1 | 142.7 | 143.2 | 13 | Waterbody Crossing |
| ATWS-1608 | AS-SA-77A | 143.3 | 144.2 | 50 | Waterbody Crossing |
| ATWS-0882 | AS-SA-82 | 144.3 | 144.3 | 32 | Waterbody Crossing |
| ATWS-0881 | AS-SA-82 | 144.3 | 144.3 | 17 | Waterbody Crossing |
| ATWS-1661 | AS-SA-9 | 148.3 | 148.4 | 50 | Waterbody Crossing |
| ATWS-0338 | E14-181-S1 | 148.7 | 148.7 | 30 | Road and Waterbody Crossing |
| ATWS-1955 | E14-181-S1 | 148.7 | 148.7 | 4 | Waterbody Crossing |
| ATWS-0339 | E14-181-S1 | 148.7 | 148.7 | 0 | Waterbody Crossing |
| ATWS-0342 | AS-SA-10 | 149.4 | 149.4 | 19 | Waterbody Crossing |
| ATWS-0671 | AS-SA-10 | 149.4 | 149.4 | 11 | Waterbody Crossing |
| ATWS-0617 | E14-109-S1 | 149.6 | 149.7 | 26 | Waterbody Crossing |
| ATWS-1953 | E14-109-S1 | 149.6 | 149.7 | 39 | Waterbody Crossing |
| ATWS-0343 | E14-109-S1 | 149.7 | 149.7 | 0 | Waterbody Crossing |
| ATWS-1256 | E14-42-S1 | 149.7 | 150.1 | 14 | Waterbody Crossing |
| ATWS-0601 | AS-SA-12 | 150.1 | 150.1 | 12 | Waterbody Crossing |
| ATWS-0601 | E14-42-S1 | 150.1 | 150.1 | 12 | Waterbody Crossing |
| ATWS-2171 | E14-42-S1 | 150.1 | 150.2 | 13 | Waterbody Crossing |
| ATWS-0529 | AS-SA-12 | 150.2 | 150.2 | 14 | Waterbody Crossing |
| ATWS-0669 | E14-3-S1 | 150.9 | 150.9 | 17 | Waterbody Crossing |
| ATWS-0554 | AS-SA-14 | 152.7 | 152.7 | 17 | Waterbody Crossing |
| ATWS-0555 | AS-SA-14 | 152.8 | 152.8 | 18 | Waterbody Crossing |
| ATWS-1939 | AS-SA-15 | 155.8 | 156 | 39 | Road and Waterbody Crossing |
| ATWS-1939 | E14-107-S1 | 155.8 | 156 | 39 | Road and Waterbody Crossing |
| ATWS-0530 | E14-108-S1 | 156.2 | 156.2 | 10 | Waterbody Crossing |
| ATWS-0531 | E14-108-S1 | 156.2 | 156.2 | 10 | Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-0354 | AS-SA-16 | 157.9 | 158 | 10 | Road and Waterbody Crossing |
| ATWS-1265 | AS-SA-16 | 158 | 158.1 | 47 | Road and Waterbody Crossing |
| ATWS-1271 | AS-WO-4 | 158.8 | 159 | 11 | Waterbody Crossing |
| ATWS-1273 | D14-31-S1 | 159.5 | 159.6 | 35 | Waterbody Crossing |
| ATWS-0928 | AS-WO-16 | 160.4 | 160.5 | 14 | Waterbody Crossing |
| ATWS-0928 | E14-85-S1 | 160.4 | 160.5 | 14 | Waterbody Crossing |
| ATWS-0929 | AS-WO-16 | 160.5 | 160.5 | 33 | Waterbody Crossing |
| ATWS-0929 | E14-85-S1 | 160.5 | 160.5 | 33 | Waterbody Crossing |
| ATWS-1931 | E14-153-S1 | 161.3 | 161.3 | 26 | Waterbody Crossing |
| ATWS-1275 | E14-153-S1 | 161.3 | 161.4 | 29 | Waterbody Crossing |
| ATWS-0938 | AS-WO-14 | 161.6 | 161.7 | 19 | Waterbody Crossing |
| ATWS-0937 | D14-34-S1 | 161.6 | 161.7 | 17 | Waterbody Crossing |
| ATWS-0937 | AS-WO-14 | 161.6 | 161.7 | 17 | Waterbody Crossing |
| ATWS-1928 | E14-175-S1 | 162 | 162.2 | 23 | Waterbody Crossing |
| ATWS-0941 | E14-175-S1 | 162.1 | 162.2 | 33 | Waterbody Crossing |
| ATWS-1927 | E14-175-S1 | 162.2 | 162.7 | 19 | Waterbody Crossing |
| ATWS-1276 | AS-WO-1 | 162.9 | 163.1 | 15 | Waterbody Crossing |
| ATWS-0532 | E14-48-S1 | 163.1 | 163.2 | 50 | Waterbody Crossing |
| ATWS-0361 | E14-48-S1 | 163.2 | 163.2 | 10 | Waterbody Crossing |
| ATWS-0366 | E14-79-S1 | 165.3 | 165.3 | 24 | Road and Waterbody Crossing |
| ATWS-0367 | E14-79-S1 | 165.3 | 165.3 | 13 | Road and Waterbody Crossing |
| ATWS-0368 | E14-80-S1 | 165.6 | 165.7 | 10 | Road and Waterbody Crossing |
| ATWS-0369 | E14-80-S1 | 165.7 | 165.7 | 22 | Road and Waterbody Crossing |
| ATWS-0533 | E14-40-S1 | 165.9 | 166 | 11 | Waterbody Crossing |
| ATWS-0534 | E14-40-S1 | 166 | 166 | 10 | Waterbody Crossing |
| ATWS-0370 | AS-WO-5 | 167.4 | 167.4 | 28 | Road and Waterbody Crossing |
| ATWS-0371 | AS-WO-5 | 167.4 | 167.5 | 10 | Road and Waterbody Crossing |
| ATWS-0373 | AS-WO-6 | 168.8 | 168.8 | 4 | Waterbody Crossing |
| ATWS-0374 | E14-35-S1 | 169.3 | 169.3 | 29 | Road and Waterbody Crossing |
| ATWS-0375 | E14-35-S1 | 169.3 | 169.4 | 10 | Road and Waterbody Crossing |
| ATWS-0378 | AS-WO-7 | 170.3 | 170.3 | 24 | Road and Waterbody Crossing |
| ATWS-0379 | AS-WO-7 | 170.3 | 170.4 | 13 | Road and Waterbody Crossing |
| ATWS-0382 | AS-WO-8 | 172 | 172 | 32 | Road and Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-0383 | AS-WO-8 | 172 | 172.1 | 12 | Road and Waterbody Crossing |
| ATWS-0384 | D14-45A-S1 | 172.7 | 172.8 | 37 | Road Crossing |
| ATWS-0385 | D14-45A-S1 | 172.8 | 172.8 | 7 | Road Crossing |
| ATWS-2192 | AS-WO-18 | 174.7 | 174.7 | 10 | Road and Waterbody Crossing |
| ATWS-0957 | AS-WO-18 | 174.7 | 174.7 | 48 | Waterbody Crossing |
| ATWS-0958 | AS-WO-18 | 174.7 | 174.8 | 10 | Road and Waterbody Crossing |
| ATWS-0962 | E14-44-S1 | 175.4 | 175.5 | 46 | Waterbody Crossing |
| ATWS-0963 | E14-47-S1 | 175.6 | 175.7 | 14 | Waterbody Crossing |
| ATWS-0672 | E14-116-S1 | 177.2 | 177.2 | 16 | Waterbody Crossing |
| ATWS-0965 | E14-116-S1 | 177.3 | 177.3 | 10 | Waterbody Crossing |
| ATWS-0674 | E14-29-S1 | 177.9 | 178 | 9 | Waterbody Crossing |
| ATWS-0675 | E14-29-S1 | 178 | 178 | 11 | Waterbody Crossing |
| ATWS-1286 | AS-LU-3 | 178.2 | 178.4 | 6 | Waterbody Crossing |
| ATWS-1286 | E14-1-S1 | 178.2 | 178.4 | 18 | Waterbody Crossing |
| ATWS-1897 | AS-LU-3 | 178.4 | 178.8 | 11 | Waterbody Crossing |
| ATWS-1897 | AS-LU-4 | 178.4 | 178.8 | 14 | Waterbody Crossing |
| ATWS-1063 | AS-LU-4 | 178.7 | 178.8 | 8 | Waterbody Crossing |
| ATWS-1896 | AS-LU-4 | 178.8 | 178.9 | 3 | Waterbody Crossing |
| ATWS-2029 | AS-LU-5 | 179.9 | 179.9 | 16 | Waterbody Crossing |
| ATWS-2101 | E14-22-S1 | 181 | 181.3 | 36 | Waterbody Crossing |
| ATWS-1066 | E14-22-S1 | 181.3 | 181.3 | 12 | Waterbody Crossing |
| ATWS-1067 | E14-22-S1 | 181.3 | 181.4 | 13 | Waterbody Crossing |
| ATWS-1068 | AS-LU-16 | 182 | 182 | 17 | Road and Waterbody Crossing |
| ATWS-1018 | AS-LU-16 | 182 | 182 | 19 | Waterbody Crossing |
| ATWS-2102 | AS-LU-17 | 182 | 182.1 | 12 | Waterbody Crossing |
| ATWS-2103 | AS-LU-18 | 182.1 | 182.3 | 23 | Waterbody Crossing |
| ATWS-2103 | AS-LU-17 | 182.1 | 182.3 | 12 | Waterbody Crossing |
| ATWS-2104 | AS-LU-18 | 182.3 | 182.4 | 18 | Waterbody Crossing |
| ATWS-1191 | AS-LU-20 | 182.8 | 183 | 20 | Waterbody Crossing |
| ATWS-1188 | AS-HE-2 | 184.1 | 184.1 | 13 | Waterbody Crossing |
| ATWS-2106 | AS-HE-2 | 184.2 | 184.2 | 16 | Waterbody Crossing |
| ATWS-0982 | AS-HE-7 | 184.8 | 184.8 | 14 | Waterbody Crossing |
| ATWS-1073 | AS-FU-55 | 185.6 | 185.6 | 13 | Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-1072 | AS-FU-55 | 185.6 | 185.6 | 14 | Waterbody Crossing |
| ATWS-1074 | AS-FU-55A | 185.7 | 185.8 | 14 | Waterbody Crossing |
| ATWS-1199 | AS-FU-55A | 185.8 | 186.1 | 21 | Waterbody Crossing |
| ATWS-0989 | AS-FU-56 | 186.3 | 186.3 | 12 | Waterbody Crossing |
| ATWS-2111 | AS-FU-56 | 186.3 | 186.3 | 21 | Waterbody Crossing |
| ATWS-0990 | AS-FU-56 | 186.3 | 186.3 | 18 | Waterbody Crossing |
| ATWS-1019 | AS-FU-57 | 186.9 | 186.9 | 15 | Waterbody Crossing |
| ATWS-0991 | AS-FU-57 | 187 | 187 | 14 | Waterbody Crossing |
| ATWS-2114 | AS-FU-58 | 187.5 | 187.7 | 17 | Waterbody Crossing |
| ATWS-1204 | AS-FU-58 | 187.7 | 187.8 | 16 | Waterbody Crossing |
| ATWS-1024 | AS-FU-58 | 187.8 | 187.9 | 15 | Waterbody Crossing |
| ATWS-1023 | AS-FU-58 | 187.9 | 187.9 | 14 | Waterbody Crossing |
| ATWS-1076 | AS-FU-59 | 188.5 | 188.6 | 12 | Waterbody Crossing |
| ATWS-1215 | AS-FU-59 | 188.6 | 189.5 | 16 | Waterbody Crossing |
| ATWS-1027 | AS-FU-60 | 189.6 | 189.7 | 35 | Waterbody Crossing |
| ATWS-1028 | AS-FU-60 | 189.6 | 189.7 | 17 | Waterbody Crossing |
| ATWS-1029 | AS-FU-60 | 189.7 | 189.7 | 16 | Waterbody Crossing |
| ATWS-1079 | AS-FU-61 | 189.9 | 189.9 | 16 | Waterbody Crossing |
| ATWS-1080 | AS-FU-61 | 189.9 | 189.9 | 14 | Waterbody Crossing |
| ATWS-1033 | AS-FU-62 | 190.5 | 190.5 | 14 | Waterbody Crossing |
| ATWS-1032 | AS-FU-62 | 190.5 | 190.6 | 32 | Waterbody Crossing |
| ATWS-0999 | AS-FU-63 | 191 | 191 | 17 | Waterbody Crossing |
| ATWS-0998 | AS-FU-63 | 191 | 191.1 | 17 | Waterbody Crossing |
| ATWS-1000 | AS-FU-65 | 191.9 | 191.9 | 15 | Waterbody Crossing |
| ATWS-2119 | AS-FU-65 | 191.9 | 191.9 | 12 | Waterbody Crossing |
| ATWS-1002 | AS-FU-66 | 191.9 | 192.1 | 18 | Waterbody Crossing |
| ATWS-1003 | AS-FU-66 | 192.1 | 192.4 | 18 | Waterbody Crossing |
| ATWS-1005 | AS-FU-67 | 192.5 | 192.5 | 20 | Waterbody Crossing |
| ATWS-2038 | AS-FU-67 | 192.5 | 192.5 | 21 | Waterbody Crossing |
| ATWS-1010 | AS-FU-68 | 193.2 | 193.3 | 13 | Waterbody Crossing |
| ATWS-1011 | AS-FU-68 | 193.3 | 193.3 | 14 | Road and Waterbody Crossing |
| ATWS-0539 | E14-4-S1 | 195.4 | 195.4 | 48 | Waterbody Crossing |
| ATWS-0540 | E14-4-S1 | 195.4 | 195.5 | 34 | Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-1040 | AS-FU-20 | 196.7 | 196.8 | 19 | Waterbody Crossing |
| ATWS-0516 | D14-24-S1 | 197.3 | 197.3 | 33 | Waterbody Crossing |
| ATWS-1041 | D14-24-S1 | 197.3 | 197.4 | 0 | Waterbody Crossing |
| ATWS-1043 | E14-112-S1 | 198 | 198.1 | 15 | Waterbody Crossing |
| ATWS-1042 | E14-112-S1 | 198.1 | 198.1 | 14 | Waterbody Crossing |
| ATWS-0446 | D14-44-S1 | 198.4 | 198.4 | 42 | Road and Waterbody Crossing |
| ATWS-0447 | D14-44-S1 | 198.4 | 198.5 | 13 | Road and Waterbody Crossing |
| ATWS-1045 | D14-44-S1 | 198.5 | 198.6 | 13 | Waterbody Crossing |
| ATWS-1044 | D14-44-S1 | 198.6 | 198.6 | 12 | Waterbody Crossing |
| ATWS-1049 | E14-53-S1 | 199.7 | 199.7 | 15 | Waterbody Crossing |
| ATWS-1048 | E14-53-S1 | 199.7 | 199.8 | 12 | Waterbody Crossing |
| ATWS-2093 | AS-FU-21 | 199.8 | 200.1 | 11 | Waterbody Crossing |
| ATWS-1226 | AS-FU-21 | 200.1 | 200.4 | 12 | Road and Waterbody Crossing |
| ATWS-1226 | AS-FU-22 | 200.1 | 200.4 | 12 | Road and Waterbody Crossing |
| ATWS-2039 | AS-FU-22 | 200.4 | 200.5 | 12 | Road and Waterbody Crossing |
| ATWS-1088 | AS-FU-50 | 200.7 | 200.7 | 15 | Waterbody Crossing |
| ATWS-1089 | AS-FU-50 | 200.7 | 200.7 | 15 | Waterbody Crossing |
| ATWS-1051 | E14-12-S1 | 201.5 | 201.5 | 0 | Waterbody Crossing |
| ATWS-1053 | AS-FU-23 | 202.3 | 202.4 | 19 | Road and Waterbody Crossing |
| ATWS-1055 | AS-FU-23 | 202.4 | 202.4 | 18 | Road and Waterbody Crossing |
| ATWS-1055 | D14-45-S1 | 202.4 | 202.4 | 18 | Road and Waterbody Crossing |
| | | **Michigan** | | | |
| ATWS-1057 | E14-113-S1 | 203.2 | 203.2 | 10 | Waterbody Crossing |
| ATWS-1056 | E14-113-S1 | 203.2 | 203.2 | 14 | Waterbody Crossing |
| ATWS-1671 | E14-114-S1 | 203.4 | 203.5 | 14 | Road and Waterbody Crossing |
| ATWS-1670 | E14-114-S1 | 203.5 | 203.5 | 30 | Road and Waterbody Crossing |
| ATWS-0450 | AS-LE-1 | 204.4 | 204.5 | 12 | Waterbody Crossing |
| ATWS-0451 | AS-LE-1 | 204.5 | 204.5 | 30 | Road and Waterbody Crossing |
| ATWS-0454 | E14-78-S1 | 205.4 | 205.4 | 11 | Waterbody Crossing |
| ATWS-0455 | E14-78-S1 | 205.5 | 205.5 | 30 | Waterbody Crossing |
| ATWS-0456 | E14-56-S1 | 206.5 | 206.5 | 13 | Road and Waterbody Crossing |
| ATWS-0457 | E14-56-S1 | 206.5 | 206.5 | 25 | Road and Waterbody Crossing |
| ATWS-0458 | E14-137-S1 | 207.4 | 207.4 | 14 | Road and Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-0459 | E14-137-S1 | 207.4 | 207.5 | 26 | Road and Waterbody Crossing |
| ATWS-0679 | E14-138-S1 | 207.9 | 207.9 | 14 | Waterbody Crossing |
| ATWS-0680 | E14-138-S1 | 208 | 208 | 13 | Waterbody Crossing |
| ATWS-0460 | E14-139-S1 | 208.4 | 208.5 | 15 | Road and Waterbody Crossing |
| ATWS-0461 | E14-139-S1 | 208.5 | 208.5 | 29 | Road and Waterbody Crossing |
| ATWS-1676 | AS-LE-3 | 209.8 | 209.8 | 14 | Waterbody Crossing |
| ATWS-1676 | E14-140-S1 | 209.8 | 209.8 | 14 | Waterbody Crossing |
| ATWS-1677 | E14-140-S1 | 209.8 | 209.8 | 22 | Waterbody Crossing |
| ATWS-1678 | AS-LE-5 | 210.2 | 210.7 | 14 | Waterbody Crossing |
| ATWS-1679 | AS-LE-5 | 210.7 | 211.1 | 15 | Waterbody Crossing |
| ATWS-2042 | E14-58-S1 | 211.1 | 211.2 | 12 | Road and Waterbody Crossing |
| ATWS-0465 | E14-58-S1 | 211.1 | 211.1 | 43 | Road and Waterbody Crossing |
| ATWS-1681 | AS-LE-6 | 211.4 | 211.5 | 37 | Waterbody Crossing |
| ATWS-1687 | AS-LE-6 | 211.4 | 211.5 | 36 | Waterbody Crossing |
| ATWS-1682 | AS-LE-7 | 211.5 | 211.5 | 10 | Road and Waterbody Crossing |
| ATWS-1683 | AS-LE-7 | 211.5 | 211.5 | 12 | Road and Waterbody Crossing |
| ATWS-0541 | E14-59-S1 | 211.8 | 211.9 | 11 | Waterbody Crossing |
| ATWS-0542 | E14-59-S1 | 211.9 | 211.9 | 11 | Waterbody Crossing |
| ATWS-1688 | AS-LE-8 | 212.4 | 212.4 | 13 | Waterbody Crossing |
| ATWS-1689 | AS-LE-8 | 212.5 | 212.5 | 13 | Waterbody Crossing |
| ATWS-0682 | E14-141-S1 | 212.9 | 212.9 | 14 | Waterbody Crossing |
| ATWS-0681 | E14-141-S1 | 212.9 | 212.9 | 15 | Waterbody Crossing |
| ATWS-0683 | E14-142-S1 | 213.2 | 213.2 | 17 | Waterbody Crossing |
| ATWS-0684 | E14-142-S1 | 213.2 | 213.2 | 13 | Waterbody Crossing |
| ATWS-1693 | AS-LE-9 | 214 | 214.1 | 6 | Waterbody Crossing |
| ATWS-1696 | AS-LE-10 | 214.4 | 214.4 | 15 | Road and Waterbody Crossing |
| ATWS-1695 | AS-LE-10 | 214.4 | 214.5 | 37 | Road and Waterbody Crossing |
| ATWS-1698 | AS-LE-11 | 214.8 | 214.8 | 13 | Waterbody Crossing |
| ATWS-1698 | E14-143-S1 | 214.8 | 214.8 | 13 | Waterbody Crossing |
| ATWS-1700 | E14-64-S1 | 215 | 215 | 12 | Road and Waterbody Crossing |
| ATWS-1701 | E14-64-S1 | 215.1 | 215.1 | 11 | Road and Waterbody Crossing |
| ATWS-1712 | E14-69-S1 | 216.4 | 216.4 | 12 | Road and Waterbody Crossing |
| ATWS-1713 | E14-69-S1 | 216.4 | 216.4 | 30 | Constructability |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-1716 | E14-76-S1 | 216.8 | 216.8 | 14 | Waterbody Crossing |
| ATWS-2130 | E14-76-S1 | 216.8 | 216.8 | 16 | Waterbody Crossing |
| ATWS-1715 | E14-76-S1 | 216.8 | 216.9 | 12 | Waterbody Crossing |
| ATWS-1718 | E14-77-S1 | 217 | 217 | 12 | Road and Waterbody Crossing |
| ATWS-1719 | E14-77-S1 | 217 | 217 | 23 | Road and Waterbody Crossing |
| ATWS-1723 | E14-145-S1 | 217.6 | 217.6 | 12 | Road and Waterbody Crossing |
| ATWS-1722 | E14-145-S1 | 217.6 | 217.6 | 30 | Road and Waterbody Crossing |
| ATWS-1725 | E14-171-S1 | 217.9 | 218.2 | 18 | Waterbody Crossing |
| ATWS-1726 | E14-171-S1 | 218.2 | 218.8 | 15 | Waterbody Crossing |
| ATWS-1727 | E14-70-S1 | 218.7 | 218.8 | 41 | Road and Waterbody Crossing |
| ATWS-1728 | E14-70-S1 | 218.8 | 218.8 | 17 | Road and Waterbody Crossing |
| ATWS-1732 | AS-LE-48 | 219.4 | 219.5 | 22 | Waterbody Crossing |
| ATWS-1733 | AS-LE-48 | 219.5 | 219.7 | 12 | Waterbody Crossing |
| ATWS-1735 | E14-146-S1 | 220.1 | 220.1 | 26 | Road and Waterbody Crossing |
| ATWS-1736 | E14-146-S1 | 220.1 | 220.1 | 12 | Road and Waterbody Crossing |
| ATWS-1738 | E14-147-S1 | 220.3 | 220.3 | 13 | Waterbody Crossing |
| ATWS-2131 | E14-147-S1 | 220.3 | 220.3 | 14 | Waterbody Crossing |
| ATWS-2043 | E14-147-S1 | 220.4 | 220.4 | 11 | Waterbody Crossing |
| ATWS-1741 | E14-127-S1 | 220.7 | 220.7 | 10 | Waterbody Crossing |
| ATWS-1742 | E14-127-S1 | 220.8 | 220.8 | 32 | Waterbody Crossing |
| ATWS-1744 | E14-126-S1 | 220.9 | 221 | 11 | Waterbody Crossing |
| ATWS-1745 | E14-126-S1 | 221 | 221 | 33 | Road and Waterbody Crossing |
| ATWS-1746 | E14-74-S1 | 221 | 221.1 | 41 | Waterbody Crossing |
| ATWS-1747 | E14-74-S1 | 221.2 | 221.3 | 25 | Waterbody Crossing |
| ATWS-1748 | E14-75-S1 | 221.3 | 221.3 | 19 | Road and Waterbody Crossing |
| ATWS-1749 | E14-75-S1 | 221.3 | 221.3 | 10 | Road and Waterbody Crossing |
| ATWS-1753 | E14-60-S1 | 221.9 | 222.5 | 13 | Road and Waterbody Crossing |
| ATWS-1754 | E14-60-S1 | 222.5 | 222.5 | 12 | Road and Waterbody Crossing |
| ATWS-1758 | AS-LE-12 | 223.1 | 223.6 | 13 | Waterbody Crossing |
| ATWS-1758 | E14-149-S1 | 223.1 | 223.6 | 13 | Waterbody Crossing |
| ATWS-1759 | E14-150-S1 | 223.6 | 223.7 | 18 | Road and Waterbody Crossing |
| ATWS-1760 | E14-150-S1 | 223.7 | 223.7 | 11 | Road and Waterbody Crossing |
| ATWS-1762 | E14-87-S1 | 223.8 | 223.8 | 23 | Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-1766 | E14-61-S1 | 224.1 | 224.1 | 12 | Waterbody Crossing |
| ATWS-1765 | E14-61-S1 | 224.2 | 224.2 | 12 | Waterbody Crossing |
| ATWS-1771 | E14-62-S1 | 224.7 | 224.7 | 12 | Waterbody Crossing |
| ATWS-1772 | E14-62-S1 | 224.7 | 224.7 | 30 | Waterbody Crossing |
| ATWS-1776 | E14-63-S1 | 225 | 225 | 21 | Waterbody Crossing |
| ATWS-1778 | E14-63-S1 | 225 | 225.6 | 37 | Waterbody Crossing |
| ATWS-1783 | AS-MO-1 | 225.7 | 225.7 | 11 | Waterbody Crossing |
| ATWS-1784 | AS-MO-1 | 225.7 | 225.7 | 11 | Waterbody Crossing |
| ATWS-1786 | E14-65-S1 | 226.2 | 226.2 | 11 | Waterbody Crossing |
| ATWS-1787 | E14-65-S1 | 226.2 | 226.2 | 19 | Waterbody Crossing |
| ATWS-1792 | E14-66-S1 | 226.6 | 226.7 | 21 | Waterbody Crossing |
| ATWS-2098 | E14-67-S1 | 226.7 | 226.8 | 27 | Waterbody Crossing |
| ATWS-2098 | E14-66-S1 | 226.7 | 226.8 | 15 | Waterbody Crossing |
| ATWS-1793 | E14-67-S1 | 226.8 | 226.9 | 13 | Waterbody Crossing |
| ATWS-2071 | E14-86-S2 | 227.3 | 227.4 | 0 | Waterbody Crossing |
| ATWS-1799 | AS-MO-11 | 227.4 | 227.6 | 10 | Waterbody Crossing |
| ATWS-1800 | AS-MO-2 | 227.6 | 228 | 24 | Waterbody Crossing |
| ATWS-1800 | AS-MO-11 | 227.6 | 228 | 7 | Waterbody Crossing |
| ATWS-2099 | AS-MO-2 | 228 | 228.2 | 15 | Waterbody Crossing |
| ATWS-1805 | AS-MO-10A | 228.3 | 228.6 | 27 | Road and Waterbody Crossing |
| ATWS-1803 | AS-MO-10A | 228.5 | 228.6 | 25 | Road and Waterbody Crossing |
| ATWS-1804 | AS-MO-10 | 228.6 | 228.7 | 33 | Waterbody Crossing |
| ATWS-1804 | AS-MO-10A | 228.6 | 228.7 | 24 | Waterbody Crossing |
| ATWS-1802 | AS-MO-10A | 228.6 | 228.7 | 28 | Road and Waterbody Crossing |
| ATWS-1811 | E14-72-S1 | 229.1 | 229.2 | 22 | Road and Waterbody Crossing |
| ATWS-2188 | E14-72-S1 | 229.2 | 229.4 | 16 | Waterbody Crossing |
| ATWS-2189 | AS-MO-3 | 229.5 | 229.7 | 17 | Waterbody Crossing |
| ATWS-1814 | AS-MO-3 | 229.7 | 230.2 | 35 | Waterbody Crossing |
| ATWS-1819 | E14-157-S1 | 230.6 | 231.7 | 42 | Waterbody Crossing |
| ATWS-1658 | E14-157-S1 | 231.7 | 231.8 | 22 | Waterbody Crossing |
| ATWS-1657 | E14-159-S1 | 232.1 | 232.5 | 11 | Road and Waterbody Crossing |
| ATWS-1820 | E14-159-S1 | 232.5 | 232.6 | 28 | Road and Waterbody Crossing |
| ATWS-1824 | E14-88-S1 | 232.9 | 233.4 | 34 | Road and Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-1827 | E14-89-S1 | 233.5 | 233.6 | 29 | Road and Waterbody Crossing |
| ATWS-1828 | E14-90-S1 | 233.6 | 233.6 | 12 | Road and Waterbody Crossing |
| ATWS-1825 | E14-165-S1 | 233.6 | 233.7 | 20 | Road and Waterbody Crossing |
| ATWS-1829 | E14-91-S1 | 233.8 | 233.9 | 11 | Waterbody Crossing |
| ATWS-1831 | E14-91-S1 | 233.9 | 234 | 22 | Waterbody Crossing |
| ATWS-1833 | E14-92-S1 | 234 | 234 | 19 | Waterbody Crossing |
| ATWS-1832 | E14-92-S1 | 234.1 | 234.1 | 32 | Waterbody Crossing |
| ATWS-1835 | AS-WA-2 | 234.2 | 234.2 | 14 | Waterbody Crossing |
| ATWS-1837 | E14-93-S1 | 234.3 | 234.8 | 19 | Waterbody Crossing |
| ATWS-1838 | E14-93-S1 | 234.9 | 235 | 13 | Waterbody Crossing |
| ATWS-1840 | E14-128-S1 | 235.1 | 235.3 | 26 | Waterbody Crossing |
| ATWS-1843 | AS-WA-3 | 235.5 | 235.7 | 35 | Waterbody Crossing |
| ATWS-1843 | E14-160-S1 | 235.5 | 235.7 | 35 | Waterbody Crossing |
| ATWS-1844 | AS-WA-3 | 235.7 | 235.9 | 14 | Waterbody Crossing |
| ATWS-1848 | E14-131-S1 | 236.3 | 236.3 | 27 | Waterbody Crossing |
| ATWS-1849 | E14-131-S1 | 236.3 | 236.3 | 12 | Waterbody Crossing |
| ATWS-1850 | E14-132-S1 | 236.3 | 236.5 | 25 | Waterbody Crossing |
| ATWS-1851 | E14-132-S1 | 236.5 | 236.6 | 25 | Waterbody Crossing |
| ATWS-1668 | E14-132-S1 | 236.6 | 236.9 | 32 | Constructability |
| ATWS-0483 | E14-161-S1 | 237.9 | 237.9 | 11 | Road and Waterbody Crossing |
| ATWS-0482 | E14-161-S1 | 237.9 | 238 | 23 | Road and Waterbody Crossing |
| ATWS-1653 | E14-162-S1 | 238.8 | 239 | 37 | Waterbody Crossing |
| ATWS-1858 | E14-162-S1 | 239 | 239.1 | 32 | Waterbody Crossing |
| ATWS-2092 | E14-99-S1 | 239.3 | 239.3 | 20 | Waterbody Crossing |
| ATWS-0481 | E14-99-S1 | 239.3 | 239.3 | 35 | Waterbody Crossing |
| ATWS-1654 | E14-99-S1 | 239.3 | 239.4 | 30 | Waterbody Crossing |
| ATWS-1651 | AS-WA-5 | 239.6 | 239.8 | 19 | Waterbody Crossing |
| ATWS-0479 | E14-176-S1 | 240.7 | 240.7 | 28 | Road and Waterbody Crossing |
| ATWS-0478 | E14-176-S1 | 240.8 | 240.8 | 12 | Road and Waterbody Crossing |
| ATWS-1645 | AS-WA-49 | 240.8 | 241.4 | 16 | Waterbody Crossing |
| ATWS-1861 | AS-WA-49 | 241.4 | 241.5 | 13 | Waterbody Crossing |
| ATWS-1862 | AS-WA-46 | 242.6 | 242.7 | 22 | Waterbody Crossing |
| ATWS-1633 | E14-102-S1 | 242.9 | 243 | 35 | Waterbody Crossing |

TABLE 2.3-12

**Additional Temporary Workspace within 50 feet of Waterbodies for the NEXUS Project Pipeline Facilities**

| State/ Facility/ ATWS Name | Waterbody ID | Milepost Start a/ | Milepost End a/ | Distance from Resource Area (Feet) | ATWS Justification |
|---|---|---|---|---|---|
| ATWS-1864 | AS-WA-16 | 248.7 | 248.8 | 30 | Road and Waterbody Crossing |
| ATWS-1629 | AS-WA-16A | 248.8 | 248.8 | 0 | Road and Waterbody Crossing |
| ATWS-1629 | AS-WA-17 | 248.8 | 248.8 | 14 | Road and Waterbody Crossing |
| ATWS-0497 | AS-WA-18 | 248.9 | 249 | 19 | Constructability |

a/ Approximate milepost along the pipeline rounded to the nearest tenth

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| ***Mainline*** | | | | | | | |
| **Ohio** | | | | | | | |
| **Columbiana** | | | | | | | |
| AWB-CO-19 | PFO | 0.1 | 118 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-CO-18 | PEM/PSS | 0.68 | 244 | 0.3 | 0.0 | 0.3 | 0.0 |
| AWB-CO-16 | PEM/PSS | 1.19 | 66 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-4 | PEM | 1.81 | 268 | 0.9 | 0.0 | 0.3 | 0.0 |
| A14-5 | PEM | 1.85 | 9 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-5 | PEM | 1.88 | 156 | 0.3 | 0.0 | 0.2 | 0.0 |
| A14-5 | PEM | 1.97 | 44 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-5 | PEM | 2.04 | 189 | 0.2 | 0.0 | 0.2 | 0.0 |
| A14-5 | PEM | 2.13 | 91 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-9 | PEM | 4.73 | 27 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-10 | PEM/PSS | 4.78 | 21 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-10 | PEM/PSS | 4.8 | 123 | 0.2 | 0.0 | 0.2 | 0.0 |
| A14-10 | PEM/PFO/PSS | 4.82 | 20 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-10 | PEM/PSS | 4.91 | 472 | 0.8 | 0.0 | 0.5 | 0.0 |
| A14-11 | PEM | 5.15 | 87 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-126 | PEM | 5.49 | 100 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-127 | PEM | 5.56 | 98 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-12 | PEM | 6.28 | 141 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-12 | PEM | 6.31 | 113 | 0.2 | 0.0 | 0.1 | 0.0 |
| A14-125 | PEM | 6.72 | 46 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| A14-192 | PEM | 7.33 | 16 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-190 / AWB-CO-7 | PEM/PSS | 7.7 | 195 | 0.3 | 0.0 | 0.2 | 0.0 |
| AWB-CO-7 | PEM/PSS/PFO | 7.73 | 69 | 0.1 | 0.1 | 0.1 | 0.0 |
| AWB-CO-9 | PEM/PSS | 7.89 | 38 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-33 | PEM | 8.88 | 136 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-193 | PEM/PFO | 9.18 | 98 | 0.2 | 0.1 | 0.1 | 0.1 |
| A14-14 | PEM | 10.14 | 139 | 0.2 | 0.0 | 0.1 | 0.0 |
| A14-15 | PEM | 10.37 | 22 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-CO-11 | PEM/PSS | 10.78 | 202 | 0.3 | 0.0 | 0.2 | 0.0 |
| AWB-CO-11 | PEM/PSS | 10.8 | 23 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-16 | PEM/PSS | 11.06 | 208 | 0.4 | 0.0 | 0.3 | 0.0 |
| AWB-CO-12 | PSS | 11.2 | 222 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-CO-12 | PSS | 11.24 | 14 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Stark** | | | | | | | |
| AWB-ST-2 | PEM/PFO | 13.22 | 127 | 0.2 | 0.1 | 0.1 | 0.1 |
| AWB-ST-3 | PEM/PSS/PFO | 13.37 | 33 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ST-3 | PEM/PSS/PFO | 13.48 | 53 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-20 | PEM | 14.29 | 58 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-21 | PEM | 14.61 | 396 | 0.7 | 0.0 | 0.4 | 0.0 |
| AWB-ST-4 | PEM/PSS/PFO | 14.92 | 499 | 0.8 | 0.4 | 0.5 | 0.3 |
| AWB-ST-20 | PFO | 15.35 | 70 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ST-6 | PEM/PSS | 16.52 | 63 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ST-7 | PFO | 16.65 | 130 | 0.1 | 0.1 | 0.1 | 0.1 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-ST-7 | PFO | 16.76 | 621 | 1.0 | 1.0 | 0.6 | 0.6 |
| AWB-ST-7 | PFO | 16.77 | 16 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-107 | PEM | 16.79 | 25 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-106 | PSS | 17.13 | 86 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-104 | PEM | 17.48 | 22 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ST-8 | PFO | 18.34 | 10 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ST-8 | PFO | 18.35 | 46 | 0.1 | 0.1 | 0.0 | 0.0 |
| A14-102 | PEM | 18.63 | 78 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-ST-11 | PFO | 19.43 | 277 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ST-11 | PFO | 19.47 | 61 | 0.9 | 0.9 | 0.4 | 0.4 |
| A14-172 | PEM/PFO | 19.6 | 427 | 0.9 | 0.9 | 0.5 | 0.5 |
| A14-173 | PFO | 19.7 | 71 | 0.1 | 0.1 | 0.1 | 0.1 |
| A14-176 | PFO | 20 | 3 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-176 | PFO | 20.05 | 43 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-176 | PFO | 20.05 | 69 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-176 | PFO | 20.08 | 77 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-171 | PFO | 20.64 | 103 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ST-12 | PEM/PSS | 20.72 | 60 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-161 | PFO | 23.86 | 179 | 0.1 | 0.1 | 0.1 | 0.1 |
| A14-161 | PFO | 23.88 | 67 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-167 | PSS | 24.72 | 41 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-100 | PEM | 25.96 | 178 | 0.3 | 0.0 | 0.2 | 0.0 |
| A14-100 | PEM | 25.98 | 45 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| A14-100 | PEM | 25.99 | 74 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-101 | PEM | 26.11 | 145 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-97 | PEM/PFO | 26.45 | 59 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-97 | PEM/PFO | 26.51 | 130 | 0.2 | 0.0 | 0.1 | 0.0 |
| A14-36 | PEM | 26.74 | 68 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-34 | PEM/PFO/PSS | 27.03 | 350 | 0.5 | 0.3 | 0.3 | 0.2 |
| A14-34 | PEM/PFO/PSS | 27.08 | 44 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-35 | PFO | 27.1 | 17 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-34 / AWB-ST-13 | PEM/PSS | 27.22 | 380 | 0.7 | 0.0 | 0.4 | 0.0 |
| A14-168 / AWB-ST-27 | PEM/PFO/PSS | 28.17 | 156 | 0.2 | 0.2 | 0.2 | 0.2 |
| A14-168 | PEM/PSS | 28.17 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ST-14 | PFO | 28.56 | 183 | 0.5 | 0.5 | 0.2 | 0.2 |
| AWB-ST-18 | PEM/PSS/PFO | 29.05 | 672 | 1.1 | 0.7 | 0.7 | 0.5 |
| AWB-ST-26 | PEM/PSS/PFO | 29.28 | 363 | 0.5 | 0.4 | 0.4 | 0.2 |
| AWB-ST-20 | PFO | 30.51 | 73 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ST-21 | PEM/PSS/PFO | 30.6 | 174 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-ST-21 | PEM/PSS | 30.61 | 23 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-164 | PEM | 31.24 | 209 | 0.3 | 0.0 | 0.2 | 0.0 |
| A14-164 | PEM | 31.39 | 506 | 0.6 | 0.0 | 0.3 | 0.0 |
| AWB-ST-23 | PEM/PSS | 32.75 | 1048 | 4.0 | 0.0 | 1.1 | 0.0 |
| **Summit** | | | | | | | |
| AWB-SU-1 | PEM/PSS | 33.01 | 923 | 1.8 | 0.0 | 1.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-SU-2 | PEM/PSS | 33.39 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-2 | PEM/PSS/PFO | 33.4 | 78 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-2 | PEM/PSS/PFO | 33.5 | 280 | 0.2 | 0.0 | 0.1 | 0.0 |
| AWB-SU-3 | PEM/PSS/PFO | 33.73 | 405 | 0.6 | 0.5 | 0.4 | 0.4 |
| AWB-SU-4 | PEM/PSS/PFO | 33.98 | 543 | 0.5 | 0.4 | 0.3 | 0.3 |
| AWB-SU-5 | PEM/PFO | 34.29 | 296 | 0.4 | 0.2 | 0.3 | 0.2 |
| AWB-SU-5 | PEM/PFO | 34.38 | 259 | 0.2 | 0.1 | 0.1 | 0.1 |
| AWB-SU-5 | PEM | 34.39 | 36 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-6 | PEM/PSS/PFO | 34.54 | 70 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-SU-6 | PEM/PSS | 34.61 | 173 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-SU-7 | PEM/PSS | 34.65 | 18 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-43 | PEM/PSS | 35.24 | 93 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-SU-43 | PEM/PSS/PFO | 35.38 | 774 | 0.7 | 0.1 | 0.3 | 0.1 |
| A14-118 / AWB-SU-8 | PEM | 35.84 | 323 | 0.3 | 0.0 | 0.1 | 0.0 |
| A14-112 | PEM/PSS | 37.47 | 589 | 1.0 | 0.0 | 0.6 | 0.0 |
| A14-112 | PEM/PSS | 37.48 | 73 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-112 | PEM/PSS | 37.53 | 145 | 0.2 | 0.0 | 0.2 | 0.0 |
| A14-112 | PEM/PSS | 37.55 | 108 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-112 | PEM/PSS | 37.73 | 286 | 0.5 | 0.0 | 0.3 | 0.0 |
| A14-112 / AWB-SU-12 | PEM/PSS | 37.79 | 403 | 0.6 | 0.0 | 0.4 | 0.0 |
| AWB-SU-13 | PEM/PSS | 38 | 245 | 0.5 | 0.0 | 0.3 | 0.0 |
| —AWB-SU-13 | PEM/PSS | 38.04 | 190 | 0.4 | 0.0 | 0.2 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-SU-13 | PEM/PSS | 38.2 | 937 | 1.5 | 0.0 | 1.0 | 0.0 |
| AWB-SU-13 | PEM/PSS | 38.3 | 210 | 0.3 | 0.0 | 0.2 | 0.0 |
| AWB-SU-14 | PEM/PSS | 38.75 | 72 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-SU-14 | PEM/PSS | 38.79 | 116 | 0.2 | 0.0 | 0.1 | 0.0 |
| AWB-SU-17 | PEM/PSS | 39.79 | 427 | 0.7 | 0.0 | 0.5 | 0.0 |
| AWB-SU-17 / A14-122 | PEM/PSS | 39.85 | 659 | 1.1 | 0.0 | 0.8 | 0.0 |
| A14-123 | PEM | 40.21 | 112 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-SU-22 | PEM/PSS/PFO | 41.86 | 213 | 0.3 | 0.2 | 0.2 | 0.2 |
| AWB-SU-22 | PEM/PSS | 41.87 | 30 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-21 | PEM/PSS | 41.93 | 88 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-SU-23 | PEM/PSS | 42.07 | 67 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-SU-24 | PEM/PFO | 43.13 | 441 | 0.6 | 0.6 | 0.5 | 0.5 |
| B14-1 | PEM/PFO | 43.26 | 455 | 0.7 | 0.7 | 0.5 | 0.5 |
| B14-1 | PEM | 43.29 | 117 | 0.2 | 0.0 | 0.0 | 0.0 |
| B14-1 | PEM | 43.38 | 350 | 0.8 | 0.0 | 0.4 | 0.0 |
| B14-1 | PEM | 43.39 | 16 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-26 | PEM | 43.53 | 147 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-SU-27 | PEM/PSS/PFO | 43.63 | 233 | 0.2 | 0.0 | 0.2 | 0.0 |
| AWB-SU-28 | PEM/PSS/PFO | 43.72 | 44 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-SU-29 | PEM/PFO | 43.87 | 55 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-30 | PEM | 44.12 | 65 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-31 | PEM | 44.72 | 52 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-33 | PEM | 44.74 | 29 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-SU-34 | PEM/PSS | 44.75 | 21 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-34 | PEM/PSS | 44.76 | 95 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-SU-36[HDD] | PEM | 45.97 | 63 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-37[HDD] | PEM | 46.02 | 15 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-38[HDD] | PEM/PSS | 46.04 | 32 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-39 | PEM | 46.51 | 24 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-40 | PEM | 46.75 | 31 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SU-41 | PEM | 46.89 | 85 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-SU-42 | PEM | 46.97 | 40 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-41 | PEM/PFO/PSS | 47.45 | 124 | 0.1 | 0.1 | 0.1 | 0.0 |
| A14-41 | PEM/PSS | 47.51 | 160 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-42 | PEM | 47.81 | 126 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-42 | PEM | 47.84 | 49 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-42 | PEM | 47.91 | 13 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Wayne** | | | | | | | |
| AWB-WE-4 | PEM/PSS | 48.94 | 55 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-WE-8 | PEM | 49.66 | 26 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WE-9 | PEM/PFO | 49.88 | 83 | 0.1 | 0.1 | 0.1 | 0.1 |
| A14-124 | PEM/PFO/PSS | 50.32 | 375 | 0.6 | 0.1 | 0.4 | 0.1 |
| A14-124 | PEM/PSS | 50.32 | 22 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WE-10 | PEM | 50.62 | 108 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-WE-13 | PFO | 50.85 | 27 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WE-15 | PFO | 51.1 | 34 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-WE-15 | PFO | 51.11 | 39 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-92 | PEM | 51.59 | 80 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-WE-14 | PEM/PFO | 51.81 | 225 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-WE-16 | PEM/PFO | 52.61 | 48 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-WE-16 | PEM/PFO | 52.63 | 47 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WE-17 | PEM | 53 | 47 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-WE-17 | PEM | 53.01 | 15 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WE-17 | PEM | 53.02 | 18 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WE-20 | PEM | 53.81 | 265 | 0.3 | 0.0 | 0.2 | 0.0 |
| AWB-WE-22 | PEM | 53.87 | 31 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Medina** | | | | | | | |
| AWB-ME-5 | PEM | 55 | 173 | 0.3 | 0.0 | 0.2 | 0.0 |
| AWB-ME-5 | PEM | 55.03 | 27 | 0.0 | 0.0 | 0.0 | 0.0 |
| B14-7 | PEM | 55.45 | 367 | 0.4 | 0.0 | 0.3 | 0.0 |
| AWB-ME-14 | PEM/PSS | 56.9 | 75 | 0.0 | 0.0 | 0.1 | 0.0 |
| AWB-ME-14 | PEM/PSS | 56.92 | 448 | 0.6 | 0.0 | 0.3 | 0.0 |
| A14-39 | PEM | 57.74 | 11 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-39 | PEM | 57.74 | 10 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-39 | PEM | 57.74 | 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-20 | PFO | 59.1 | 235 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-ME-91 | PEM | 59.68 | 407 | 0.5 | 0.0 | 0.3 | 0.0 |
| AWB-ME-91 | PEM | 59.75 | 28 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-91 | PEM/PFO | 59.78 | 122 | 0.2 | 0.2 | 0.1 | 0.1 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-ME-92 | PEM | 59.9 | 270 | 0.4 | 0.0 | 0.3 | 0.0 |
| A14-114 | PEM | 61.56 | 39 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-ME-23 | PEM | 62.95 | 19 | 0.0 | 0.0 | 0.0 | 0.0 |
| B14-4 | PFO/PSS | 63.16 | 82 | 0.1 | 0.1 | 0.0 | 0.0 |
| B14-4 | PFO/PSS | 63.17 | 55 | 0.1 | 0.1 | 0.1 | 0.1 |
| B14-4 | PSS | 63.19 | 9 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-129 | PEM | 63.54 | 112 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-ME-26 | PFO | 64.1 | 162 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-ME-26 | PFO | 64.13 | 28 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-26 | PFO | 64.16 | 23 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-26 | PFO | 64.17 | 16 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-27 | PFO | 64.35 | 46 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-27 | PFO | 64.36 | 75 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ME-29 | PFO | 64.45 | 43 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-30 | PFO | 64.54 | 69 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ME-31 | PEM/PSS/PFO | 64.7 | 186 | 0.3 | 0.3 | 0.2 | 0.2 |
| AWB-ME-31 | PEM/PSS/PFO | 64.74 | 53 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-ME-32 | PFO | 64.82 | 86 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ME-33 | PEM/PFO | 65.08 | 10 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-ME-33 | PEM/PFO | 65.08 | 54 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-35 | PEM/PSS/PFO | 65.42 | 46 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-35 | PEM/PSS/PFO | 65.49 | 115 | 0.2 | 0.0 | 0.1 | 0.0 |
| AWB-ME-36 | PEM/PSS | 65.59 | 144 | 0.2 | 0.0 | 0.1 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-ME-37 | PFO | 65.69 | 113 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-ME-37 | PFO | 65.71 | 259 | 0.2 | 0.2 | 0.0 | 0.0 |
| AWB-ME-37 | PFO | 65.78 | 123 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-ME-37 | PFO | 65.8 | 117 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-ME-38 | PEM/PSS | 65.86 | 170 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-ME-39 | PEM/PSS | 66.05 | 30 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-39 | PEM/PSS | 66.05 | 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-39 | PEM/PSS | 66.08 | 25 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-39 | PEM/PSS | 66.13 | 50 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-ME-39 | PEM/PSS | 66.24 | 107 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-39 | PEM/PSS | 66.3 | 317 | 0.2 | 0.0 | 0.1 | 0.0 |
| AWB-ME-39 | PEM/PSS | 66.32 | 32 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-39 | PEM/PSS | 66.37 | 87 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-39 | PEM/PSS | 66.38 | 78 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-ME-39 | PEM/PSS | 66.4 | 71 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-ME-40 | PEM/PSS | 66.65 | 59 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-ME-40 | PEM/PSS | 66.66 | 55 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-ME-41 | PFO | 66.84 | 105 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-41 | PFO | 66.89 | 41 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-41 | PFO | 66.94 | 218 | 0.2 | 0.2 | 0.2 | 0.2 |
| AWB-ME-41 | PFO | 66.99 | 210 | 0.3 | 0.3 | 0.2 | 0.2 |
| AWB-ME-43 | PEM | 67.32 | 51 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-44 | PEM/PSS | 67.39 | 198 | 0.2 | 0.0 | 0.2 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-ME-44 | PEM/PSS | 67.46 | 112 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-ME-45 | PEM | 67.75 | 82 | 0.2 | 0.0 | 0.1 | 0.0 |
| A14-48 | PEM/PFO | 69.49 | 70 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-51 | PEM/PSS | 69.57 | 27 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-52 | PEM/PSS | 69.76 | 20 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-53 | PEM/PSS/PFO | 69.96 | 145 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ME-53 | PEM/PSS | 70.15 | 25 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-53 | PEM/PSS | 70.27 | 280 | 0.2 | 0.0 | 0.2 | 0.0 |
| AWB-ME-58 | PEM/PSS | 70.81 | 38 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-58 | PEM/PSS | 70.82 | 30 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-58 | PEM/PSS | 70.87 | 28 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-58 | PEM/PSS/PFO | 70.93 | 117 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-ME-58 | PEM/PSS/PFO | 70.94 | 50 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-58 | PEM/PSS/PFO | 70.94 | 3 | 0.0 | 0.0 | 0.0 | 0.0 |
| B14-8 | PEM | 70.99 | 56 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-64 | PFO | 72.52 | 65 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-ME-71 | PEM/PFO | 73.63 | 68 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ME-73 | PEM | 73.81 | 80 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-74 | PEM/PFO | 74.09 | 77 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ME-74 | PEM/PFO | 74.14 | 330 | 0.4 | 0.4 | 0.3 | 0.3 |
| AWB-ME-90 | PEM | 74.72 | 64 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-ME-90 | PEM | 74.81 | 31 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-95 | PEM | 75.03 | 28 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-ME-95 | PEM | 75.1 | 23 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ME-99 | PEM/PSS | 76.22 | 34 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-LO-1 | PEM/PFO | 77.06 | 88 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-LO-1 | PEM/PFO | 77.18 | 171 | 0.2 | 0.0 | 0.2 | 0.0 |
| **Lorain** | | | | | | | |
| AWB-LO-1 | PEM/PFO | 77.2 | 141 | 0.2 | 0.1 | 0.1 | 0.1 |
| AWB-LO-1 | PEM/PFO | 77.24 | 179 | 0.2 | 0.0 | 0.1 | 0.0 |
| AWB-LO-1 | PEM | 77.26 | 67 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-56 | PEM/PFO | 78.18 | 331 | 0.5 | 0.3 | 0.3 | 0.3 |
| A14-58 | PEM | 78.23 | 74 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-59 | PEM/PFO | 78.67 | 119 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-LO-38 | PEM | 79.16 | 85 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-62 | PEM | 79.29 | 21 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-63 | PEM/PFO | 79.4 | 184 | 0.1 | 0.1 | 0.1 | 0.1 |
| A14-63 | PEM/PFO | 79.53 | 455 | 0.7 | 0.6 | 0.5 | 0.5 |
| A14-63 | PEM/PFO | 79.63 | 129 | 0.2 | 0.1 | 0.1 | 0.1 |
| AWB-LO-8 | PEM | 79.93 | 50 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-68 | PEM/PFO | 80.17 | 198 | 0.3 | 0.3 | 0.2 | 0.2 |
| A14-67 | PEM/PFO | 80.25 | 42 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-67 | PEM | 80.29 | 148 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-LO-5 | PFO | 80.41 | 366 | 0.6 | 0.6 | 0.4 | 0.4 |
| AWB-LO-48 | PFO | 80.95 | 192 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-LO-48 | PFO | 80.95 | 43 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-LO-46 | PEM | 81.55 | 55 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-LO-9 | PEM/PFO | 81.64 | 126 | 0.2 | 0.2 | 0.1 | 0.1 |
| A14-71 | PEM | 81.67 | 162 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-71 | PEM/PFO | 81.8 | 506 | 0.6 | 0.5 | 0.5 | 0.5 |
| AWB-LO-10 | PEM/PSS/PFO | 82.43 | 82 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-LO-10 | PEM/PSS/PFO | 82.46 | 199 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-LO-10 | PEM/PSS | 82.57 | 99 | 0.2 | 0.0 | 0.1 | 0.0 |
| A14-51[HDD] | PEM/PFO | 83.22 | 114 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-52[HDD] | PEM/PSS | 83.47 | 352 | 0.4 | 0.0 | 0.4 | 0.0 |
| A14-73 | PEM/PFO | 85.26 | 182 | 0.2 | 0.2 | 0.2 | 0.2 |
| A14-73 | PEM/PFO | 85.32 | 330 | 0.3 | 0.3 | 0.3 | 0.3 |
| A14-131 / AWB-LO-15 | PFO | 87.35 | 341 | 0.4 | 0.4 | 0.3 | 0.3 |
| AWB-LO-15 | PEM/PFO | 87.49 | 341 | 0.6 | 0.5 | 0.4 | 0.4 |
| AWB-LO-15 | PEM | 87.55 | 64 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-LO-15 | PEM | 87.7 | 17 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-LO-17 | PEM/PSS | 87.93 | 44 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-LO-22 | PEM/PSS | 89.17 | 134 | 0.5 | 0.0 | 0.1 | 0.0 |
| AWB-LO-22 | PEM/PSS | 89.19 | 76 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-78 | PEM | 90.5 | 200 | 0.2 | 0.0 | 0.0 | 0.0 |
| A14-178 | PEM/PSS | 90.73 | 21 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-178 | PEM/PSS | 90.82 | 271 | 0.2 | 0.0 | 0.2 | 0.0 |
| A14-179 | PEM/PSS | 91.68 | 67 | 0.1 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| A14-181 | PEM | 91.98 | 125 | 0.2 | 0.0 | 0.1 | 0.0 |
| A14-181 | PEM | 92.03 | 279 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-182 | PEM | 92.26 | 296 | 0.5 | 0.0 | 0.3 | 0.0 |
| A14-182 | PEM | 92.33 | 327 | 0.3 | 0.0 | 0.3 | 0.0 |
| A14-141 | PEM/PFO | 92.66 | 235 | 0.4 | 0.2 | 0.2 | 0.2 |
| A14-141 | PEM/PFO | 92.67 | 8 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-LO-27 | PEM/PSS/PFO | 92.81 | 81 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-138 / AWB-LO-29 | PSS/PFO/PEM/PUB | 93.3 | 339 | 0.9 | 0.1 | 0.4 | 0.1 |
| A14-138 | PEM/PFO/PSS/PUB | 93.31 | 30 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-142 | PEM | 93.43 | 165 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-143 | PEM | 93.51 | 224 | 0.2 | 0.0 | 0.2 | 0.0 |
| A14-137 | PEM/PSS | 93.82 | 198 | 0.3 | 0.0 | 0.2 | 0.0 |
| A14-136 / AWB-LO-30 | PEM/PFO | 94.2 | 1595 | 2.6 | 0.5 | 1.8 | 0.4 |
| A14-184 | PFO | 95.43 | 306 | 0.5 | 0.5 | 0.3 | 0.3 |
| A14-134 | PEM | 96.12 | 69 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-135 | PEM | 96.17 | 34 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-80 | PFO | 96.24 | 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-153 | PFO | 96.8 | 62 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-145 | PEM | 97.56 | 41 | 0.1 | 0.0 | 0.0 | 0.0 |
| A14-150 | PFO | 98.16 | 60 | 0.1 | 0.1 | 0.0 | 0.0 |
| **Erie** | | | | | | | |
| AWB-ER-2 | PFO | 98.67 | 284 | 0.3 | 0.3 | 0.2 | 0.2 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-ER-2 | PFO | 98.79 | 304 | 0.2 | 0.2 | 0.1 | 0.1 |
| A14-200 | PEM | 99.71 | 85 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-ER-100[HDD] | PFO | 100.43 | 94 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ER-50 | PFO | 100.88 | 1610 | 1.0 | 1.0 | 0.0 | 0.0 |
| AWB-ER-50 | PFO | 101.2 | 303 | 3.1 | 3.1 | 2.0 | 2.0 |
| AWB-ER-50 | PFO | 101.37 | 513 | 0.6 | 0.6 | 0.3 | 0.3 |
| AWB-ER-49 | PEM/PSS | 101.7 | 42 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-ER-49 | PEM/PSS | 101.87 | 216 | 0.3 | 0.0 | 0.2 | 0.0 |
| AWB-ER-49 | PEM/PSS | 101.95 | 364 | 1.2 | 0.0 | 0.4 | 0.0 |
| AWB-ER-48 | PEM | 102.04 | 35 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ER-46 | PEM/PFO | 102.64 | 835 | 1.5 | 1.5 | 1.1 | 1.1 |
| AWB-ER-46 | PEM/PFO | 102.82 | 300 | 0.4 | 0.4 | 0.3 | 0.3 |
| AWB-ER-43 | PFO | 105.43 | 172 | 0.3 | 0.3 | 0.2 | 0.2 |
| AWB-ER-42 | PEM/PSS | 106.25 | 54 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-ER-41 | PEM/PFO | 106.77 | 474 | 0.8 | 0.6 | 0.5 | 0.4 |
| A14-111 | PEM | 107.37 | 66 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-154 | PEM | 108.8 | 125 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-ER-35 | PFO | 108.98 | 30 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-187 | PEM | 109.17 | 27 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-188 | PEM/PFO/PSS | 109.22 | 161 | 0.3 | 0.3 | 0.2 | 0.2 |
| A14-188 | PEM/PSS | 109.29 | 225 | 0.3 | 0.0 | 0.2 | 0.0 |
| AWB-ER-12 | PFO | 109.81 | 37 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-ER-12 | PFO | 109.86 | 234 | 0.4 | 0.4 | 0.2 | 0.2 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-ER-13 | PEM/PSS/PFO | 110.25 | 157 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-ER-14 | PEM | 110.48 | 42 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-ER-15 | PFO/PSS | 111.37 | 85 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ER-16 | PEM/PSS/PFO | 111.72 | 94 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ER-17 | PEM/PSS/PFO | 112.15 | 76 | 0.1 | 0.0 | 0.1 | 0.0 |
| A14-156 | PFO | 112.42 | 115 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ER-20[HDD] | PEM/PSS | 113.01 | 24 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ER-21 | PEM/PSS/PFO | 113.46 | 54 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-ER-21 | PEM/PSS | 113.52 | 56 | 0.0 | 0.0 | 0.0 | 0.0 |
| A14-95 | PEM | 114.13 | 20 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ER-22 | PEM/PSS/PFO | 114.35 | 73 | 0.1 | 0.1 | 0.1 | 0.0 |
| AWB-ER-22 | PEM/PSS/PFO | 114.37 | 131 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-ER-37 | PEM/PSS | 114.71 | 71 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-ER-37 | PEM/PSS | 114.72 | 42 | 0.1 | 0.0 | 0.0 | 0.0 |
| AWB-ER-37 | PEM/PSS | 114.73 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-ER-38 | PFO/PSS | 121.45 | 45 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-ER-38 | PFO/PSS | 121.46 | 26 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Sandusky** | | | | | | | |
| D14-2 | PFO | 130.01 | 25 | 0.0 | 0.0 | 0.0 | 0.0 |
| D14-3 | PEM | 130.33 | 181 | 0.2 | 0.0 | 0.2 | 0.0 |
| D14-3 | PEM | 130.39 | 82 | 0.1 | 0.0 | 0.1 | 0.0 |
| D14-3 | PEM/PFO | 130.44 | 72 | 0.1 | 0.0 | 0.0 | 0.0 |
| D14-3 | PEM | 130.48 | 20 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| D14-3 | PEM/PFO | 130.62 | 796 | 1.1 | 0.6 | 0.6 | 0.2 |
| D14-3 | PEM/PFO | 130.69 | 133 | 0.2 | 0.2 | 0.1 | 0.1 |
| AWB-SA-1 | PEM | 132.59 | 302 | 0.4 | 0.0 | 0.3 | 0.0 |
| E14-163 / AWB-SA-2 | PEM/PFO | 133.97 | 539 | 0.9 | 0.9 | 0.6 | 0.6 |
| D14-9 | PSS | 134.23 | 282 | 0.4 | 0.0 | 0.3 | 0.0 |
| D14-10 | PEM/PSS | 134.66 | 51 | 0.1 | 0.0 | 0.1 | 0.0 |
| D14-10 | PEM/PSS | 134.7 | 49 | 0.1 | 0.0 | 0.0 | 0.0 |
| E14-106 | PEM/PFO | 136.12 | 394 | 0.5 | 0.5 | 0.3 | 0.3 |
| AWB-SA-72 | PEM | 138.88 | 9 | 0.0 | 0.0 | 0.0 | 0.0 |
| D14-43[HDD] | PFO | 141.23 | 230 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-20 | PSS | 141.72 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-20 | PFO/PSS | 141.81 | 531 | 0.8 | 0.6 | 0.5 | 0.4 |
| E14-20 | PSS | 141.87 | 322 | 0.2 | 0.0 | 0.2 | 0.0 |
| D14-37 | PEM | 146.06 | 8 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-73 | PEM/PFO | 147.21 | 170 | 0.2 | 0.2 | 0.2 | 0.2 |
| E14-43 | PEM/PFO | 148.3 | 34 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-110 | PSS | 149.82 | 7 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SA-80 | PFO | 151.39 | 765 | 1.2 | 1.2 | 0.8 | 0.8 |
| AWB-SA-81 | PEM | 151.49 | 20 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-SA-82 | PEM | 152.07 | 8 | 0.0 | 0.0 | 0.0 | 0.0 |
| D14-41 / AWB-SA-13 | PEM/PFO/PSS | 152.3 | 875 | 1.4 | 1.2 | 1.0 | 0.9 |
| E14-122 | PEM/PFO | 152.89 | 825 | 0.4 | 0.4 | 0.3 | 0.3 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| E14-123 | PEM/PFO | 153.04 | 37 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-123 | PEM/PFO | 153.09 | 166 | 0.5 | 0.5 | 0.2 | 0.2 |
| D14-42 | PEM/PSS | 153.14 | 222 | 0.5 | 0.0 | 0.2 | 0.0 |
| D14-25 | PEM/PFO | 153.52 | 172 | 0.2 | 0.1 | 0.1 | 0.1 |
| D14-49 | PFO | 154.86 | 408 | 0.5 | 0.5 | 0.3 | 0.3 |
| D14-48 | PEM | 155.09 | 347 | 0.3 | 0.0 | 0.1 | 0.0 |
| AWB-SA-75[HDD] | PFO | 157.41 | 36 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-33 / AWB-SA-16 | PFO | 157.89 | 735 | 1.2 | 1.2 | 0.6 | 0.6 |
| E14-34 / AWB-SA-17 | PEM/PFO | 158.38 | 636 | 1.0 | 1.0 | 0.7 | 0.7 |
| AWB-SA-17 | PFO | 158.47 | 75 | 0.1 | 0.1 | 0.0 | 0.0 |
| E14-FW1 | PFO | 158.48 | 109 | 0.0 | 0.0 | 0.0 | 0.0 |
| D14-38 | PEM | 158.65 | 8 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Wood** | | | | | | | |
| D14-31 | PFO | 159.66 | 372 | 0.6 | 0.6 | 0.4 | 0.4 |
| E14-84 | PEM/PFO | 160.61 | 470 | 0.6 | 0.6 | 0.4 | 0.3 |
| E14-154 | PEM/PFO | 161.14 | 677 | 1.1 | 1.1 | 0.7 | 0.7 |
| E14-152 / AWB-WO-15 | PEM/PFO | 161.6 | 1159 | 2.5 | 1.5 | 1.3 | 1.0 |
| D14-39 | PEM | 163.51 | 38 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-52 | PEM/PFO | 165 | 637 | 0.9 | 0.6 | 0.6 | 0.6 |
| E14-41 | PEM | 165.76 | 3 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-41 | PEM | 165.79 | 162 | 0.1 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-WO-19 | PFO | 175.37 | 99 | 0.1 | 0.1 | 0.1 | 0.1 |
| **Lucas** | | | | | | | |
| AWB-LU-1[HDD] | PFO | 176.28 | 112 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-LU-14 | PEM | 178 | 20 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-LU-6 | PEM/PSS/PFO | 180.45 | 345 | 0.4 | 0.4 | 0.2 | 0.2 |
| AWB-LU-19 | PEM | 182.61 | 211 | 0.3 | 0.0 | 0.2 | 0.0 |
| AWB-LU-21 | PFO | 183.75 | 530 | 0.9 | 0.9 | 0.6 | 0.6 |
| AWB-LU-22 | PEM | 183.85 | 125 | 0.1 | 0.0 | 0.0 | 0.0 |
| **Henry** | | | | | | | |
| AWB-HE-1 | PEM | 184.01 | 124 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-HE-3 | PFO | 184.27 | 89 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-HE-3 | PFO | 184.35 | 29 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-HE-4 | PFO | 184.42 | 67 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-HE-6 | PFO | 184.71 | 344 | 0.5 | 0.5 | 0.4 | 0.4 |
| AWB-HE-7 | PEM | 184.88 | 11 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Fulton** | | | | | | | |
| AWB-FU-70 | PFO | 188 | 204 | 0.3 | 0.3 | 0.2 | 0.2 |
| AWB-FU-64 | PEM/PFO | 191.27 | 247 | 0.3 | 0.0 | 0.2 | 0.0 |
| AWB-FU-69 | PEM | 193.72 | 33 | 0.1 | 0.0 | 0.0 | 0.0 |
| E14-13 | PEM | 201.86 | 68 | 0.1 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| **Michigan** | | | | | | | |
| **Lenawee** | | | | | | | |
| AWB-LE-50 | PEM | 210.17 | 7 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-170 | PFO | 217.81 | 144 | 0.1 | 0.1 | 0.0 | 0.0 |
| E14-170 | PFO | 217.83 | 41 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-LE-49 | PFO | 219.69 | 62 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-148 | PEM/PFO | 220.49 | 489 | 0.7 | 0.7 | 0.4 | 0.4 |
| E14-148 | PEM | 220.54 | 51 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Monroe** | | | | | | | |
| E14-62 | PSS | 224.79 | 28 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-MO-4 | PFO | 230.33 | 250 | 0.4 | 0.4 | 0.3 | 0.3 |
| AWB-MO-6 | PEM | 230.51 | 27 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-MO-5 | PEM | 230.53 | 21 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-MO-5 | PEM | 230.56 | 18 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-MO-8 | PEM | 230.57 | 12 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Washtenaw** | | | | | | | |
| E14-89 | PFO | 233.45 | 187 | 0.1 | 0.1 | 0.1 | 0.1 |
| AWB-WA-1 | PEM | 233.75 | 30 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WA-2 | PEM | 234.2 | 23 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-135 | PFO | 238.4 | 553 | 1.0 | 1.0 | 0.6 | 0.6 |
| E14-135 | PFO | 238.44 | 213 | 0.3 | 0.3 | 0.2 | 0.2 |
| E14-136 | PFO | 238.54 | 183 | 0.3 | 0.3 | 0.2 | 0.2 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-WA-4 | PEM | 239.48 | 16 | 0.0 | 0.0 | 0.0 | 0.0 |
| E14-167 | PEM | 239.48 | 106 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WA-8 | PFO | 240.11 | 286 | 0.5 | 0.5 | 0.3 | 0.3 |
| E14-164 | PFO | 240.44 | 390 | 0.6 | 0.6 | 0.4 | 0.4 |
| AWB-WA-47 | PEM/PSS | 242.33 | 91 | 0.1 | 0.0 | 0.1 | 0.0 |
| E14-180 | PFO | 243.1 | 68 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-WA-9 | PEM/PSS | 243.28 | 46 | 0.1 | 0.0 | 0.0 | 0.0 |
| E14-155 / AWB-WA-10 | PEM/PSS/PFO | 243.43 | 726 | 1.1 | 1.1 | 0.8 | 0.8 |
| E14-156 | PEM | 243.59 | 240 | 0.4 | 0.0 | 0.2 | 0.0 |
| E14-168 | PEM | 243.99 | 498 | 0.8 | 0.0 | 0.5 | 0.0 |
| E14-168 | PEM | 244.08 | 317 | 0.4 | 0.0 | 0.3 | 0.0 |
| AWB-WA-13[HDD] | PEM/PSS | 245.08 | 62 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WA-14 | PFO | 245.24 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WA-14 | PFO | 245.3 | 393 | 0.6 | 0.6 | 0.4 | 0.4 |
| AWB-WA-42 | PEM/PFO | 245.95 | 20 | 0.1 | 0.1 | 0.0 | 0.0 |
| AWB-WA-42 | PEM | 245.95 | 11 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WA-15 | PEM/PSS | 248.13 | 107 | 0.1 | 0.0 | 0.1 | 0.0 |
| AWB-WA-16 | PEM/PSS | 248.5 | 64 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WA-16 | PEM/PSS | 248.52 | 75 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WA-16 | PEM/PSS | 248.6 | 377 | 0.4 | 0.0 | 0.2 | 0.0 |
| AWB-WA-16 | PEM/PSS | 248.68 | 215 | 0.2 | 0.0 | 0.1 | 0.0 |
| AWB-WA-18 | PEM/PSS | 249 | 253 | 0.5 | 0.0 | 0.0 | 0.0 |

TABLE 2.4-1

**Wetlands Crossed by the NEXUS Project** a/

| **Facility, State, County, Wetland ID** b/ | **Classification** c/ | **Milepost** | **Crossing Length (feet)** d/ | **Total Wetland Acreage Impacted** e/ | **Total Forested Wetland Acreage Impacted** e/ | **Total Wetland Acreage Impacted by O&M** f/ | **Total Forested Wetland Acreage Impacted by O&M** f/ |
|---|---|---|---|---|---|---|---|
| AWB-WA-19 | PEM/PSS | 249.01 | 117 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WA-18 | PEM/PSS | 249.03 | 63 | 0.0 | 0.0 | 0.0 | 0.0 |
| AWB-WA-18 | PEM/PSS | 249.03 | 71 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Ohio** | | | | | | | |
| **Columbiana** | | | | | | | |
| *Interconnecting Pipeline to TGP* | | | | | | | |
| -- | -- | -- | -- | -- | -- | -- | -- |
| **Pipeline Facilities Totals** | **n/a** | **n/a** | **76,098** | **106.2** | **52.5** | **63.6** | **34.1** |
| **Aboveground Facilities Totala** | -- | -- | -- | -- | -- | -- | -- |

a/ Minor discrepancies in totals are due to rounding. Individual impact areas represented as 0.0 are less than a tenth/acre in size, but are accounted for in the Pipeline Facilities Totals.

b/ Facility indicates where a particular wetland is located along Project mainline or aboveground facility. County indicates which county the wetland is located. Wetland ID indicates the project identifier of each wetland crossing. HDD indicates wetland areas that will be crossed using a HDD method and no impacts are proposed at these wetland crossings.

c/ Classifications are based on Cowardin classification system:

PEM - Palustrine emergent wetland

PSS - Palustrine scrub-shrub wetland

PFO - Palustrine forested wetland

PUB - Palustrine unconsolidated bottom

d/ Crossing length is the distance between the enter MP and exit MP.

e/ Total wetland/forested wetland acreage impacted includes impacts associated with all areas within the construction workspace limits, temporary and permanent.

f/ Total wetland/forested wetland acreage impacted by Operation and Maintenance (O&M) includes impacts associated with vegetation maintenance.

TABLE 2.4-2

**Summary of Wetlands Affected by Construction and Operation of the NEXUS Project** a/

| Facility, County | Total Crossing Length (feet) | Total Wetland Area Affected (acres) | Total Forested Wetland Area Affected (acres) | Wetland Area Affected by Periodic O&M (acres) | Forested Wetland Area Affected by Periodic O&M (acres) |
|---|---|---|---|---|---|
| **Pipeline Facilities** | | | | | |
| ***Pipeline Subtotal*** | 76,098 | 106.20 | 52.47 | 63.55 | 34.06 |
| **Aboveground Facilities** | | | | | |
| ***Aboveground Facilities Subtotal*** | -- | -- | -- | -- | -- |
| **Temporary Access Road** | | | | | |
| ***Access Road Subtotal*** | TBD | TBD | TBD | TBD | TBD |
| **PROJECT TOTAL** | **76,098** | **106.20** | **52.47** | **63.55** | **34.06** |

a/ Minor discrepancies in totals are due to rounding.

TABLE 2.4-3

**Construction Workspace >75 feet within Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | Approximate Wetland ID | Milepost Begin a/ | Milepost End a/ | Crossing Length (feet) | Crossing Width (feet) | Classification b/ | Justification |
|---|---|---|---|---|---|---|---|
| **Ohio** | | | | | | | |
| *Mainline* | | | | | | | |
| Medina | AWB-ME-52 | 69.8 | 69.8 | 14 | 100 | PEM | Railroad Crossing |
| Sandusky | AWB-SA-82 | 152.1 | 152.1 | 5 | 100 | PEM | County Road |

a/ Approximate milepost along the pipeline rounded to the nearest tenth.
b/ Classifications are based on Cowardin classification system.
PEM - Palustrine emergent wetland
PSS - Palustrine scrub-shrub wetland
PFO - Palustrine forested wetland
PUB – Palustrine unconsolidated bottom

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| **Ohio** | | | | | | | | | | | |
| *Mainline* | | | | | | | | | | | |
| Columbiana | ATWS-0630 | 1.8 | 1.8 | 49 | 266 | 4000 | 0.1 | AG | A14-4 | 0 | Road Crossing |
| Columbiana | ATWS-0629 | 1.8 | 1.8 | 49 | 264 | 5616 | 0.1 | AG | A14-4 | 13 | Road Crossing |
| Columbiana | ATWS-0632 | 1.8 | 1.9 | 49 | 238 | 4736 | 0.1 | OL | A14-5 | 0 | Road Crossing |
| Columbiana | ATWS-0631 | 1.9 | 1.9 | 49 | 115 | 12948 | 0.3 | OL | A14-5 | 7 | Road Crossing |
| Columbiana | ATWS-1096 | 2.1 | 2.1 | 25 | 226 | 23349 | 0.5 | AG | A14-5 | 16 | Road Crossing |
| Columbiana | ATWS-1105 | 2.1 | 3.2 | 25 | 5524 | 15014 | 0.3 | AG | A14-5 | 0 | Wetland Crossing |
| Columbiana | ATWS-0015 | 4.7 | 4.7 | 70 | 364 | 13082 | 0.3 | OL | A14-9 | 23 | Wetland Crossing & Staging Area |
| Columbiana | ATWS-0633 | 4.9 | 5.0 | 47 | 140 | 21000 | 0.5 | OL | A14-10 | 39 | Road Crossing |
| Columbiana | ATWS-0603 | 5.5 | 5.5 | 46 | 102 | 20146 | 0.5 | OL | A14-126 | 37 | Wetland Crossing |
| Columbiana | ATWS-0650 | 7.3 | 7.4 | 20 | 302 | 12501 | 0.3 | OL | A14-192 | 24 | Wetland Crossing |
| Columbiana | ATWS-0026 | 7.8 | 7.9 | 74 | 236 | 5632 | 0.1 | OL | AWB-CO-9 | 12 | Wetland Crossing |
| Columbiana | ATWS-1100 | 7.9 | 8.0 | 25 | 678 | 16669 | 0.4 | AG | AWB-CO-9 | 12 | Wetland Crossing |
| Columbiana | ATWS-0604 | 10.1 | 10.1 | 70 | 298 | 3346 | 0.1 | OL | A14-14 | 11 | Wetland Crossing |
| Columbiana | ATWS-0639 | 10.1 | 10.2 | 65 | 434 | 15527 | 0.4 | OL | A14-14 | 13 | Wetland Crossing |
| Columbiana | ATWS-0011 | 10.8 | 10.8 | 50 | 97 | 12985 | 0.3 | FW | AWB-CO-11 | 23 | Railroad & Wetland Crossing |
| Columbiana | ATWS-0013 | 10.8 | 10.8 | 75 | 219 | 11608 | 0.3 | FW | AWB-CO-11 | 0 | Railroad & Wetland Crossing |
| Columbiana | ATWS-0665 | 10.9 | 11.0 | 69 | 198 | 17203 | 0.4 | AG | A14-16 | 35 | Road Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Columbiana | ATWS-1121 | 11.2 | 11.3 | 25 | 434 | 43400 | 1.0 | AG | AWB-CO-12 | 39 | Wetland Crossing |
| Stark | ATWS-0667 | 12.9 | 12.9 | 57 | 137 | 6153 | 0.1 | AG | A14-18 | 1 | Road Crossing |
| Stark | ATWS-1132 | 14.3 | 14.4 | 25 | 724 | 28925 | 0.7 | AG | A14-20 | 10 | Wetland Crossing |
| Stark | ATWS-1136 | 16.0 | 16.2 | 25 | 719 | 14609 | 0.3 | AG | AWB-ST-5 | 1 | Wetland Crossing |
| Stark | ATWS-2072 | 16.2 | 16.3 | 25 | 175 | 15620 | 0.4 | AG | AWB-ST-5 | 2 | Constructability |
| Stark | ATWS-0040 | 16.3 | 16.3 | 62 | 75 | 5643 | 0.1 | OL | AWB-ST-5 | 21 | Road & Wetland Crossing |
| Stark | ATWS-0042 | 16.5 | 16.6 | 70 | 542 | 138108 | 3.2 | OL | AWB-ST-7 | 4 | Wetland Crossing |
| Stark | ATWS-1137 | 16.8 | 16.8 | 70 | 140 | 33888 | 0.8 | AG | A14-107 | 6 | Wetland Crossing |
| Stark | ATWS-1138 | 17.1 | 17.1 | 62 | 216 | 13023 | 0.3 | AG | A14-106 | 45 | Wetland Crossing |
| Stark | ATWS-0078 | 19.4 | 19.5 | 87 | 228 | 6047 | 0.1 | FW, RE | AWB-ST-11 | 0 | Road Crossing |
| Stark | ATWS-0079 | 19.4 | 19.5 | 52 | 325 | 17460 | 0.4 | FW, RE | AWB-ST-11 | 39 | Road Crossing |
| Stark | ATWS-0648 | 19.5 | 19.6 | 20 | 310 | 2771 | 0.1 | FW | A14-172 | 0 | Road Crossing |
| Stark | ATWS-0053 | 20.7 | 20.7 | 49 | 174 | 25500 | 0.6 | FW | AWB-ST-12 | 5 | Road & Wetland Crossing |
| Stark | ATWS-0054 | 20.7 | 20.7 | 74 | 76 | 6571 | 0.2 | OL | AWB-ST-12 | 47 | Road & Wetland Crossing |
| Stark | ATWS-1165 | 24.7 | 24.7 | 70 | 150 | 23323 | 0.5 | AG | A14-167 | 9 | Wetland Crossing |
| Stark | ATWS-1166 | 24.7 | 24.8 | 45 | 308 | 28249 | 0.6 | AG | A14-167 | 6 | Wetland Crossing |
| Stark | ATWS-0070 | 25.8 | 26.0 | 70 | 550 | 4646 | 0.1 | AG, FW | A14-100 | 13 | Wetland Crossing |
| Stark | ATWS-1169 | 26.0 | 26.1 | 25 | 252 | 10526 | 0.2 | AG | A14-100 | 13 | Wetland Crossing |
| Stark | ATWS-1168 | 26.1 | 26.2 | 25 | 411 | 12673 | 0.3 | AG | A14-101 | 15 | Wetland Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Stark | ATWS-0549 | 26.4 | 26.4 | 45 | 250 | 33267 | 0.8 | FW | A14-98 | 49 | Wetland Crossing |
| Stark | ATWS-1175 | 26.7 | 26.9 | 25 | 1040 | 5553 | 0.1 | AG | A14-36 | 37 | Road Crossing |
| Stark | ATWS-0735 | 27.3 | 27.3 | 50 | 247 | 11192 | 0.3 | FW | AWB-ST-13/A14-34 | 48 | Railroad & Wetland Crossing |
| Stark | ATWS-1176 | 28.0 | 28.1 | 25 | 941 | 4552 | 0.1 | AG | AWB-ST-29 | 24 | Wetland Crossing |
| Stark | ATWS-0086 | 28.5 | 28.6 | 91 | 111 | 16946 | 0.4 | FW | AWB-ST-14 | 0 | Road Crossing |
| Stark | ATWS-1179 | 28.6 | 28.6 | 50 | 169 | 4292 | 0.1 | AG | AWB-ST-14 | 28 | Road Crossing |
| Stark | ATWS-0739 | 28.9 | 29.0 | 70 | 476 | 3122 | 0.1 | AG | AWB-ST-18 | 39 | Wetland Crossing |
| Stark | ATWS-1183 | 29.3 | 29.4 | 75 | 376 | 19078 | 0.4 | AG | AWB-ST-26 | 18 | Wetland Crossing |
| Stark | ATWS-0090 | 31.1 | 31.2 | 20 | 346 | 20770 | 0.5 | AG | A14-164 | 47 | Road Crossing |
| Stark | ATWS-0605 | 31.2 | 31.2 | 74 | 76 | 12885 | 0.3 | AG | A14-164 | 47 | Road Crossing |
| Stark | ATWS-1384 | 31.3 | 31.3 | 70 | 288 | 8225 | 0.2 | AG | A14-164 | 12 | Wetland & Road Crossing |
| Stark | ATWS-0740 | 31.3 | 31.4 | 70 | 208 | 68242 | 1.6 | AG | A14-164 | 12 | Wetland Crossing |
| Stark | ATWS-1385 | 31.4 | 31.6 | 25 | 1331 | 6792 | 0.2 | AG | A14-164 | 31 | Wetland Crossing |
| Summit | ATWS-0741 | 32.6 | 32.7 | 95 | 726 | 15219 | 0.3 | AG | AWB-ST-23 | 0 | Railroad & Wetland Crossing |
| Summit | ATWS-0091 | 32.7 | 32.8 | 99 | 495 | 28317 | 0.7 | OL | AWB-ST-23/AWB-SU-1 | 0 | Road & Wetland Crossing |
| Summit | ATWS-0092 | 32.8 | 32.9 | 97 | 195 | 4853 | 0.1 | FW, OL | AWB-SU-1 | 0 | Road & Wetland Crossing |
| Summit | ATWS-1397 | 33.3 | 33.4 | 71 | 168 | 27711 | 0.6 | FW | AWB-SU-2 | 35 | Road Crossing |
| Summit | ATWS-1997 | 34.3 | 34.4 | 25 | 388 | 122443 | 2.8 | OL, RE | AWB-SU-5 | 11 | Constructability |
| Summit | ATWS-1996 | 34.4 | 34.5 | 25 | 457 | 5216 | 0.1 | OL, RE | AWB-SU-5 | 22 | Constructability |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Summit | ATWS-1995 | 34.5 | 34.5 | 50 | 247 | 52507 | 1.2 | OL, RE | AWB-SU-6 | 11 | Constructability |
| Summit | ATWS-1383 | 35.4 | 35.5 | 100 | 201 | 24144 | 0.6 | OL | AWB-SU-43 | 48 | Wetland Crossing |
| Summit | ATWS-0099 | 37.5 | 37.5 | 45 | 74 | 16407 | 0.4 | RE, FW, OL | A14-112 | 0 | Road & Wetland Crossing |
| Summit | ATWS-0743 | 37.5 | 37.5 | 70 | 184 | 5146 | 0.1 | FW | A14-112 | 14 | Road Crossing |
| Summit | ATWS-0100 | 37.6 | 37.7 | 70 | 257 | 13598 | 0.3 | FW, RE | A14-112 | 37 | Wetland Crossing |
| Summit | ATWS-2089 | 38.0 | 38.0 | 50 | 233 | 8109 | 0.2 | FW, RE | AWB-SU-13 | 12 | Wetland & Road Crossing |
| Summit | ATWS-0101 | 38.0 | 38.0 | 49 | 114 | 10699 | 0.2 | FW, RE | AWB-SU-13 | 4 | Road & Wetland Crossing |
| Summit | ATWS-1991 | 38.3 | 38.3 | 50 | 80 | 4947 | 0.1 | AG | AWB-SU-13 | 17 | Forested Crossing |
| Summit | ATWS-2091 | 38.4 | 38.5 | 25 | 518 | 23718 | 0.5 | AG | A14-121 | 18 | Constructability |
| Summit | ATWS-0744 | 39.9 | 40.0 | 20 | 237 | 10140 | 0.2 | AG | A14-122 | 49 | Wetland Crossing |
| Summit | ATWS-1407 | 41.7 | 41.8 | 70 | 300 | 3972 | 0.1 | FW | AWB-SU-22 | 45 | Wetland Crossing |
| Summit | ATWS-1408 | 41.9 | 41.9 | 70 | 222 | 12614 | 0.3 | AG | AWB-SU-21 | 43 | Wetland Crossing |
| Summit | ATWS-0116 | 43.1 | 43.2 | 75 | 206 | 7767 | 0.2 | FW, RE | AWB-SU-24 | 37 | Wetland Crossing |
| Summit | ATWS-1986 | 43.3 | 43.3 | 25 | 111 | 26512 | 0.6 | OL | B14-1 | 0 | Constructability |
| Summit | ATWS-1985 | 43.3 | 43.4 | 45 | 278 | 27935 | 0.6 | OL | B14-1 | 0 | Wetland & Road Crossing |
| Summit | ATWS-0117 | 43.4 | 43.4 | 75 | 159 | 18104 | 0.4 | OL, RE | B14-1 | 38 | Road & Wetland Crossing |
| Summit | ATWS-1409 | 43.5 | 43.6 | 70 | 246 | 2625 | 0.1 | FW | AWB-SU-26/AWB-SU-27 | 15 | Wetland Crossing |
| Summit | ATWS-0579 | 43.6 | 43.7 | 20 | 308 | 68953 | 1.6 | FW | AWB-SU-27 | 35 | Wetland Crossing |
| Summit | ATWS-0119 | 44.1 | 44.1 | 75 | 168 | 17963 | 0.4 | FW, RE | AWB-SU-30 | 0 | Road & Wetland Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Summit | ATWS-0121 | 44.8 | 44.8 | 76 | 151 | 4373 | 0.1 | FW, AG | AWB-SU-34 | 10 | Road & Wetland Crossing |
| Summit | ATWS-2065 | 46.0 | 46.0 | 75 | 125 | 9956 | 0.2 | AG | AWB-SU-36 | 10 | Stream Crossing |
| Summit | ATWS-0581 | 46.5 | 46.5 | 20 | 174 | 49141 | 1.1 | AG | AWB-SU-39 | 11 | Wetland Crossing |
| Summit | ATWS-0125 | 46.7 | 46.7 | 75 | 181 | 4683 | 0.1 | OL, RE | AWB-SU-40 | 43 | Road & Wetland Crossing |
| Summit | ATWS-1414 | 46.8 | 46.9 | 25 | 289 | 14510 | 0.3 | AG | AWB-SU-41 | 44 | Wetland Crossing |
| Summit | ATWS-1372 | 47.0 | 47.0 | 25 | 355 | 41865 | 1.0 | AG | AWB-SU-42 | 16 | Wetland Crossing |
| Summit | ATWS-0127 | 47.5 | 47.6 | 50 | 225 | 37948 | 0.9 | FW, RE | A14-41 | 43 | Road Crossing |
| Summit | ATWS-1374 | 47.8 | 47.8 | 25 | 125 | 35614 | 0.8 | OL | A14-42 | 31 | Wetland Crossing |
| Wayne | ATWS-1979 | 48.2 | 48.7 | 25 | 2730 | 38115 | 0.9 | AG | B14-2 | 28 | Constructability |
| Wayne | ATWS-1375 | 48.9 | 49.0 | 25 | 609 | 3291 | 0.1 | OL | AWB-WE-4 | 14 | Wetland Crossing |
| Wayne | ATWS-0582 | 49.0 | 49.0 | 20 | 257 | 18970 | 0.4 | OL | AWB-WE-4 | 12 | Wetland Crossing |
| Wayne | ATWS-1978 | 49.0 | 49.1 | 25 | 405 | 11002 | 0.3 | AG | AWB-WE-4 | 50 | Wetland Crossing |
| Wayne | ATWS-1377 | 49.4 | 49.7 | 25 | 1256 | 8452 | 0.2 | AG | AWB-WE-8 | 12 | Wetland Crossing |
| Wayne | ATWS-1415 | 49.7 | 49.7 | 22 | 73 | 5283 | 0.1 | AG | AWB-WE-8 | 27 | Road Crossing |
| Wayne | ATWS-0750 | 49.7 | 49.7 | 25 | 180 | 31411 | 0.7 | AG | AWB-WE-8 | 16 | Wetland Crossing |
| Wayne | ATWS-1417 | 50.3 | 50.4 | 25 | 44 | 9508 | 0.2 | FW | A14-124 | 38 | Wetland Crossing |
| Wayne | ATWS-0141 | 53.0 | 53.0 | 70 | 160 | 9830 | 0.2 | AG | AWB-WE-17 | 12 | Wetland Crossing |
| Wayne | ATWS-2022 | 53.2 | 53.3 | 25 | 490 | 68451 | 1.6 | AG | AWB-WE-18 | 34 | Constructability |
| Wayne | ATWS-1423 | 53.7 | 53.8 | 69 | 255 | 14875 | 0.3 | AG | AWB-WE-20 | 22 | Wetland Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Wayne | ATWS-1422 | 53.8 | 54.0 | 25 | 935 | 3735 | 0.1 | AG | AWB-WE-20 | 22 | Wetland Crossing |
| Medina | ATWS-1426 | 54.8 | 55.0 | 25 | 668 | 14701 | 0.3 | AG | AWB-ME-5 | 14 | Wetland Crossing |
| Medina | ATWS-0586 | 55.0 | 55.1 | 75 | 99 | 12025 | 0.3 | AG | AWB-ME-5 | 11 | Wetland Crossing |
| Medina | ATWS-0614 | 55.3 | 55.4 | 70 | 341 | 11610 | 0.3 | OL | B14-7 | 15 | Road Crossing |
| Medina | ATWS-1350 | 55.4 | 56.1 | 25 | 3706 | 13311 | 0.3 | AG | B14-7 | 23 | Wetland Crossing |
| Medina | ATWS-0756 | 55.5 | 55.5 | 45 | 374 | 1580 | 0.0 | AG | AWB-ME-52/B14-7 | 5 | Wetland Crossing |
| Medina | ATWS-1430 | 56.8 | 56.8 | 70 | 407 | 7021 | 0.2 | AG | AWB-ME-11 | 34 | Wetland Crossing |
| Medina | ATWS-1431 | 56.9 | 57.1 | 25 | 849 | 50589 | 1.2 | AG | AWB-ME-15/AWB-ME-14 | 44 | Wetland Crossing |
| Medina | ATWS-0155 | 59.6 | 59.6 | 75 | 92 | 13312 | 0.3 | OL | AWB-ME-91 | 1 | Road Crossing |
| Medina | ATWS-1439 | 59.6 | 59.7 | 75 | 815 | 1978 | 0.0 | AG | AWB-ME-91 | 0 | Constructability |
| Medina | ATWS-1440 | 59.8 | 59.9 | 70 | 338 | 7053 | 0.2 | AG | AWB-ME-92/AWB-ME-91 | 17 | Forested Crossing |
| Medina | ATWS-0590 | 61.5 | 61.5 | 58 | 188 | 9695 | 0.2 | AG | AWB-ME-93/A14-114 | 17 | Wetland Crossing |
| Medina | ATWS-0760 | 61.6 | 61.6 | 70 | 75 | 4481 | 0.1 | AG | A14-114 | 24 | Wetland Crossing |
| Medina | ATWS-0160 | 62.9 | 62.9 | 89 | 266 | 19917 | 0.5 | RE, OL | AWB-ME-23 | 46 | Road Crossing |
| Medina | ATWS-2019 | 62.9 | 62.9 | 69 | 274 | 16331 | 0.4 | OL | AWB-ME-23 | 48 | Road Crossing |
| Medina | ATWS-1446 | 63.3 | 63.6 | 25 | 1893 | 6147 | 0.1 | AG | A14-129 | 40 | Wetland Crossing |
| Medina | ATWS-1357 | 63.7 | 64.1 | 25 | 2056 | 46174 | 1.1 | AG | AWB-ME-25 | 47 | Wetland Crossing |
| Medina | ATWS-0165 | 64.1 | 64.1 | 50 | 110 | 16786 | 0.4 | OL, RE | AWB-ME-26 | 20 | Road & Wetland Crossing |
| Medina | ATWS-0172 | 64.8 | 64.9 | 20 | 482 | 6201 | 0.1 | RE, FW | AWB-ME-33/AWB-ME-32 | 30 | Wetland Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Medina | ATWS-2018 | 64.9 | 65.1 | 20 | 688 | 10068 | 0.2 | FW | AWB-ME-33 | 27 | Constructability |
| Medina | ATWS-1450 | 65.1 | 65.2 | 74 | 521 | 5544 | 0.1 | FW | AWB-ME-33 | 46 | Wetland Crossing |
| Medina | ATWS-1358 | 65.5 | 65.6 | 70 | 400 | 192606 | 4.4 | AG | AWB-ME-35/AWB-ME-36 | 18 | Wetland Crossing |
| Medina | ATWS-0175 | 66.0 | 66.0 | 50 | 361 | 8601 | 0.2 | RE, OL | AWB-ME-39 | 42 | Road & Wetland Crossing |
| Medina | ATWS-0281 | 66.1 | 66.1 | 125 | 192 | 23512 | 0.5 | OL | AWB-ME-39 | 40 | Railroad & Wetland Crossing |
| Medina | ATWS-1451 | 66.3 | 66.4 | 75 | 256 | 7596 | 0.2 | AG | AWB-ME-39 | 17 | Wetland Crossing |
| Medina | ATWS-1452 | 66.4 | 66.5 | 75 | 311 | 7277 | 0.2 | AG | AWB-ME-39 | 15 | Wetland Crossing |
| Medina | ATWS-1454 | 66.6 | 66.6 | 75 | 222 | 38275 | 0.9 | AG | AWB-ME-40 | 17 | Wetland Crossing |
| Medina | ATWS-1359 | 66.7 | 66.8 | 25 | 601 | 17169 | 0.4 | AG | AWB-ME-40 | 49 | Wetland Crossing |
| Medina | ATWS-1455 | 67.0 | 67.1 | 70 | 620 | 10073 | 0.2 | OL | AWB-ME-41 | 32 | Wetland Crossing |
| Medina | ATWS-1457 | 67.1 | 67.3 | 25 | 1160 | 3065 | 0.1 | AG | AWB-ME-43 | 12 | Wetland Crossing |
| Medina | ATWS-1456 | 67.3 | 67.4 | 70 | 209 | 19919 | 0.5 | AG | AWB-ME-43/AWB-ME-44 | 20 | Wetland Crossing |
| Medina | ATWS-1458 | 67.5 | 67.7 | 25 | 1356 | 6112 | 0.1 | AG | AWB-ME-44/AWB-ME-45 | 42 | Wetland Crossing |
| Medina | ATWS-1973 | 67.8 | 67.8 | 74 | 177 | 8061 | 0.2 | AG | AWB-ME-45 | 0 | Wetland Crossing |
| Medina | ATWS-2016 | 67.8 | 67.8 | 80 | 293 | 34834 | 0.8 | AG | AWB-ME-45 | 36 | Road Crossing |
| Medina | ATWS-1360 | 67.9 | 68.1 | 25 | 1130 | 36400 | 0.8 | AG | AWB-ME-48 | 29 | Wetland Crossing |
| Medina | ATWS-0181 | 69.4 | 69.5 | 50 | 255 | 10500 | 0.2 | FW | A14-48 | 40 | Road Crossing |
| Medina | ATWS-0180 | 69.5 | 69.6 | 39 | 270 | 5654 | 0.1 | AG | AWB-ME-51 | 25 | Road & Wetland Crossing |
| Medina | ATWS-0183 | 69.8 | 69.8 | 50 | 111 | 13840 | 0.3 | OL | AWB-ME-52 | 43 | Railroad & Wetland Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Medina | ATWS-0763 | 69.8 | 69.8 | 50 | 92 | 1093 | 0.0 | FW | AWB-ME-52 | 25 | Railroad & Wetland Crossing |
| Medina | ATWS-1463 | 70.8 | 70.9 | 25 | 172 | 52525 | 1.2 | AG | AWB-ME-58 | 13 | Wetland Crossing |
| Medina | ATWS-1464 | 70.9 | 71.0 | 70 | 272 | 7396 | 0.2 | FW | AWB-ME-58 | 39 | Wetland Crossing |
| Medina | ATWS-0194 | 74.7 | 74.7 | 57 | 176 | 38384 | 0.9 | AG | AWB-ME-90 | 14 | Road Crossing |
| Medina | ATWS-1478 | 74.8 | 74.8 | 25 | 259 | 11475 | 0.3 | AG | AWB-ME-90 | 17 | Road Crossing |
| Medina | ATWS-1894 | 74.8 | 74.8 | 70 | 146 | 48391 | 1.1 | AG | AWB-ME-90 | 21 | Constructability |
| Medina | ATWS-1480 | 74.8 | 75.0 | 25 | 914 | 47127 | 1.1 | AG | AWB-ME-95 | 15 | Road Crossing |
| Medina | ATWS-1481 | 75.0 | 75.1 | 70 | 184 | 12316 | 0.3 | AG | AWB-ME-95 | 18 | Road Crossing |
| Medina | ATWS-2013 | 76.1 | 76.2 | 25 | 829 | 19932 | 0.5 | AG | AWB-ME-99 | 11 | Forested Crossing |
| Medina | ATWS-1487 | 76.2 | 76.3 | 25 | 458 | 106835 | 2.5 | AG | AWB-ME-99 | 10 | Forested Crossing |
| Medina | ATWS-2164 | 77.1 | 77.1 | 25 | 111 | 5491 | 0.1 | AG | AWB-LO-1 | 20 | Wetland Crossing |
| Lorain | ATWS-0199 | 78.2 | 78.3 | 70 | 461 | 6257 | 0.1 | FW | A14-58 | 38 | Wetland Crossing |
| Lorain | ATWS-1336 | 78.3 | 78.7 | 25 | 1802 | 52909 | 1.2 | AG | A14-59 | 10 | Wetland Crossing |
| Lorain | ATWS-1337 | 78.7 | 79.1 | 25 | 2135 | 12290 | 0.3 | AG | AWB-LO-38 | 13 | Wetland & Road Crossing |
| Lorain | ATWS-0200 | 79.2 | 79.2 | 66 | 214 | 10265 | 0.2 | AG | AWB-LO-38 | 19 | Road & Wetland Crossing |
| Lorain | ATWS-0593 | 79.3 | 79.4 | 43 | 121 | 11417 | 0.3 | FW | A14-63 | 48 | Road Crossing |
| Lorain | ATWS-0595 | 79.5 | 79.6 | 70 | 296 | 12350 | 0.3 | AG | A14-63 | 10 | Wetland Crossing |
| Lorain | ATWS-0288 | 79.7 | 79.7 | 70 | 196 | 10086 | 0.2 | AG | A14-63 | 10 | Wetland Crossing |
| Lorain | ATWS-1338 | 79.9 | 80.0 | 25 | 588 | 13726 | 0.3 | AG | AWB-LO-8 | 25 | Forested Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Lorain | ATWS-0770 | 79.9 | 80.0 | 20 | 305 | 11180 | 0.3 | FW, AG | AWB-LO-8 | 17 | Wetland Crossing |
| Lorain | ATWS-0771 | 80.2 | 80.3 | 19 | 173 | 12258 | 0.3 | OL | A14-67 | 23 | Wetland Crossing |
| Lorain | ATWS-1496 | 82.5 | 82.5 | 20 | 217 | 26950 | 0.6 | AG | AWB-LO-10 | 25 | Wetland & Road Crossing |
| Lorain | ATWS-1498 | 82.6 | 82.6 | 110 | 299 | 58001 | 1.3 | AG | AWB-LO-10 | 28 | Wetland & Road Crossing |
| Lorain | ATWS-0772 | 83.5 | 83.5 | 114 | 440 | 17620 | 0.4 | AG | A14-52 | 0 | Wetland Crossing |
| Lorain | ATWS-2025 | 83.5 | 83.5 | 25 | 79 | 11333 | 0.3 | AG | A14-52 | 0 | Road Crossing |
| Lorain | ATWS-0290 | 85.4 | 85.5 | 70 | 758 | 8443 | 0.2 | AG | A14-73 | 35 | Wetland Crossing |
| Lorain | ATWS-0774 | 87.5 | 87.6 | 70 | 176 | 23386 | 0.5 | AG | AWB-LO-15 | 25 | Wetland Crossing |
| Lorain | ATWS-1508 | 87.6 | 87.7 | 25 | 549 | 38886 | 0.9 | AG | AWB-LO-15 | 11 | Wetland Crossing |
| Lorain | ATWS-1297 | 87.7 | 87.8 | 25 | 532 | 6094 | 0.1 | AG | AWB-LO-15 | 41 | Wetland Crossing |
| Lorain | ATWS-1510 | 88.0 | 88.3 | 25 | 1855 | 32888 | 0.8 | AG | A14-53 | 46 | Forested Crossing |
| Lorain | ATWS-0779 | 89.0 | 89.2 | 80 | 2396 | 16704 | 0.4 | AG | AWB-LO-22 | 0 | Road Crossing |
| Lorain | ATWS-1514 | 90.1 | 90.2 | 25 | 687 | 42019 | 1.0 | AG | A14-77 | 22 | Road Crossing |
| Lorain | ATWS-0785 | 90.7 | 90.8 | 70 | 520 | 7399 | 0.2 | FW | A14-178 | 32 | Wetland Crossing |
| Lorain | ATWS-1304 | 91.3 | 91.6 | 25 | 1675 | 3364 | 0.1 | AG | A14-179 | 15 | Wetland Crossing |
| Lorain | ATWS-1515 | 91.7 | 91.9 | 25 | 1425 | 8166 | 0.2 | AG | A14-179 | 15 | Wetland Crossing |
| Lorain | ATWS-2178 | 92.1 | 92.1 | 45 | 73 | 72559 | 1.7 | AG | A14-181 | 15 | Wetland Crossing |
| Lorain | ATWS-2176 | 92.1 | 92.2 | 25 | 338 | 20001 | 0.5 | AG | A14-182 | 3 | Wetland Crossing |
| Lorain | ATWS-0609 | 92.6 | 92.6 | 70 | 345 | 17974 | 0.4 | AG | A14-141 | 15 | Wetland Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Lorain | ATWS-1891 | 93.2 | 93.3 | 48 | 170 | 11794 | 0.3 | FW | AWB-LO-29/A14-138 | 0 | Wetland & Road Crossing |
| Lorain | ATWS-1892 | 93.3 | 93.3 | 48 | 142 | 36558 | 0.8 | FW | AWB-LO-29/A14-138 | 0 | Wetland & Road Crossing |
| Lorain | ATWS-0221 | 93.3 | 93.4 | 70 | 396 | 11250 | 0.3 | AG | A14-138 | 14 | Wetland Crossing |
| Lorain | ATWS-1306 | 93.4 | 93.4 | 25 | 159 | 32784 | 0.8 | AG | A14-142 | 5 | Wetland Crossing |
| Lorain | ATWS-2085 | 93.4 | 93.5 | 45 | 282 | 11282 | 0.3 | AG | A14-142/A14-143 | 23 | Wetland Crossing |
| Lorain | ATWS-1305 | 93.5 | 93.5 | 37 | 71 | 4339 | 0.1 | AG | A14-143 | 15 | Road Crossing |
| Lorain | ATWS-2167 | 96.0 | 96.1 | 25 | 580 | 36927 | 0.8 | AG | A14-134 | 7 | Wetland Crossing |
| Lorain | ATWS-1311 | 96.1 | 96.2 | 25 | 211 | 49706 | 1.1 | AG | A14-134/A14-135 | 15 | Wetland Crossing |
| Lorain | ATWS-0663 | 98.1 | 98.1 | 30 | 312 | 11866 | 0.3 | FW | A14-151 | 14 | Wetland Crossing |
| Lorain | ATWS-0791 | 98.1 | 98.1 | 19 | 197 | 23952 | 0.5 | FW | A14-149 | 50 | Wetland Crossing |
| Erie | ATWS-0238 | 99.7 | 99.7 | 83 | 180 | 26008 | 0.6 | FW, AG | A14-200 | 2 | Road Crossing |
| Erie | ATWS-0239 | 99.8 | 99.8 | 74 | 198 | 12330 | 0.3 | OL | A14-198 | 39 | Road Crossing |
| Erie | ATWS-1890 | 99.8 | 99.9 | 45 | 157 | 12629 | 0.3 | OL | A14-198 | 11 | Road Crossing |
| Erie | ATWS-0914 | 100.8 | 101.1 | 51 | 1935 | 18985 | 0.4 | | AWB-ER-50/E14-33 | 0 | HDD |
| Erie | ATWS-0793 | 101.7 | 101.7 | 44 | 45 | 92635 | 2.1 | AG | AWB-ER-49 | 10 | Wetland Crossing |
| Erie | ATWS-1889 | 101.7 | 101.7 | 26 | 269 | 54796 | 1.3 | AG | AWB-ER-49 | 10 | Constructability |
| Erie | ATWS-2086 | 101.7 | 101.8 | 45 | 137 | 10876 | 0.2 | AG | AWB-ER-49 | 13 | Constructability |
| Erie | ATWS-1530 | 101.8 | 101.8 | 25 | 222 | 5906 | 0.1 | AG | AWB-ER-49 | 10 | Forested Crossing |
| Erie | ATWS-1531 | 101.8 | 101.8 | 70 | 109 | 8231 | 0.2 | AG | AWB-ER-49 | 2 | Forested Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Erie | ATWS-0708 | 101.8 | 101.9 | 62 | 118 | 3487 | 0.1 | AG | AWB-ER-49 | 29 | Road Crossing |
| Erie | ATWS-0709 | 101.9 | 102.0 | 88 | 437 | 13571 | 0.3 | OL | AWB-ER-49 | 0 | Road Crossing |
| Erie | ATWS-0794 | 102.0 | 102.0 | 45 | 224 | 16766 | 0.4 | AG | AWB-ER-48 | 12 | Road Crossing |
| Erie | ATWS-0710 | 102.0 | 102.0 | 71 | 279 | 7213 | 0.2 | AG | AWB-ER-48 | 17 | Road Crossing |
| Erie | ATWS-1533 | 102.0 | 102.1 | 25 | 123 | 3629 | 0.1 | AG | AWB-ER-48 | 12 | Road Crossing |
| Erie | ATWS-0713 | 104.0 | 104.0 | 20 | 306 | 8873 | 0.2 | FW | AWB-ER-44 | 8 | Wetland Crossing |
| Erie | ATWS-1321 | 108.4 | 108.8 | 25 | 2101 | 1976 | 0.0 | AG | A14-154 | 44 | Wetland Crossing |
| Erie | ATWS-0670 | 108.8 | 108.8 | 70 | 106 | 12584 | 0.3 | AG | A14-154 | 24 | Wetland Crossing |
| Erie | ATWS-1546 | 108.8 | 108.9 | 25 | 459 | 47249 | 1.1 | AG | A14-154 | 21 | Wetland Crossing |
| Sandusky | ATWS-0644 | 130.1 | 130.3 | 66 | 710 | 15326 | 0.4 | OL | D14-3 | 47 | Wetland Crossing |
| Sandusky | ATWS-1292 | 130.3 | 130.4 | 25 | 493 | 14690 | 0.3 | AG | D14-3 | 10 | Wetland Crossing |
| Sandusky | ATWS-0843 | 130.7 | 131.0 | 70 | 1526 | 28513 | 0.7 | AG | D14-3 | 11 | Wetland Crossing |
| Sandusky | ATWS-1962 | 132.5 | 132.5 | 70 | 385 | 11068 | 0.3 | AG | AWB-SA-1 | 9 | Wetland Crossing |
| Sandusky | ATWS-1588 | 132.6 | 133.0 | 25 | 2320 | 37180 | 0.9 | AG | AWB-SA-1 | 14 | Wetland Crossing |
| Sandusky | ATWS-0854 | 133.8 | 133.9 | 70 | 556 | 21215 | 0.5 | AG | AWB-SA-2 | 14 | Wetland Crossing |
| Sandusky | ATWS-0856 | 134.2 | 134.3 | 70 | 470 | 6922 | 0.2 | AG | D14-9 | 30 | Wetland & Road Crossing |
| Sandusky | ATWS-1243 | 134.3 | 134.7 | 25 | 1681 | 20734 | 0.5 | AG | D14-10 | 16 | Wetland Crossing |
| Sandusky | ATWS-0314 | 134.6 | 134.7 | 45 | 181 | 33339 | 0.8 | AG | D14-10 | 11 | Wetland Crossing |
| Sandusky | ATWS-0857 | 134.7 | 134.7 | 45 | 131 | 61159 | 1.4 | AG | D14-10 | 11 | Wetland Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Sandusky | ATWS-0858 | 134.7 | 134.7 | 45 | 183 | 21239 | 0.5 | AG | D14-10 | 12 | Wetland Crossing |
| Sandusky | ATWS-1598 | 138.9 | 138.9 | 25 | 145 | 33971 | 0.8 | OL | AWB-SA-72 | 13 | Wetland Crossing |
| Sandusky | ATWS-1247 | 138.9 | 139.2 | 25 | 1890 | 11453 | 0.3 | AG | AWB-SA-72 | 26 | Wetland Crossing |
| Sandusky | ATWS-0876 | 141.6 | 141.7 | 97 | 385 | 10963 | 0.3 | FW | E14-20 | 0 | Wetland Crossing |
| Sandusky | ATWS-1604 | 142.1 | 142.4 | 25 | 1359 | 8901 | 0.2 | AG | AWB-SA-8 | 42 | Forested Crossing |
| Sandusky | ATWS-0506 | 146.0 | 146.1 | 70 | 127 | 14549 | 0.3 | AG | D14-37 | 16 | Wetland Crossing |
| Sandusky | ATWS-1250 | 146.1 | 146.2 | 25 | 572 | 2763 | 0.1 | AG | D14-37 | 10 | Wetland Crossing |
| Sandusky | ATWS-1253 | 147.2 | 147.6 | 25 | 2192 | 32276 | 0.7 | AG | E14-73 | 43 | Wetland Crossing |
| Sandusky | ATWS-1661 | 148.3 | 148.4 | 70 | 180 | 14294 | 0.3 | AG | AWB-SA-9/E14-43 | 32 | Wetland Crossing |
| Sandusky | ATWS-1255 | 151.4 | 151.5 | 25 | 472 | 45043 | 1.0 | AG | AWB-SA-80/AWB-SA-81 | 16 | Forested Crossing |
| Sandusky | ATWS-1950 | 151.5 | 151.8 | 25 | 1462 | 9563 | 0.2 | AG | AWB-SA-81 | 13 | Stream Crossing |
| Sandusky | ATWS-0895 | 152.1 | 152.2 | 75 | 645 | 5250 | 0.1 | AG | AWB-SA-82 | 0 | Road Crossing |
| Sandusky | ATWS-0897 | 152.3 | 152.3 | 75 | 99 | 23587 | 0.5 | FW | D14-41 | 14 | Wetland Crossing |
| Sandusky | ATWS-1948 | 153.1 | 153.1 | 50 | 155 | 29981 | 0.7 | FW | E14-123 | 0 | Wetland & Road Crossing |
| Sandusky | ATWS-1947 | 153.1 | 153.1 | 50 | 155 | 44369 | 1.0 | AG | D14-42 | 0 | Wetland & Road Crossing |
| Sandusky | ATWS-0347 | 153.1 | 153.3 | 70 | 634 | 28234 | 0.6 | AG | D14-42 | 11 | Wetland Crossing |
| Sandusky | ATWS-0348 | 153.4 | 153.5 | 70 | 428 | 6916 | 0.2 | OL | D14-25 | 4 | Wetland Crossing |
| Sandusky | ATWS-0917 | 157.8 | 157.8 | 45 | 216 | 47334 | 1.1 | FW | AWB-SA-16 | 8 | Wetland Crossing |
| Sandusky | ATWS-1264 | 157.9 | 158.0 | 25 | 447 | 53283 | 1.2 | FW | AWB-SA-16/E14-33 | 0 | Wetland & Road Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Sandusky | ATWS-0354 | 157.9 | 158.0 | 74 | 109 | 5635 | 0.1 | OL | AWB-SA-16 | 36 | Road Crossing |
| Sandusky | ATWS-1267 | 158.5 | 158.6 | 25 | 443 | 14124 | 0.3 | AG | AWB-SA-17/E14-FW1 | 14 | Wetland Crossing |
| Sandusky | ATWS-0920 | 158.6 | 158.6 | 74 | 513 | 51397 | 1.2 | OL, RE | D14-38 | 18 | Wetland & Road Crossing |
| Wood | ATWS-0921 | 158.7 | 158.7 | 70 | 399 | 5480 | 0.1 | OL | D14-38 | 39 | Road Crossing |
| Wood | ATWS-0356 | 159.7 | 159.8 | 68 | 389 | 20157 | 0.5 | FW, RE | D14-31 | 45 | Wetland Crossing |
| Wood | ATWS-1270 | 160.5 | 160.5 | 25 | 198 | 5204 | 0.1 | AG | E14-84 | 1 | Wetland Crossing |
| Wood | ATWS-0934 | 161.2 | 161.3 | 70 | 750 | 9640 | 0.2 | FW | E14-154 | 39 | Wetland Crossing |
| Wood | ATWS-1275 | 161.3 | 161.4 | 25 | 210 | 20746 | 0.5 | FW | E14-152 | 23 | Wetland Crossing |
| Wood | ATWS-0935 | 161.6 | 161.6 | 229 | 535 | 13767 | 0.3 | AG | E14-152 | 0 | Road Crossing |
| Wood | ATWS-0936 | 161.6 | 161.6 | 57 | 348 | 38395 | 0.9 | AG | AWB-WO-15/E14-152 | 0 | Road Crossing |
| Wood | ATWS-1280 | 165.0 | 165.3 | 25 | 1393 | 13692 | 0.3 | AG | E14-52 | 28 | Wetland Crossing |
| Wood | ATWS-1922 | 165.7 | 165.8 | 25 | 403 | 7721 | 0.2 | AG | E14-41 | 10 | Wetland Crossing |
| Wood | ATWS-1920 | 165.8 | 165.9 | 25 | 653 | 7710 | 0.2 | AG | E14-41 | 3 | Wetland Crossing |
| Wood | ATWS-1916 | 169.4 | 169.9 | 25 | 2738 | 7448 | 0.2 | FW, OL | E14-115 | 32 | Wetland & Road Crossing |
| Lucas | ATWS-0675 | 178.0 | 178.0 | 75 | 152 | 11395 | 0.3 | AG | AWB-LU-14 | 33 | Road Crossing |
| Lucas | ATWS-0676 | 178.0 | 178.0 | 50 | 199 | 9375 | 0.2 | AG | AWB-LU-14 | 30 | Road Crossing |
| Lucas | ATWS-1189 | 182.6 | 182.7 | 25 | 625 | 10066 | 0.2 | AG | AWB-LU-19 | 16 | Road Crossing |
| Henry | ATWS-1071 | 184.0 | 184.1 | 45 | 251 | 24086 | 0.6 | AG | AWB-HE-1 | 19 | Road Crossing |
| Fulton | ATWS-0981 | 184.9 | 184.9 | 60 | 181 | 28014 | 0.6 | OL | AWB-HE-7 | 30 | Road Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Fulton | ATWS-1203 | 187.9 | 188.0 | 25 | 324 | 6477 | 0.1 | AG | AWB-FU-70 | 17 | Forested Crossing |
| Fulton | ATWS-1208 | 191.1 | 191.2 | 25 | 949 | 22845 | 0.5 | AG | AWB-FU-64 | 11 | Forested Crossing |
| Fulton | ATWS-1206 | 191.3 | 191.3 | 25 | 220 | 10203 | 0.2 | AG | AWB-FU-64 | 12 | Forested Crossing |
| Fulton | ATWS-1035 | 193.7 | 193.8 | 92 | 403 | 18055 | 0.4 | AG | AWB-FU-69 | 42 | Road Crossing |
| Fulton | ATWS-1083 | 193.7 | 193.8 | 50 | 400 | 19185 | 0.4 | AG | AWB-FU-69 | 40 | Road Crossing |
| Fulton | ATWS-1229 | 201.8 | 202.3 | 25 | 2902 | 12909 | 0.3 | AG | E14-13 | 40 | Wetland Crossing |
| **Michigan** | | | | | | | | | | | |
| Lenawee | ATWS-1060 | 210.2 | 210.2 | 71 | 81 | 5,737 | 0.1 | AG | AWB-LE-50 | 26 | Road Crossing |
| Lenawee | ATWS-1059 | 210.2 | 210.2 | 72 | 81 | 5,820 | 0.1 | AG | AWB-LE-50 | 50 | Road Crossing |
| Lenawee | ATWS-1724 | 217.6 | 217.8 | 25 | 813 | 20,334 | 0.5 | AG | E14-170 | 10 | Wetland Crossing |
| Lenawee | ATWS-1725 | 217.9 | 218.2 | 25 | 1743 | 43,562 | 1.0 | AG | E14-170 | 10 | Wetland Crossing |
| Lenawee | ATWS-2043 | 220.4 | 220.4 | 70 | 280 | 19,544 | 0.4 | AG | E14-148 | 30 | Forested Crossing |
| Lenawee | ATWS-1739 | 220.5 | 220.6 | 70 | 494 | 34,634 | 0.8 | AG | E14-148 | 10 | Wetland Crossing |
| Monroe | ATWS-1773 | 224.7 | 224.8 | 25 | 216 | 5,408 | 0.1 | AG | E14-62 | 14 | Wetland Crossing |
| Monroe | ATWS-1774 | 224.8 | 225.0 | 25 | 900 | 22,504 | 0.5 | AG | E14-62 | 13 | Wetland Crossing |
| Monroe | ATWS-1817 | 230.5 | 230.5 | 72 | 351 | 25,328 | 0.6 | AG | AWB-MO-6 | 20 | Road Crossing |
| Monroe | ATWS-1818 | 230.6 | 230.6 | 107 | 194 | 20,722 | 0.5 | AG | AWB-MO-8 | 13 | Road Crossing |
| Washtenaw | ATWS-1827 | 233.5 | 233.6 | 25 | 201 | 5,019 | 0.1 | AG | E14-89 | 43 | Wetland & Road Crossing |
| Washtenaw | ATWS-1836 | 234.2 | 234.3 | 152 | 329 | 49,880 | 1.1 | AG | AWB-WA-2 | 40 | Wetland & Road Crossing |

TABLE 2.4-4

**ATWS Within 50 feet of Wetlands for the NEXUS Project Pipeline Facilities**

| State, Facility, County | ATWS ID | Milepost Begin a/ | Milepost End a/ | Nominal Dimensions b/ (feet) | | Area Affected (square feet) c/ | Area Affected (acres) c/ | Existing Land Use d/ | Feature ID | Distance from Resource Area (feet) e/ | Justification f/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | | | | | | |
| Washtenaw | ATWS-0480 | 239.4 | 239.5 | 50 | 151 | 7,547 | 0.2 | OL, RE | AWB-WA-4 | 12 | Road & Wetland Crossing |
| Washtenaw | ATWS-1652 | 239.5 | 239.5 | 50 | 152 | 7,578 | 0.2 | AG | E14-167 | 14 | Wetland & Road Crossing |
| Washtenaw | ATWS-1644 | 240.3 | 240.4 | 70 | 563 | 39,401 | 0.9 | AG | E14-164 | 14 | Wetland Crossing |
| Washtenaw | ATWS-1637 | 242.3 | 242.3 | 49 | 140 | 6,880 | 0.2 | AG | AWB-WA-47 | 49 | Road Crossing |
| Washtenaw | ATWS-1621 | 245.2 | 245.2 | 80 | 3052 | 242,780 | 5.6 | FW | AWB-WA-14 | 0 | HDD pullback |
| Washtenaw | ATWS-0490 | 245.6 | 246.1 | 73 | 1552 | 8,750 | 0.2 | RE | AWB-WA-42 | 0 | Wetland Crossing |
| Washtenaw | ATWS-0497 | 248.9 | 249.0 | 75 | 560 | 41,826 | 1.0 | ID, OL | AWB-WA-18 | 0 | Wetland Crossing |

a/ Approximate milepost along the pipeline rounded to the nearest tenth.
b/ Dimensions for ATWS areas are approximate. For irregularly shaped ATWS, the approximate dimensions of two of the sides are presented.
c/ The square feet or acreage indicated represents the acreage of ATWS within 50 feet of the wetland.
d/ OL = Open Land (non-agricultural), AG = Agricultural, FW = Forested/Woodland, ID = Industrial/Commercial, RE = Residential, OW = Open Water.
e /Nearest distance from the ATWS to the wetland.
f/ Justification provided is for the portion of the ATWS within 50 feet of the wetland. Justification for the entire ATWS is presented in a separate table in RR8.

# FIGURES

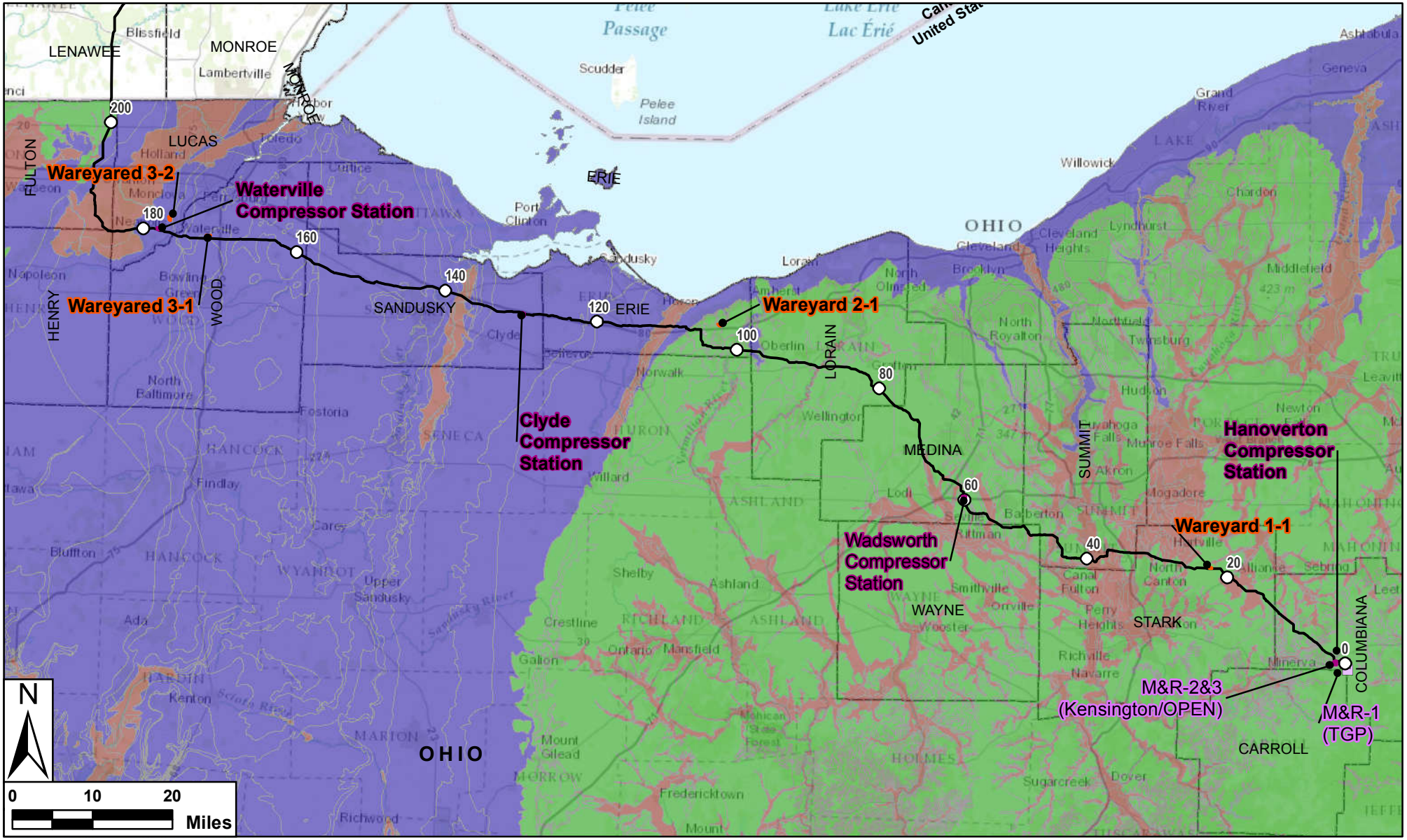


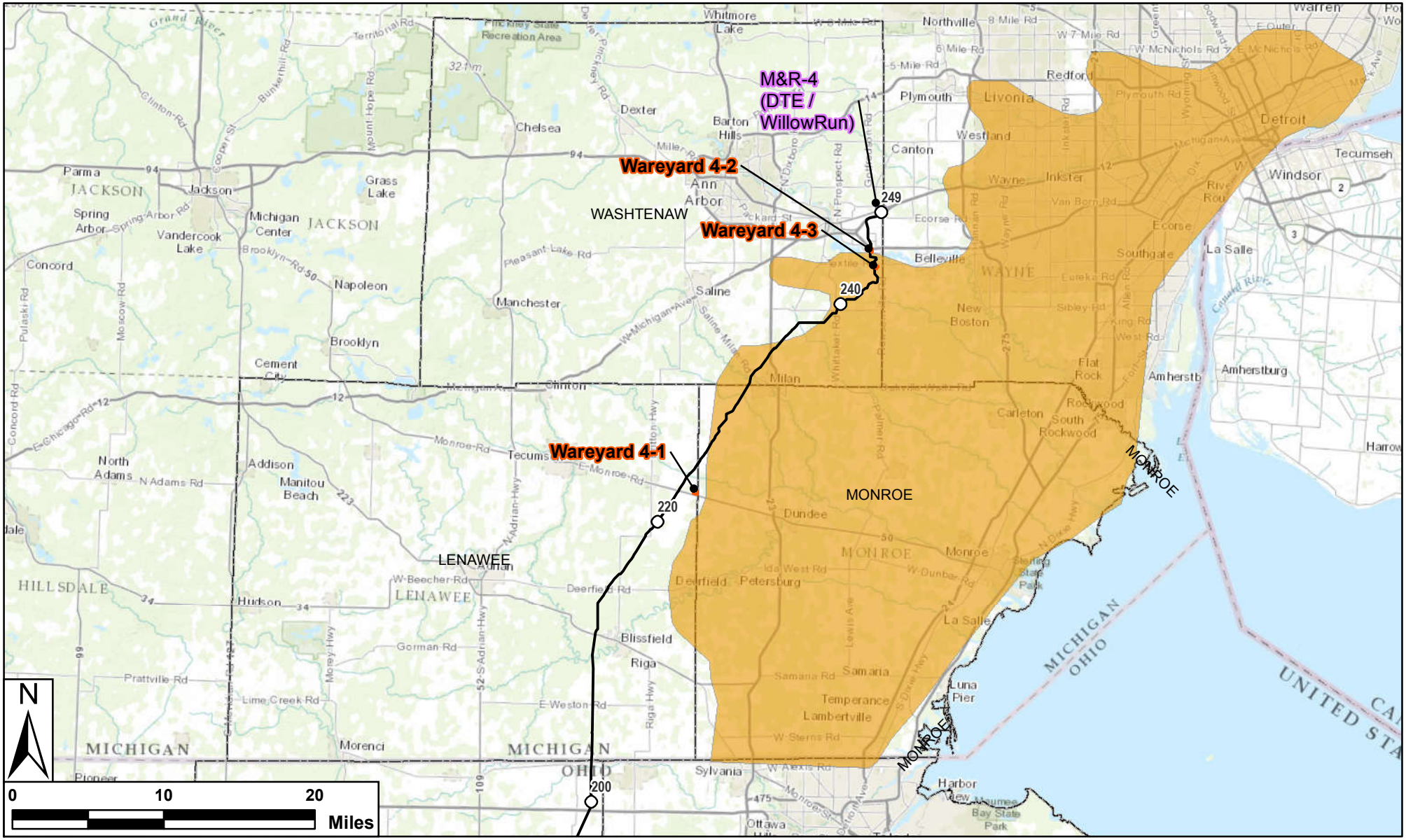

Figure 2.2-1a

**Aquifers in Ohio Crossed by Pipeline Facilities**

Ohio

NEXUS GAS TRANSMISSION

6/1/2015





**Legend**

- Milepost (20 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- Project Counties
- Wareyards
- Silurian Devonian

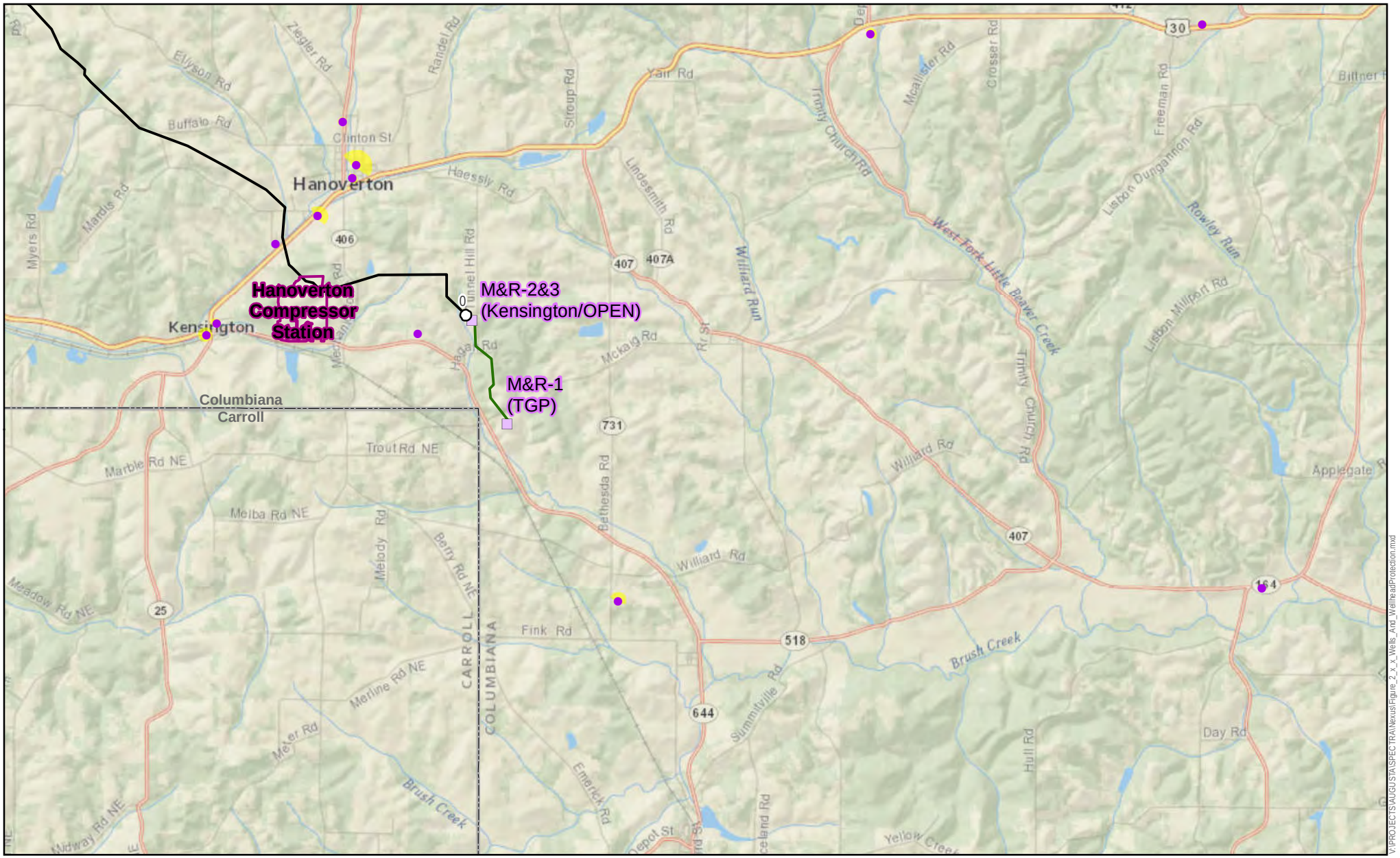
Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Sources: ESRI, TRC, MI DEQ and SPECTRA.

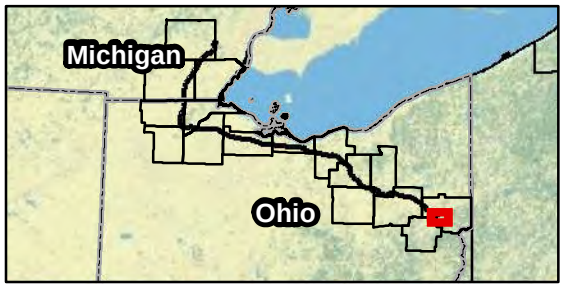
Figure 2.2-1b

**Aquifers in Michigan Crossed by Pipeline Facilities**
Michigan

NEXUS GAS TRANSMISSION

5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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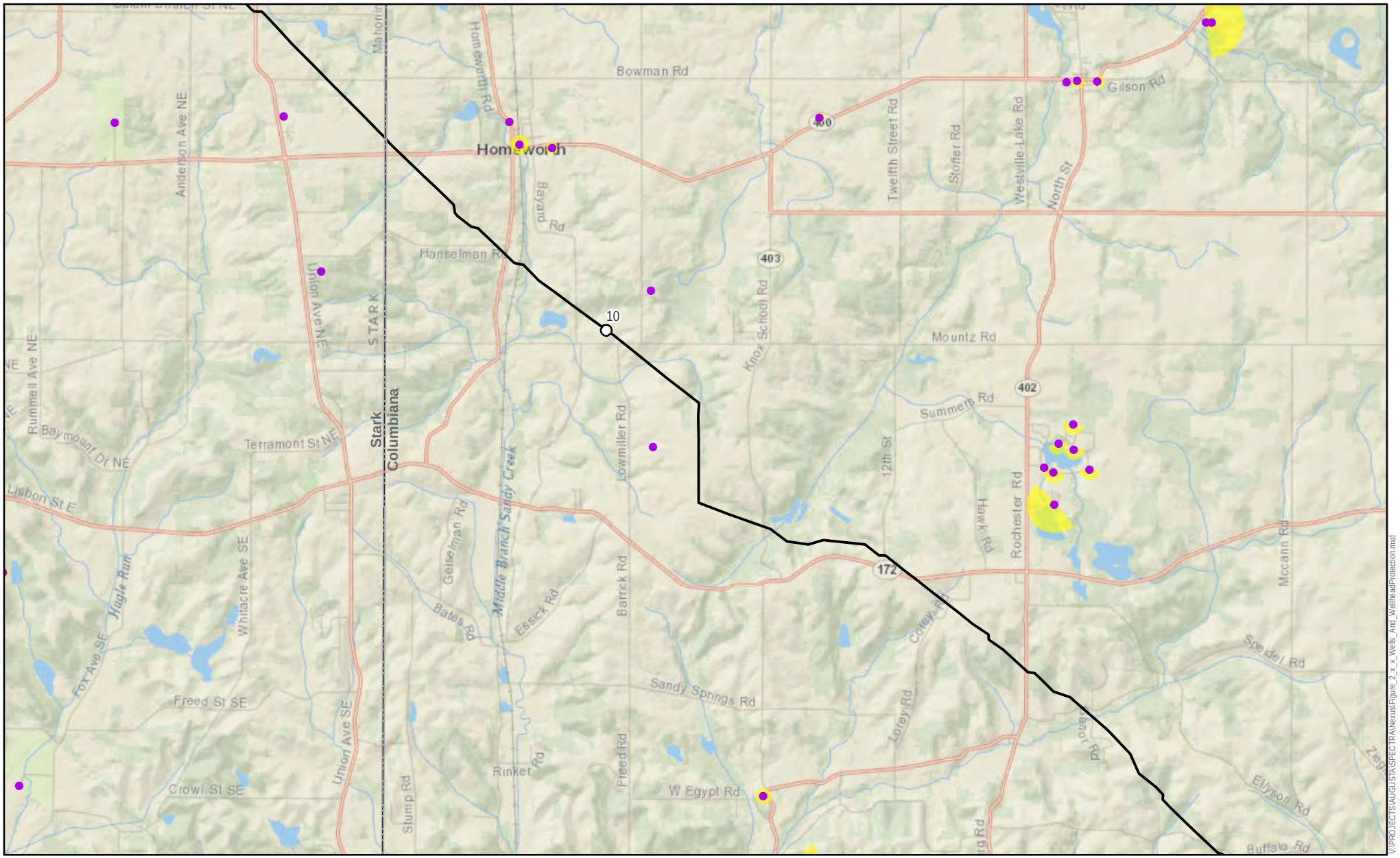
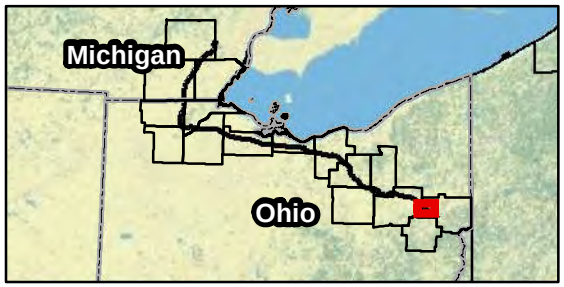
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Columbiana and Carroll Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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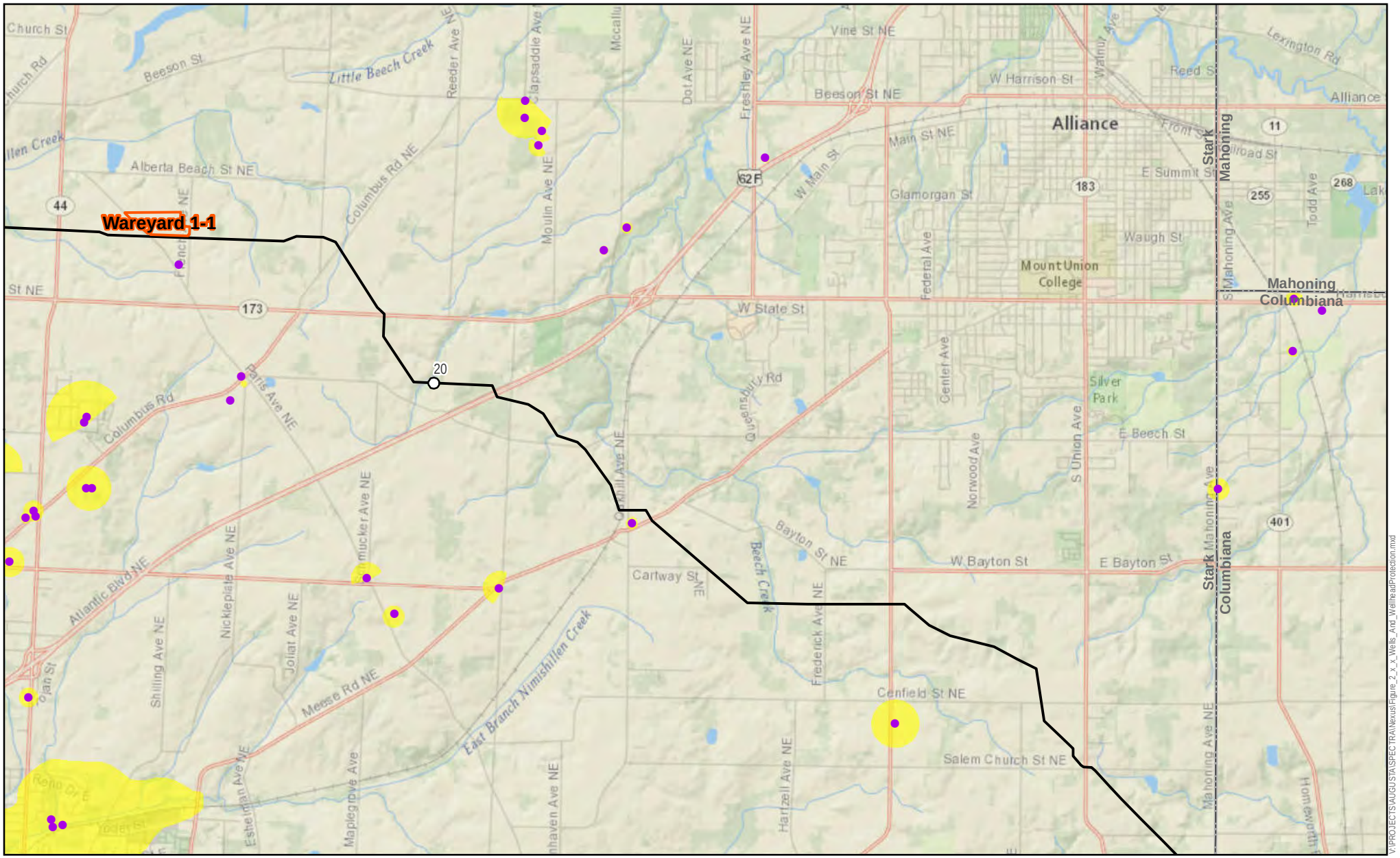
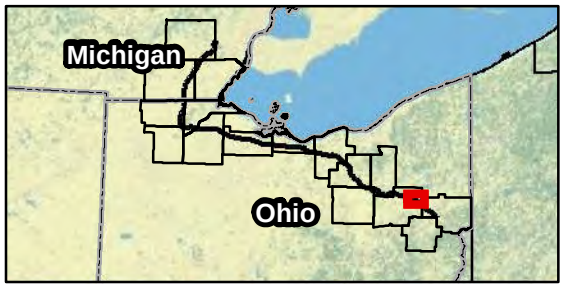
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Columbiana and Stark Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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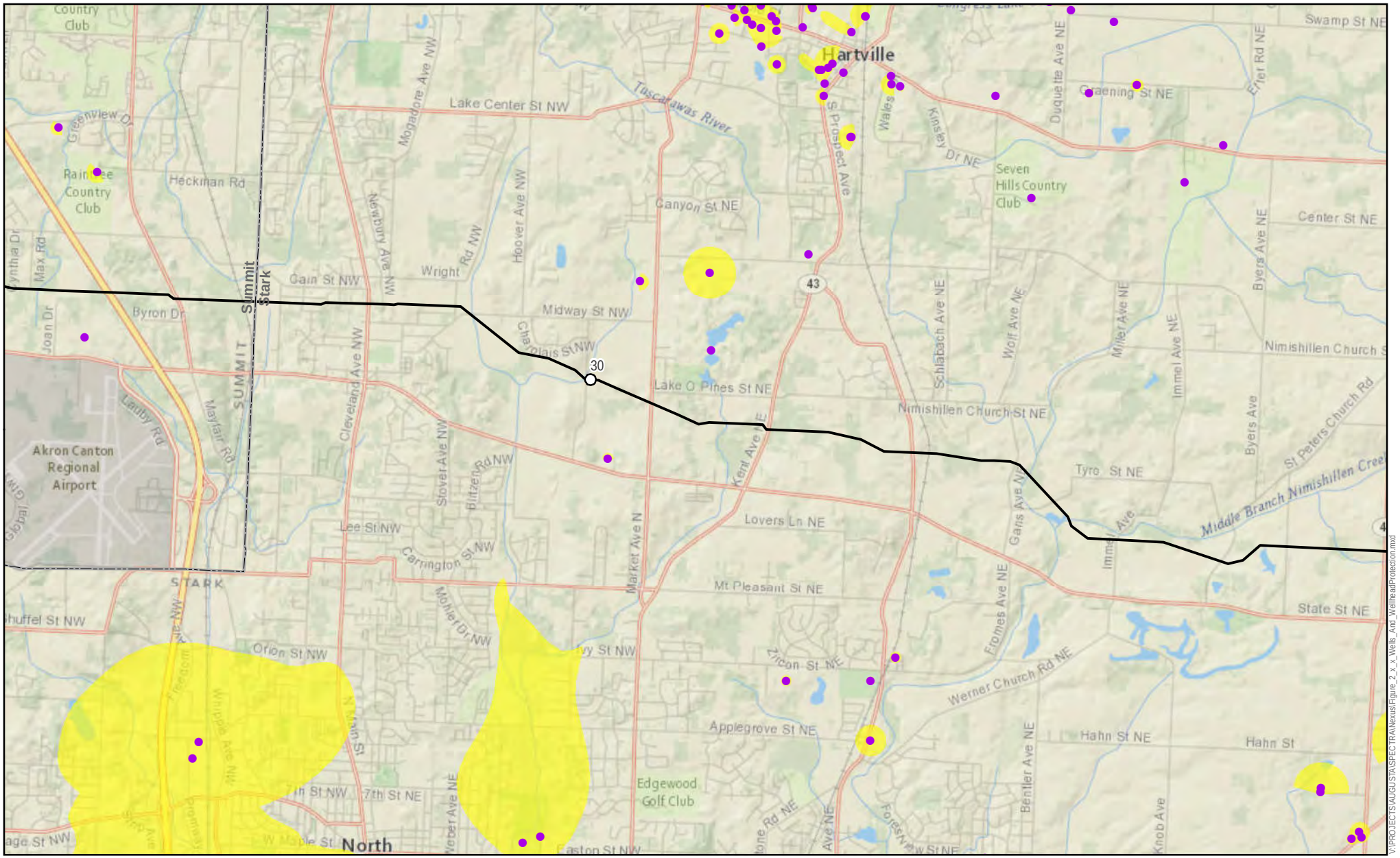
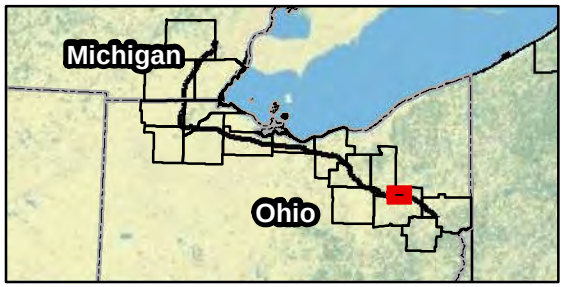
## Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Stark County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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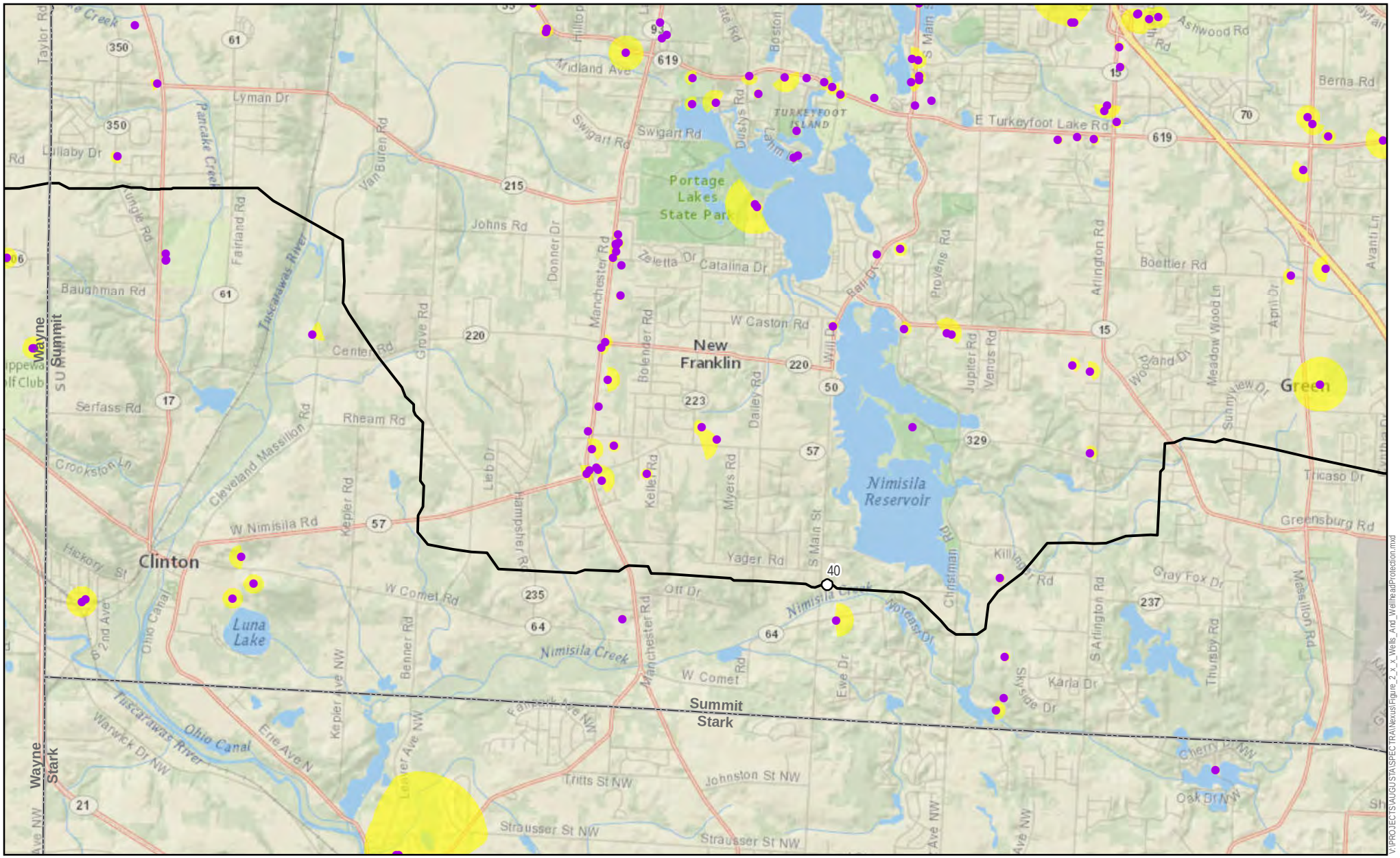
## Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Stark and Summit Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

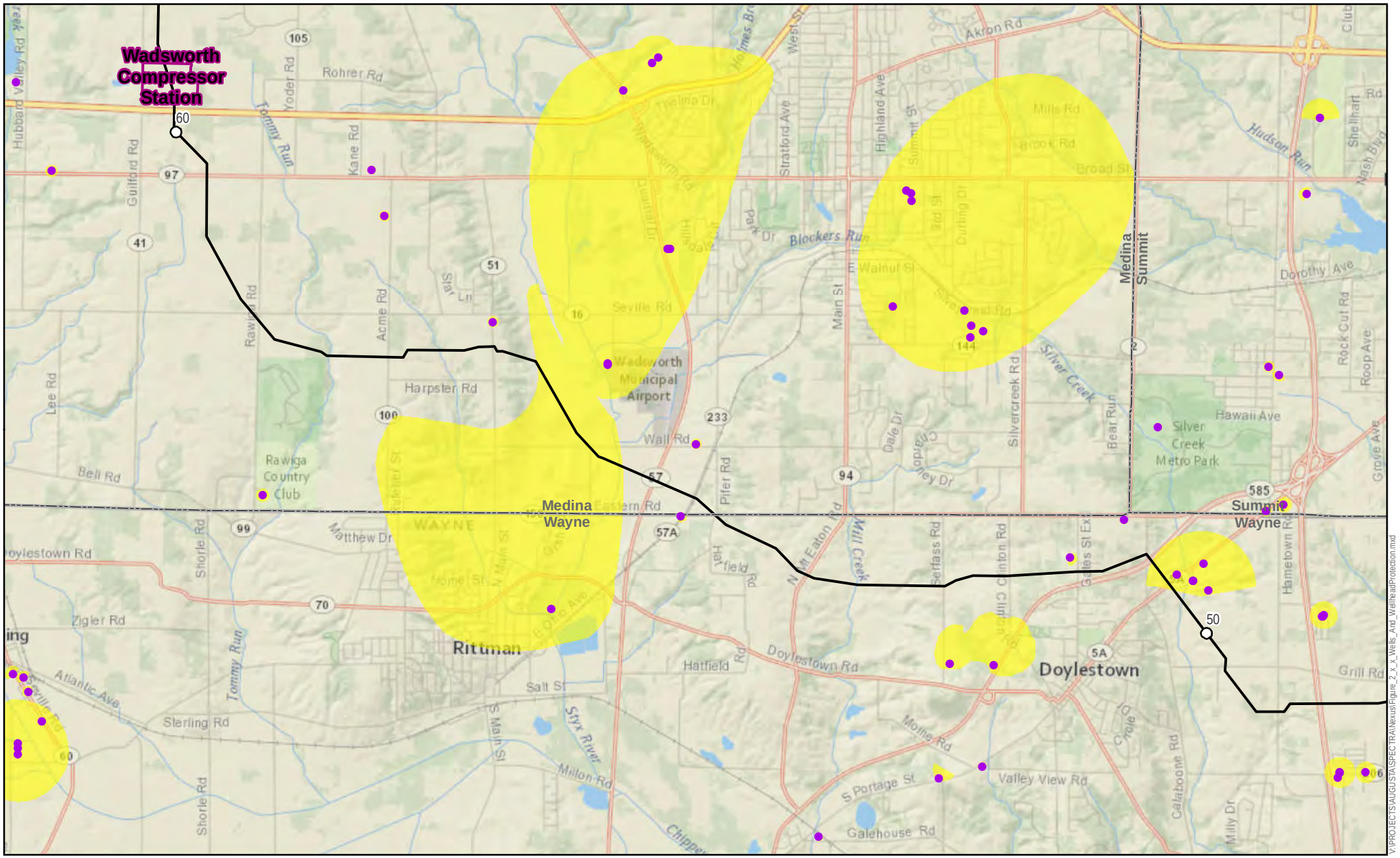



# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Summit and Wayne Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

0 1 2 Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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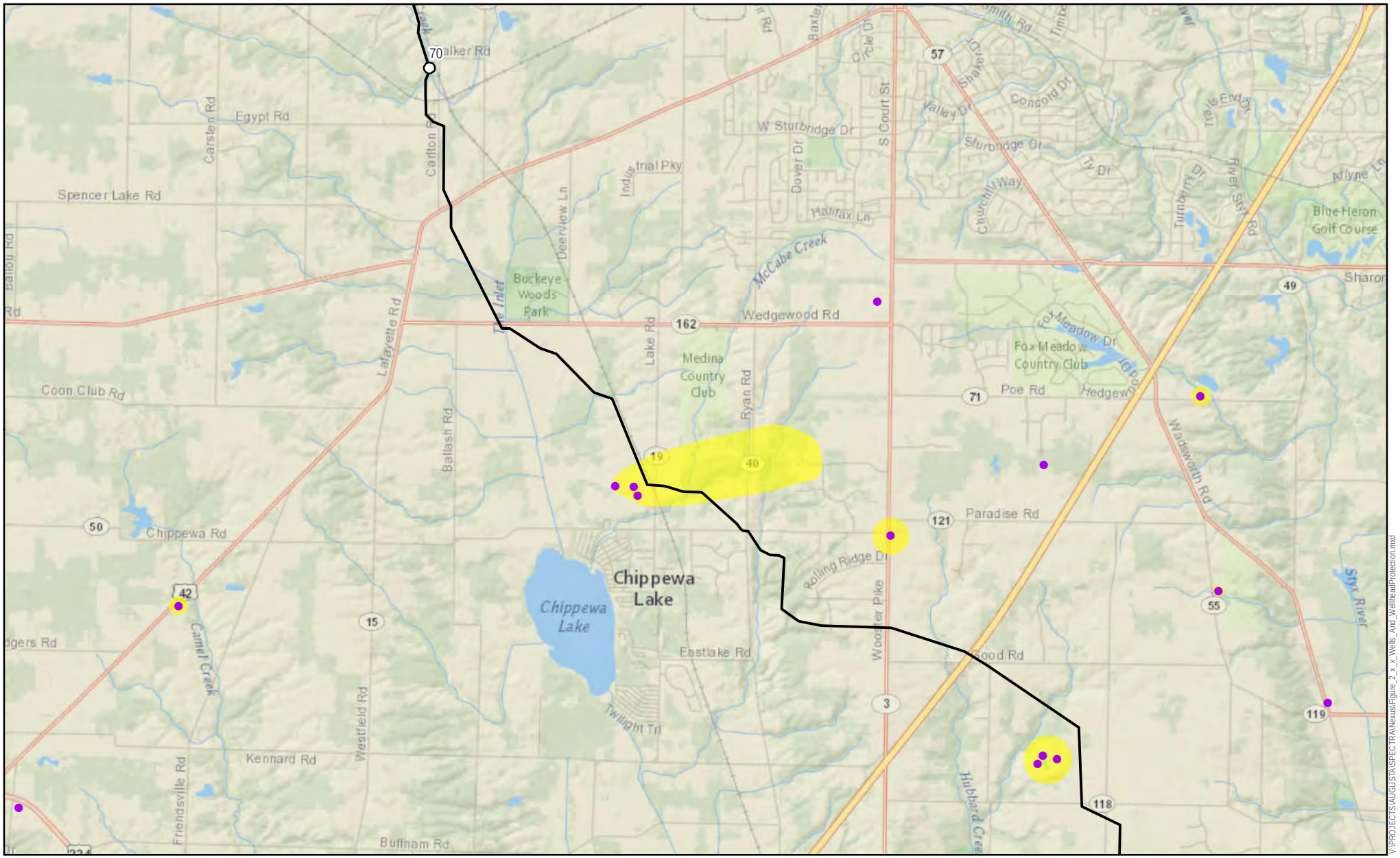
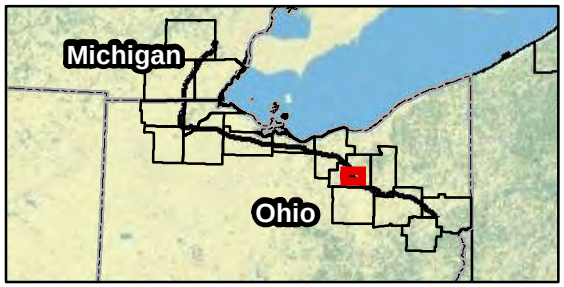
## Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Medina and Wayne Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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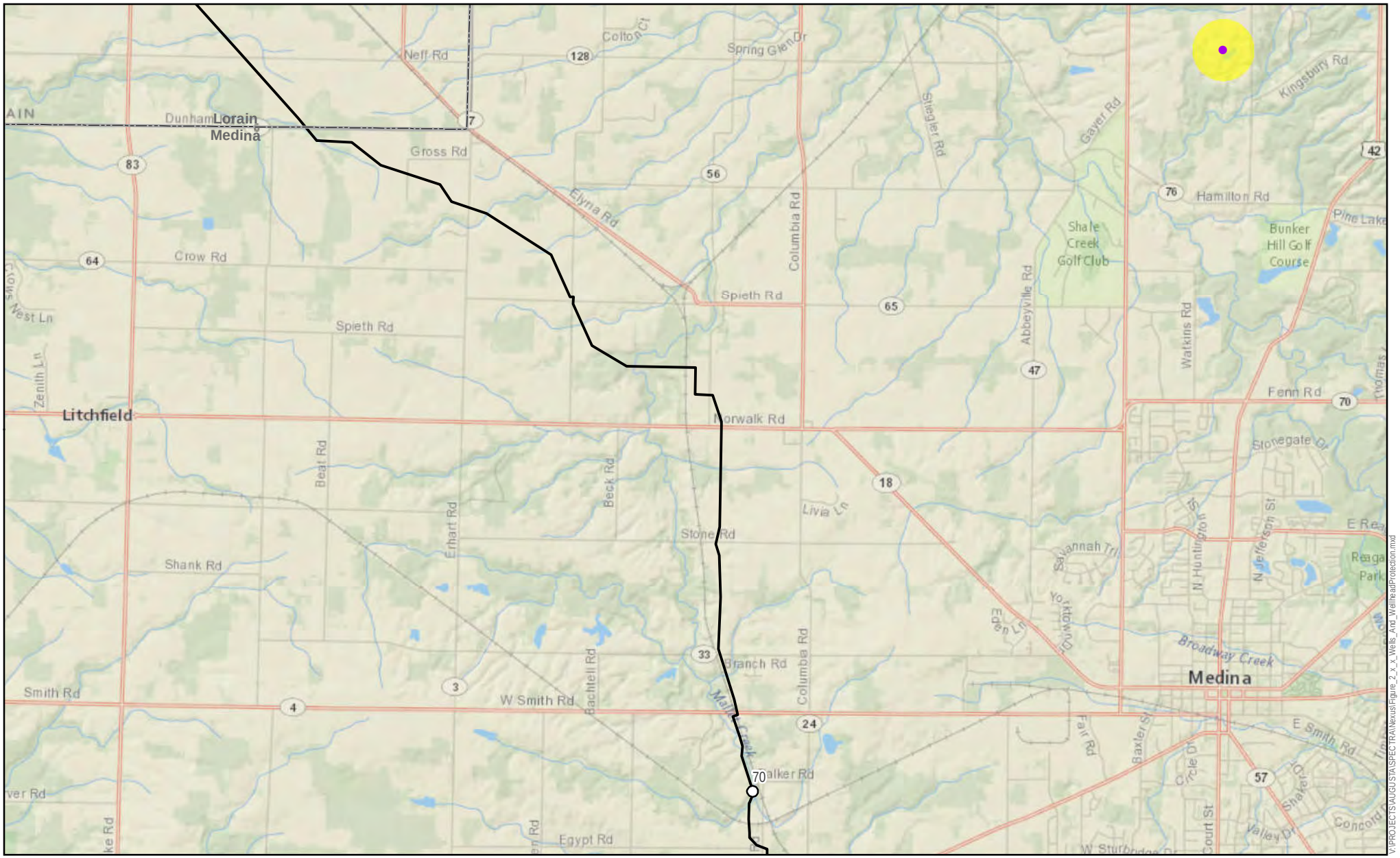
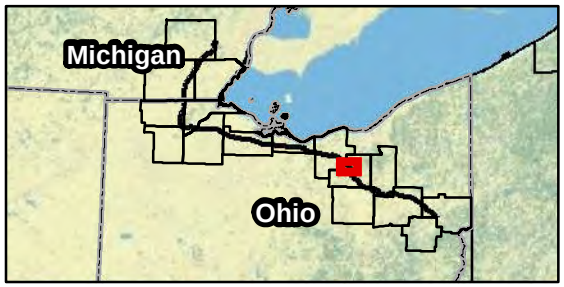
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Medina County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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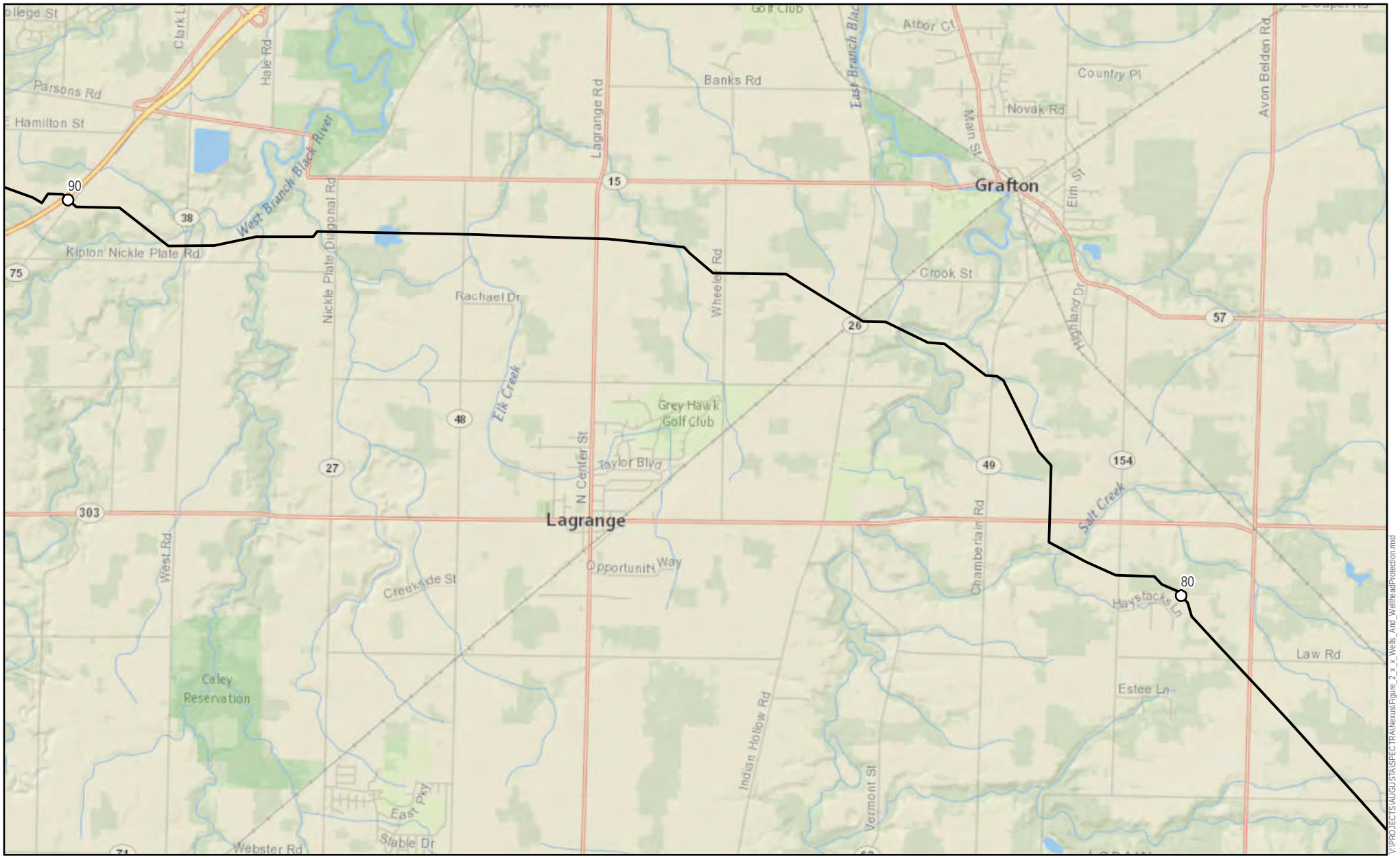
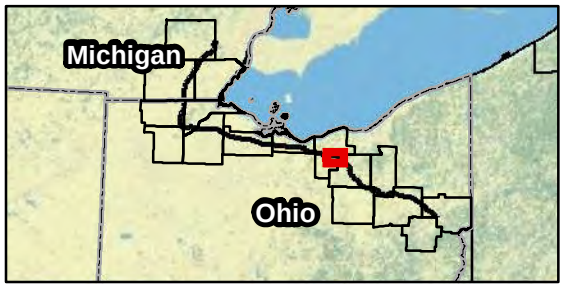
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Medina County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

0 1 2
Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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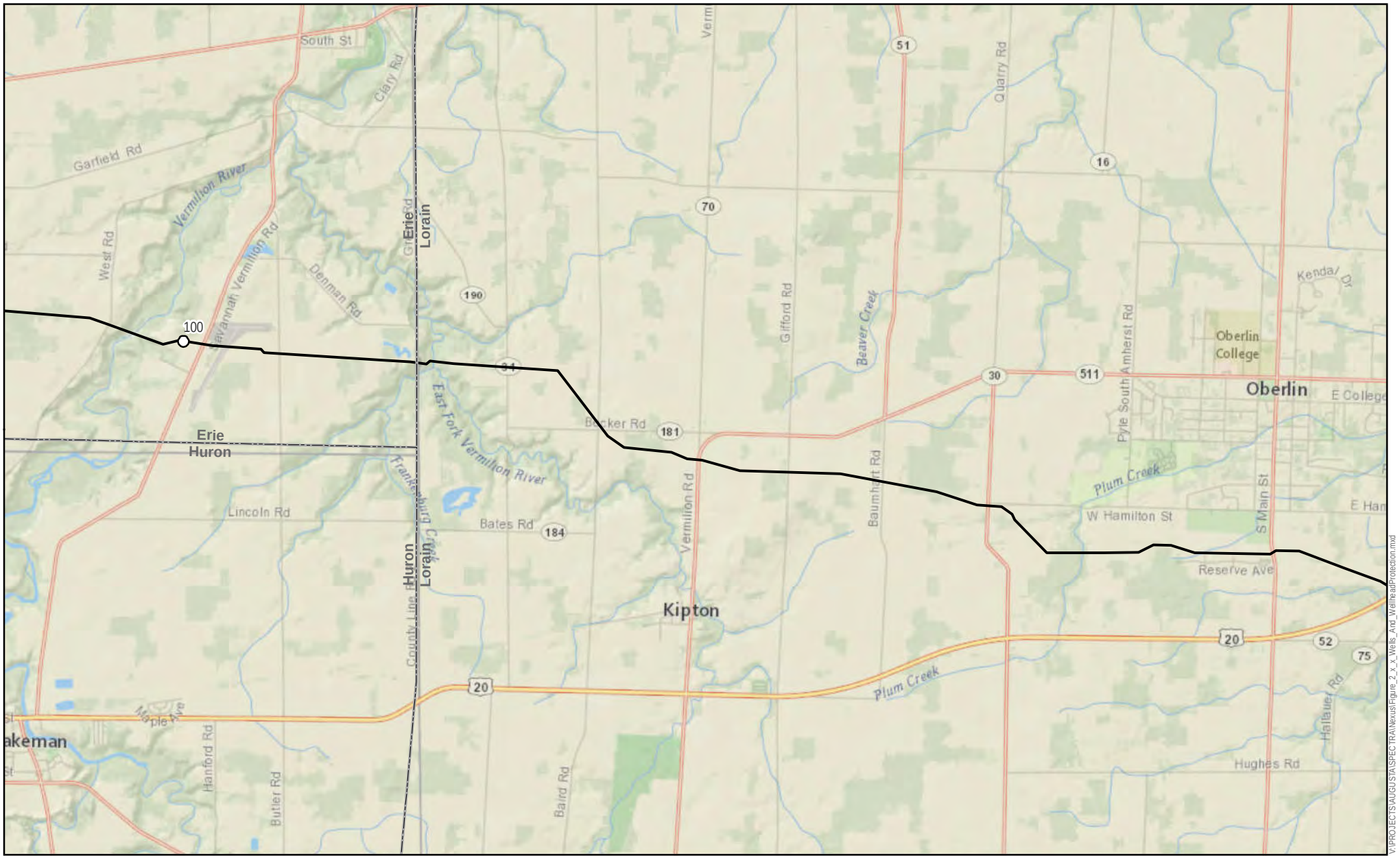
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Lorain County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015





Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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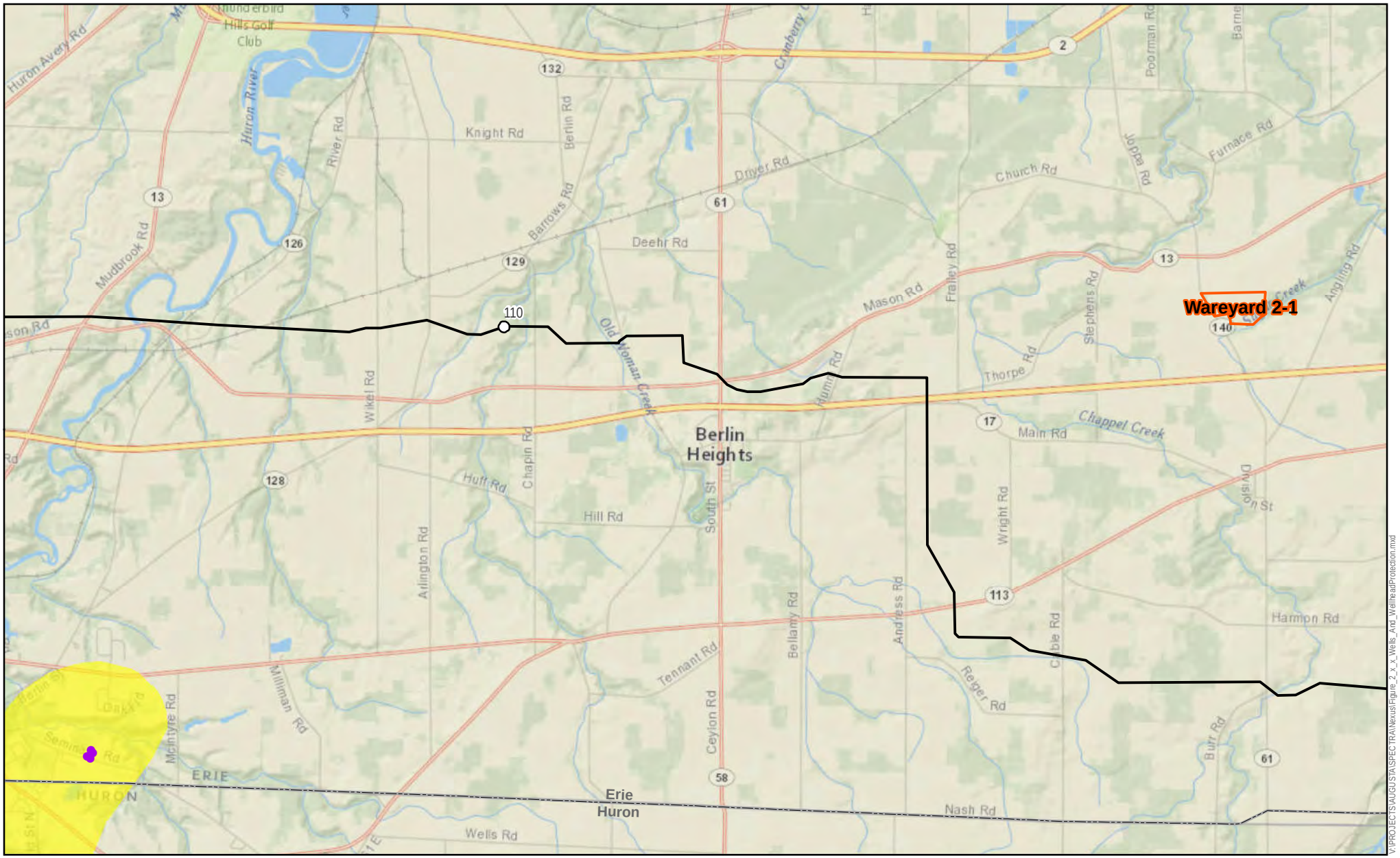
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Lorain and Erie Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015





Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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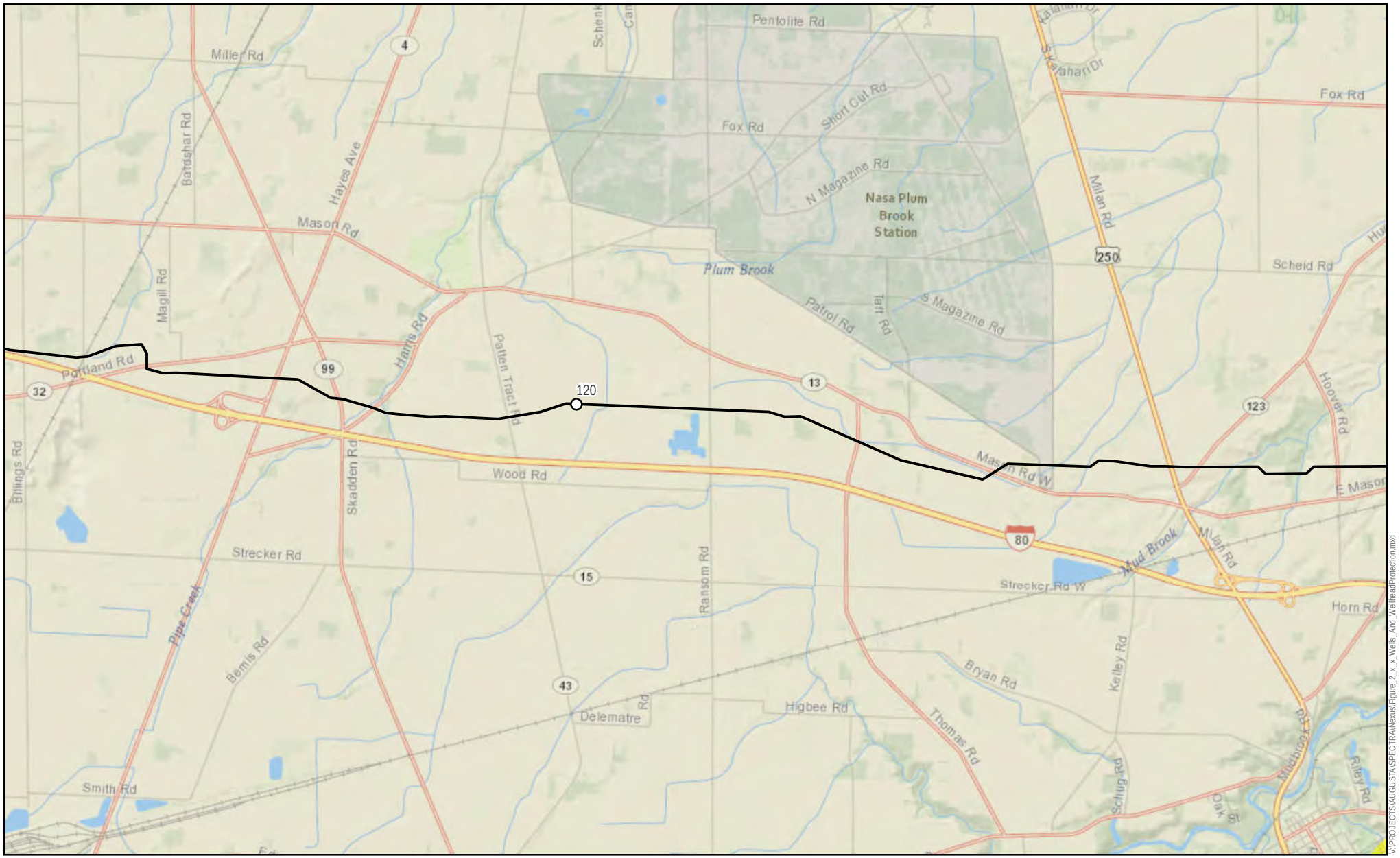
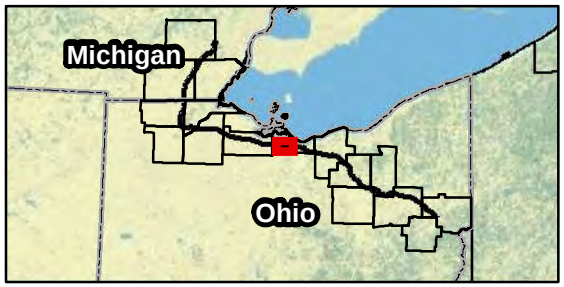
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Erie County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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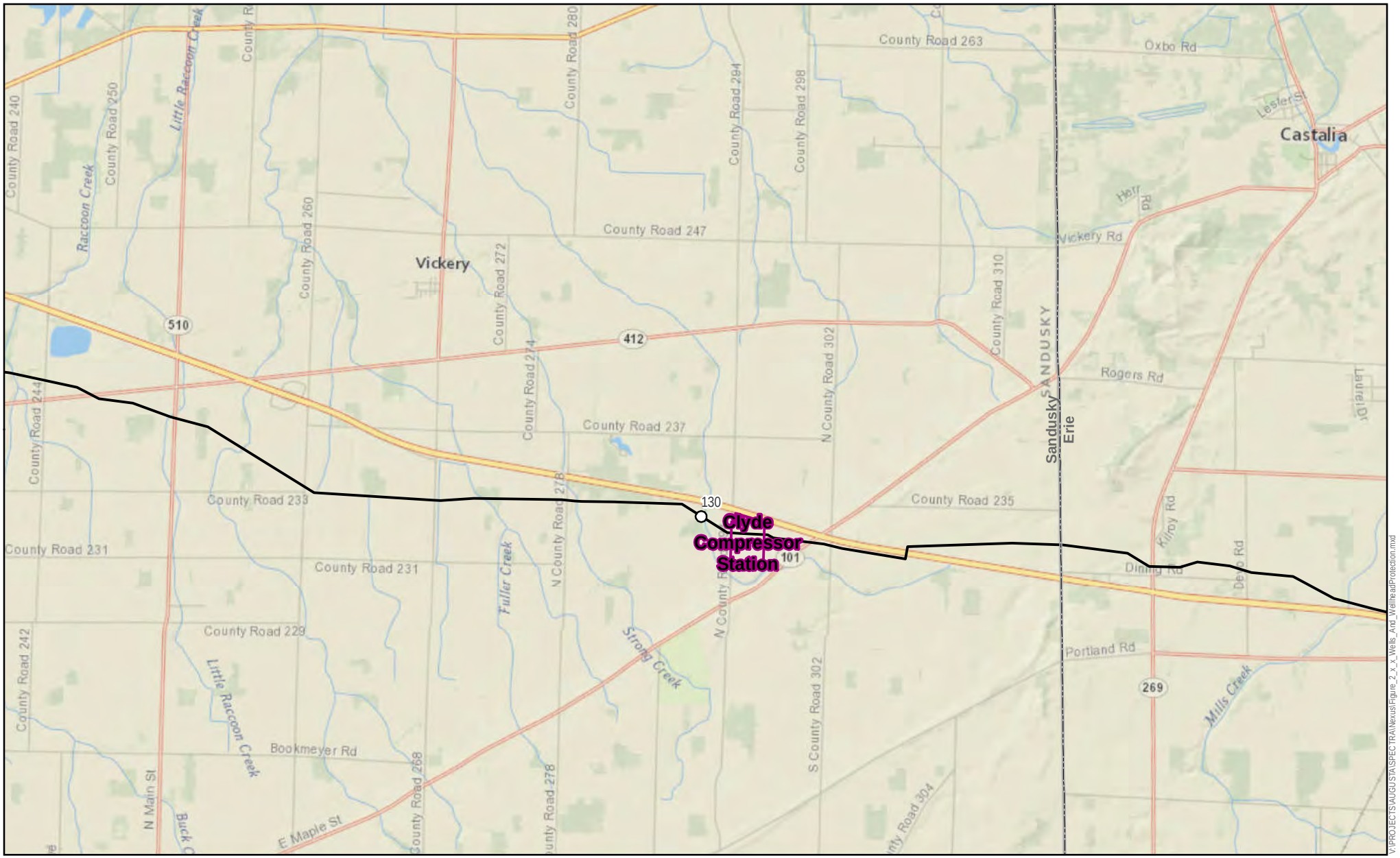
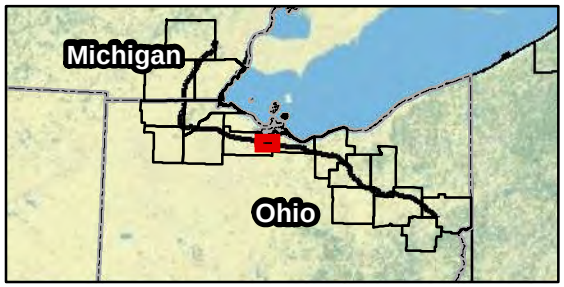
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Erie County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

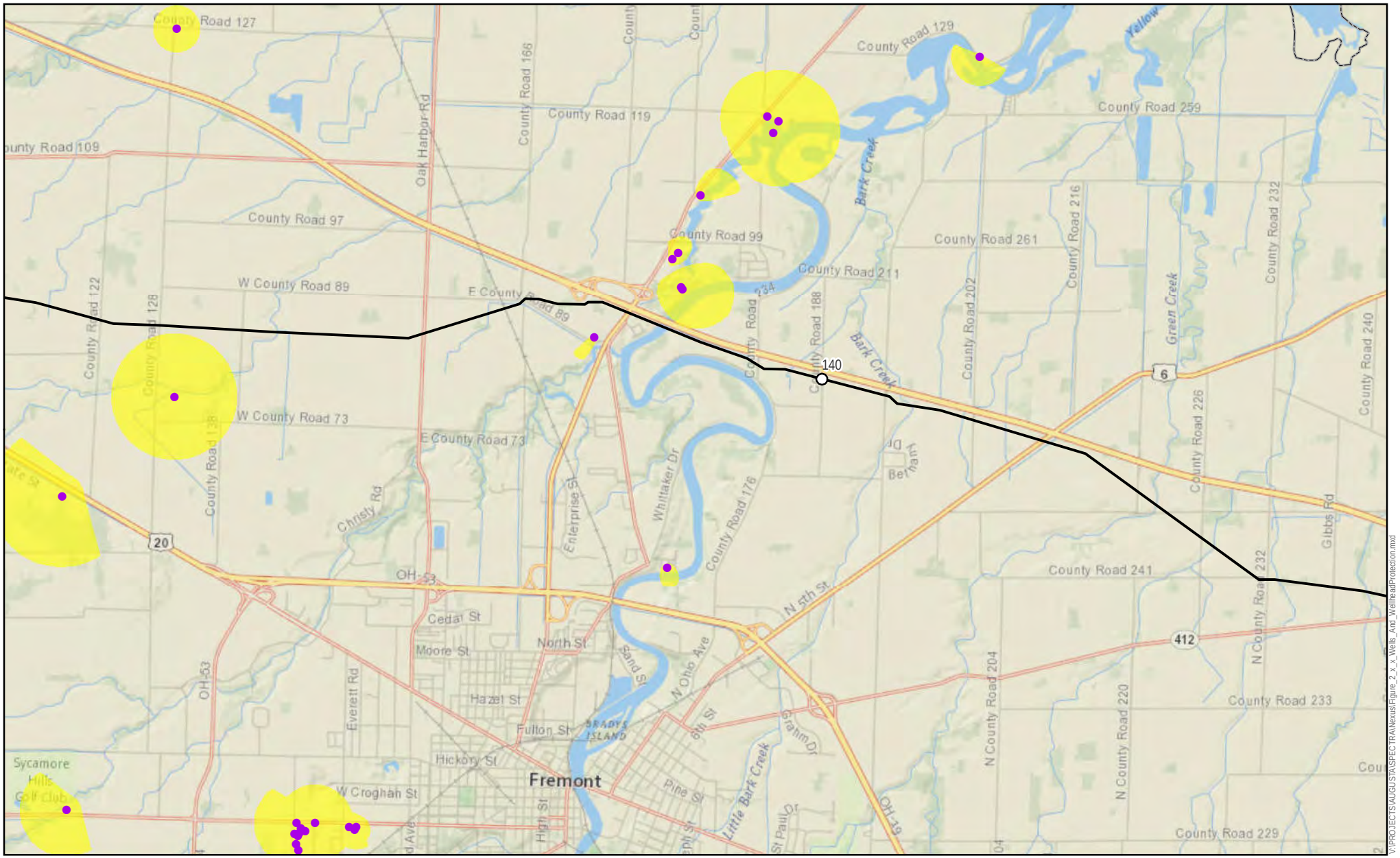
Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

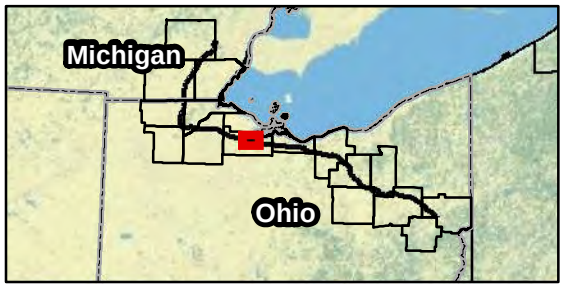
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Erie and Sandusky Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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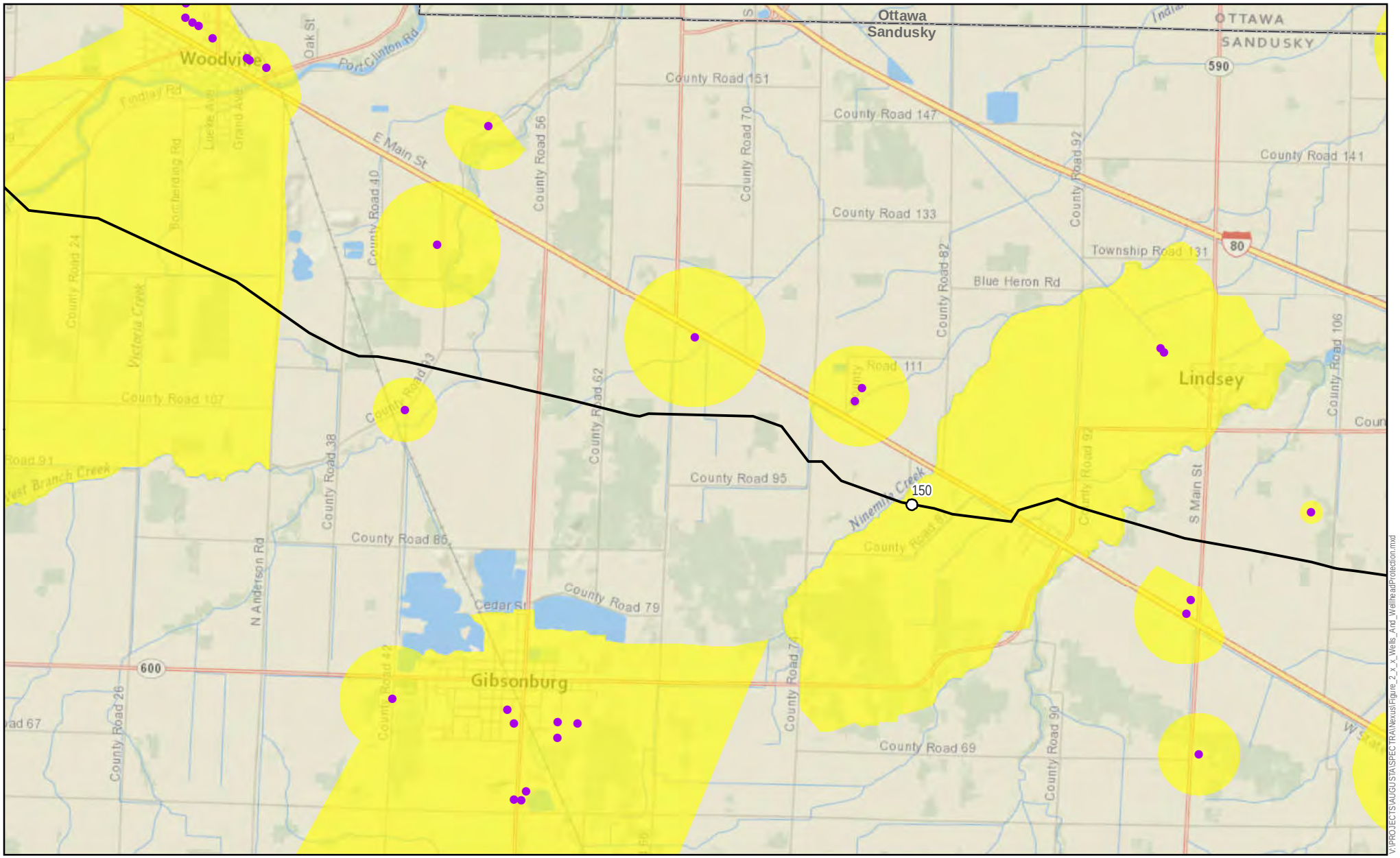
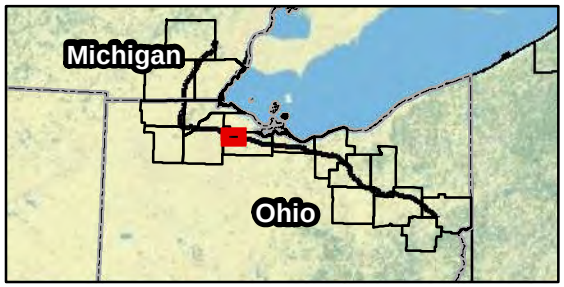
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Erie and Sandusky Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

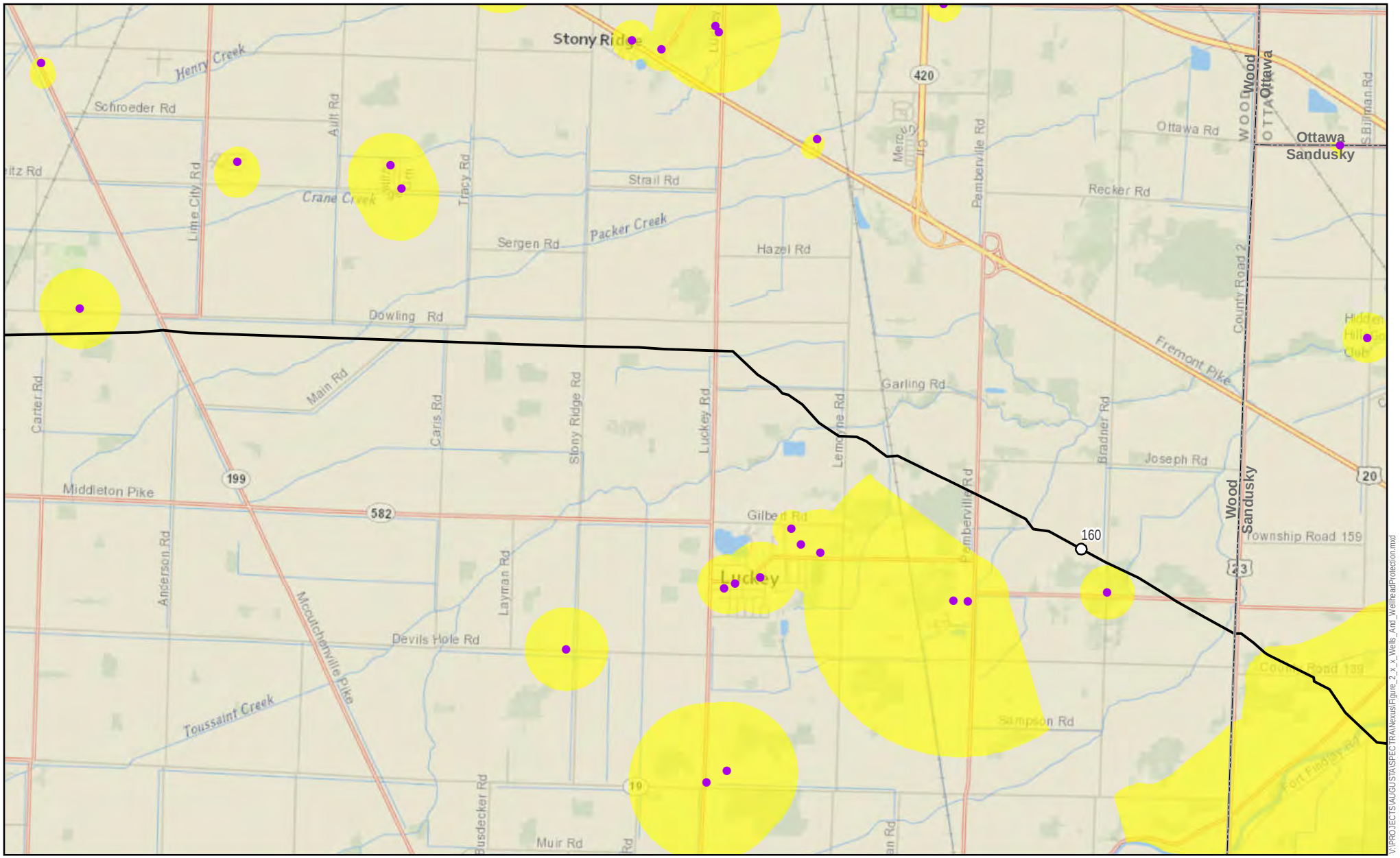
Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

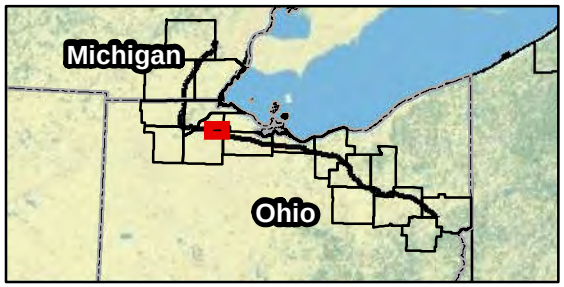
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Sandusky County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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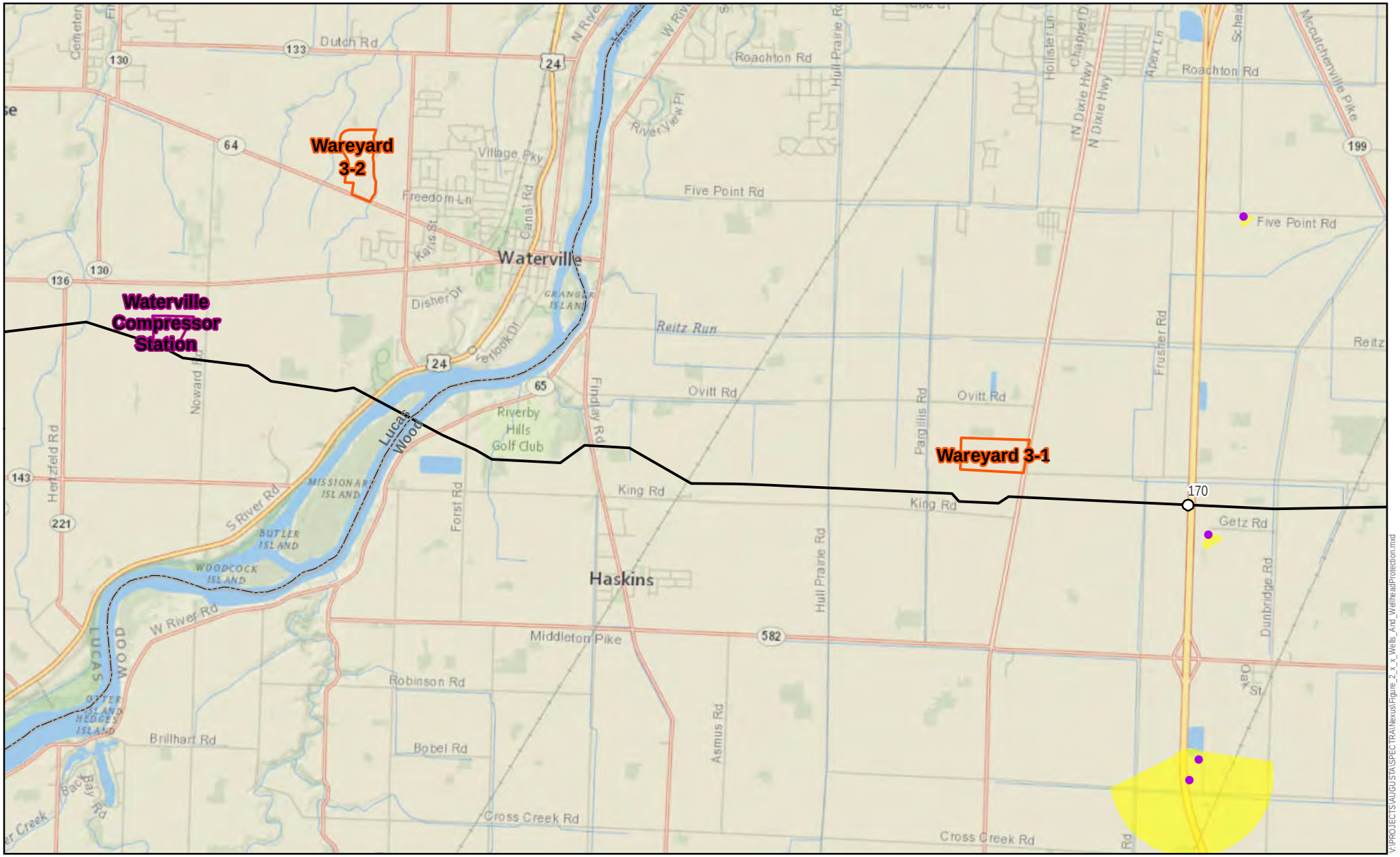
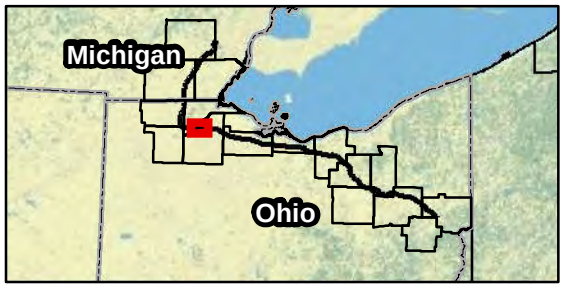
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Sandusky and Wood Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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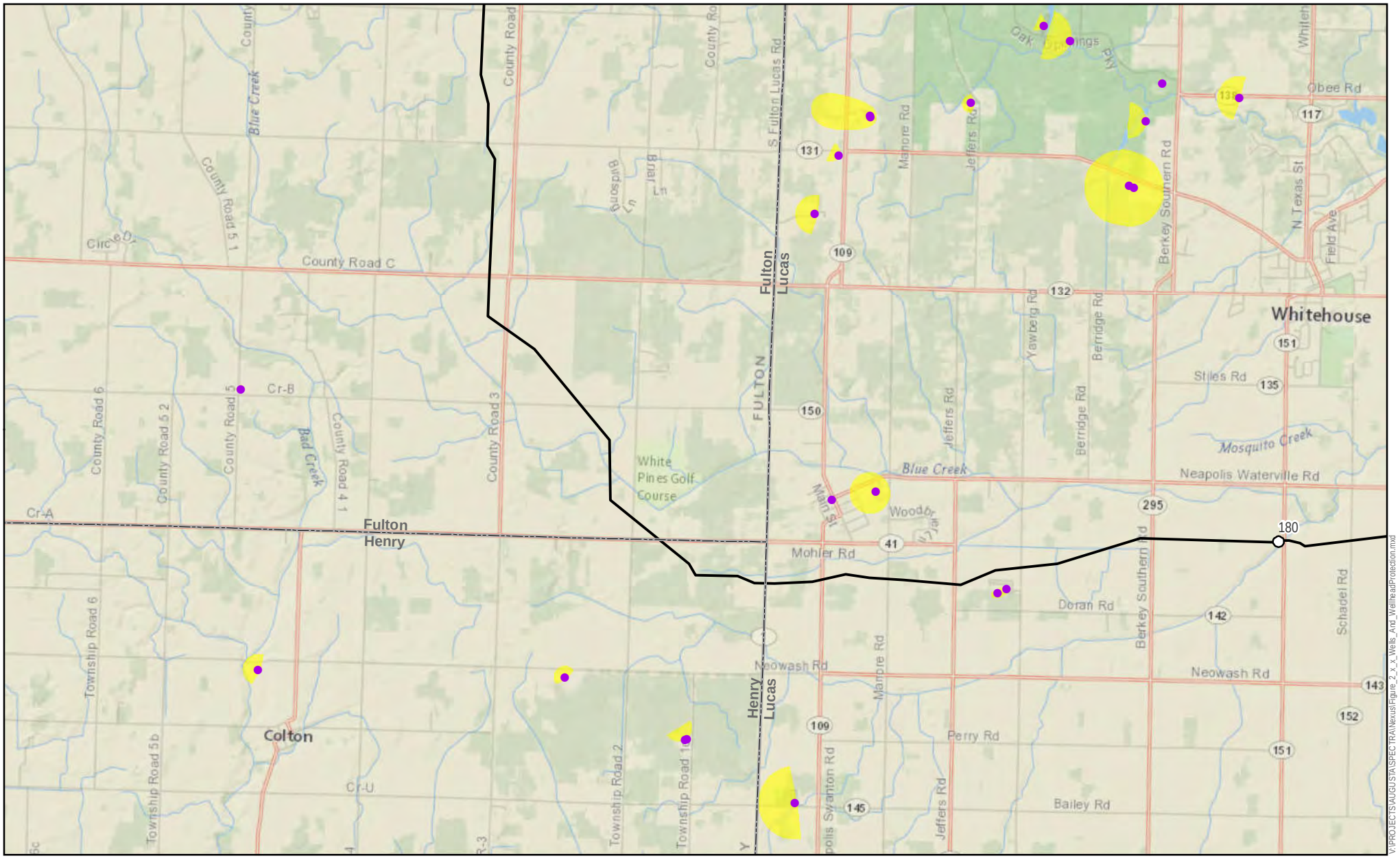
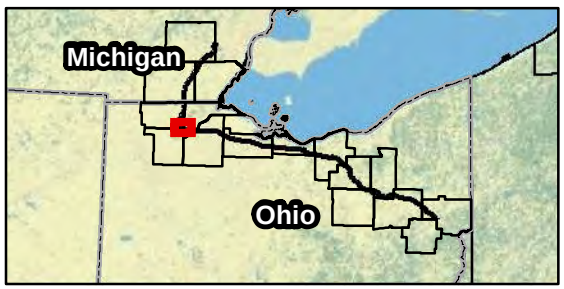
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Wood County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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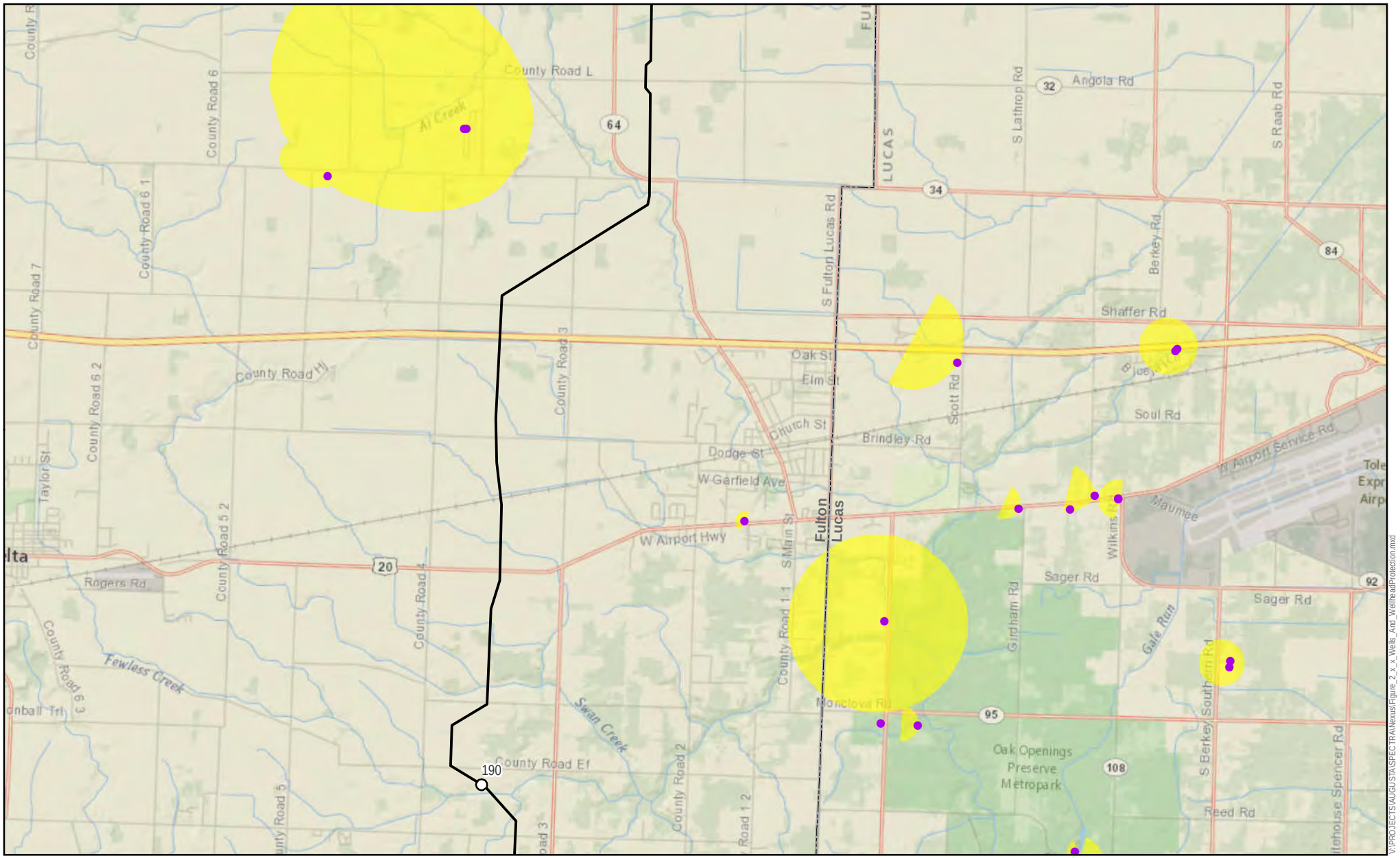
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Lucas, Henry and Fulton Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

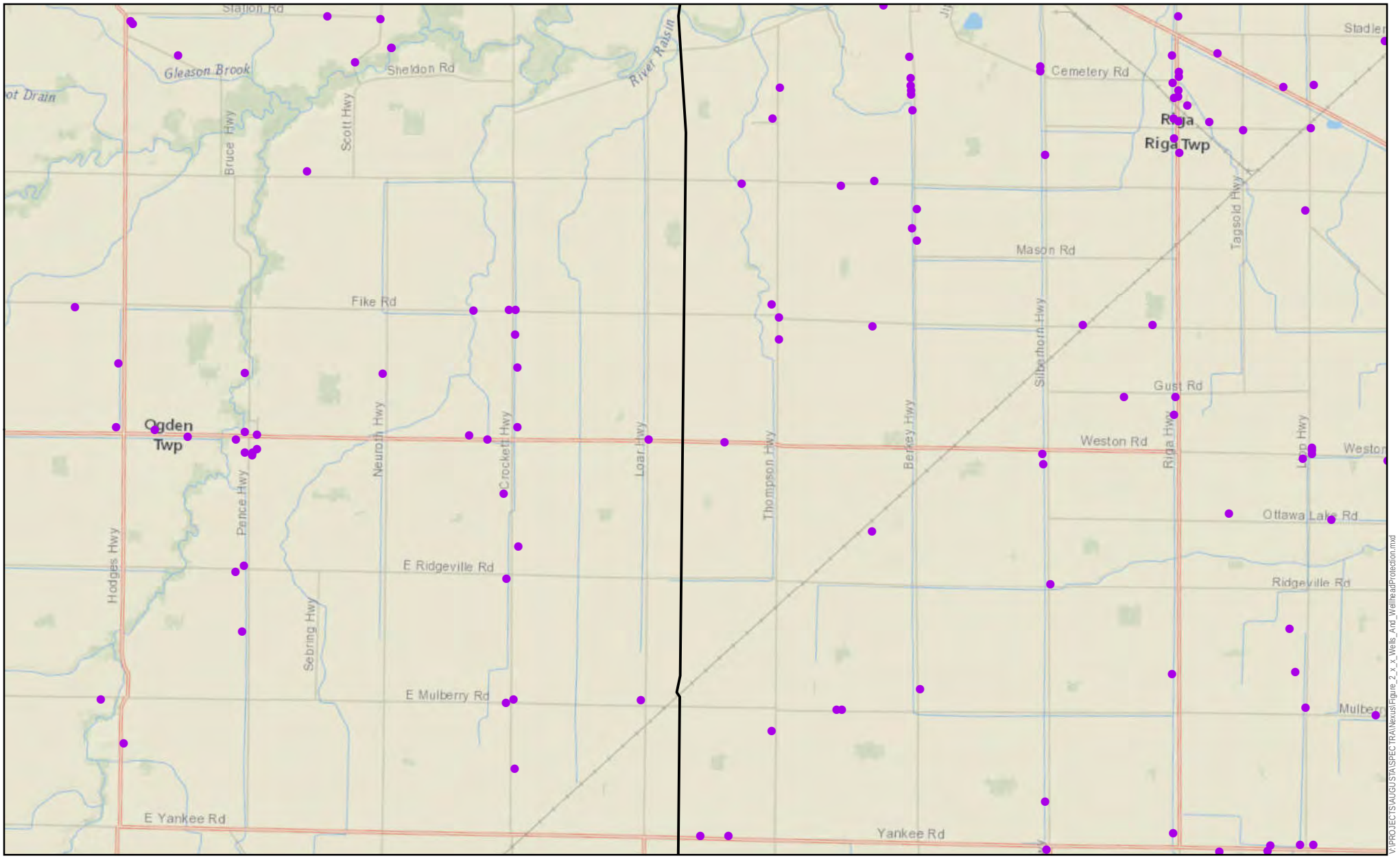


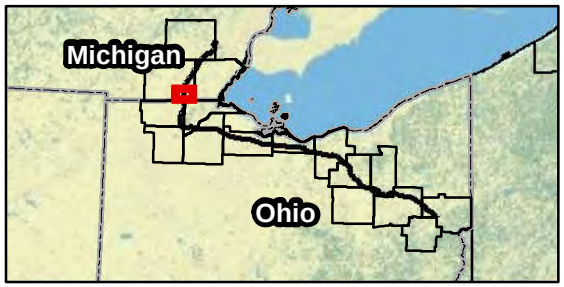

# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Fulton County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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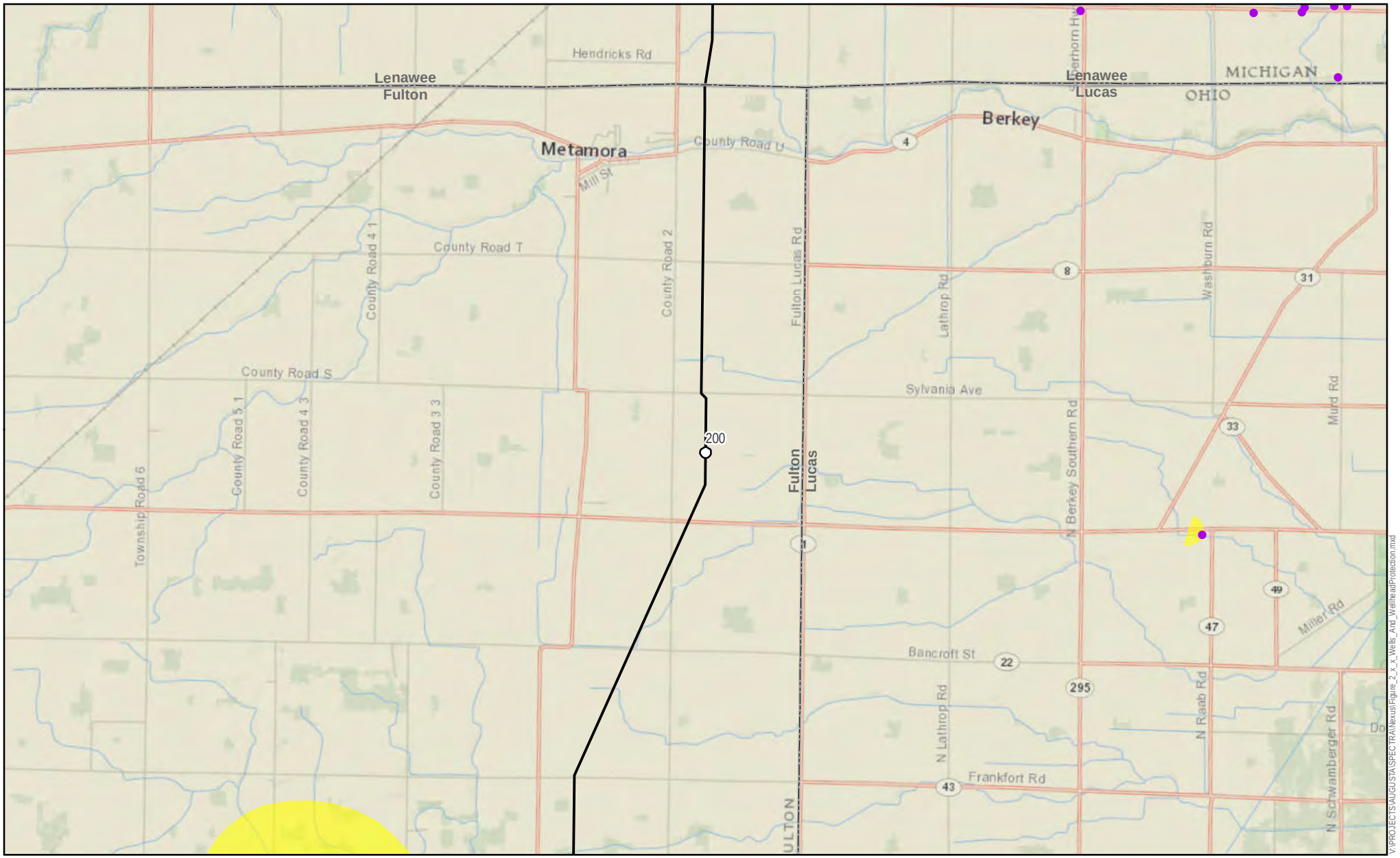
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015





Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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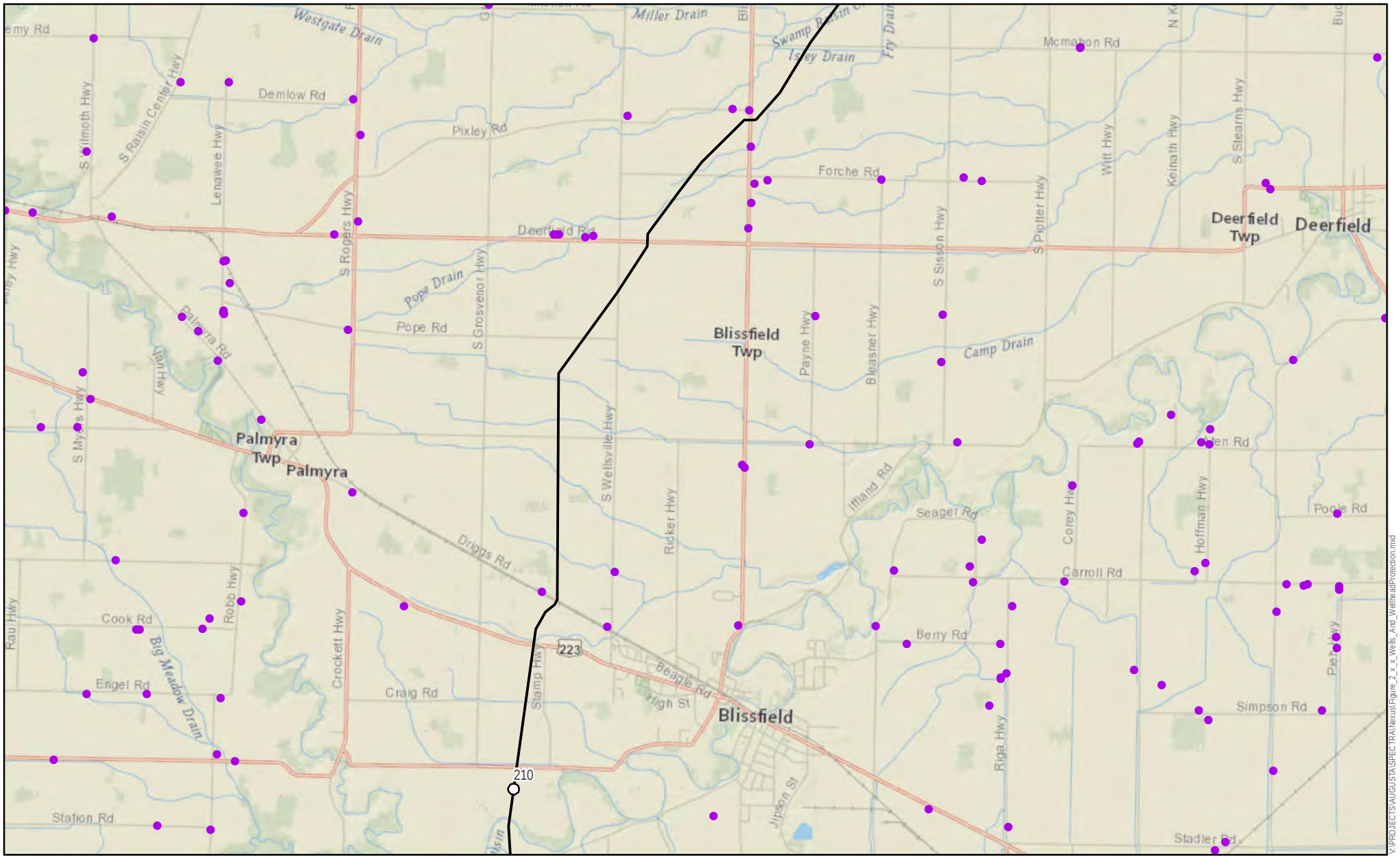
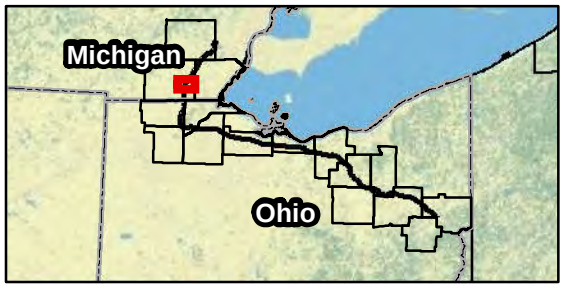
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015



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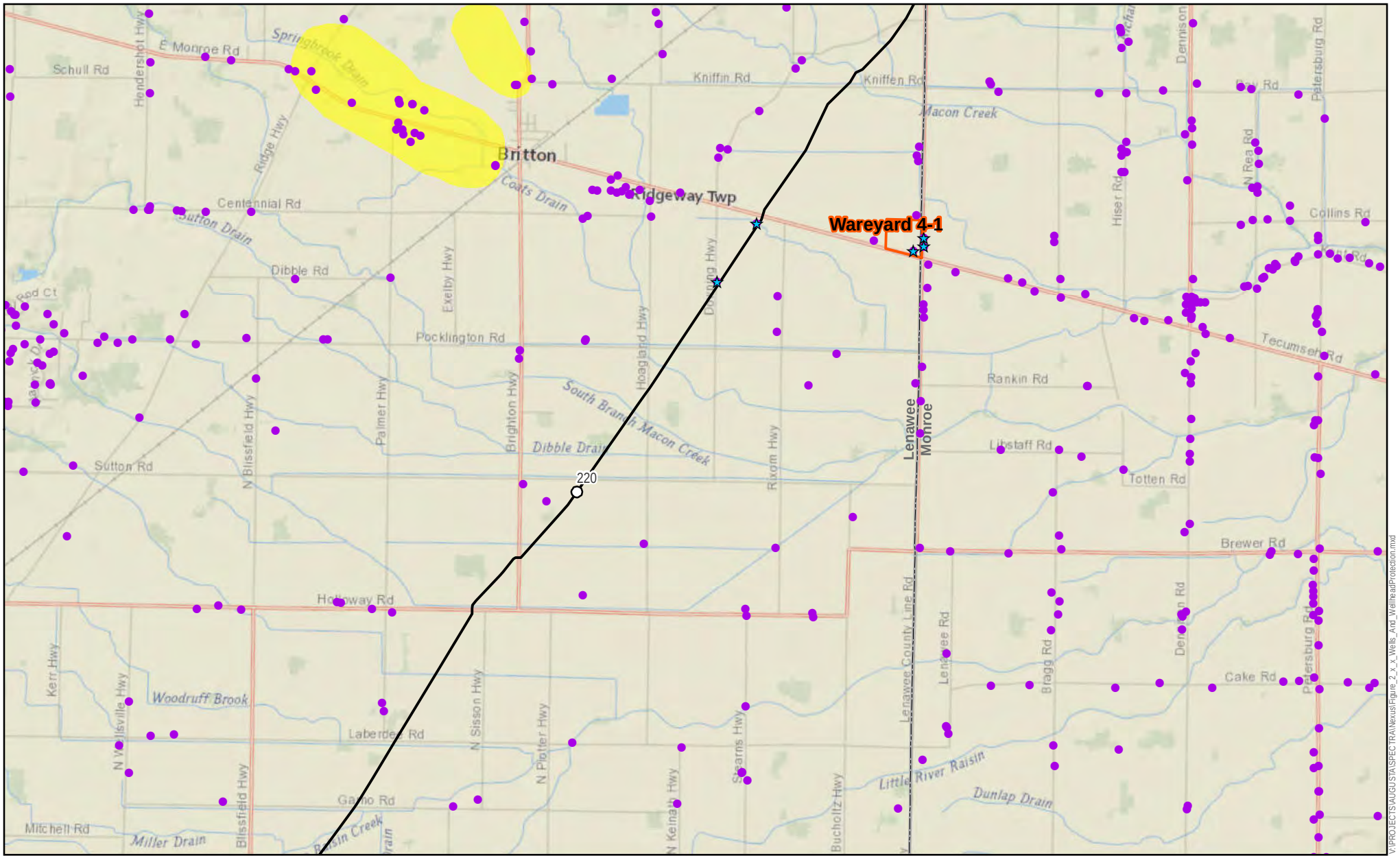


Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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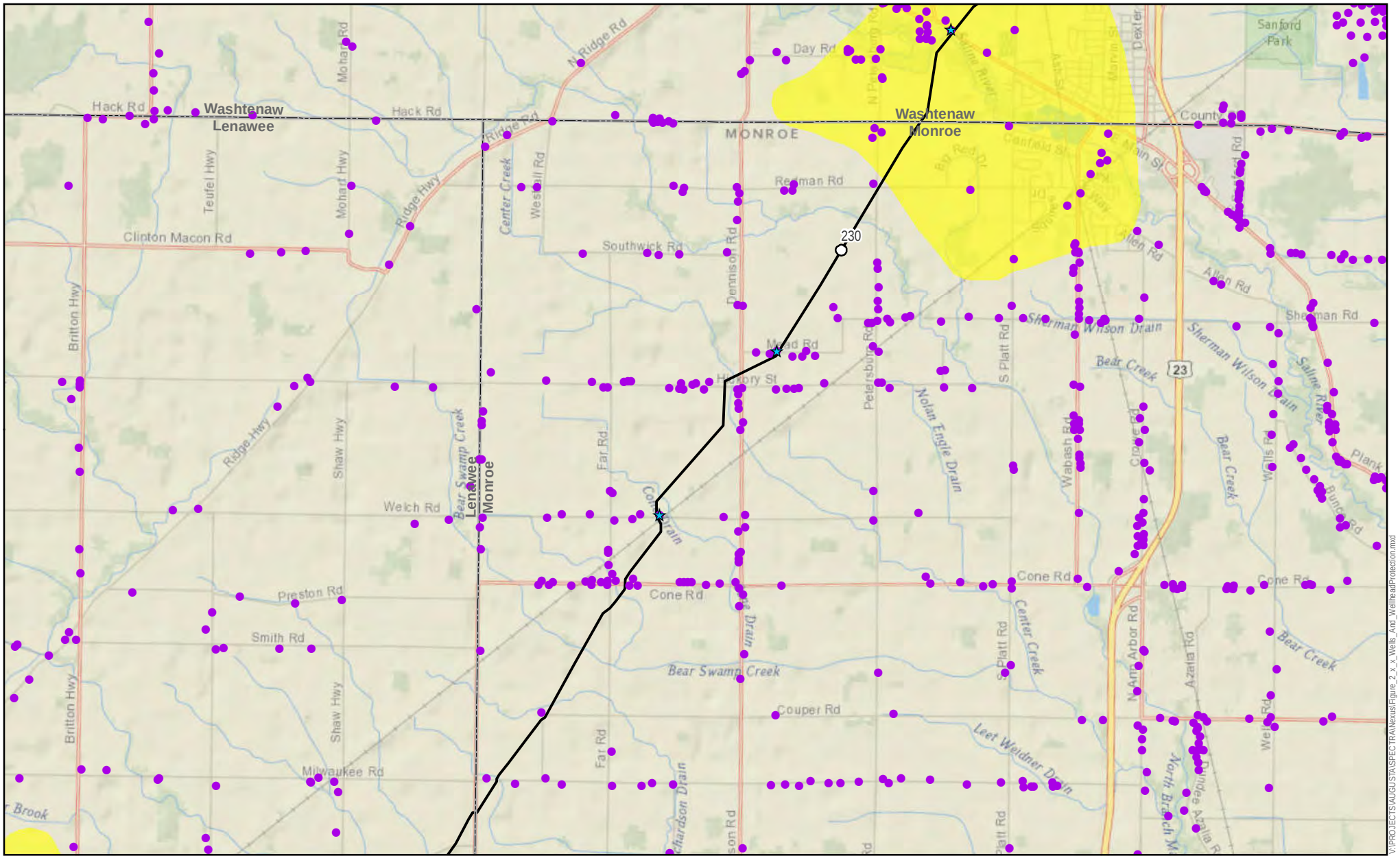
## Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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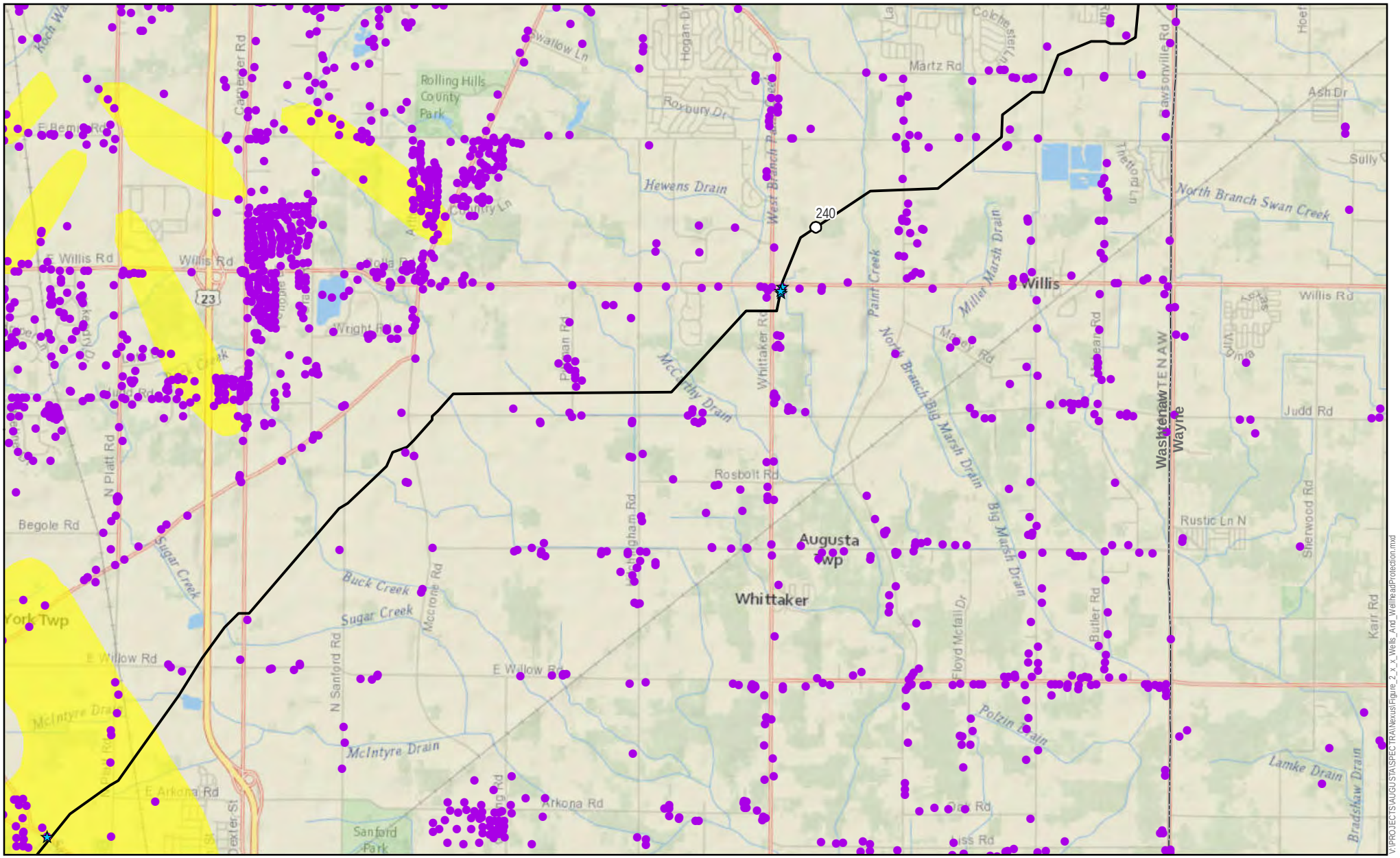
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Lenawee and Washtenaw Counties, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Wells
- Meter Stations
- Wells within 150' of NEXUS Project
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Wellhead Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC and Ohio EPA

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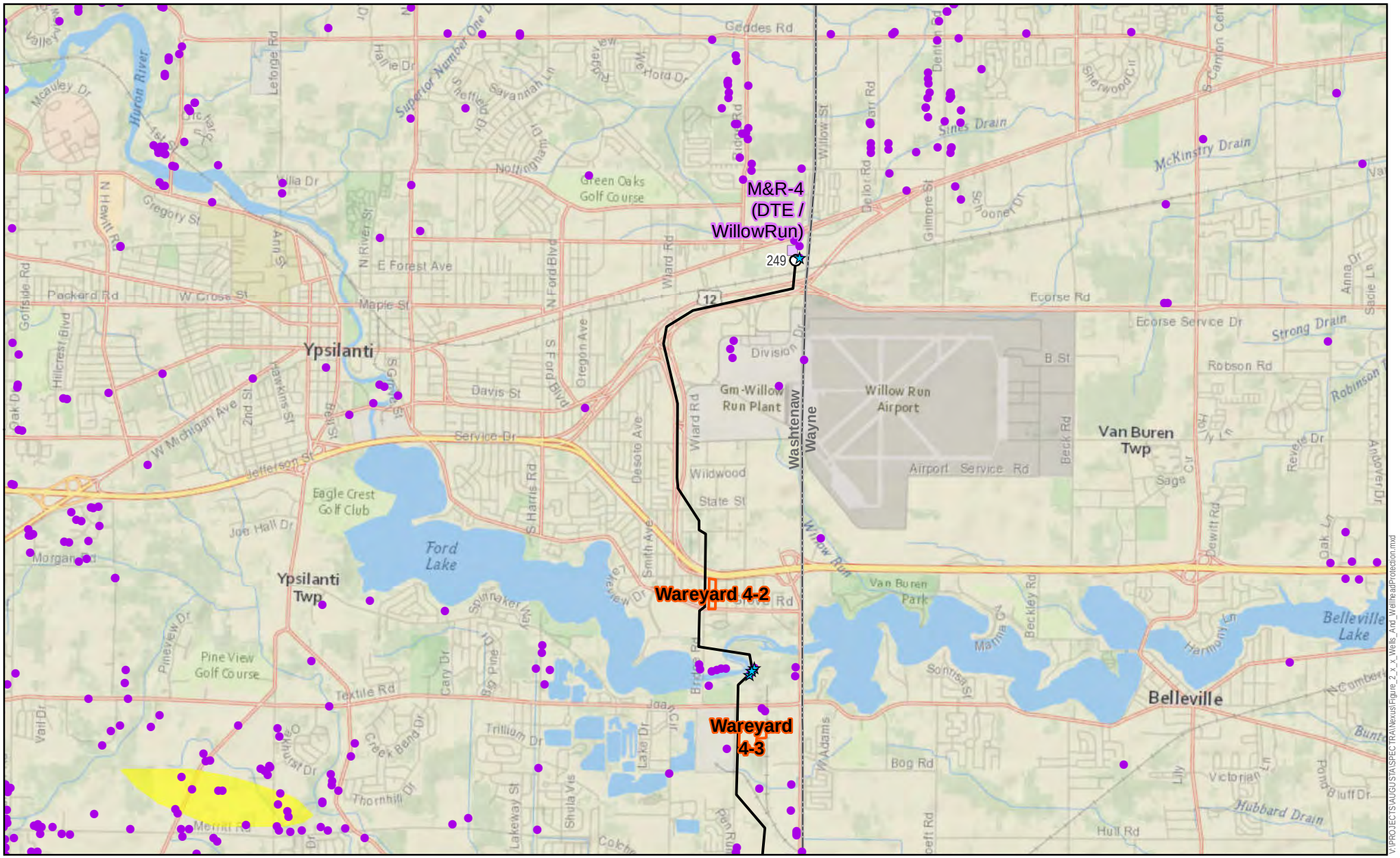
# Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Washtenaw County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015

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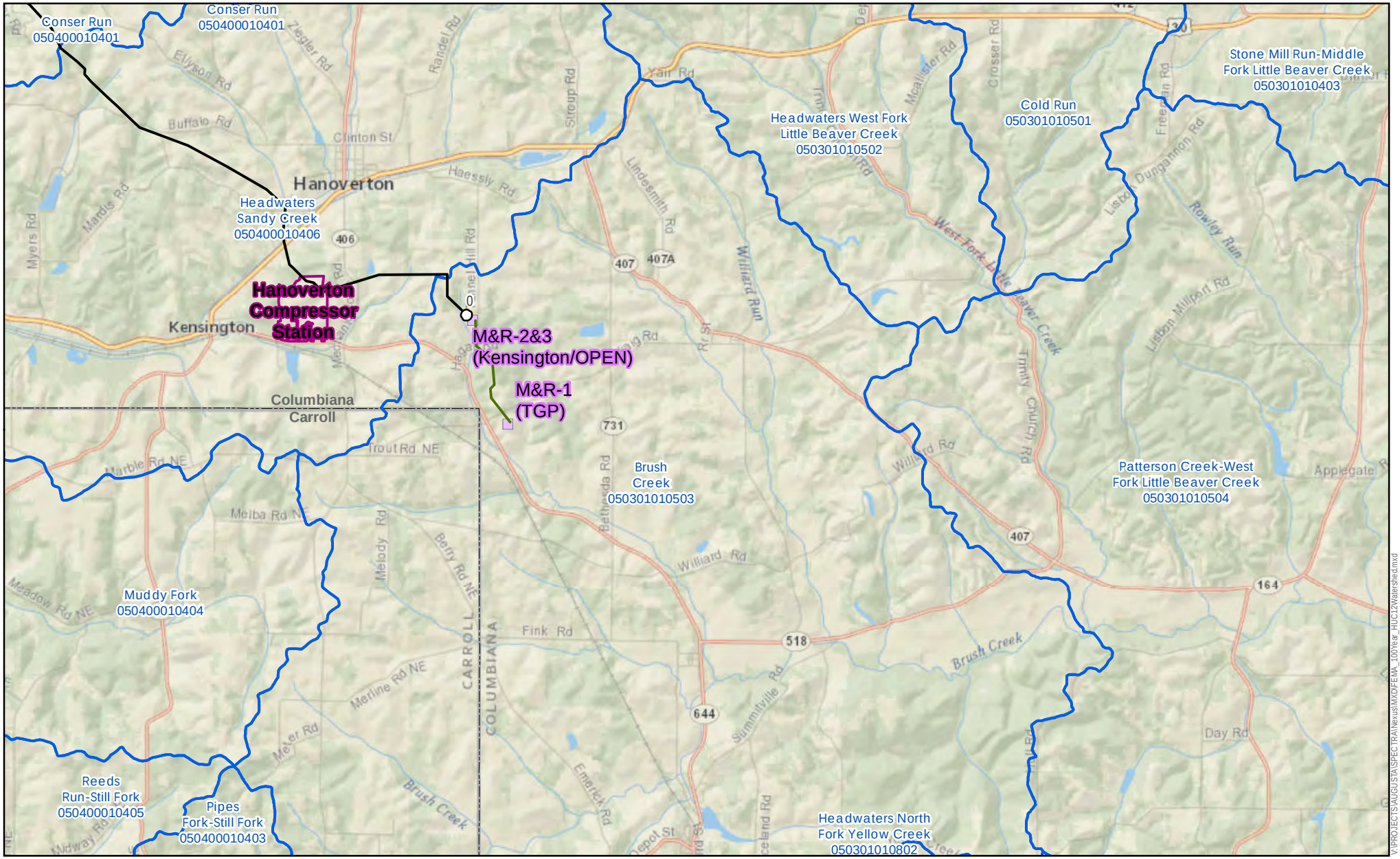
## Figure 2.2-2

Wells and Wellhead Protection Areas
Crossed by the NEXUS Project
Washtenaw County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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# Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Columbiana and Carroll Counties,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

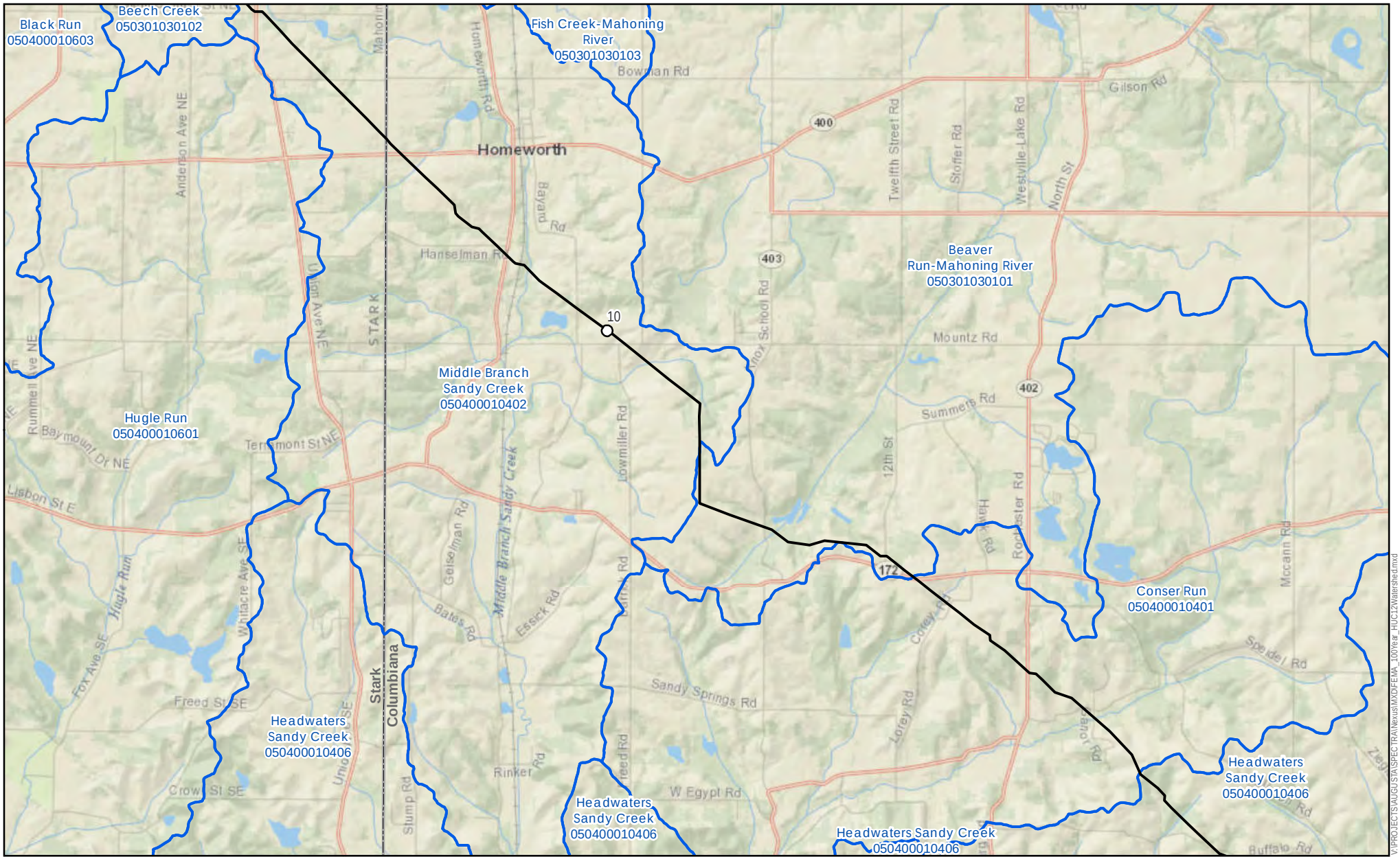


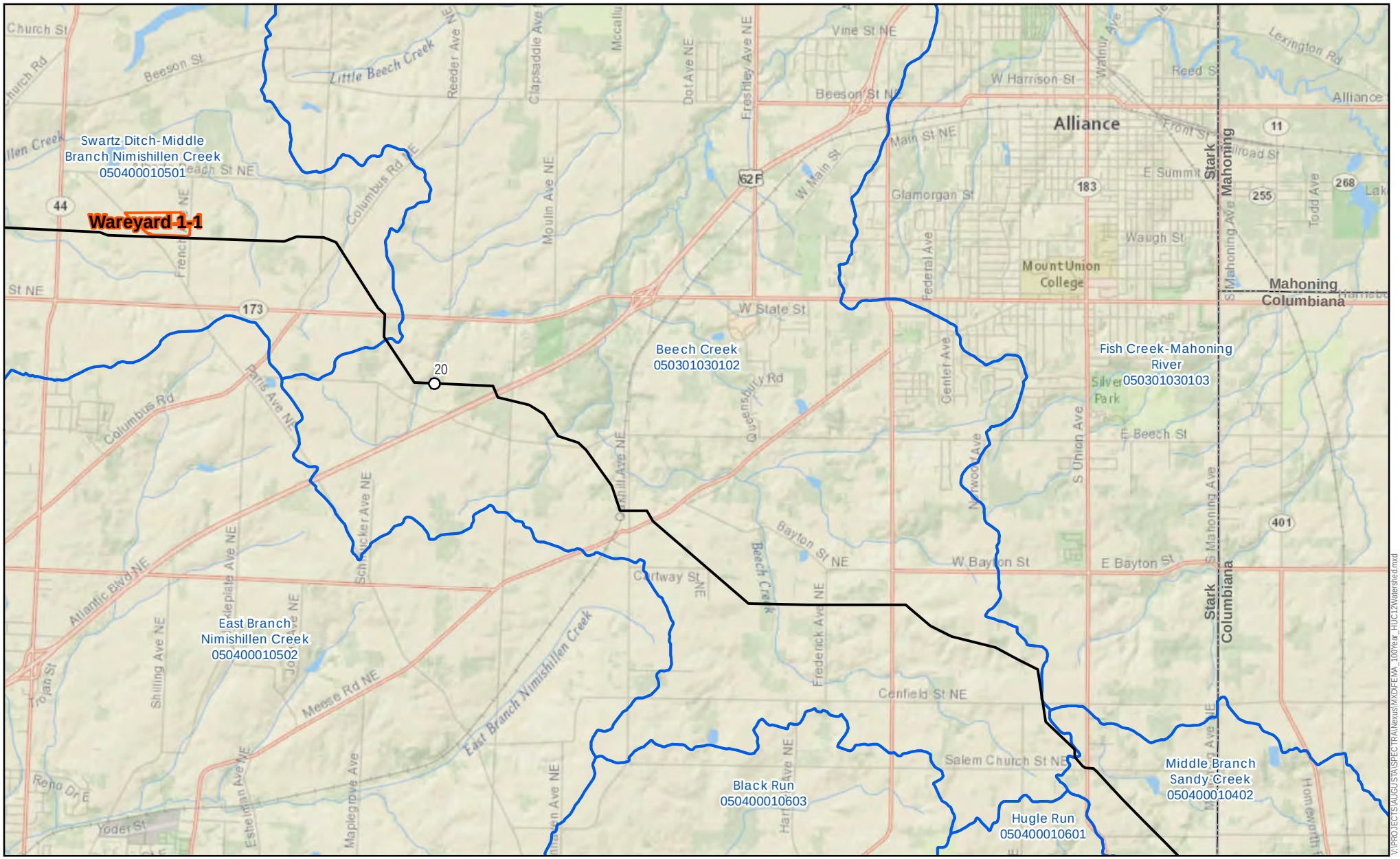

Figure 2.3-1

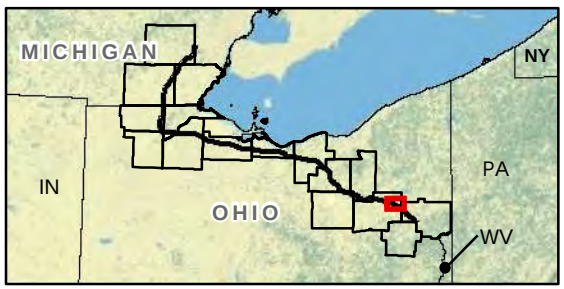
HUC-12 Watersheds
Crossed by the NEXUS Project

Columbiana and Stark Counties,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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# Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Stark County,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

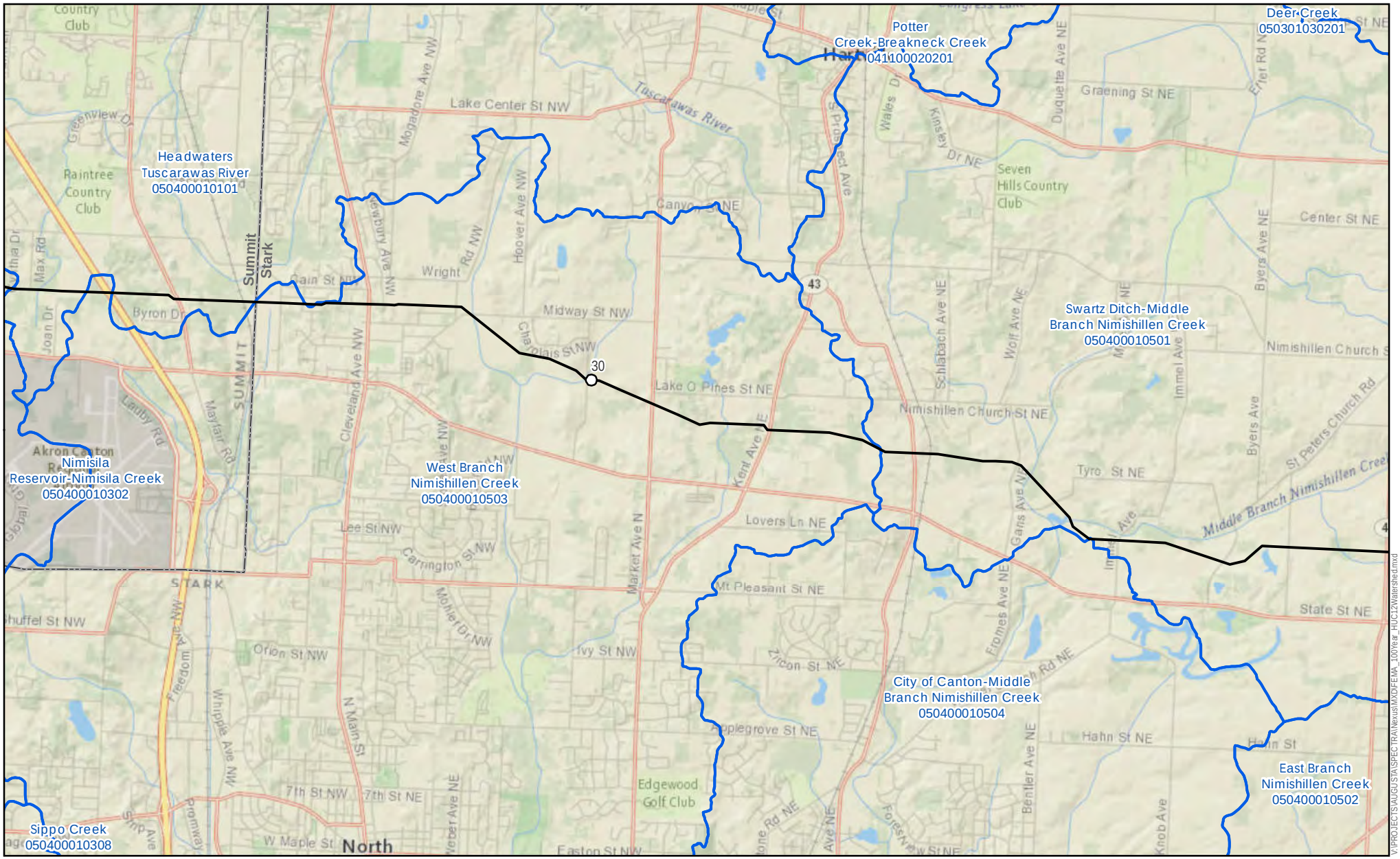


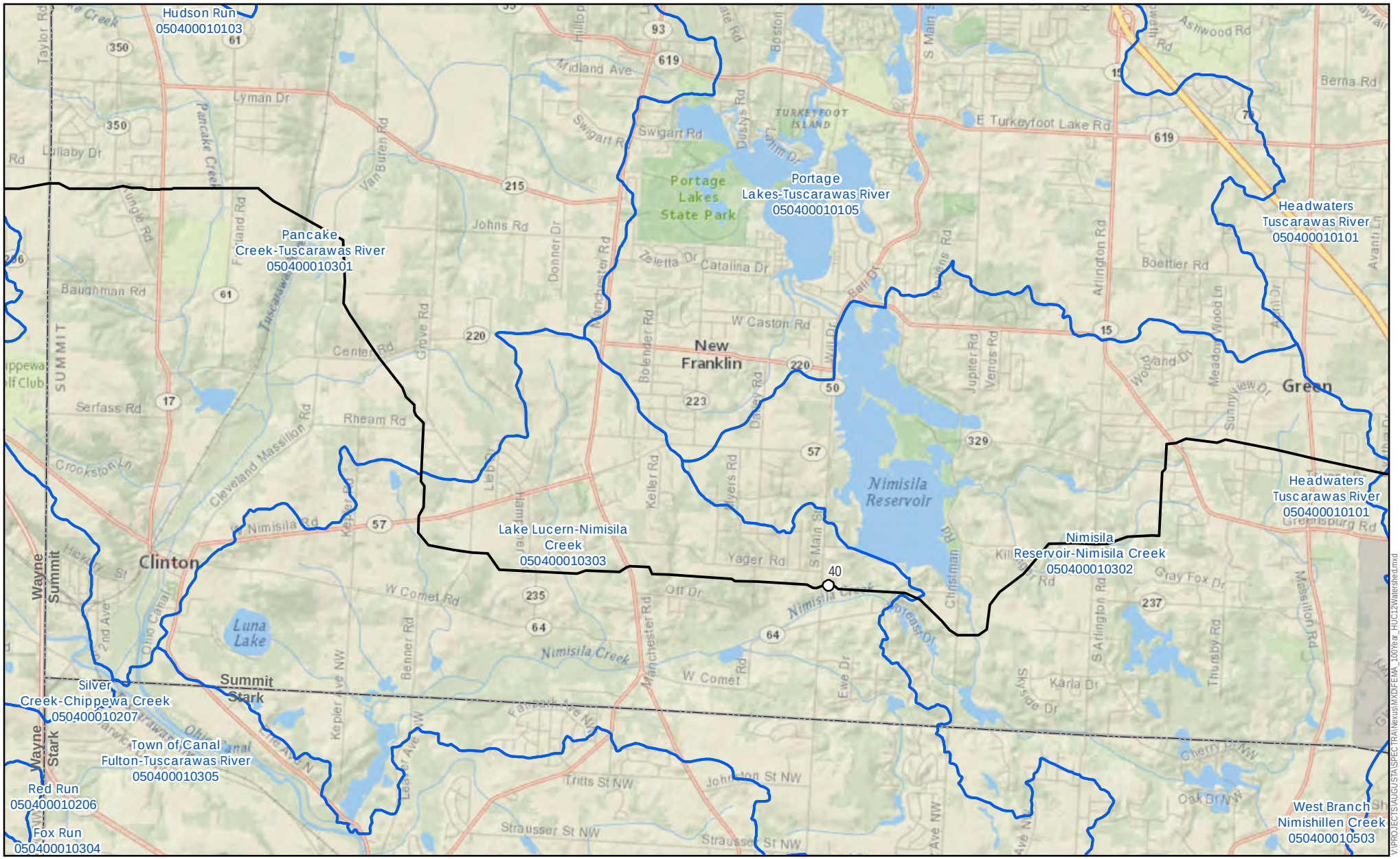

Figure 2.3-1

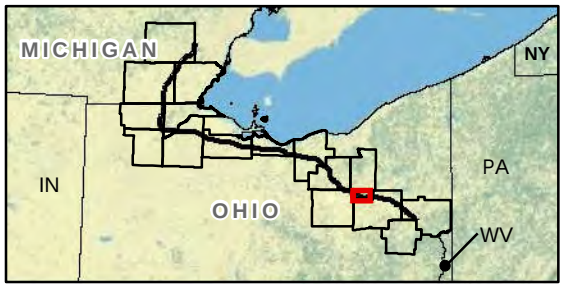
HUC-12 Watersheds
Crossed by the NEXUS Project

Stark and Summit Counties,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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## Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Summit and Wayne Counties,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

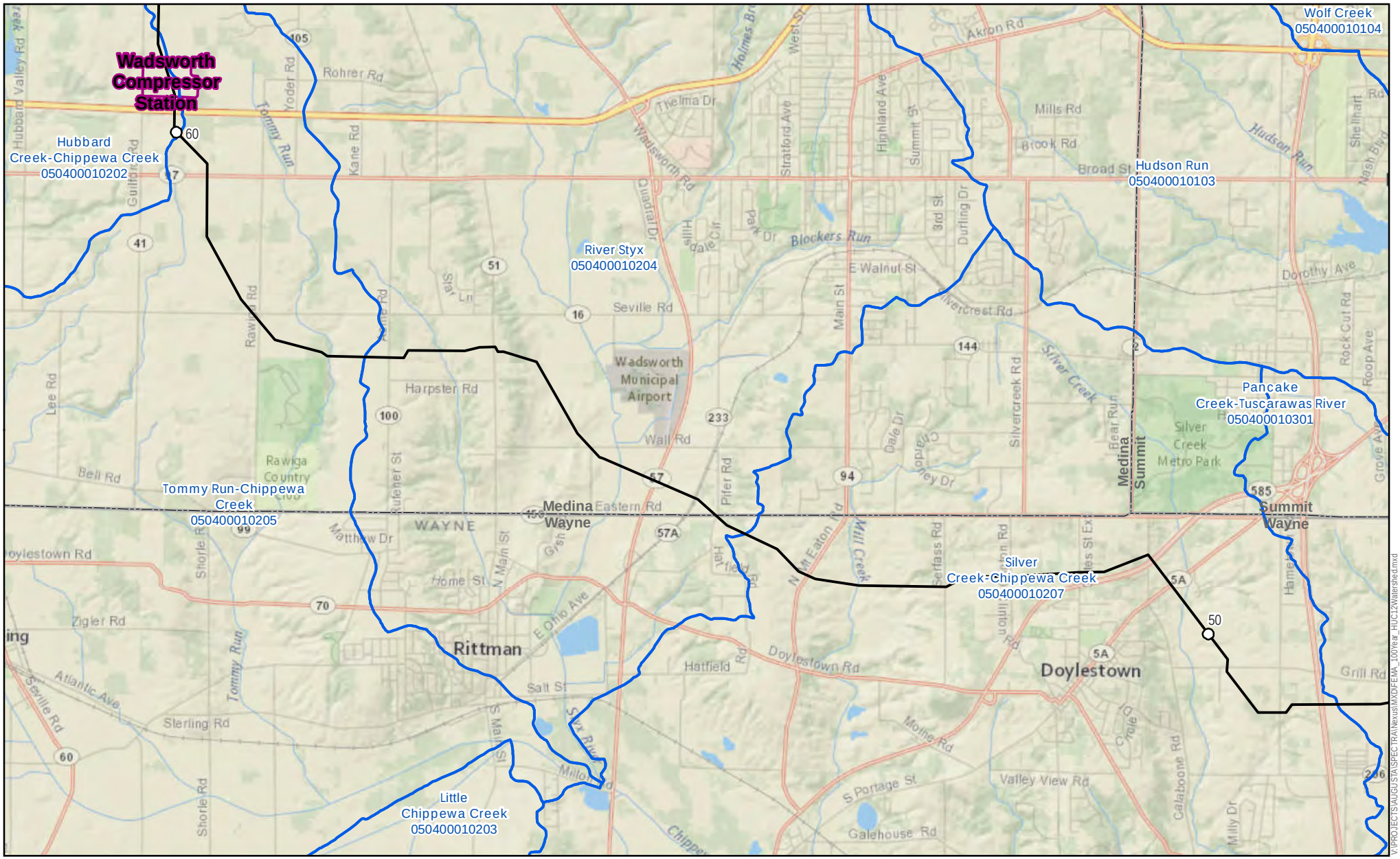


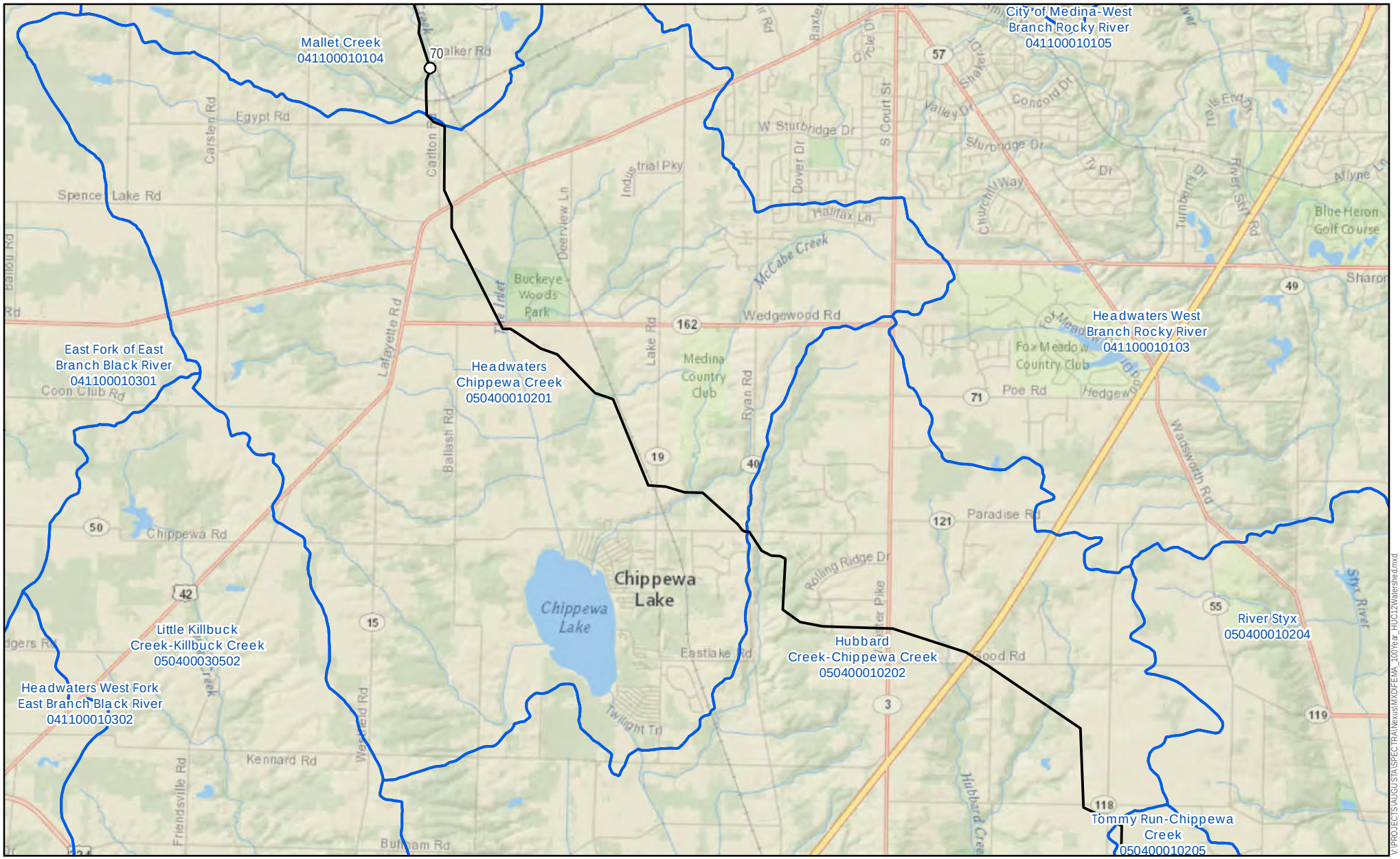

Figure 2.3-1

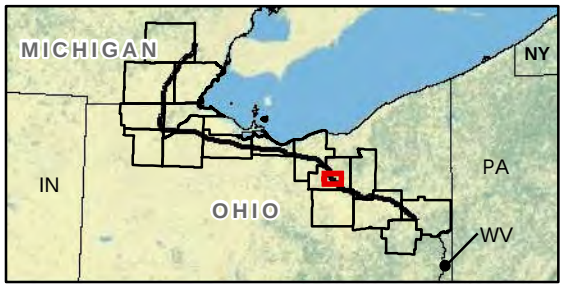
HUC-12 Watersheds
Crossed by the NEXUS Project

Medina and Wayne Counties,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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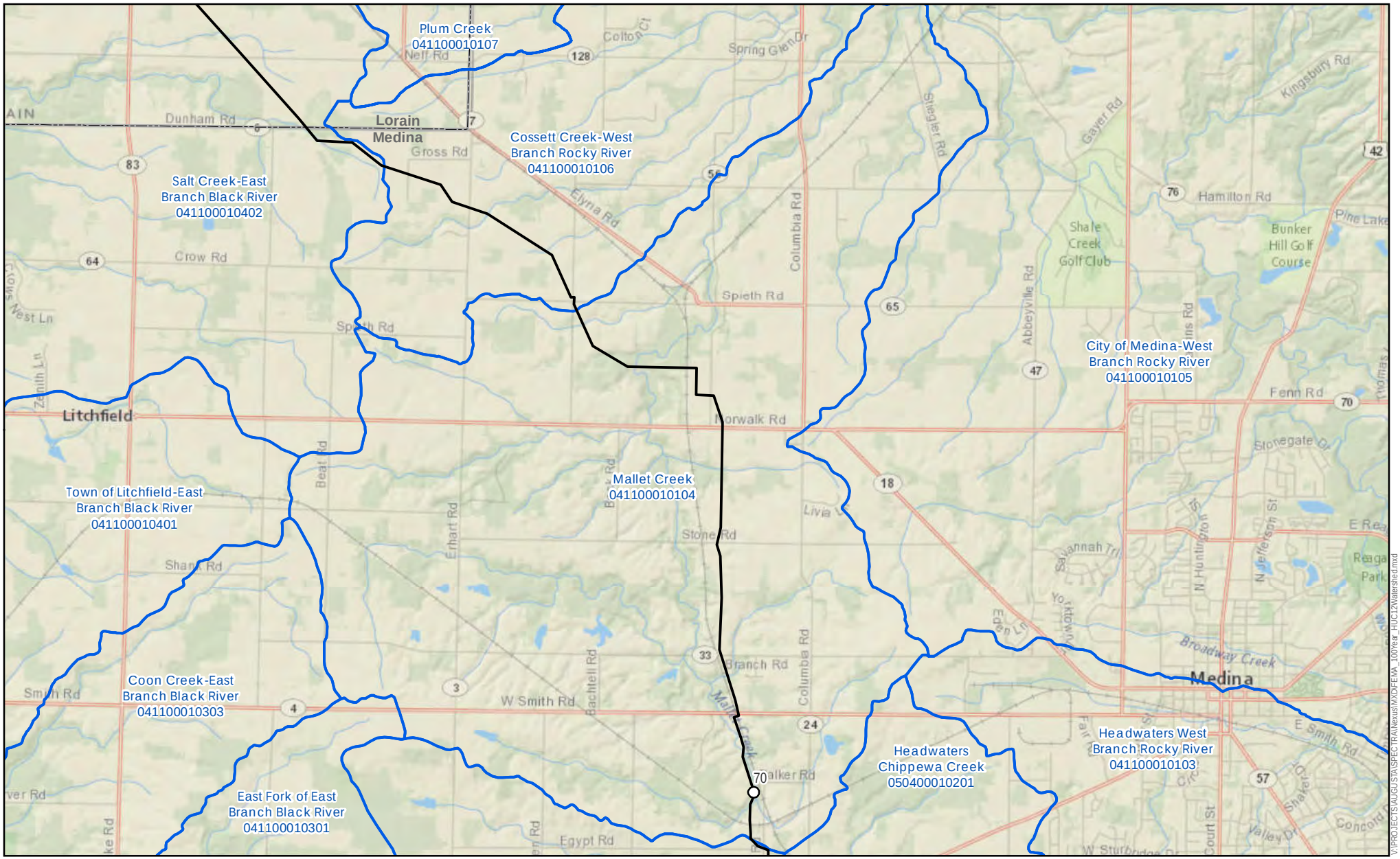
## Figure 2.3-1

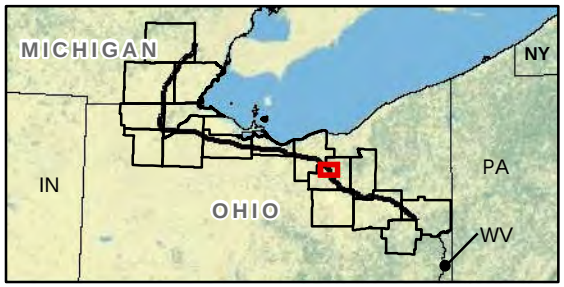
HUC-12 Watersheds
Crossed by the NEXUS Project

Medina County,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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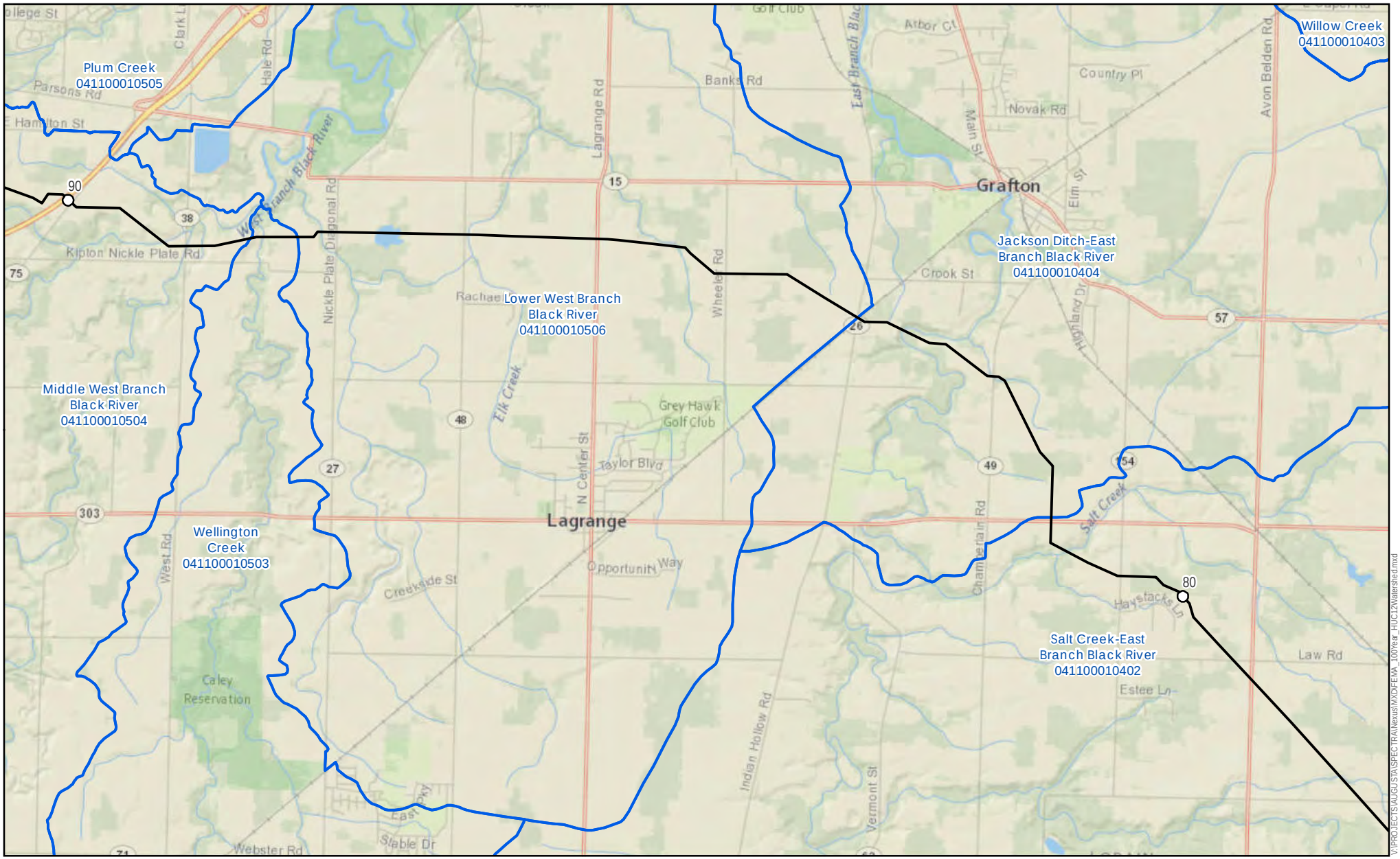
# Figure 2.3-1

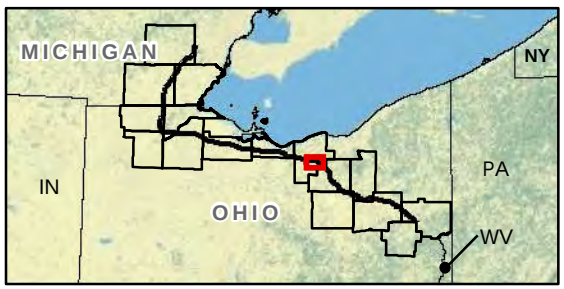
HUC-12 Watersheds
Crossed by the NEXUS Project

Medina County,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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# Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Lorain County,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

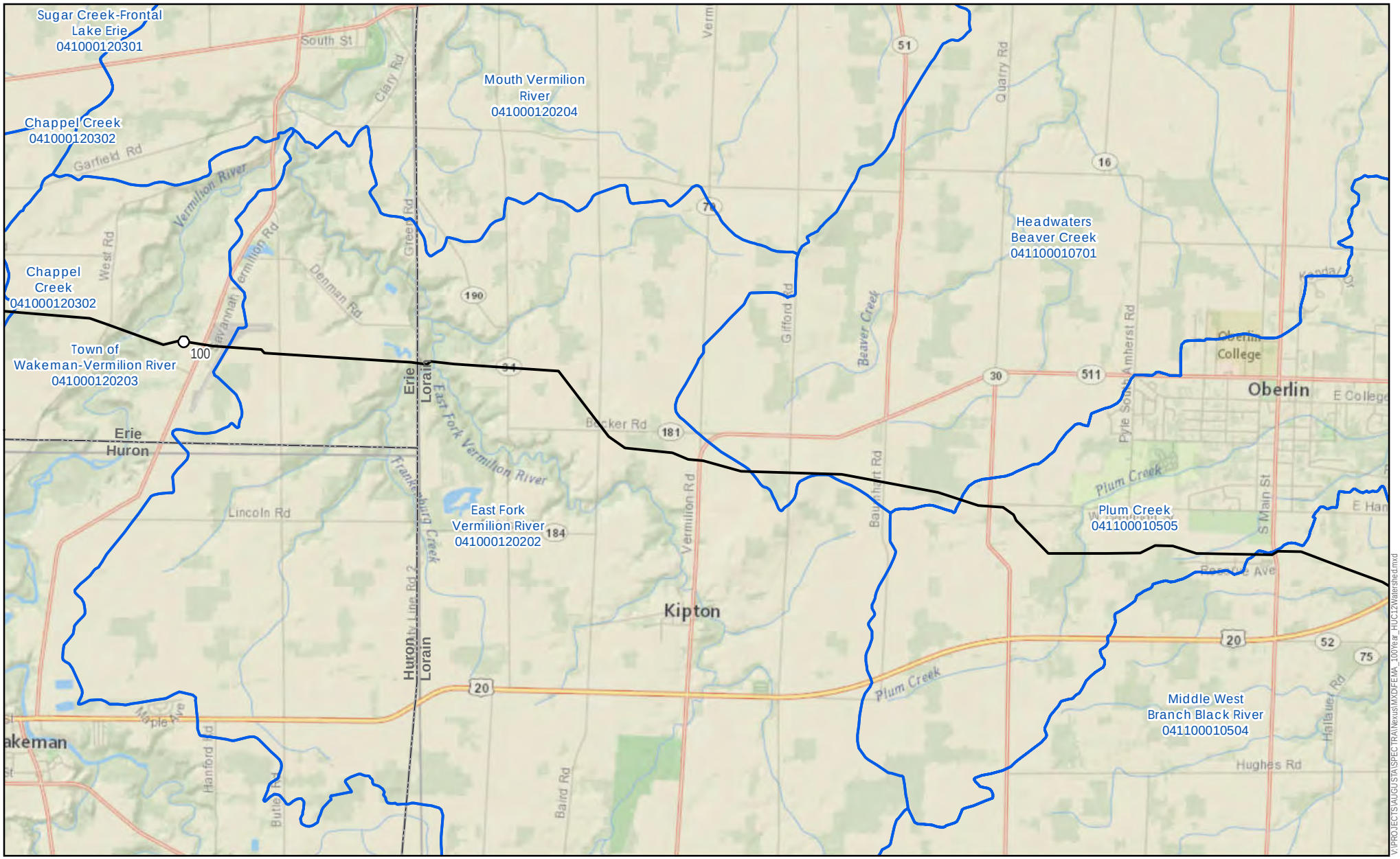


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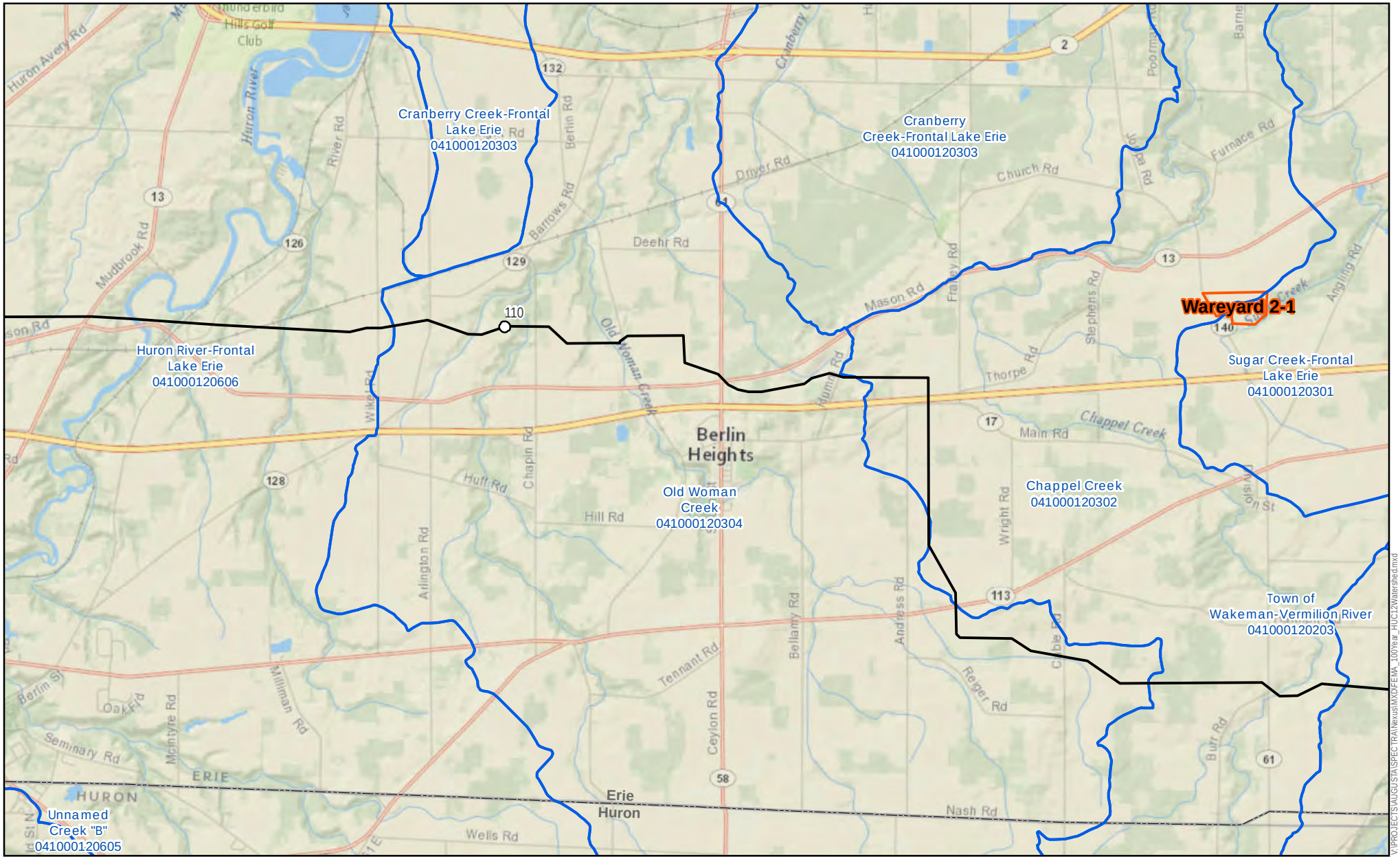
Figure 2.3-1

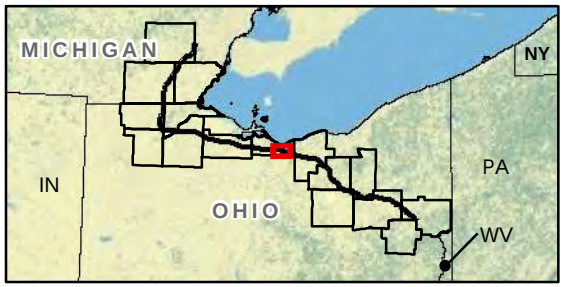
HUC-12 Watersheds
Crossed by the NEXUS Project

Lorain and Erie Counties,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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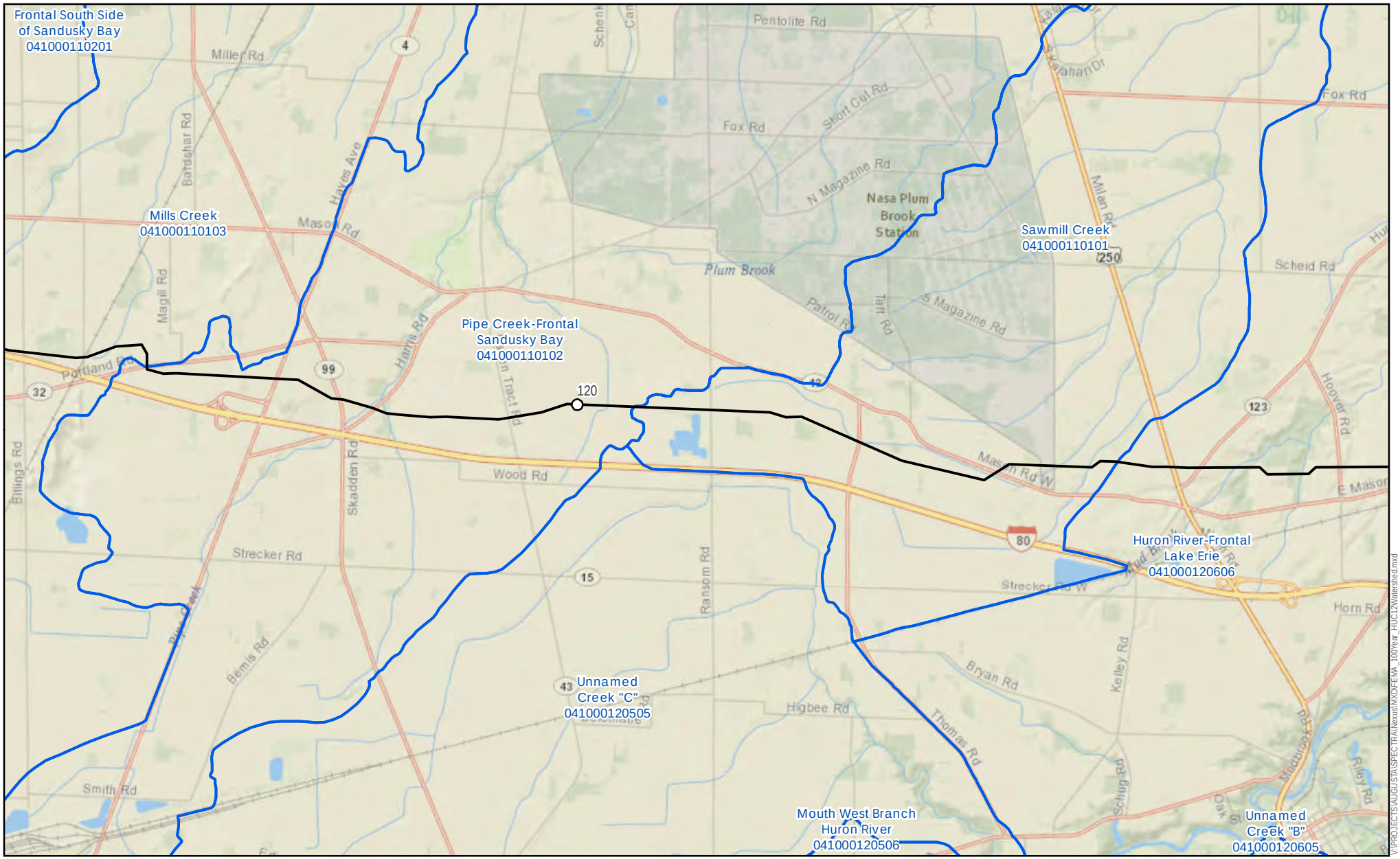
## Figure 2.3-1

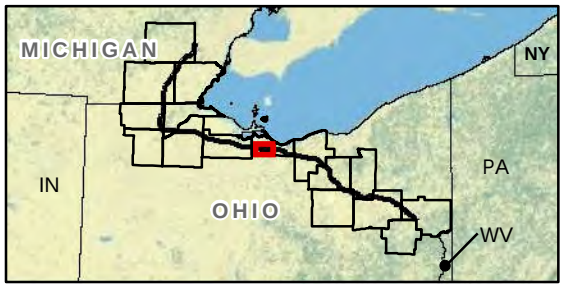
HUC-12 Watersheds
Crossed by the NEXUS Project

Erie County,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

V:\PROJECTS\AUGUSTA\SPECTRA\NexusMXD\FEMA_100Year_HUC12Watershed.mxd

## Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Erie County,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

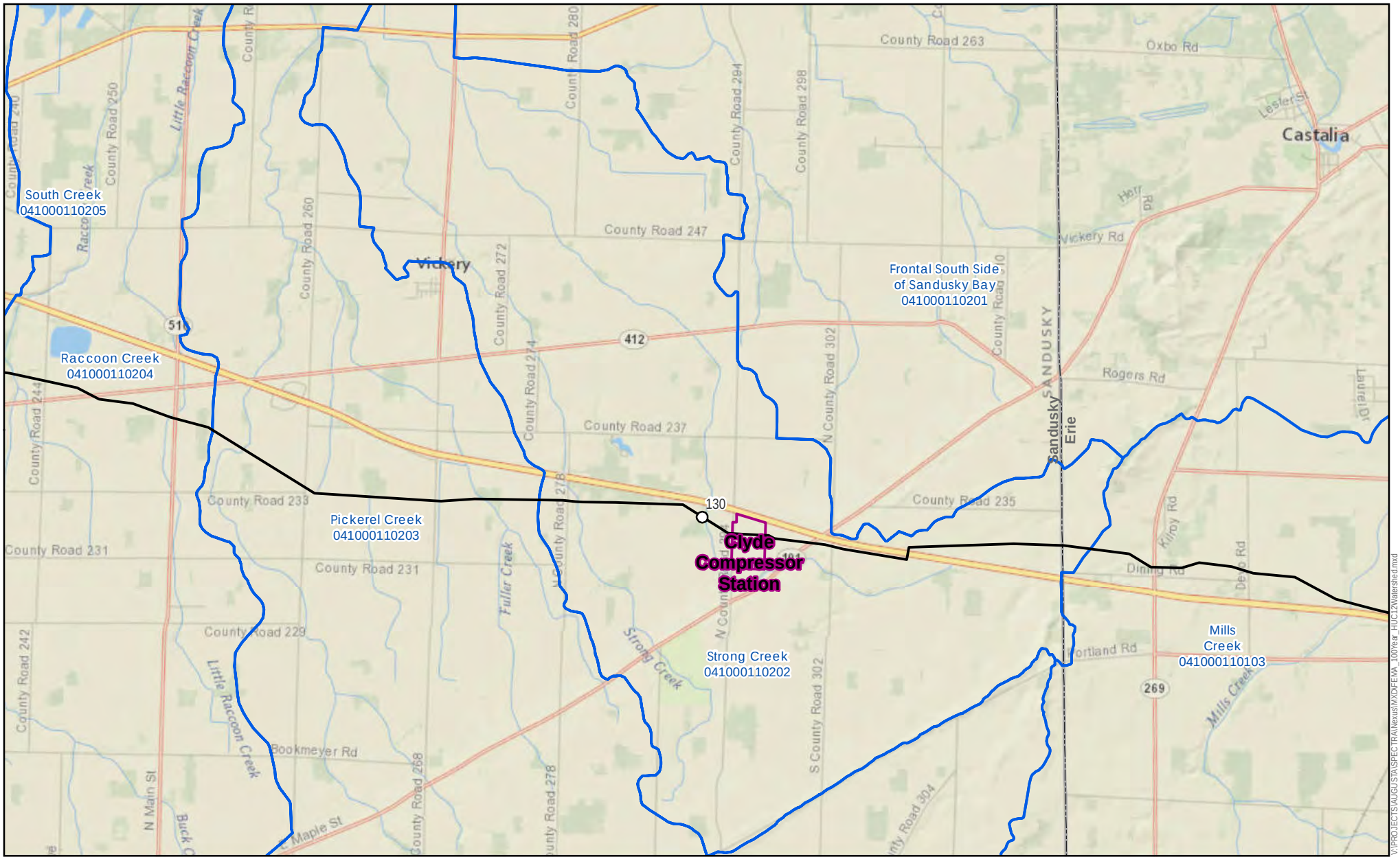



Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Erie and Sandusky Counties,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

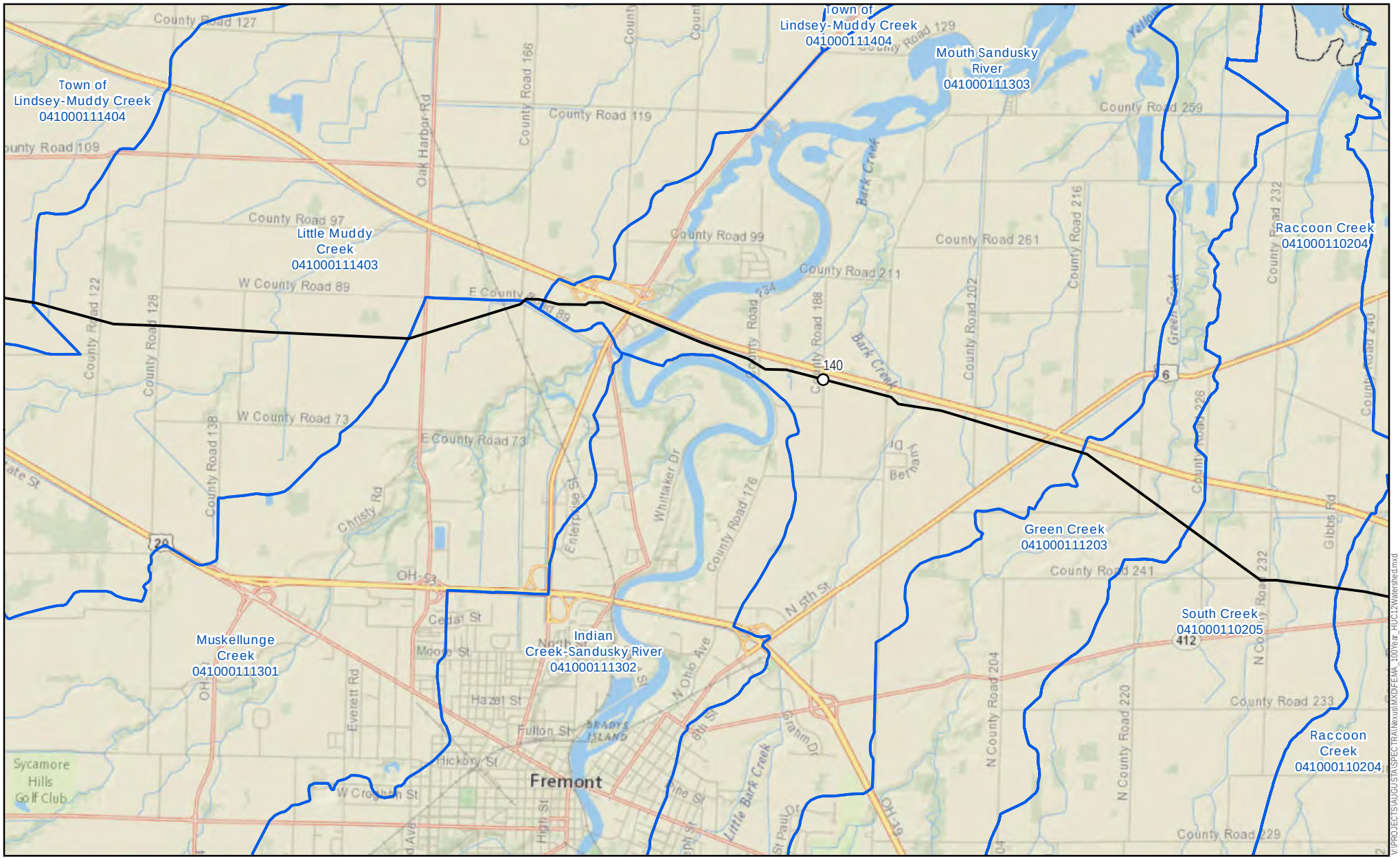


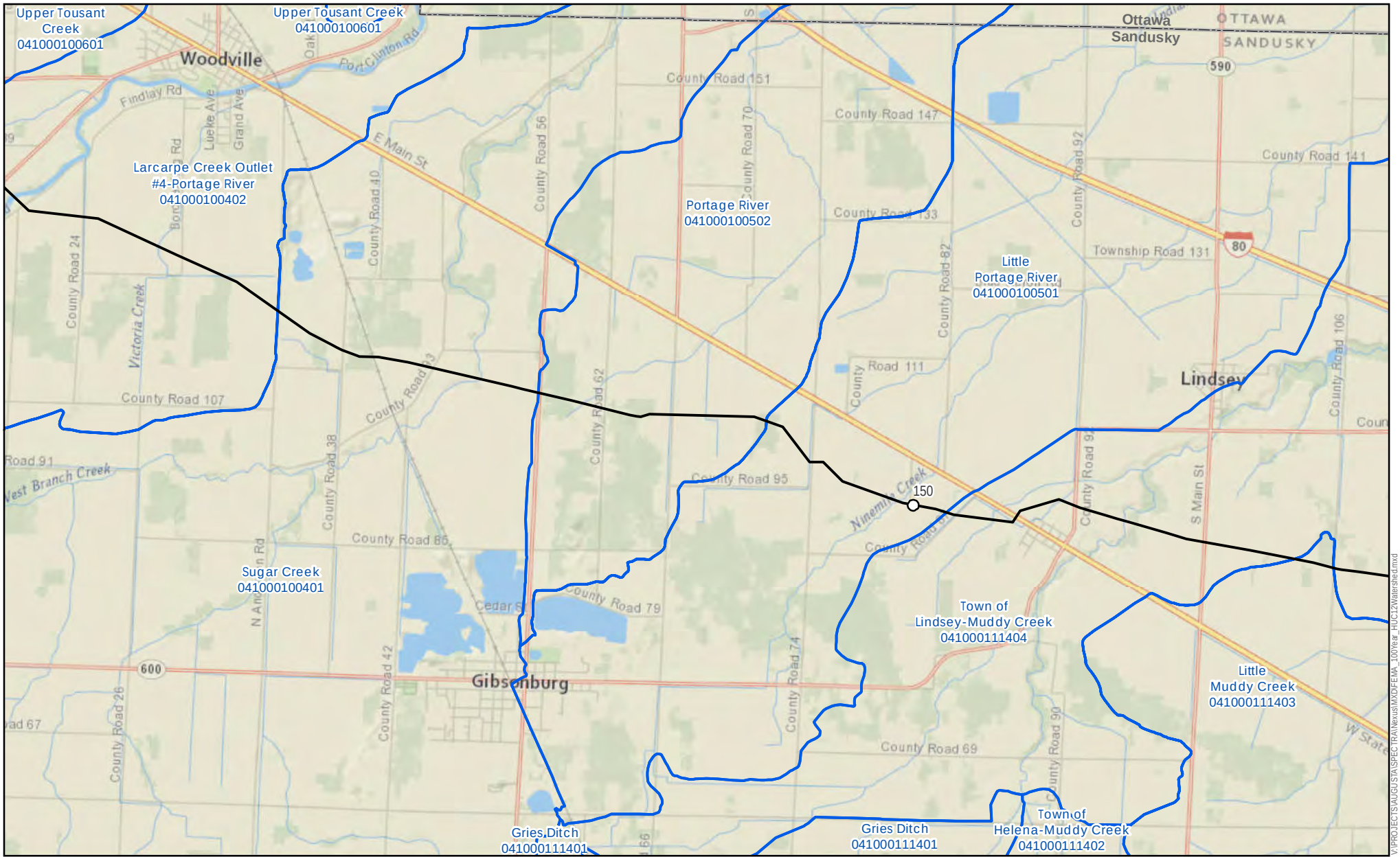

Figure 2.3-1

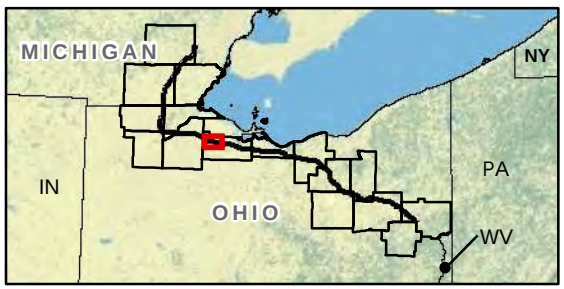
HUC-12 Watersheds
Crossed by the NEXUS Project

Erie and Sandusky Counties,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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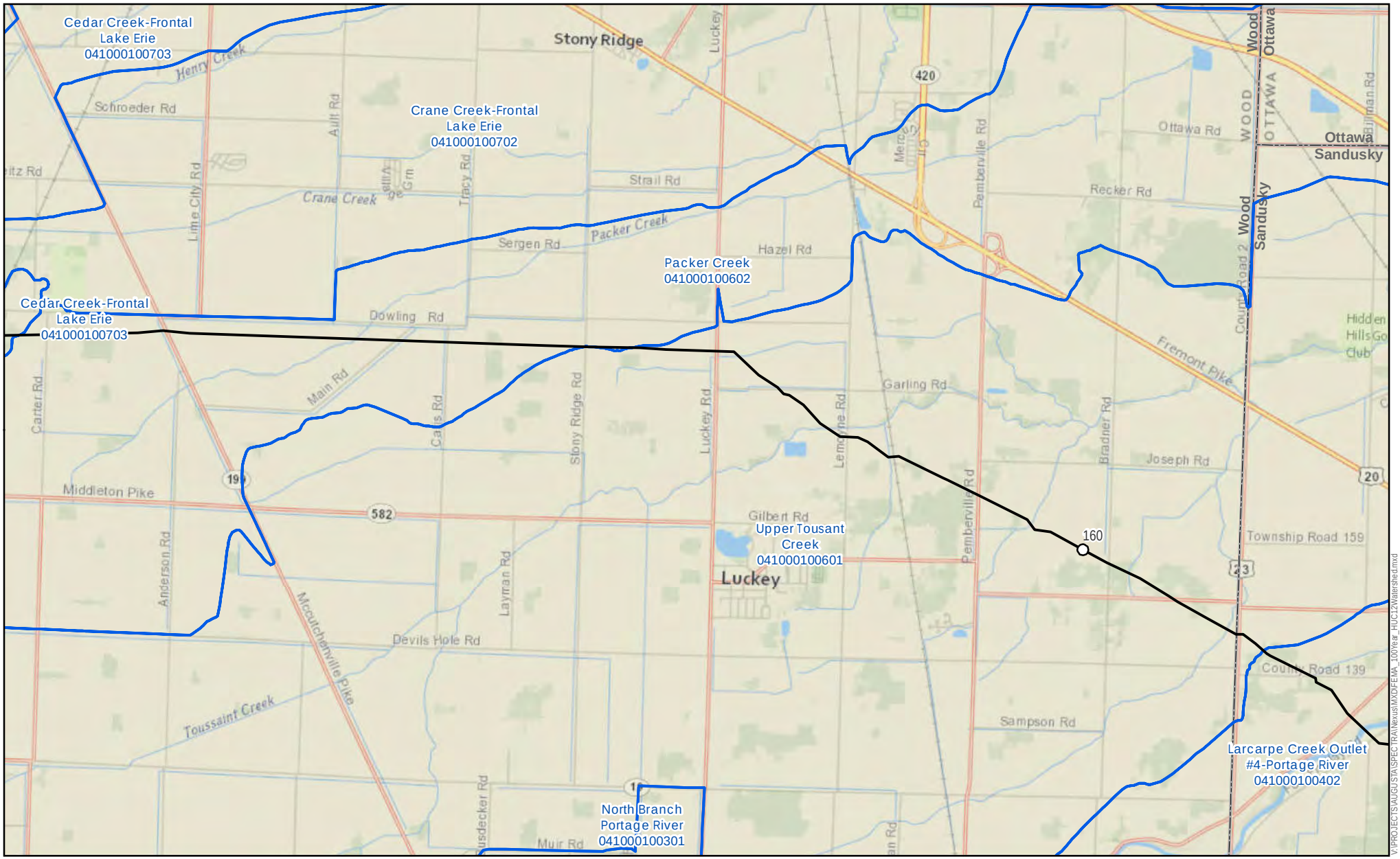
Figure 2.3-1

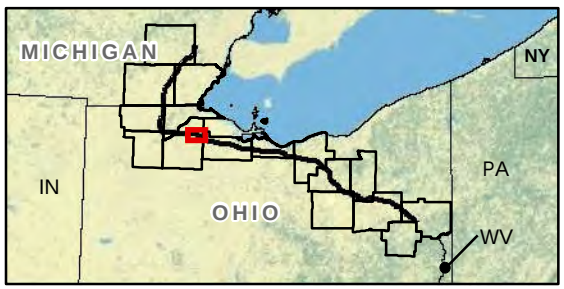
HUC-12 Watersheds
Crossed by the NEXUS Project

Sandusky County,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Sandusky and Wood Counties,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

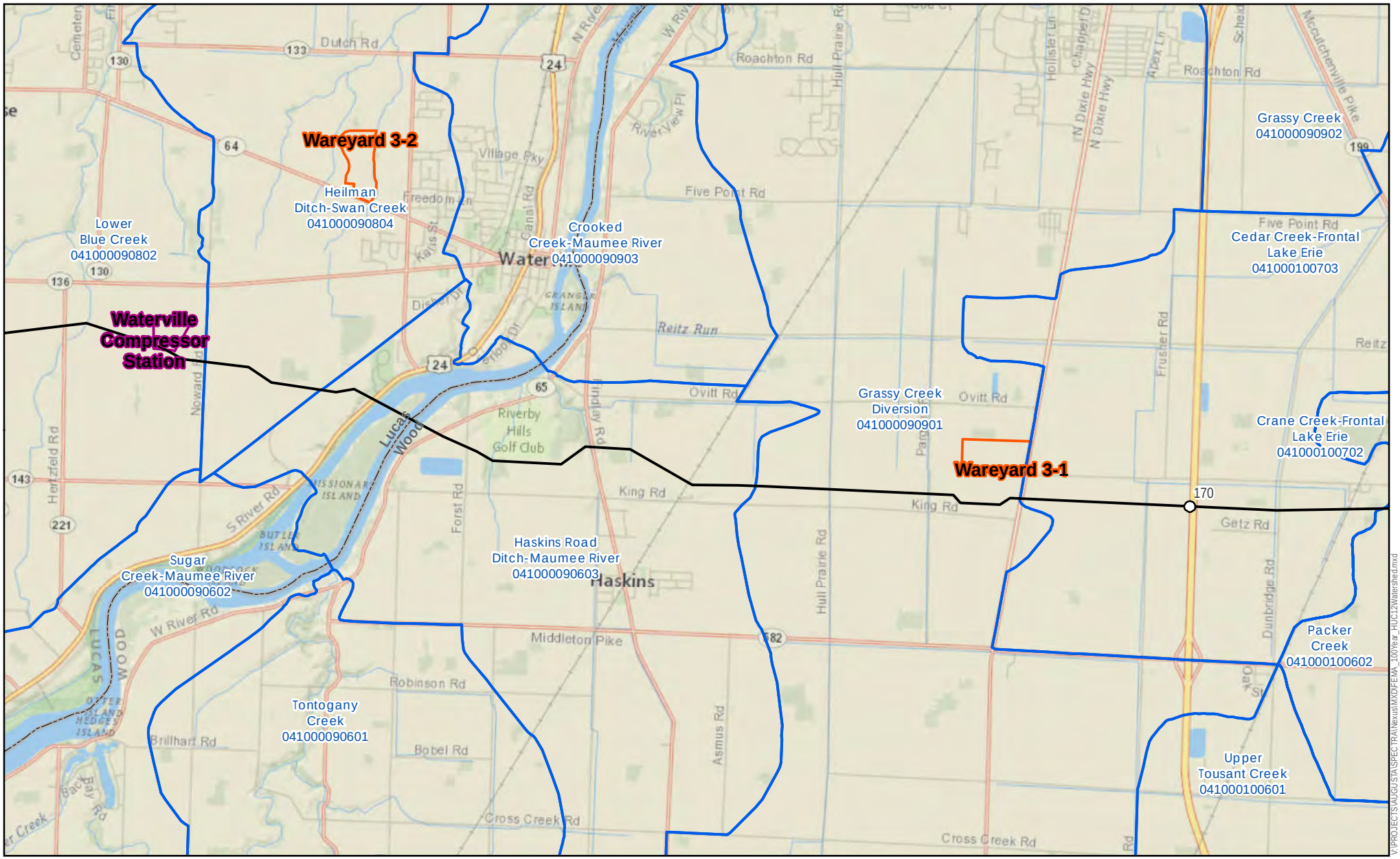


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Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Wood County,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

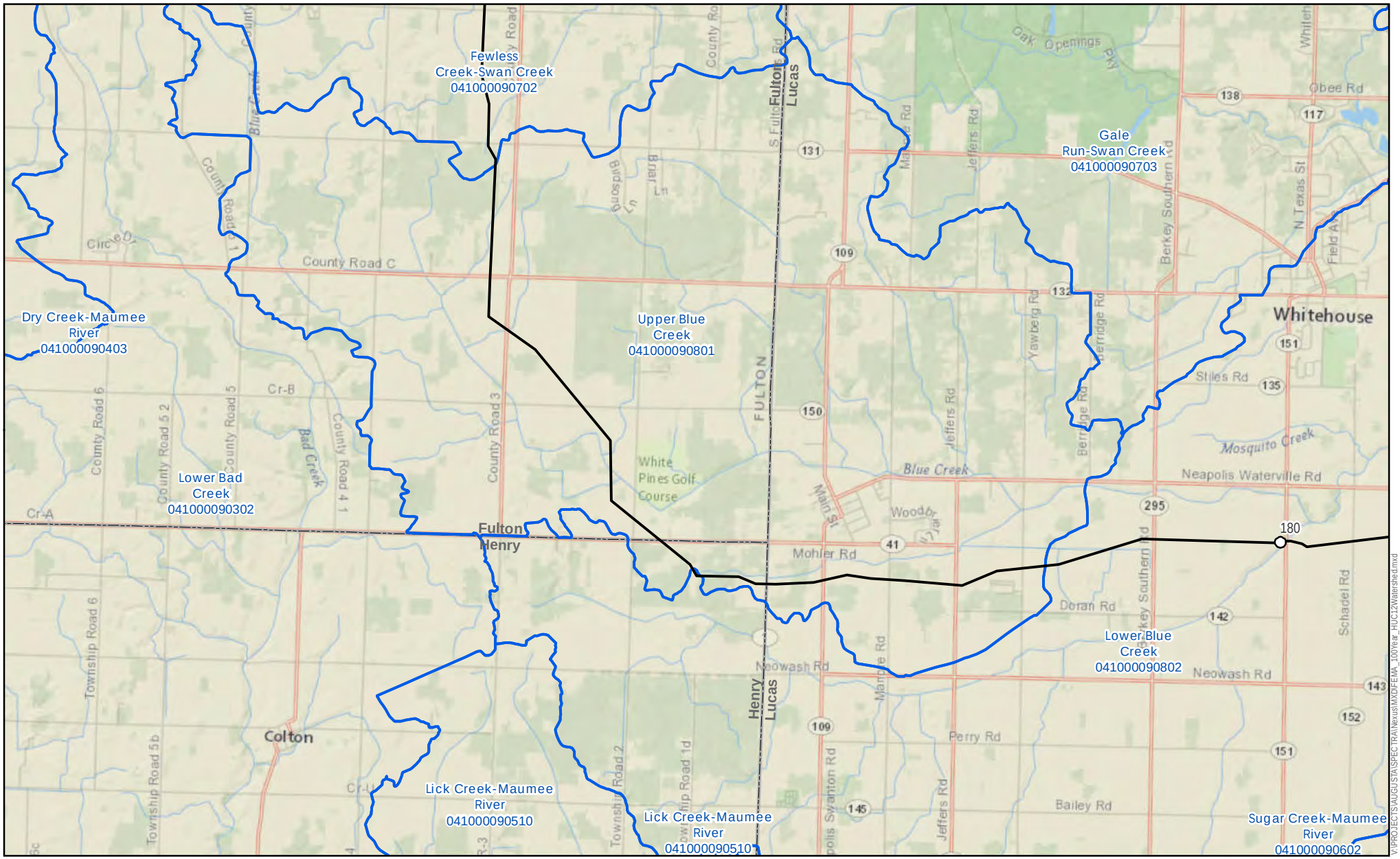



Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Lucas, Henry and Fulton Counties,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

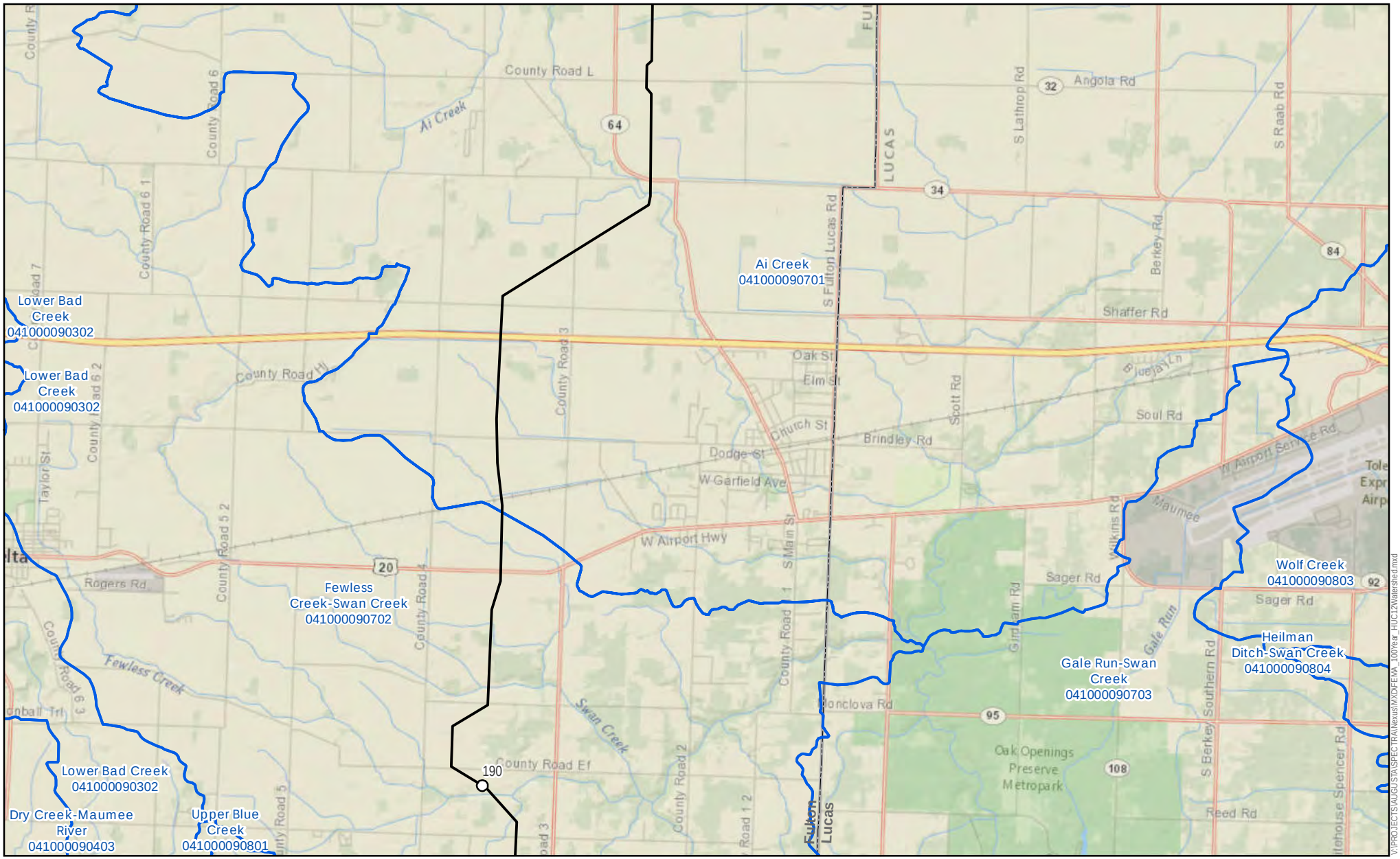


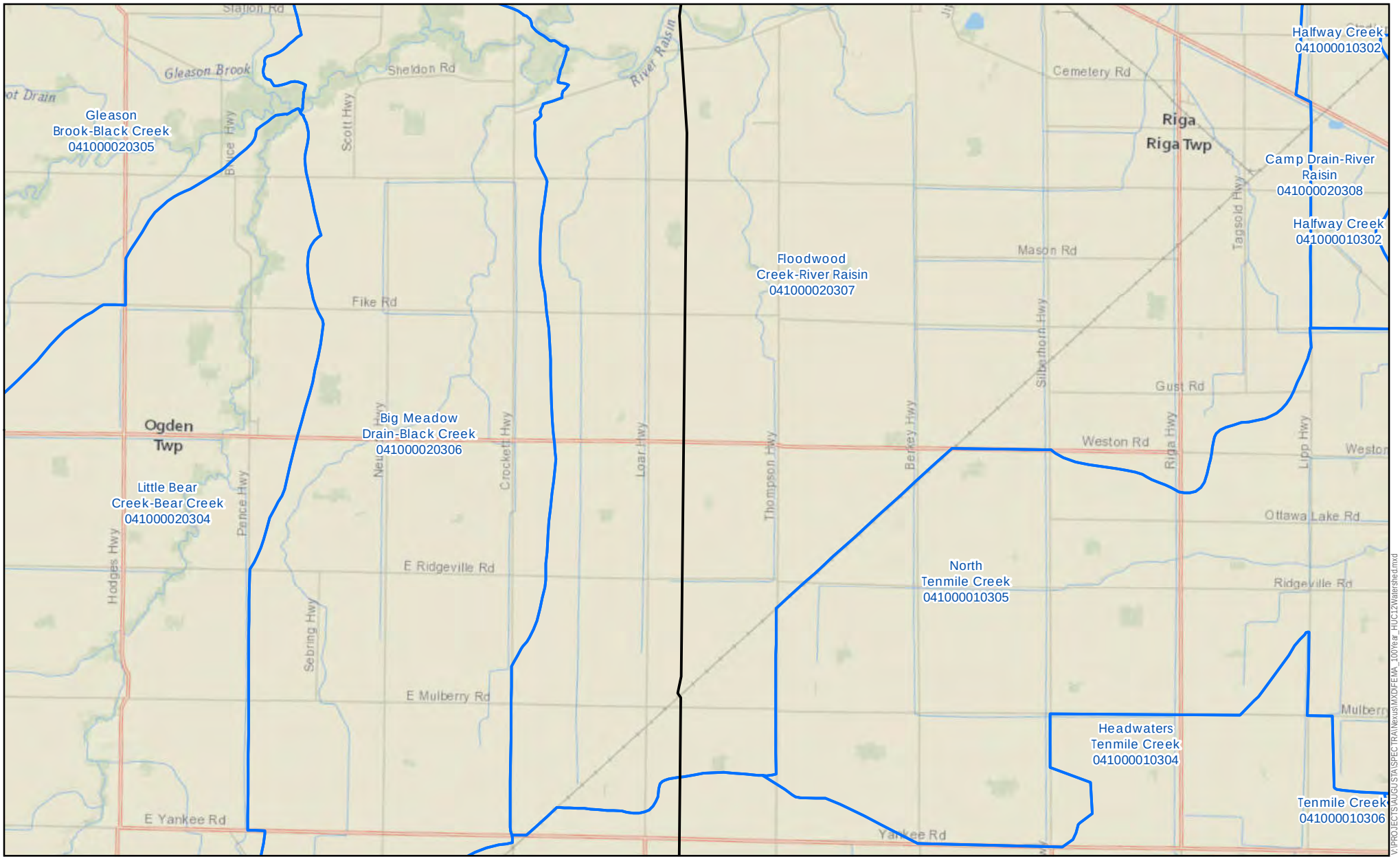

Figure 2.3-1

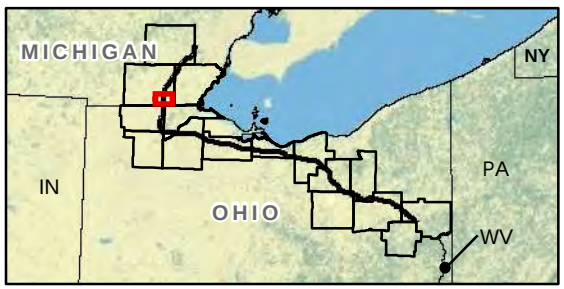
HUC-12 Watersheds
Crossed by the NEXUS Project

Fulton County,OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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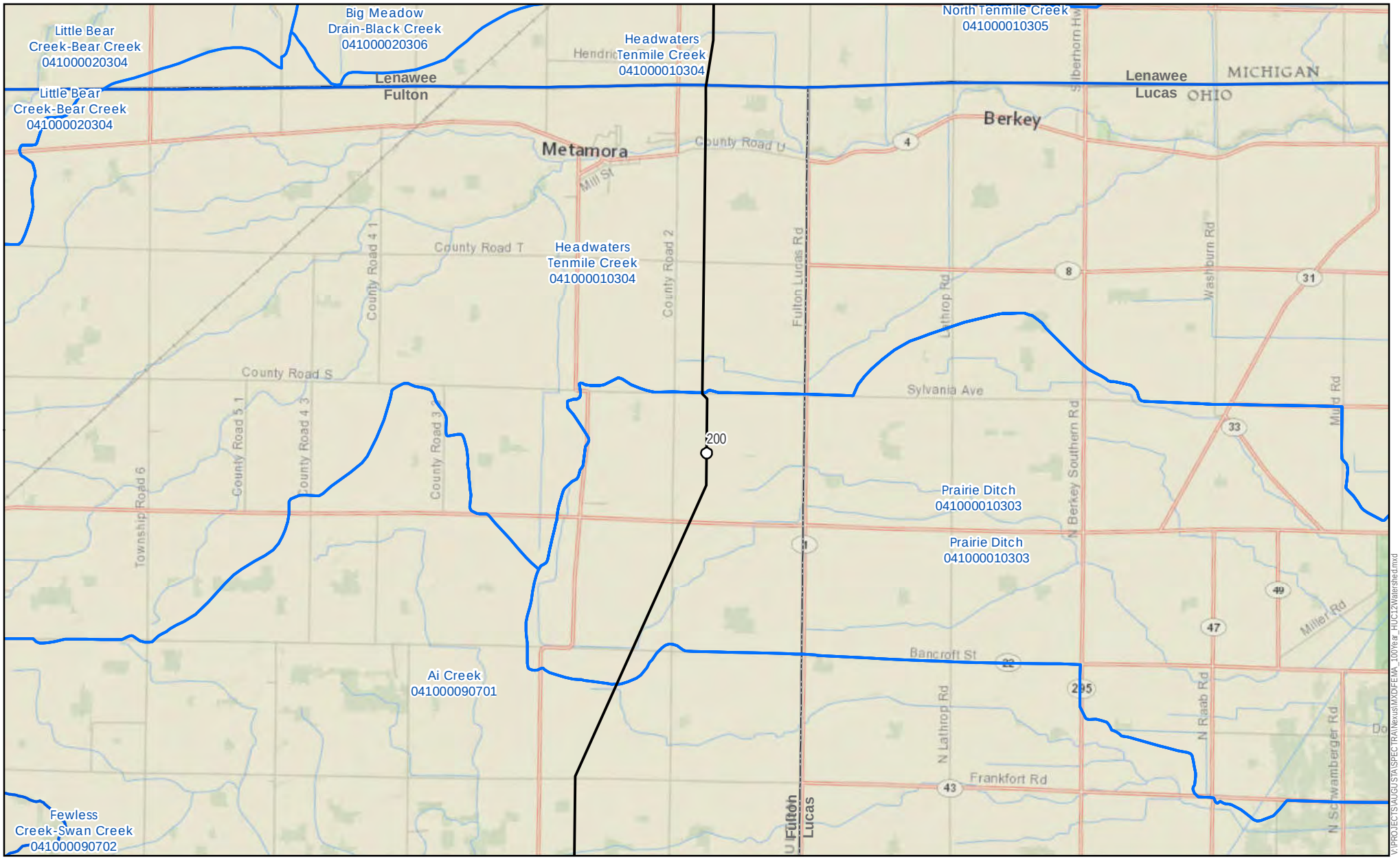
Figure 2.3-1

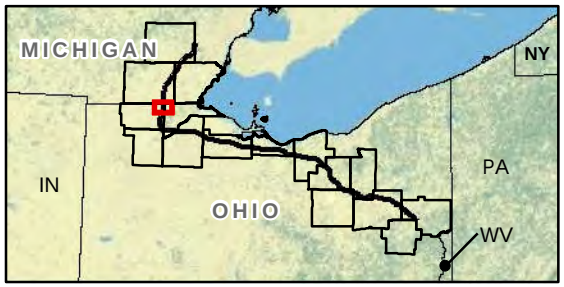
HUC-12 Watersheds
Crossed by the NEXUS Project

Lenawee County,MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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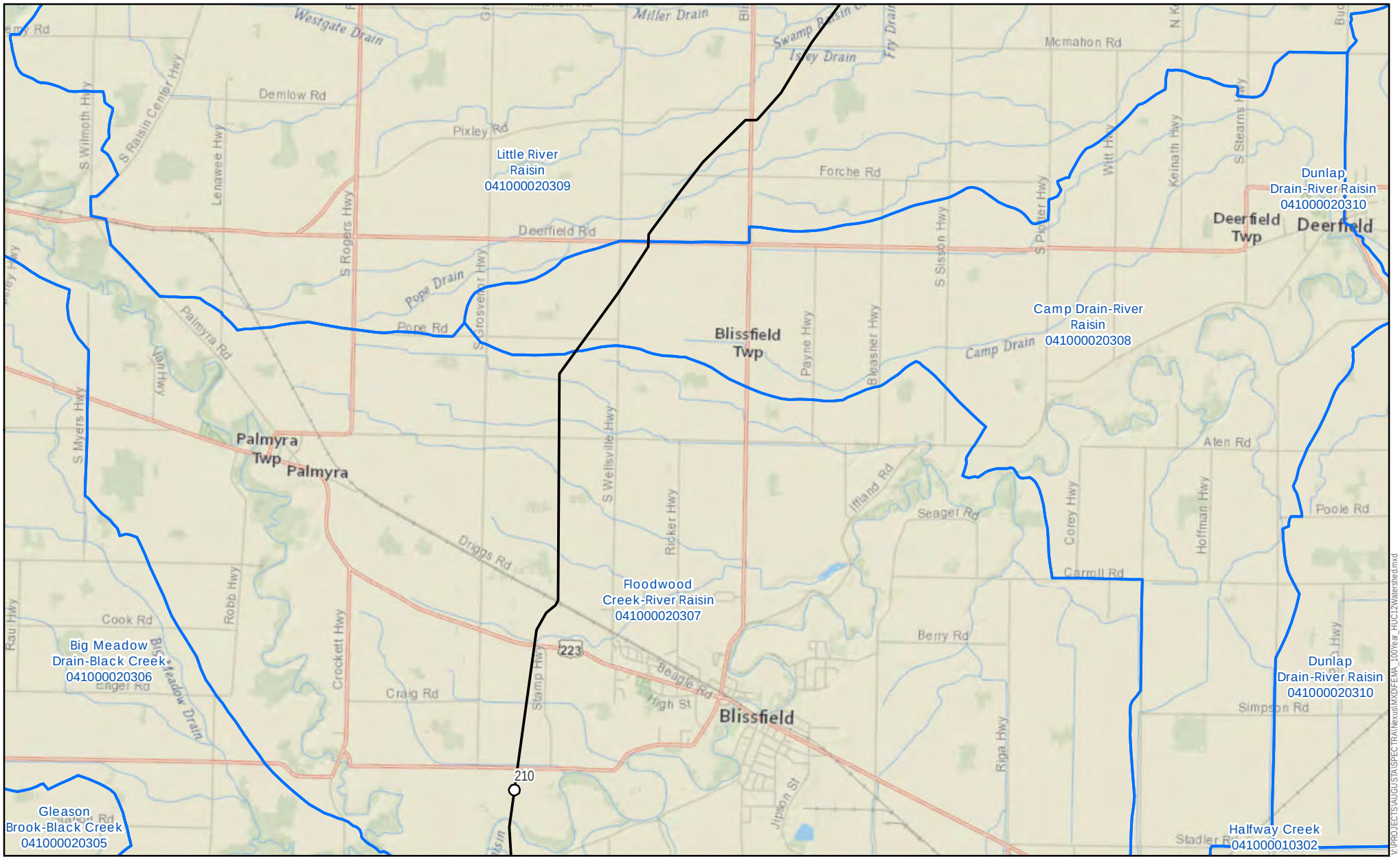
## Figure 2.3-1

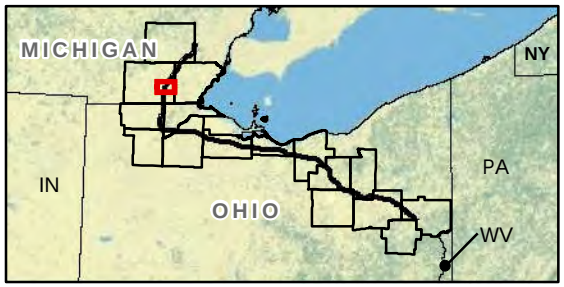
HUC-12 Watersheds
Crossed by the NEXUS Project

Lenawee County,MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Lenawee County,MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015

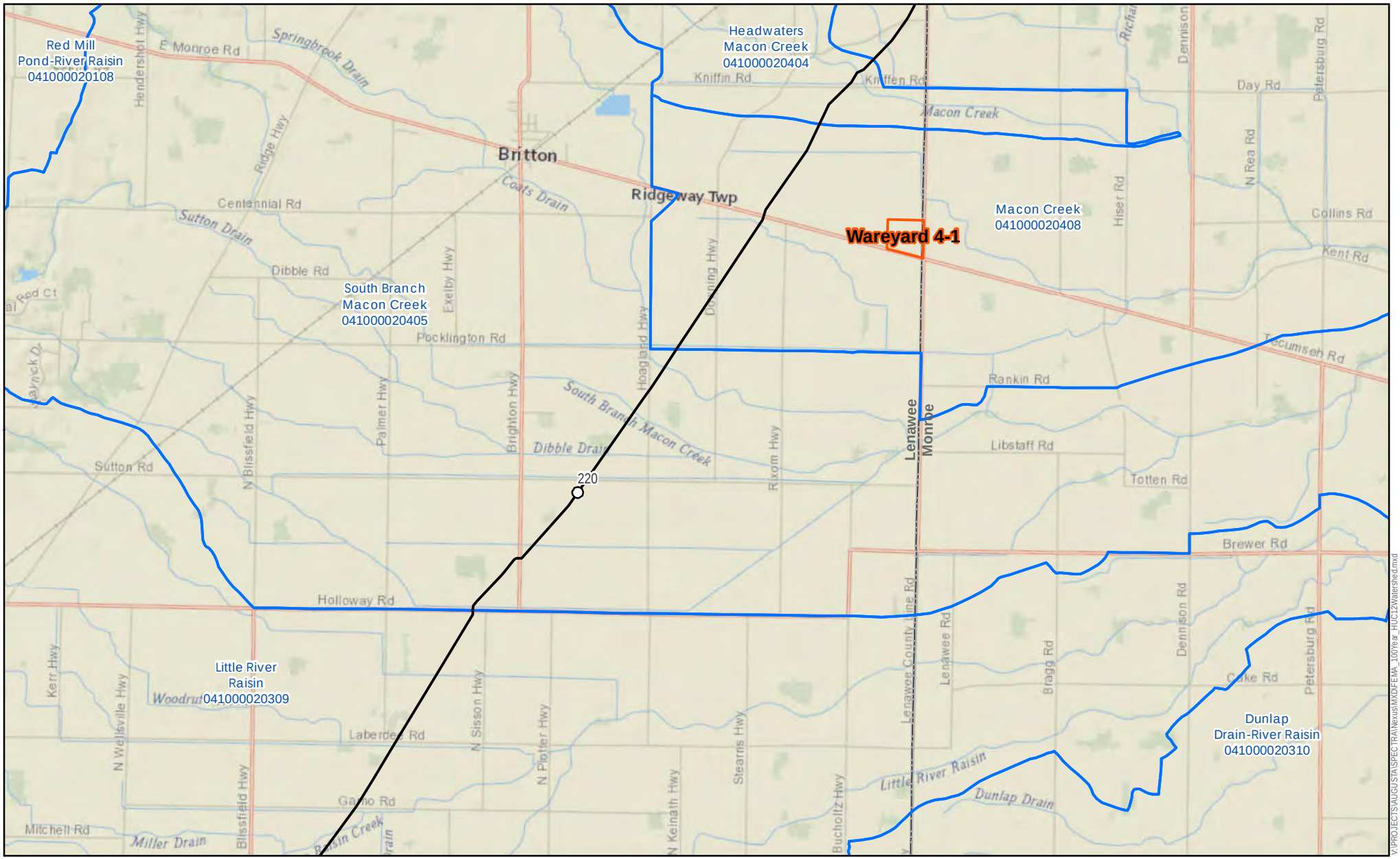


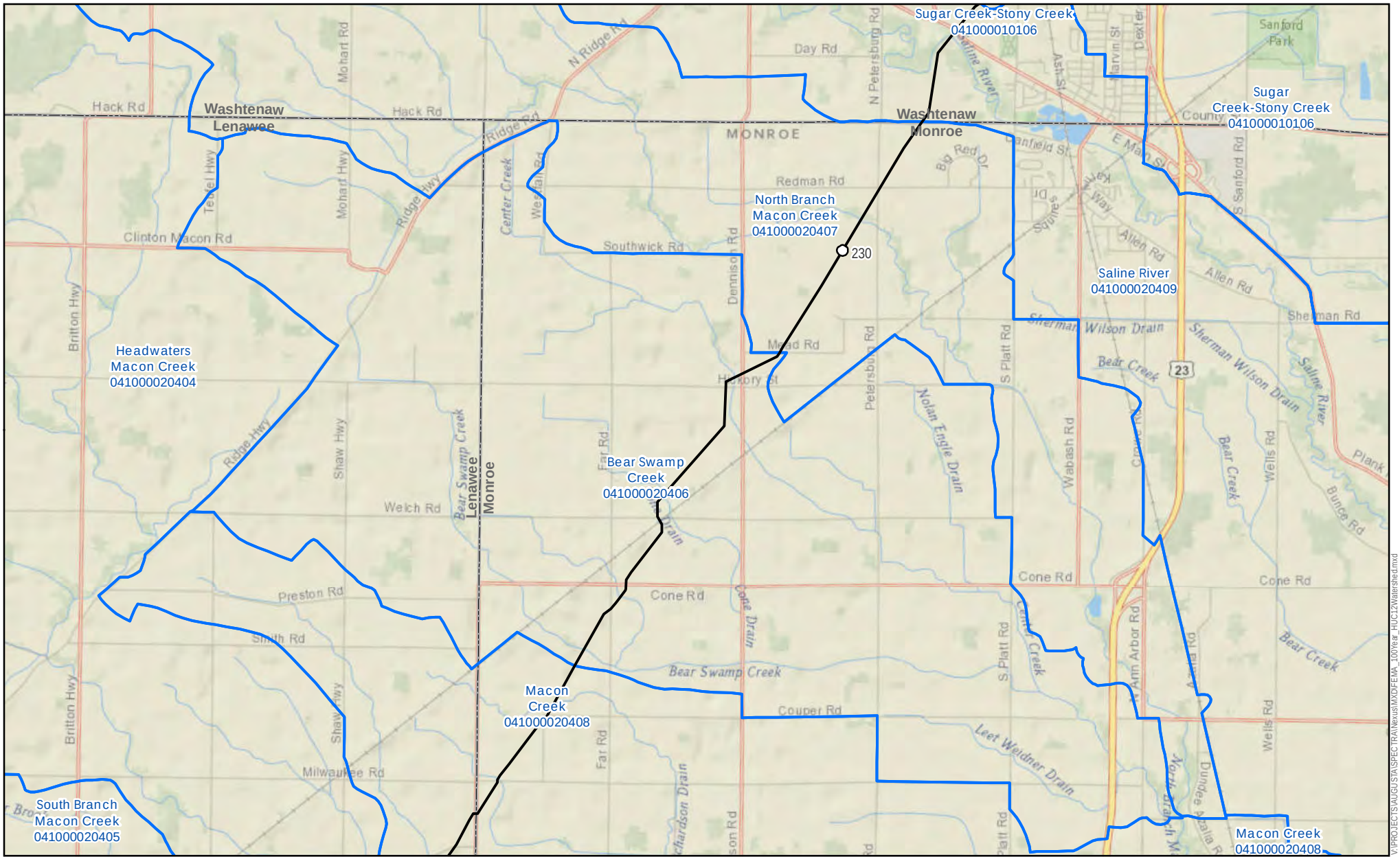

Figure 2.3-1

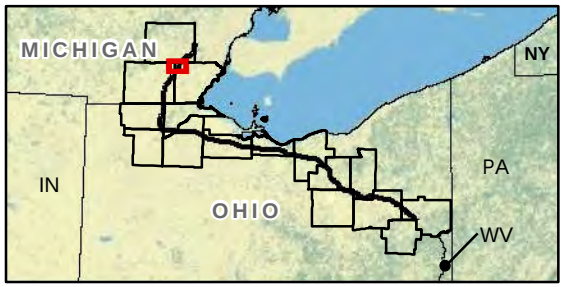
HUC-12 Watersheds
Crossed by the NEXUS Project

Lenawee County,MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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## Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Lenawee and Washtenaw Counties,MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015

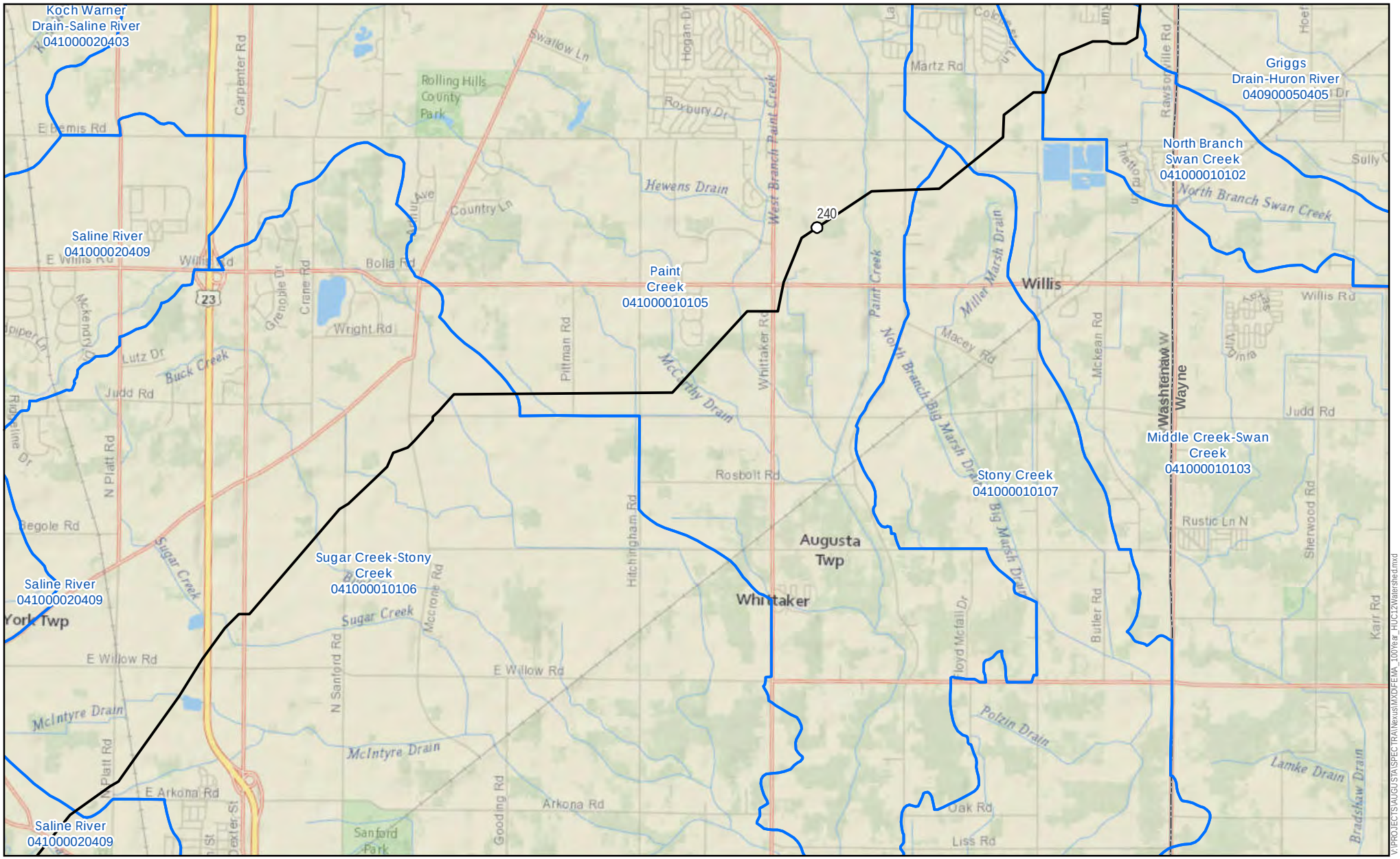


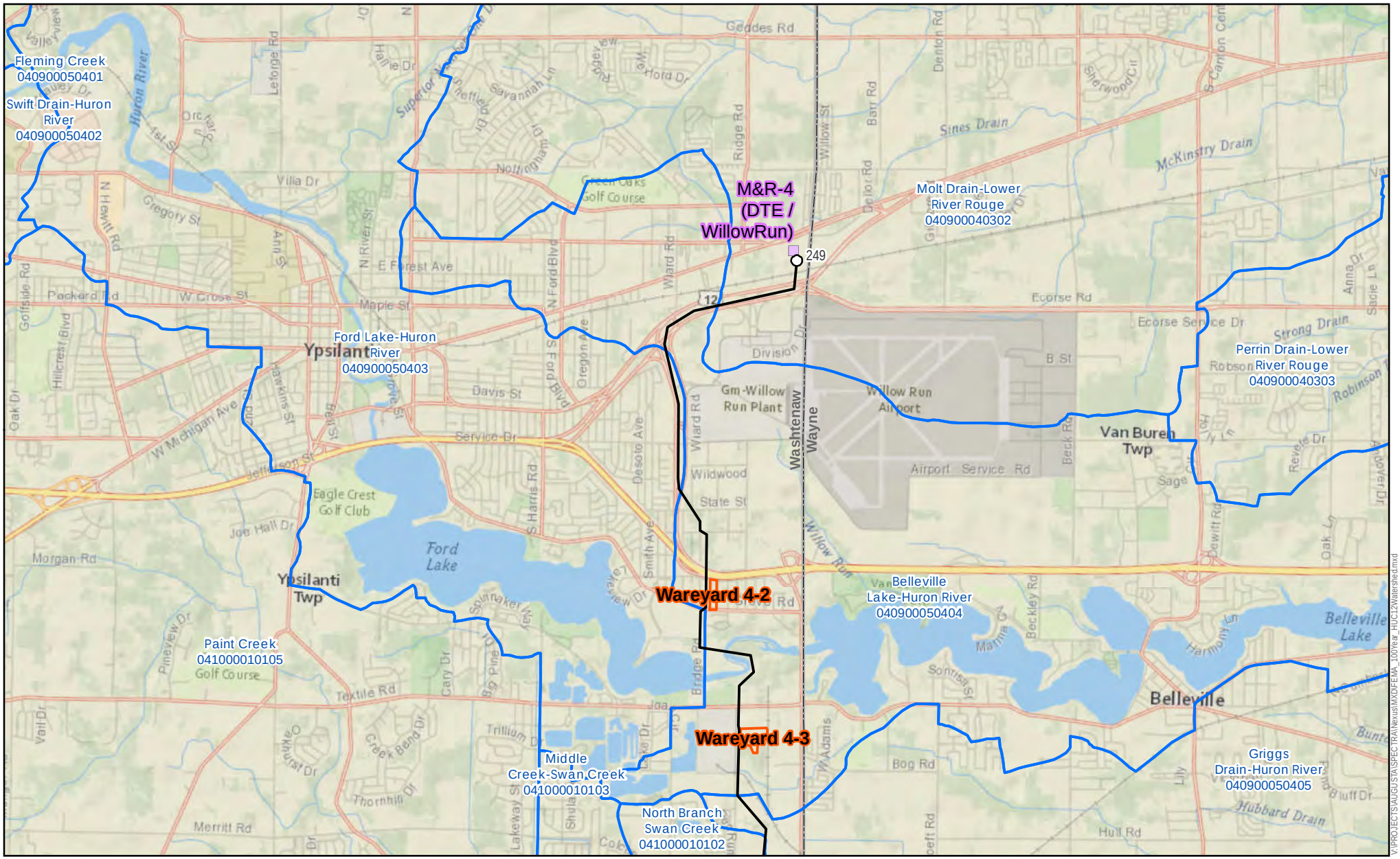

Figure 2.3-1

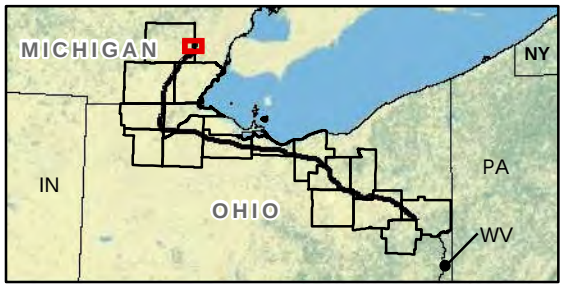
HUC-12 Watersheds
Crossed by the NEXUS Project

Washtenaw County,MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- HUC-12 Watersheds
- Wareyards
- Proposed Compressor Station Sites
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, USGS and TRC.

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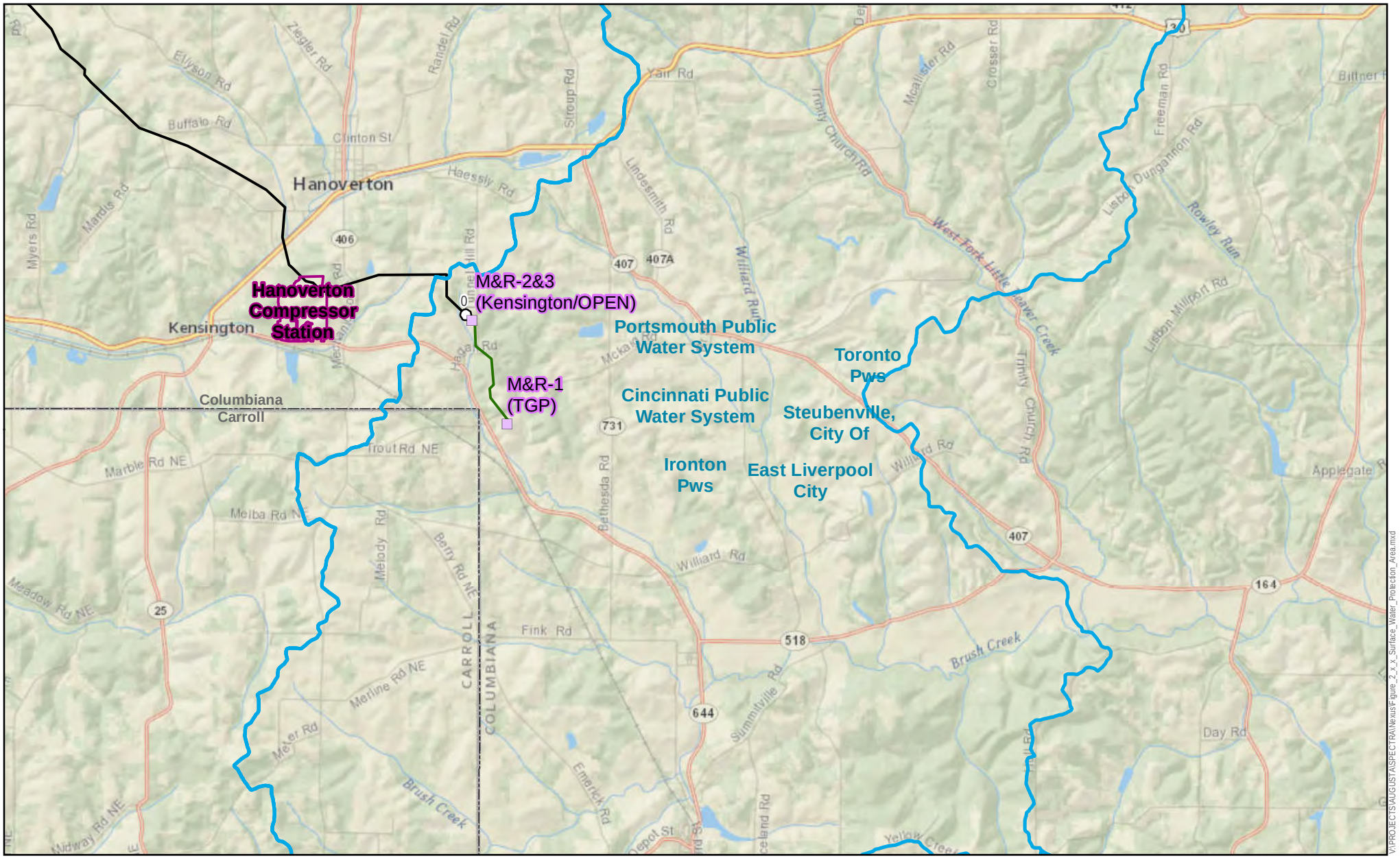
Figure 2.3-1

HUC-12 Watersheds
Crossed by the NEXUS Project

Washtenaw County,MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015





Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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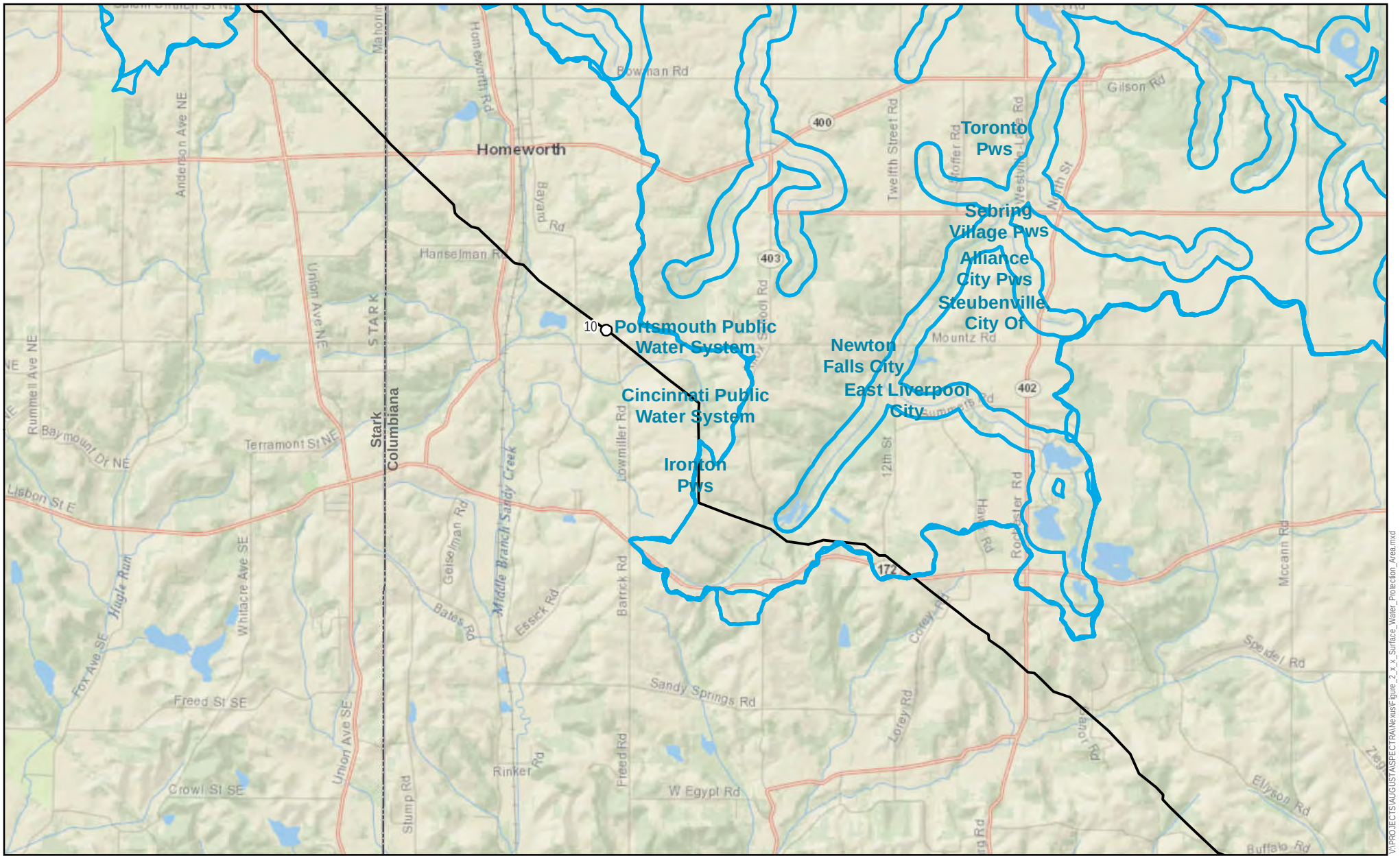
Figure 2.3-2

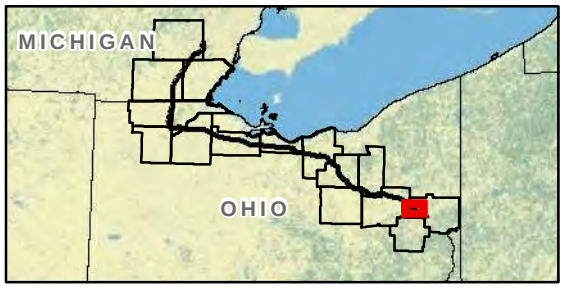
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Columbiana and Carroll Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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Figure 2.3-2

Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Columbiana and Stark Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

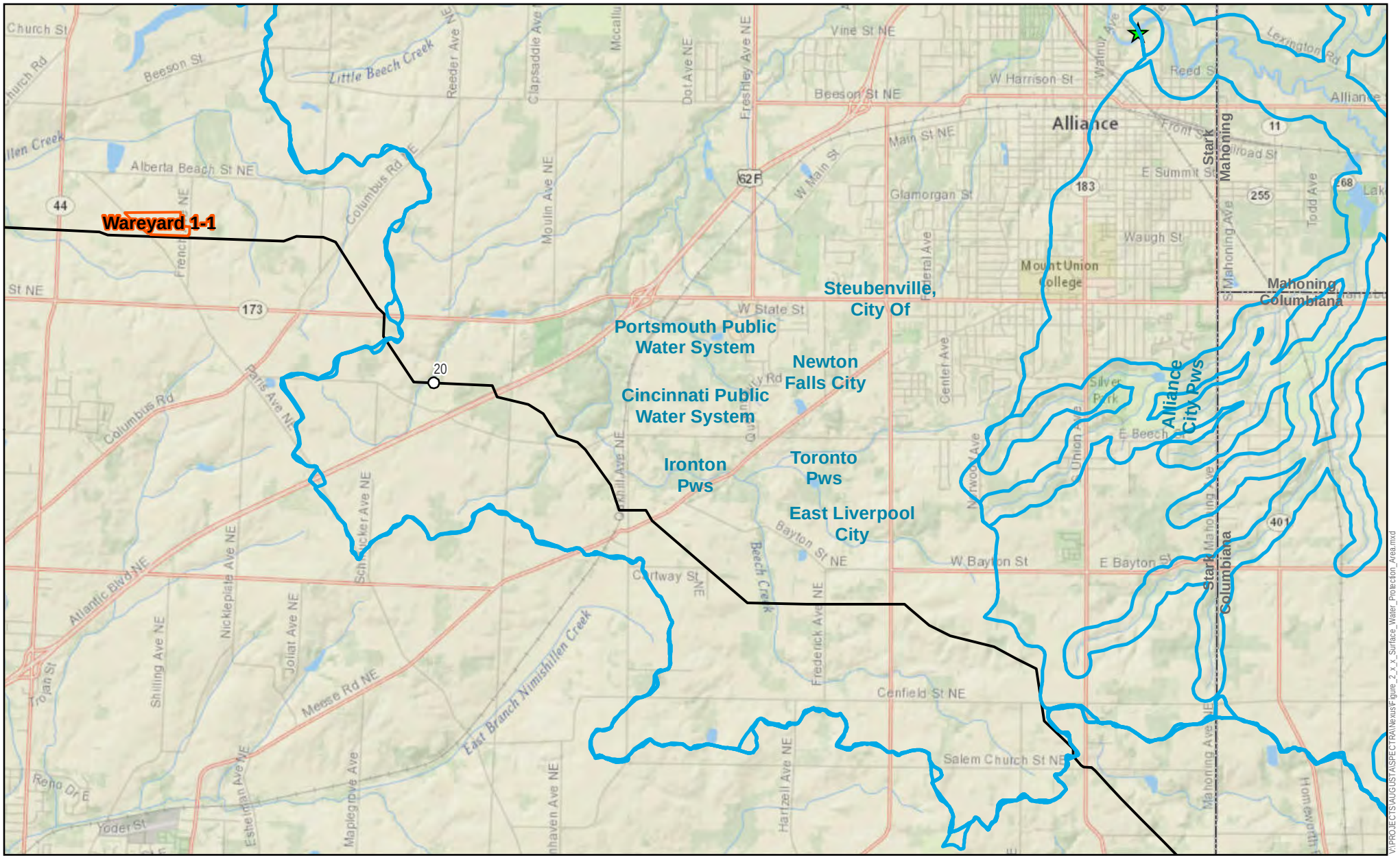



Figure 2.3-2

Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Stark County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

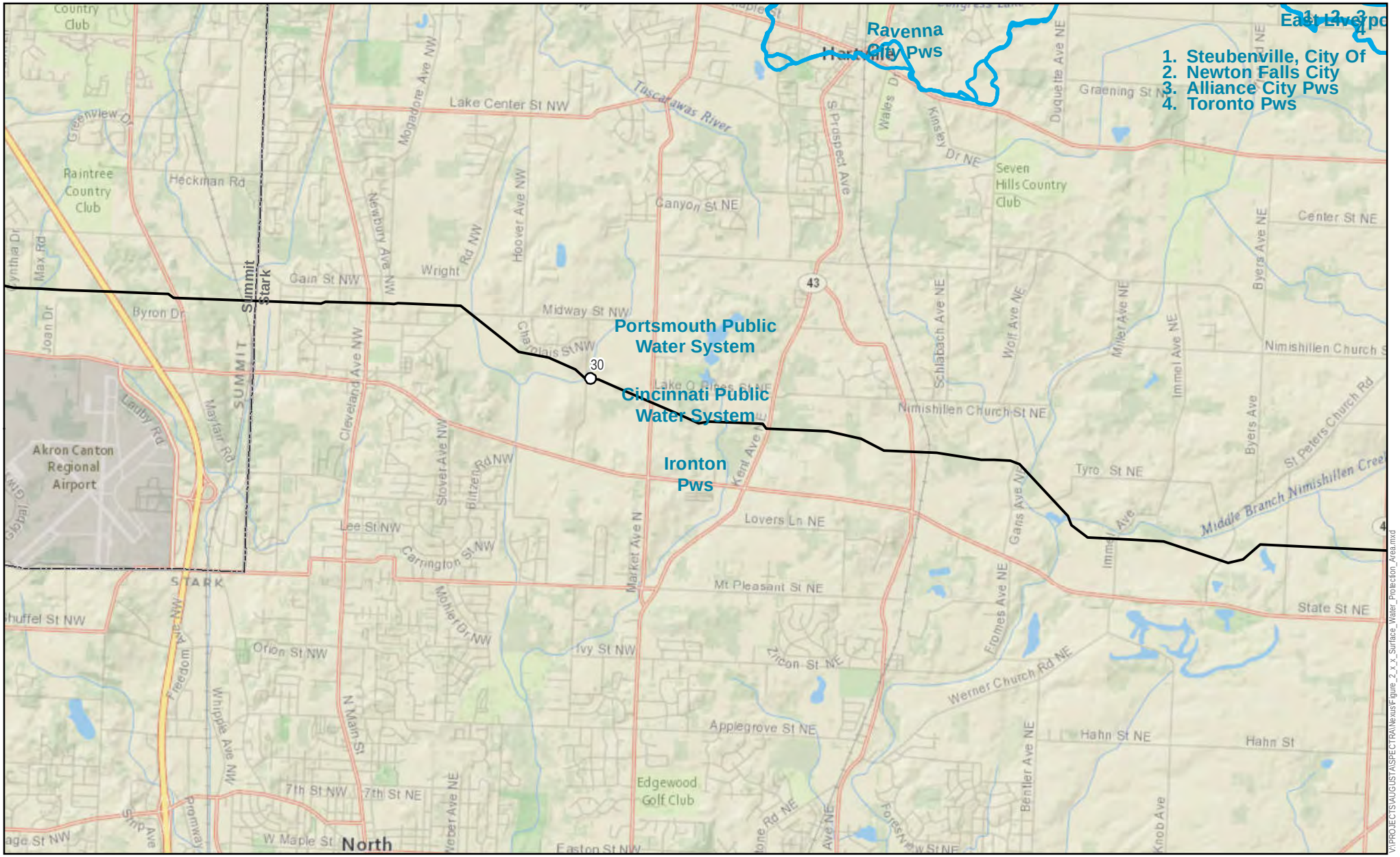


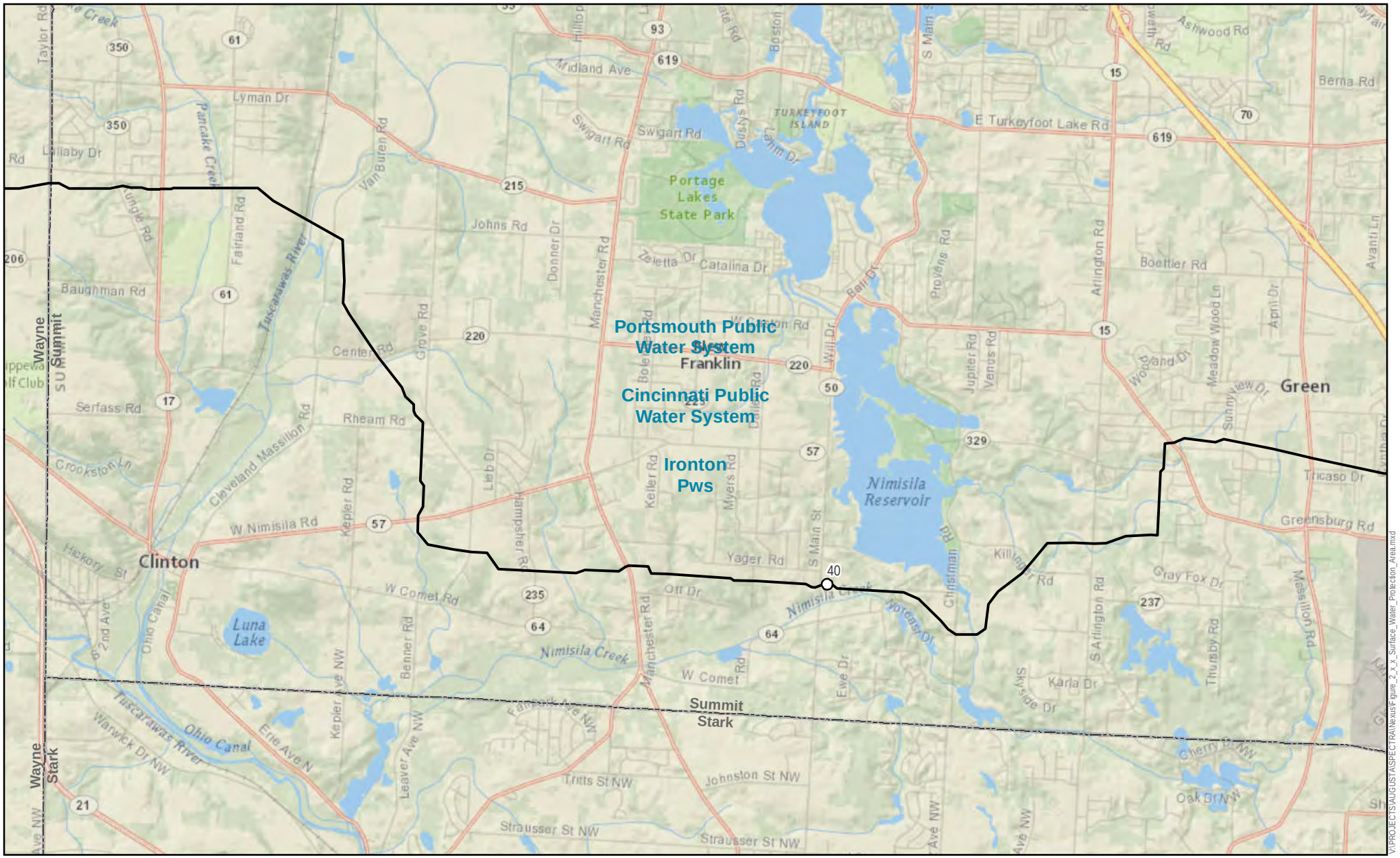

Figure 2.3-2

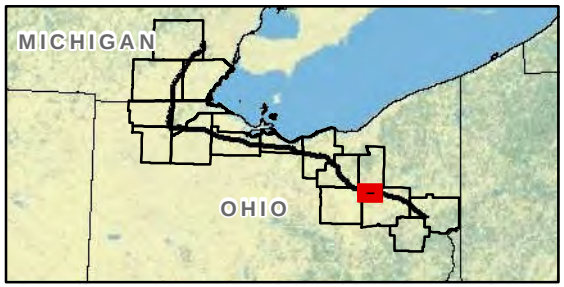
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Stark and Summit Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

0 1 2
Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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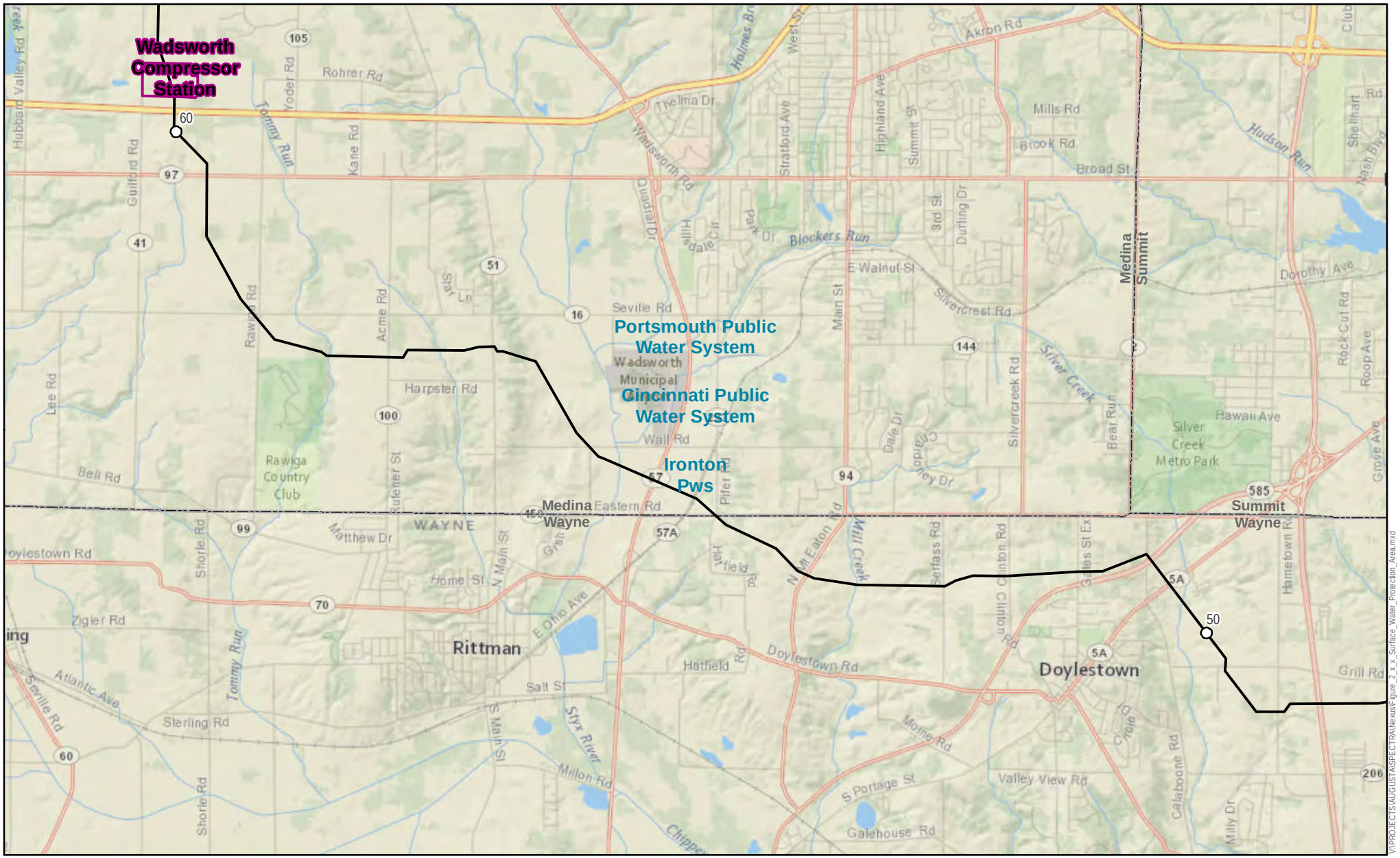
Figure 2.3-2

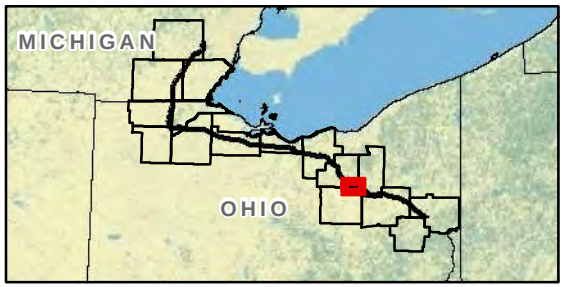
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Summit and Wayne Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

V:\PROJECTS\AUGUSTA\SPECTRA\Nexus\Figure_2_x_x_Surface_Water_Protection_Area.mxd

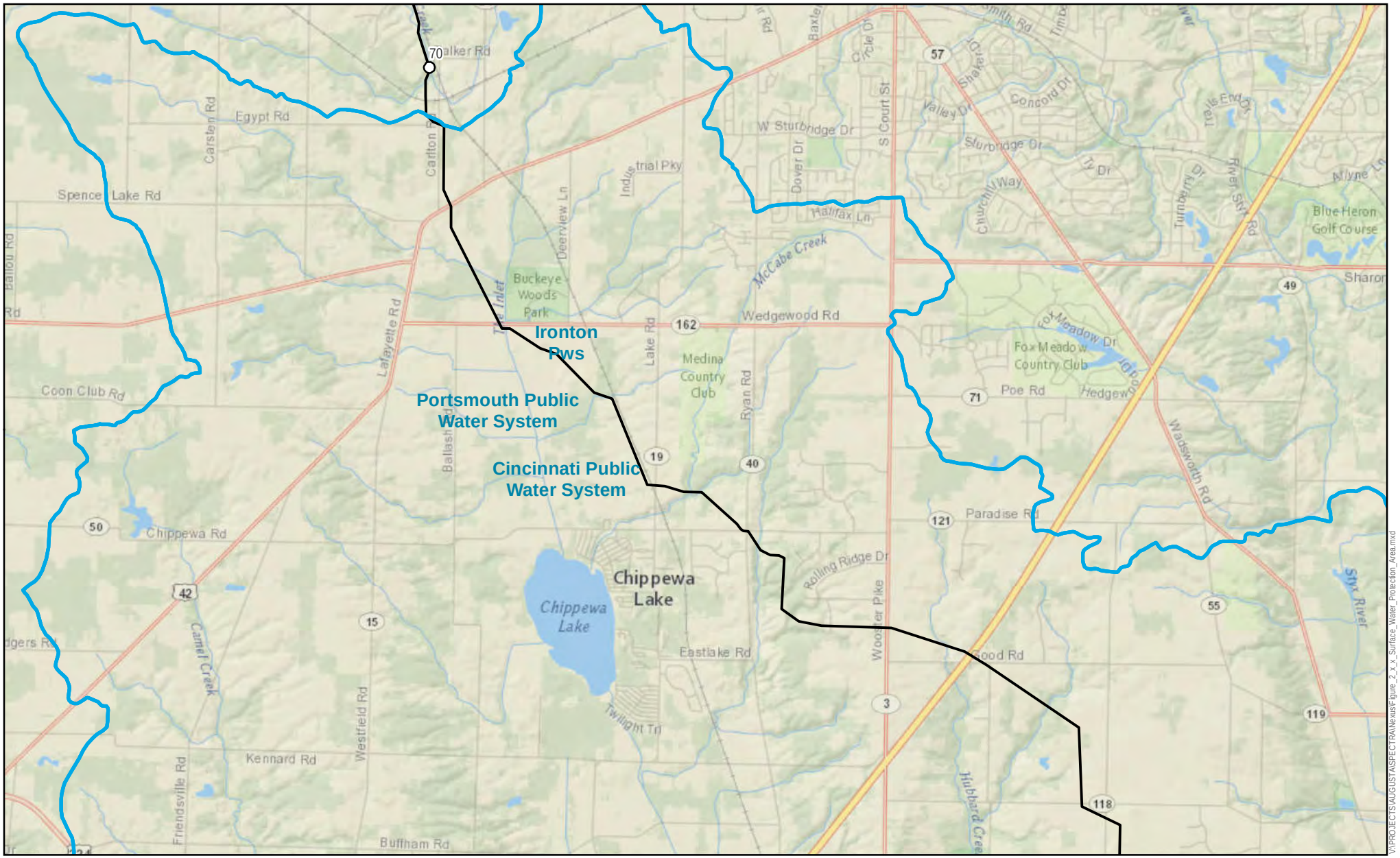
Figure 2.3-2

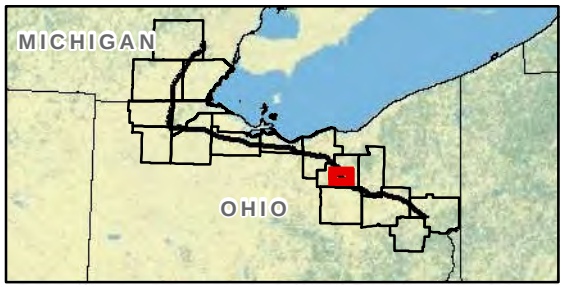
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Medina and Wayne Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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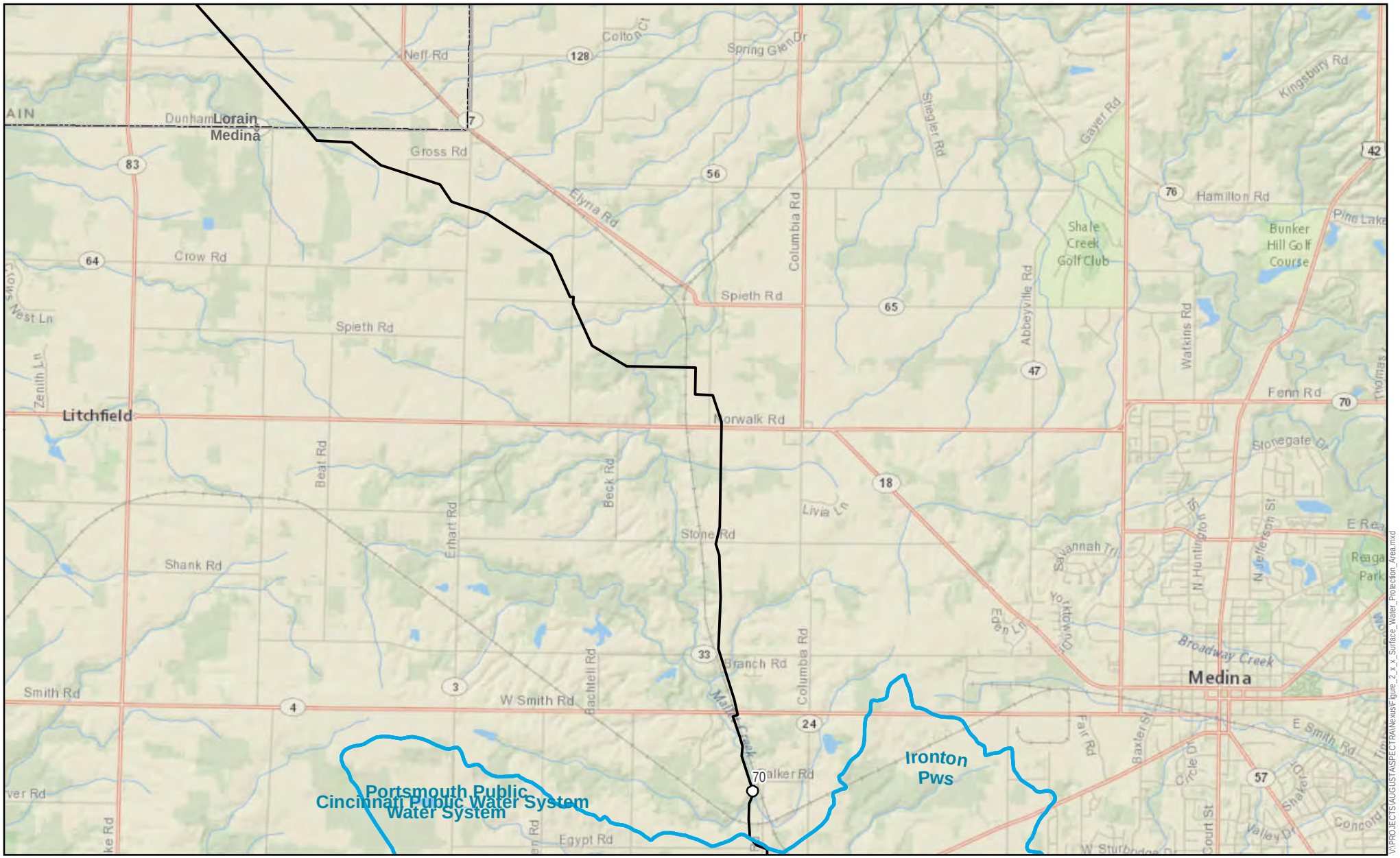
Figure 2.3-2

Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Medina County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

0 1 2
Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

V:\PROJECTS\AUGUSTA\SPECTRA\Nexus\Figure_2_x_x_Surface_Water_Protection_Area.mxd

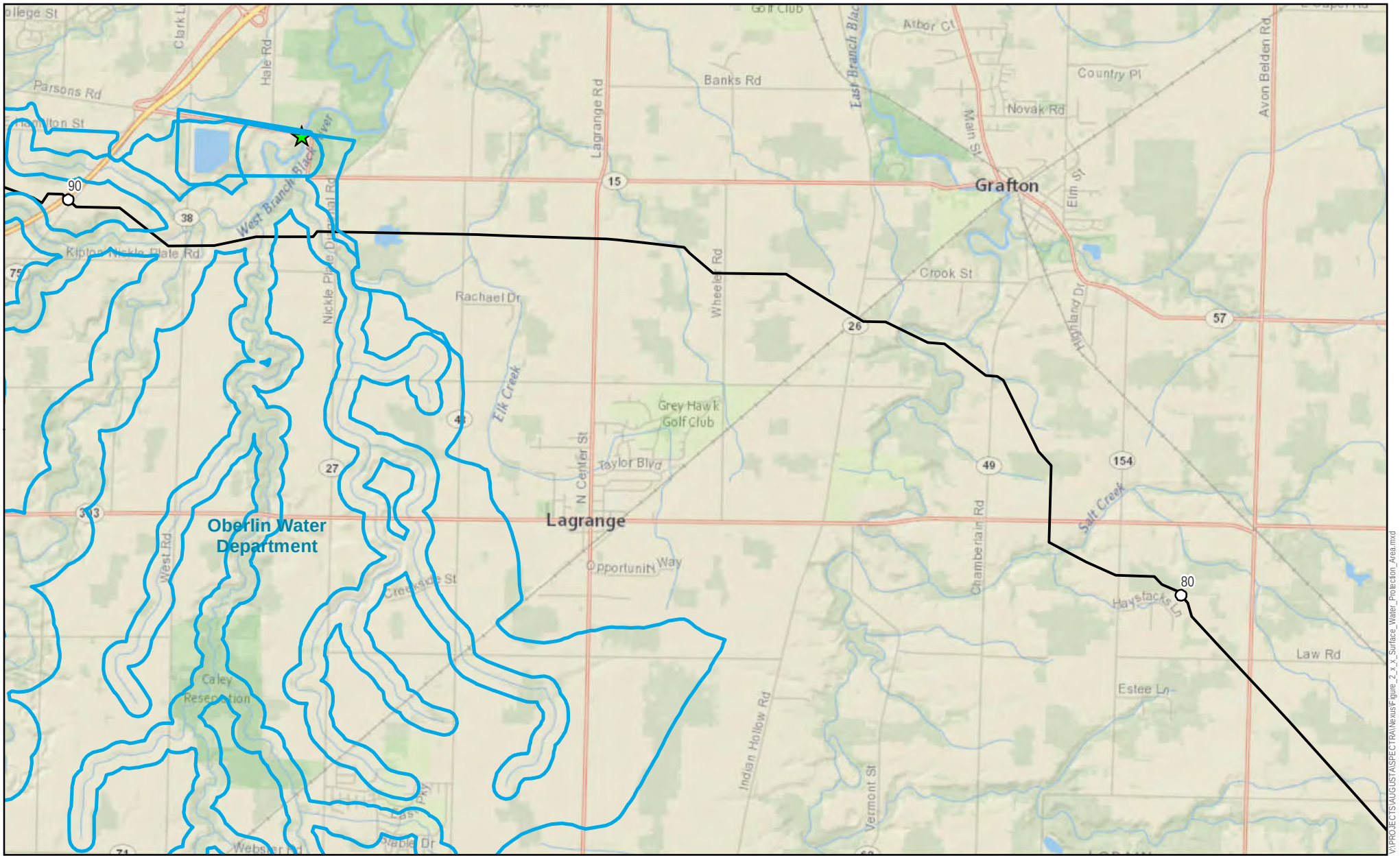
Figure 2.3-2

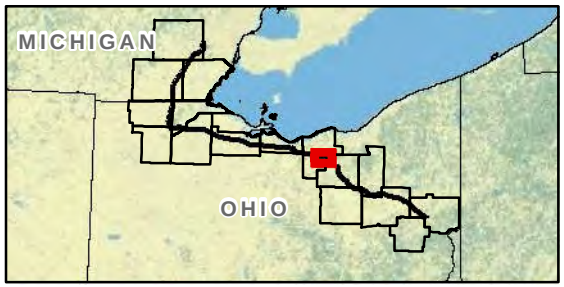
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Medina County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

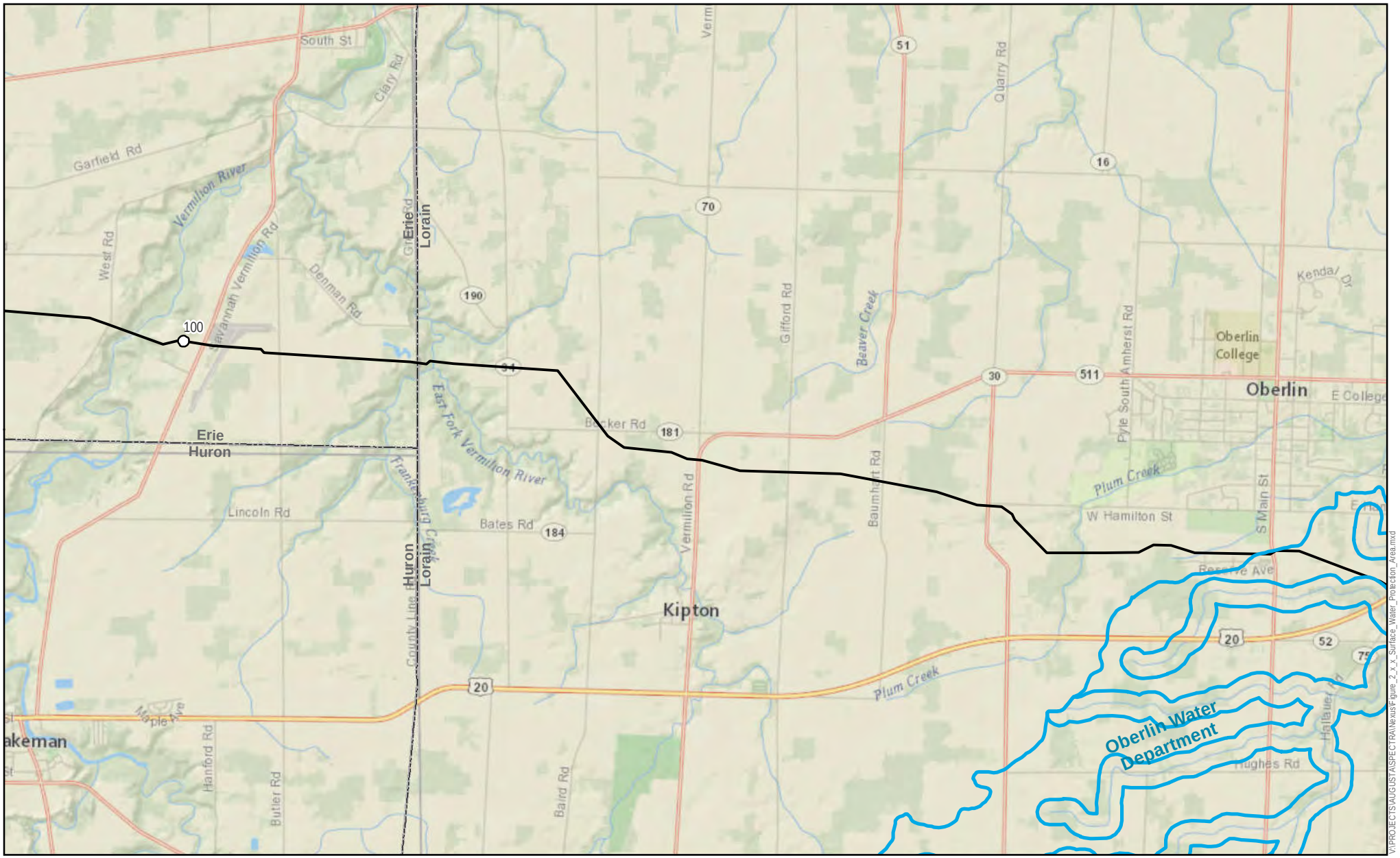
Figure 2.3-2

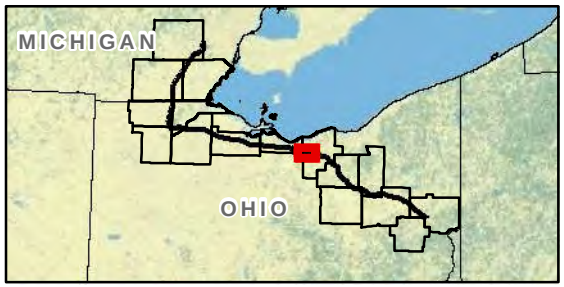
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Lorain County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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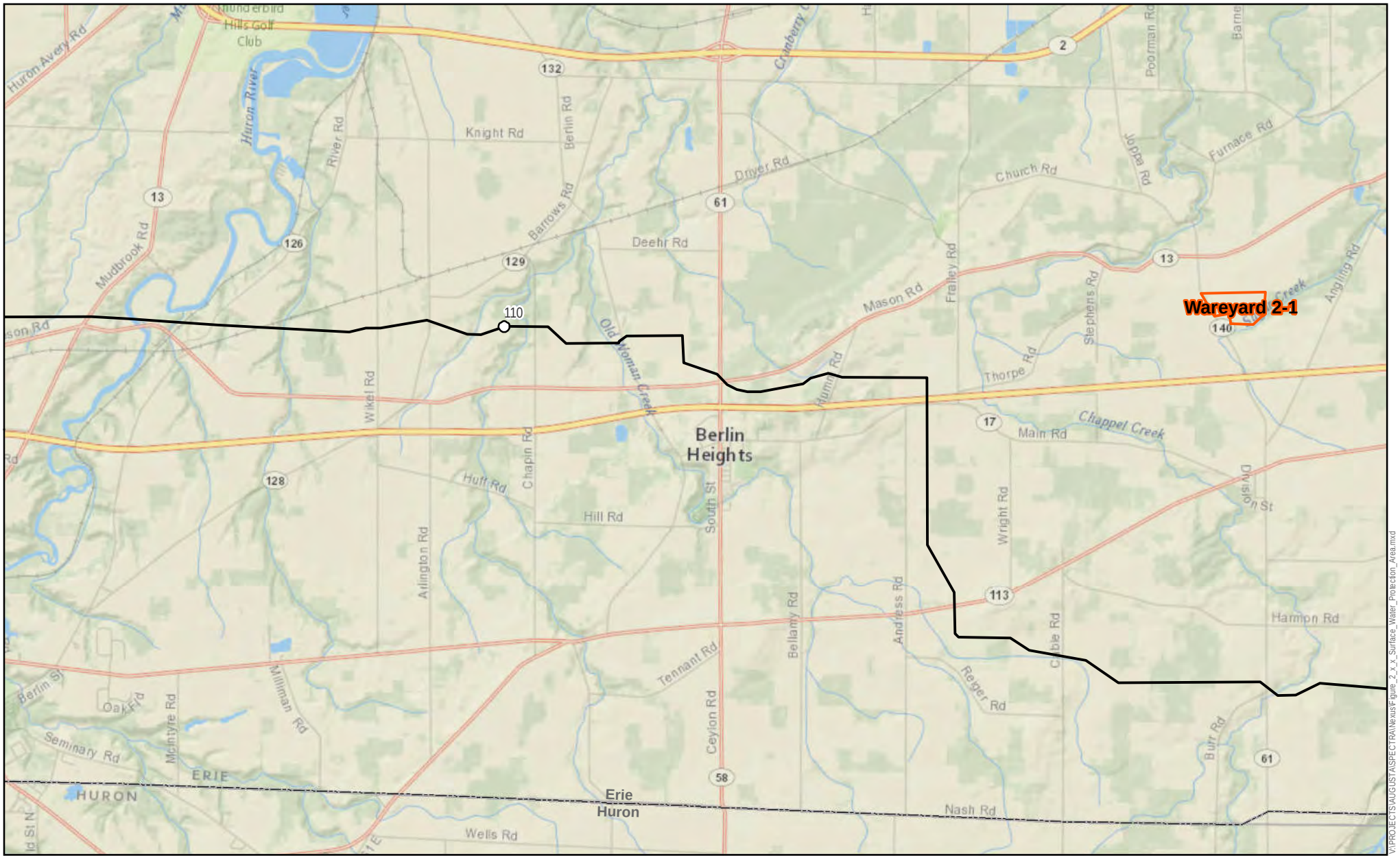
Figure 2.3-2

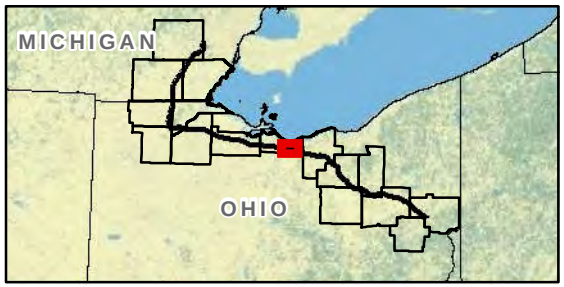
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Lorain and Erie Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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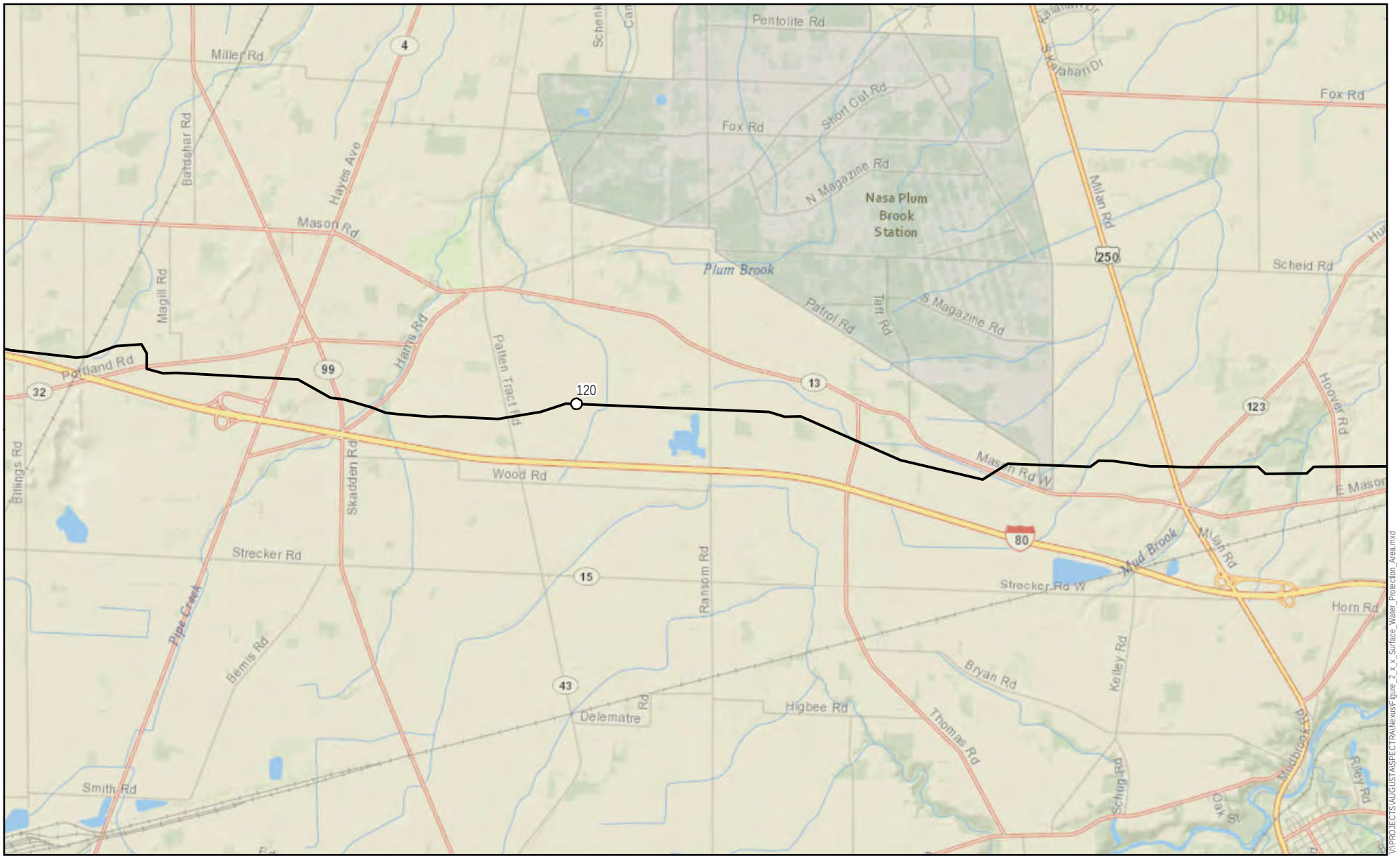
Figure 2.3-2

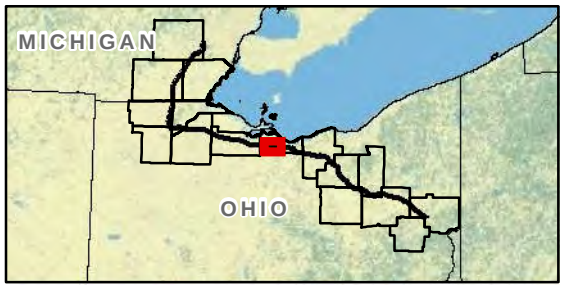
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Erie County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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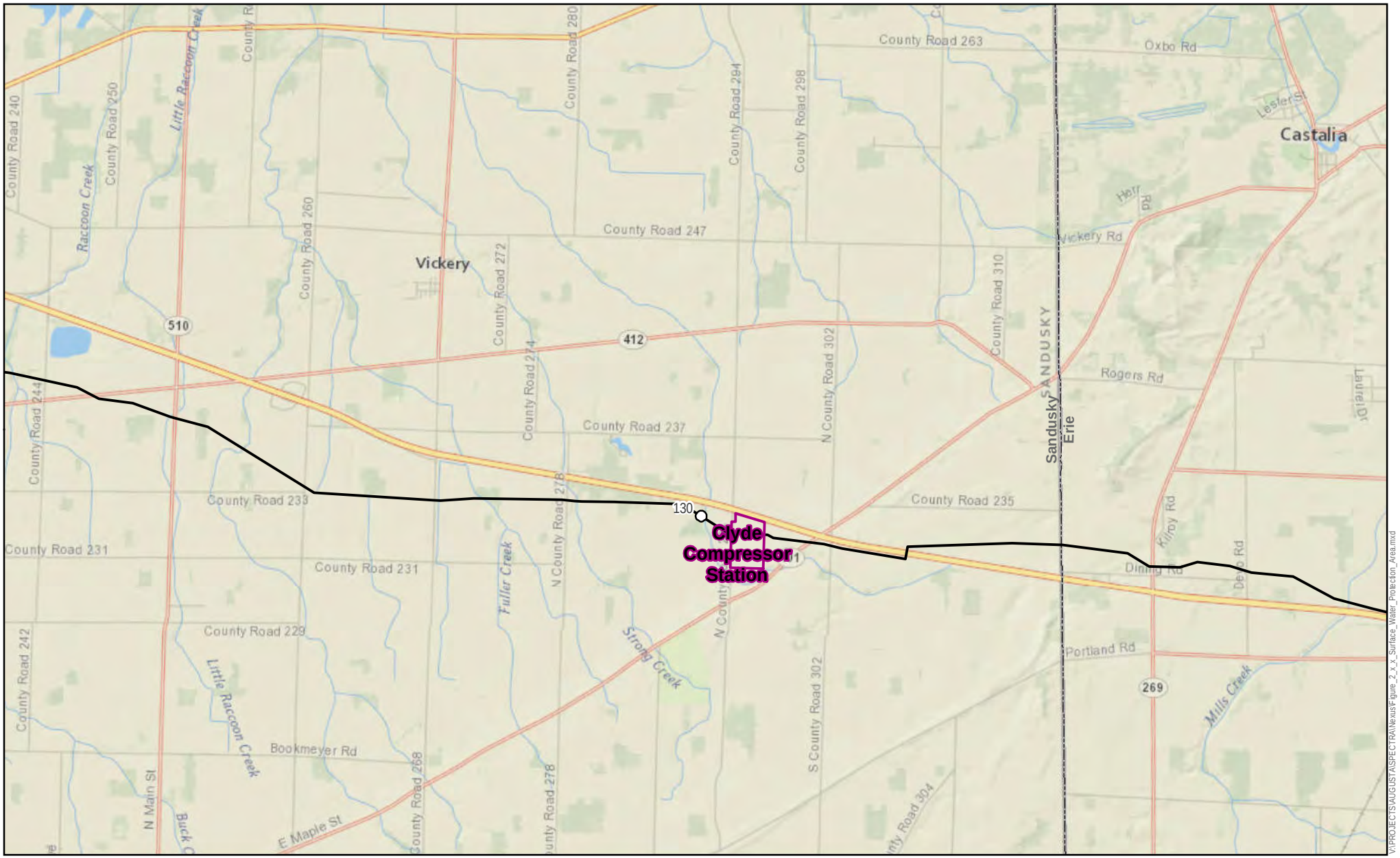
Figure 2.3-2

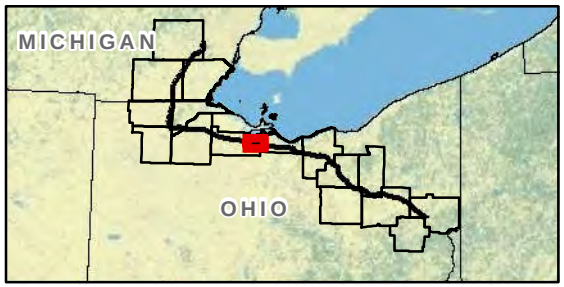
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Erie County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

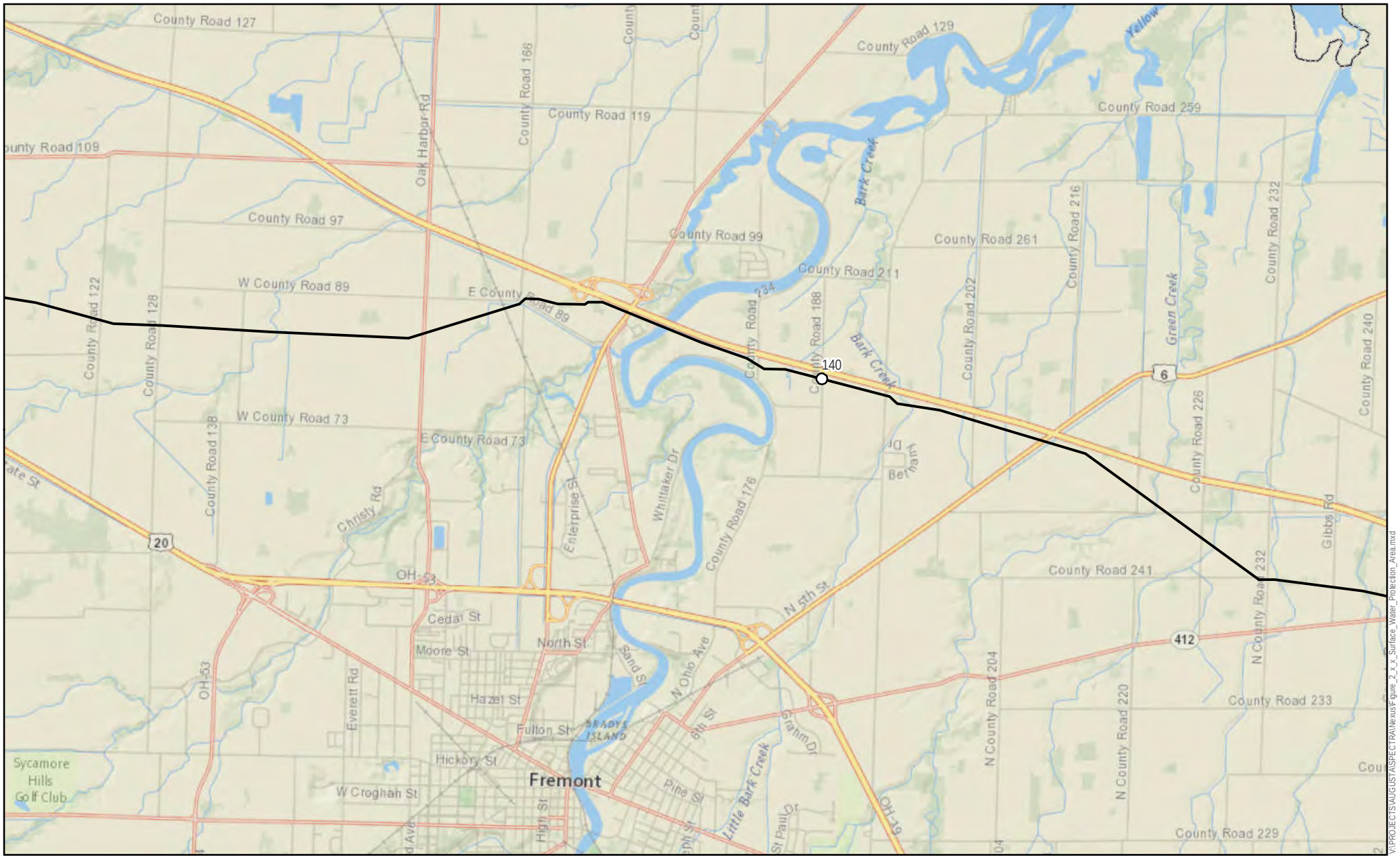
Figure 2.3-2

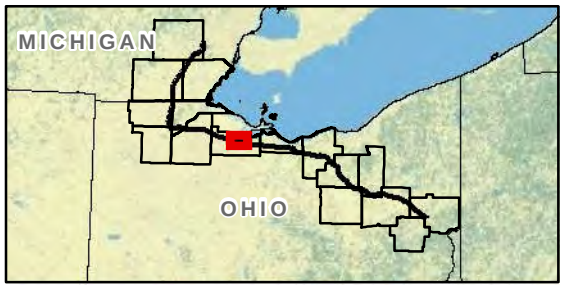
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Erie and Sandusky Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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Figure 2.3-2

Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Erie and Sandusky Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

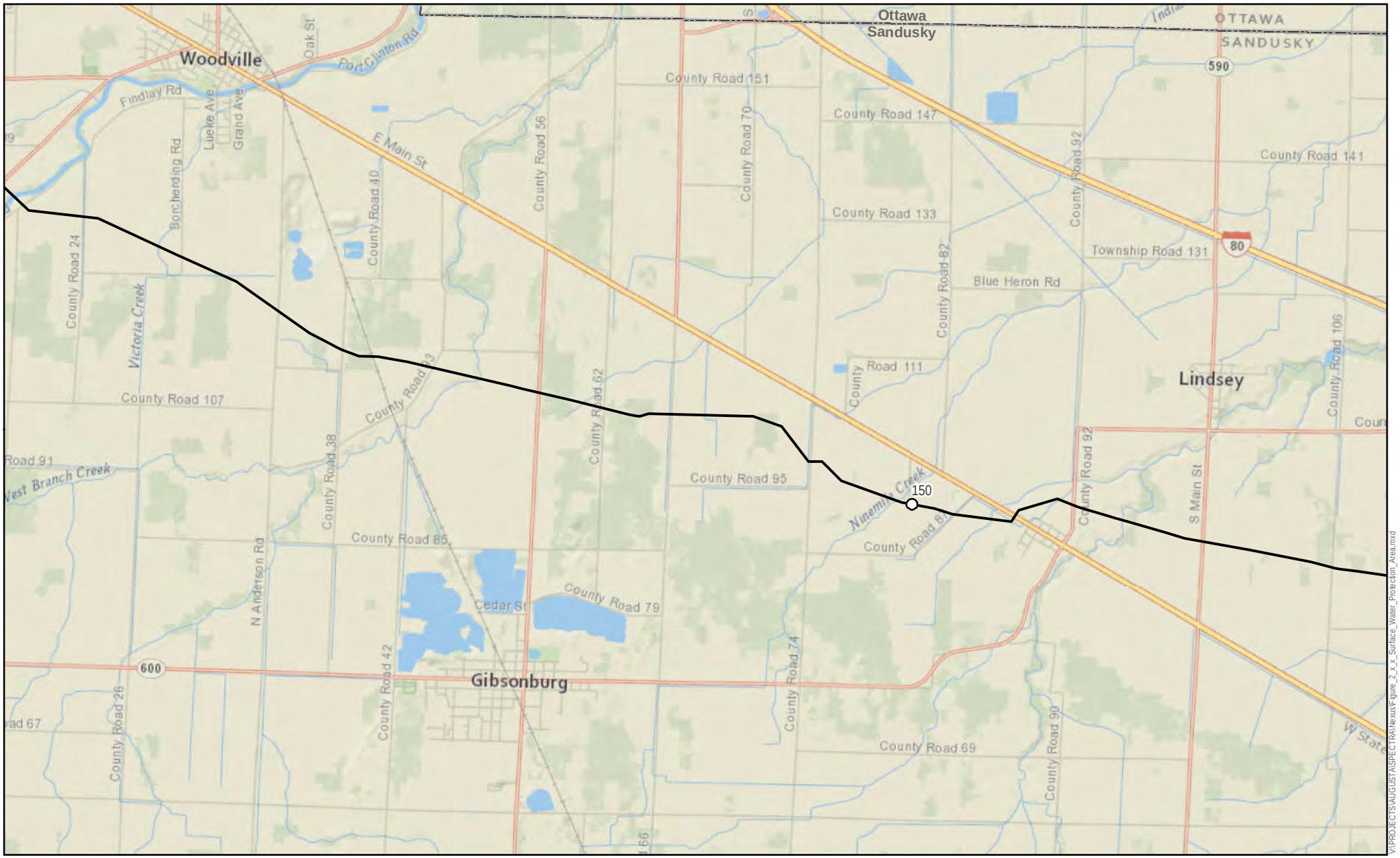


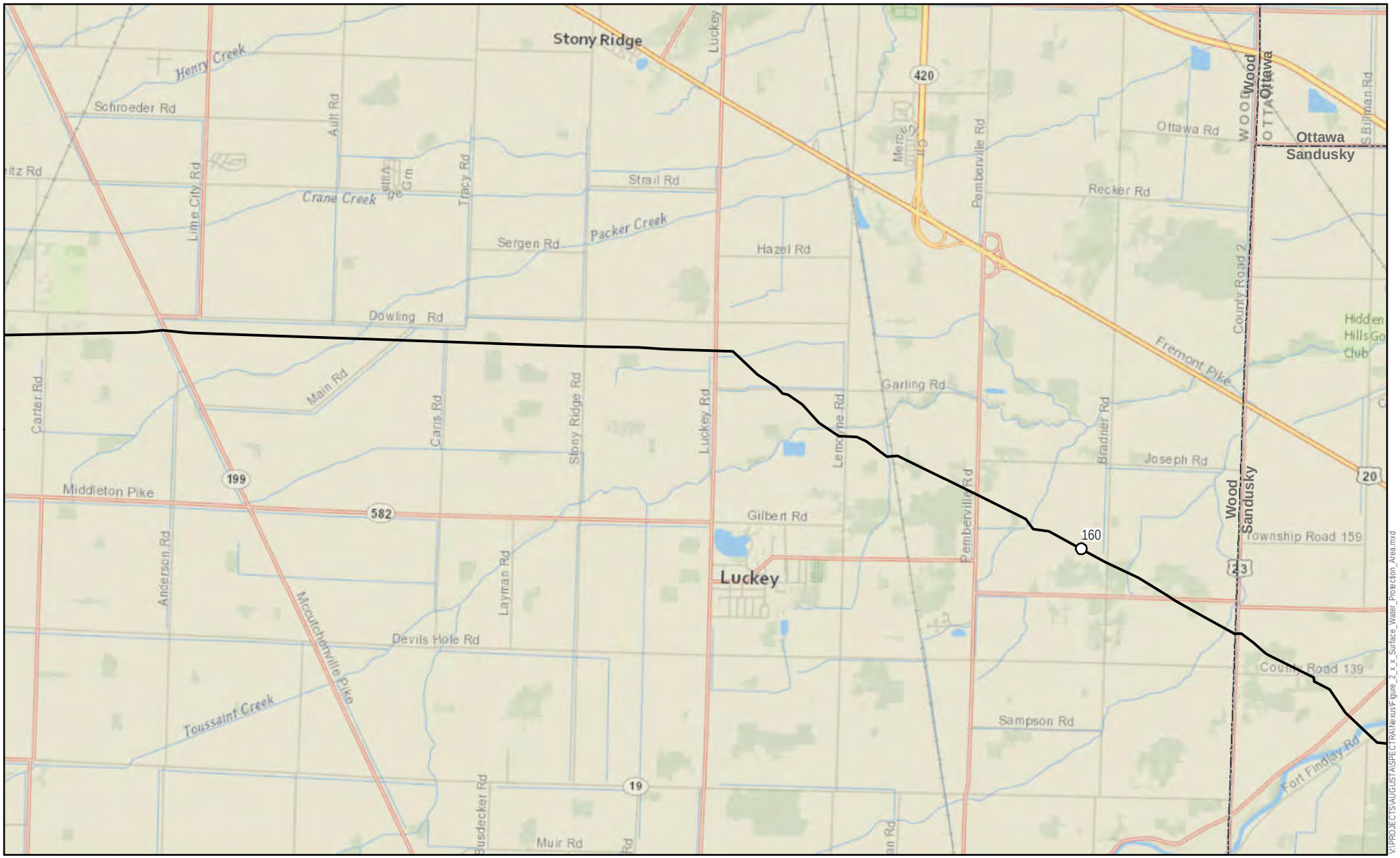

Figure 2.3-2

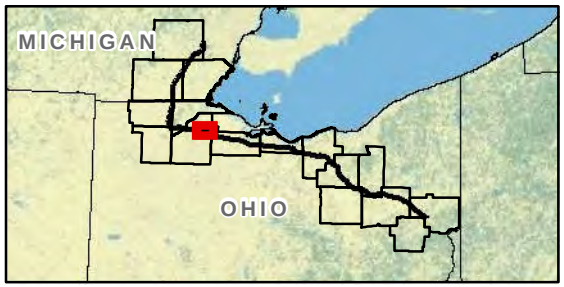
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Sandusky County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

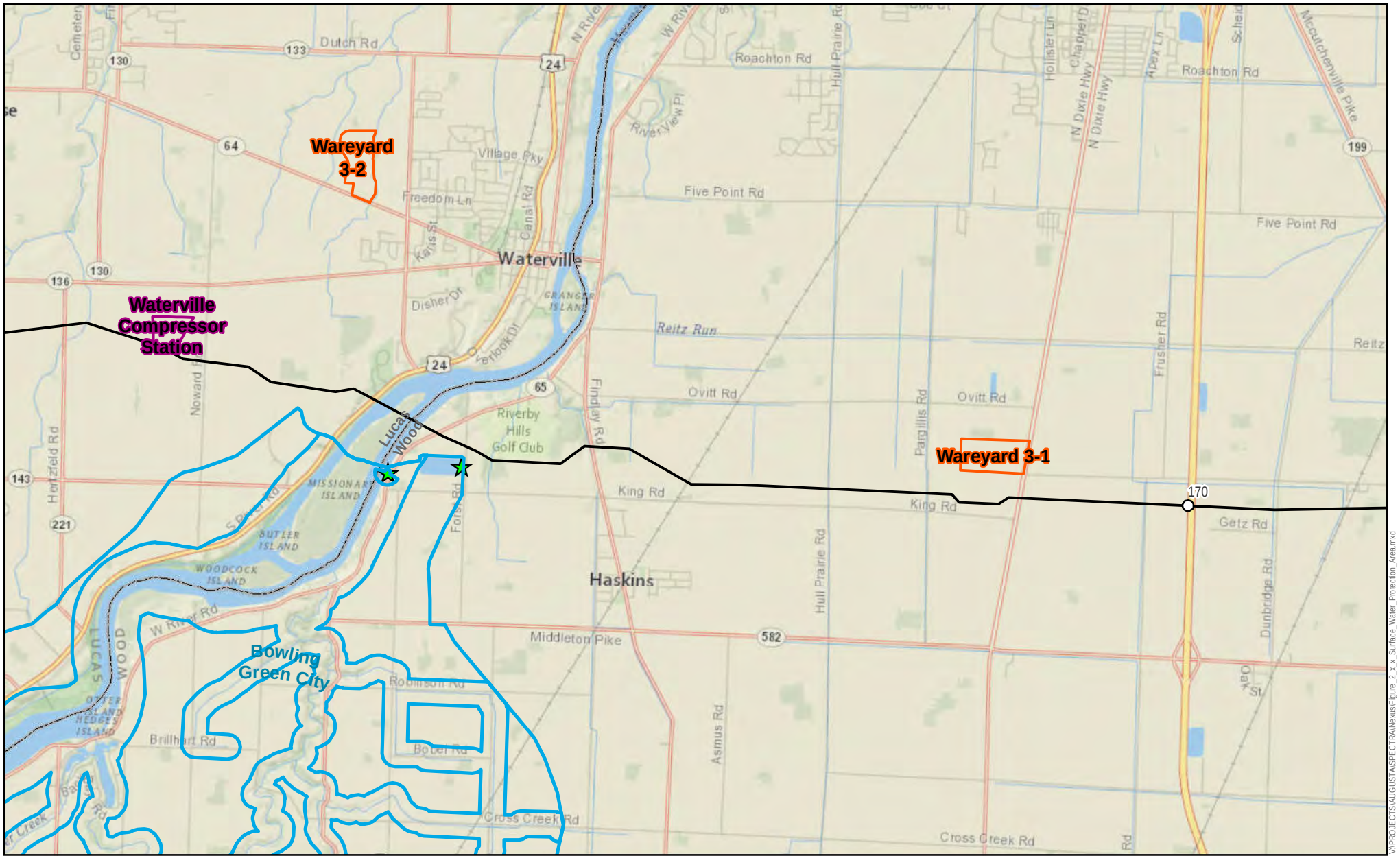
Figure 2.3-2

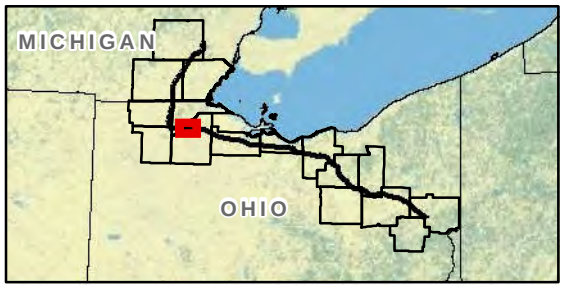
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Sandusky and Wood Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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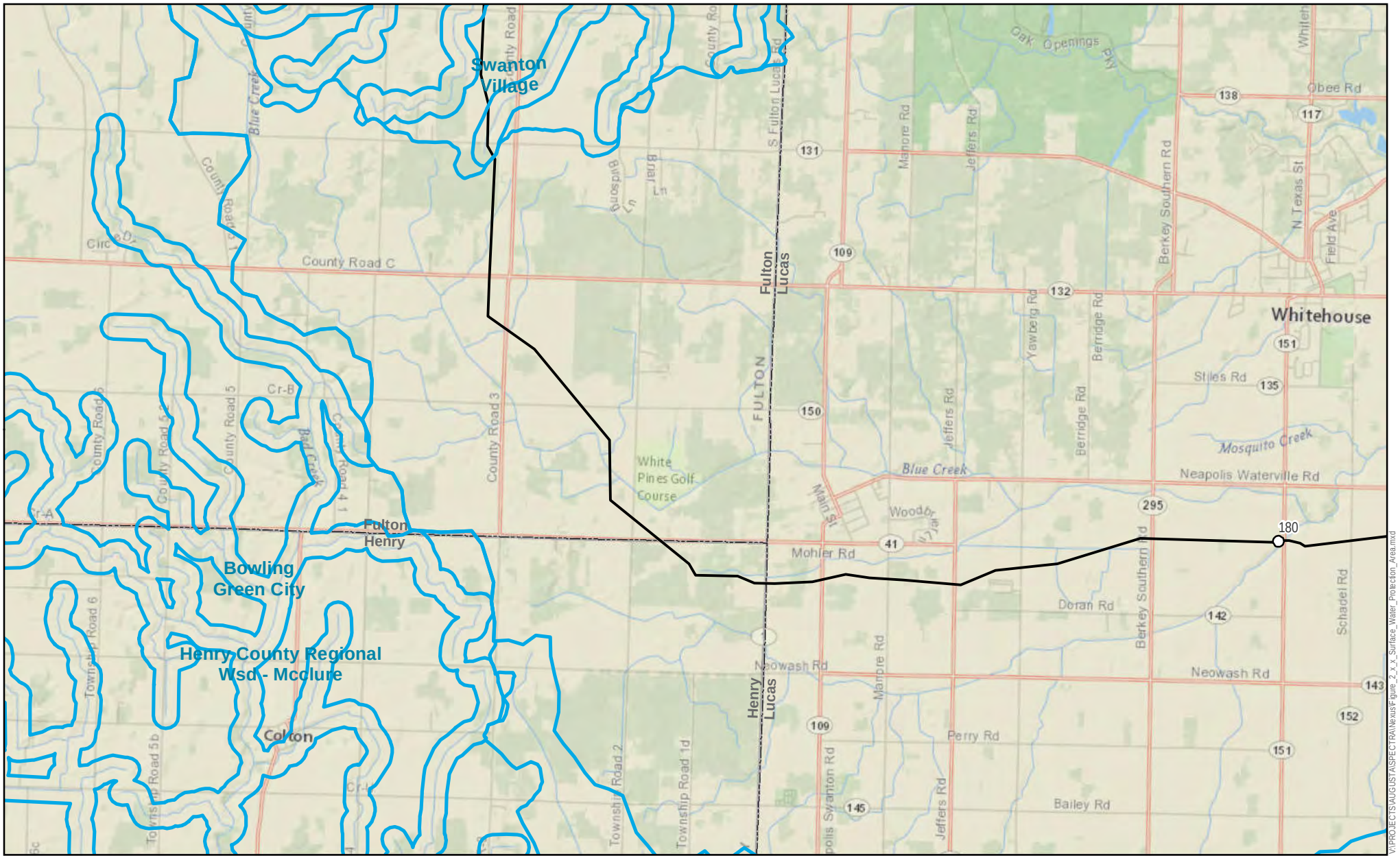
Figure 2.3-2

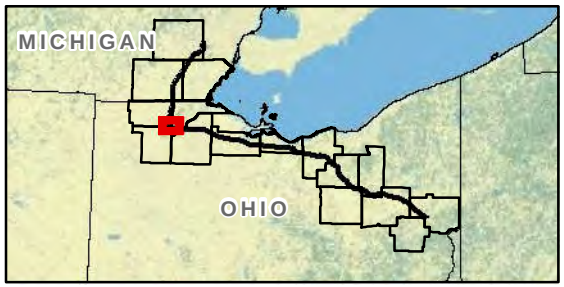
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Wood County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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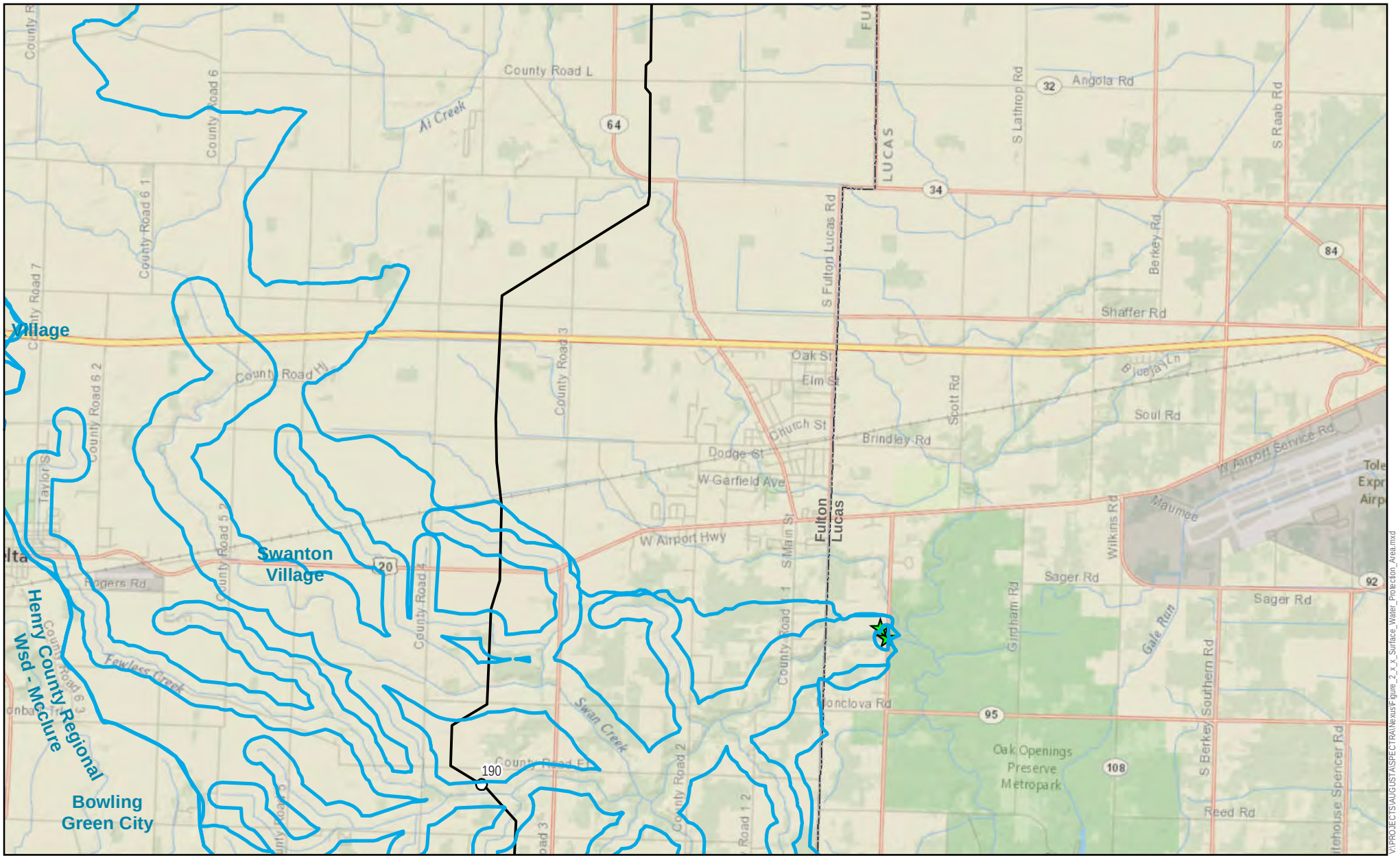
Figure 2.3-2

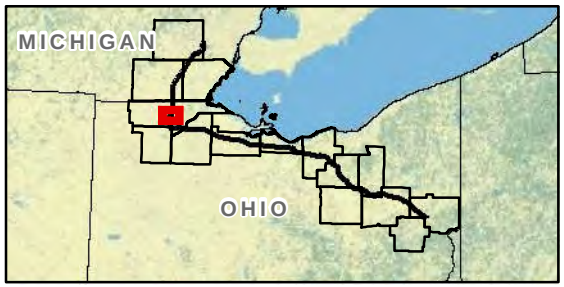
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Lucas, Henry and Fulton Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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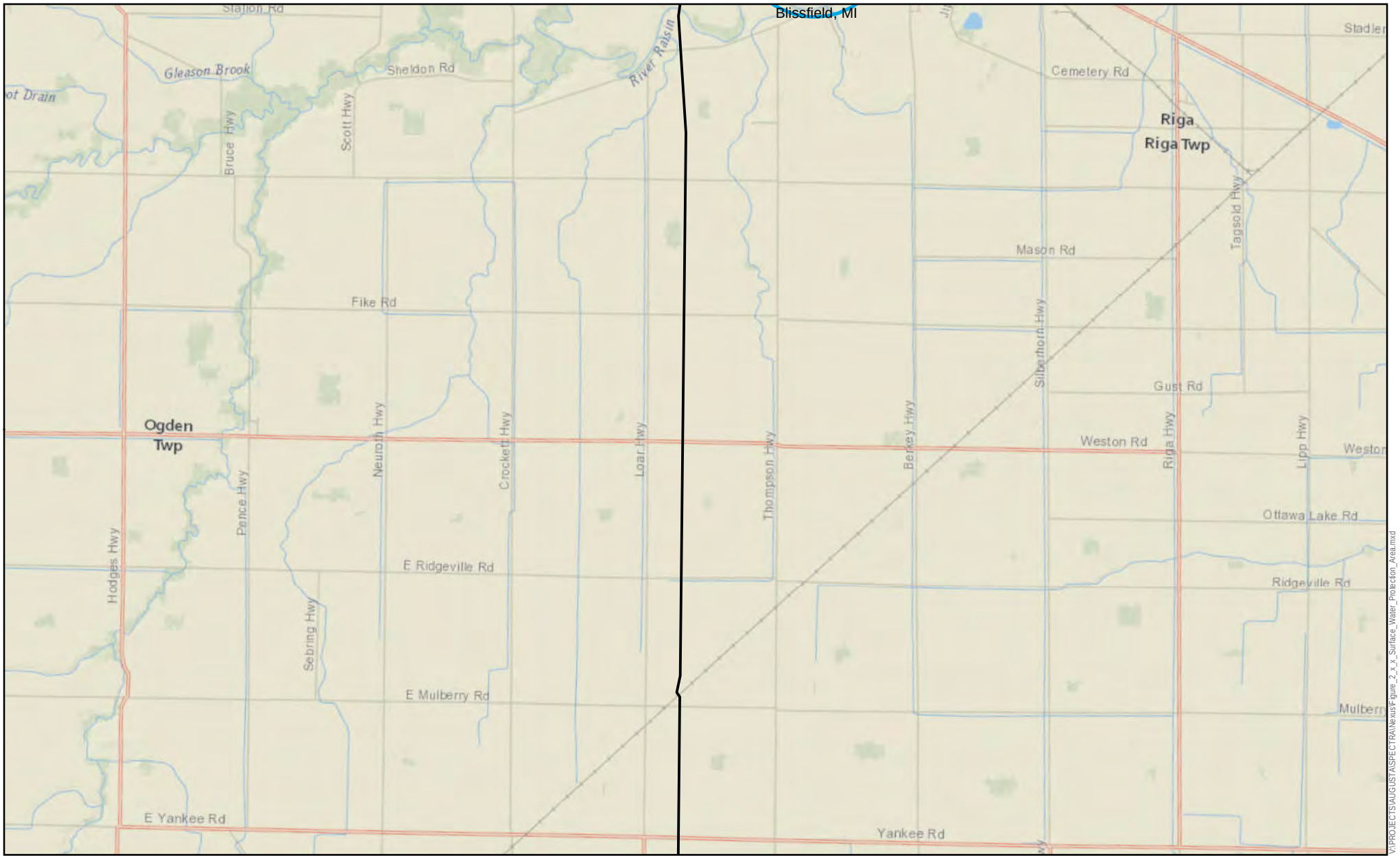
Figure 2.3-2

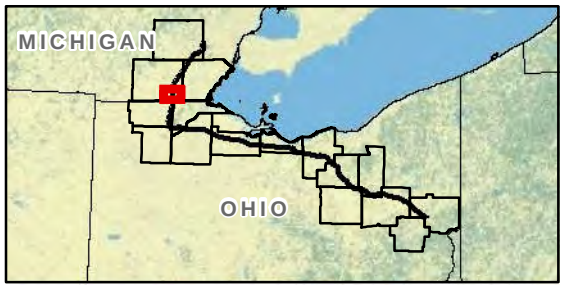
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Fulton County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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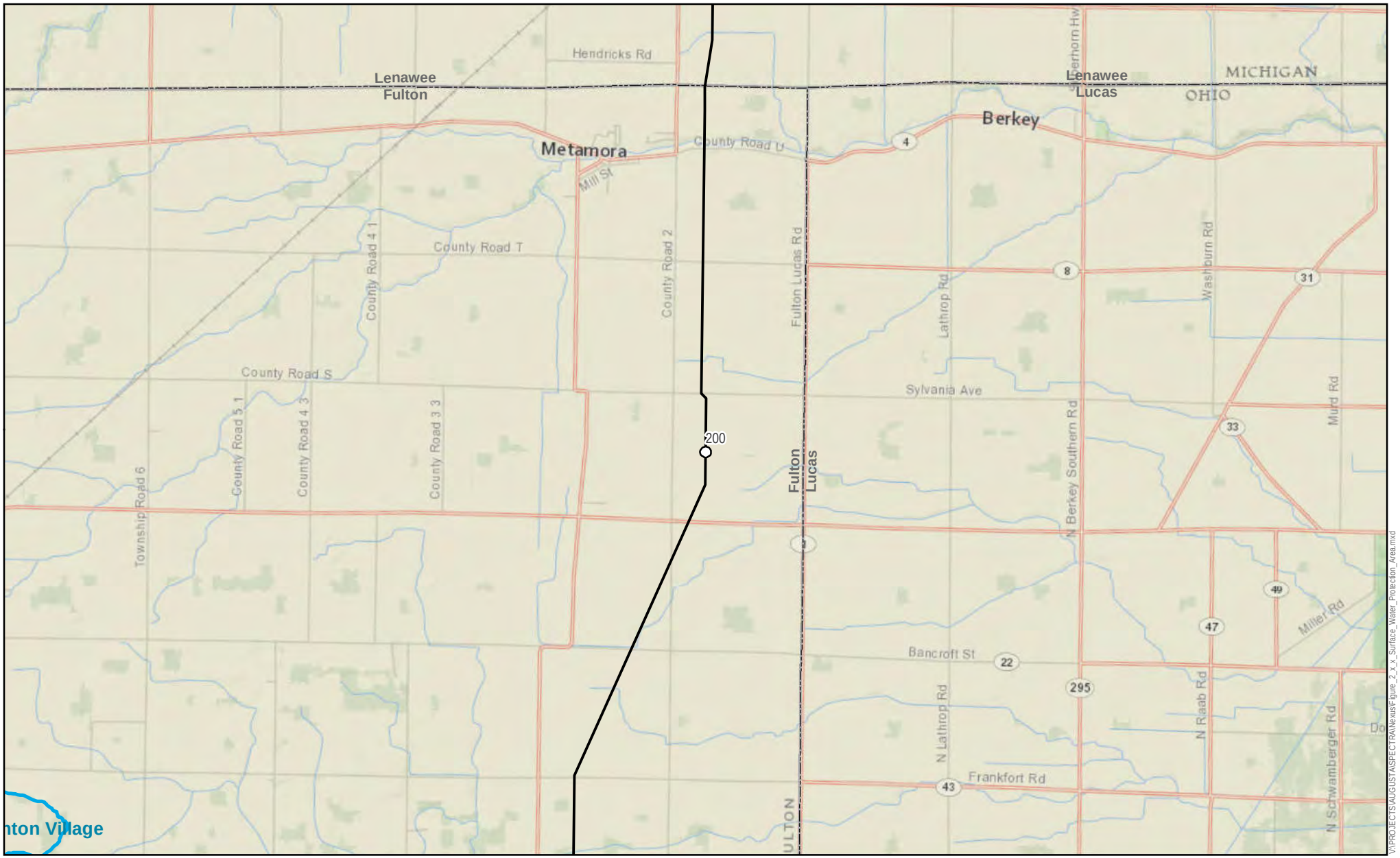
Figure 2.3-2

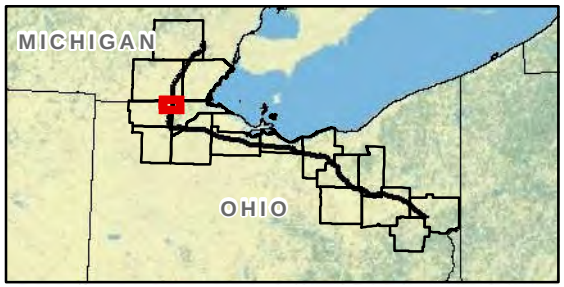
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

Figure 2.3-2

Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015

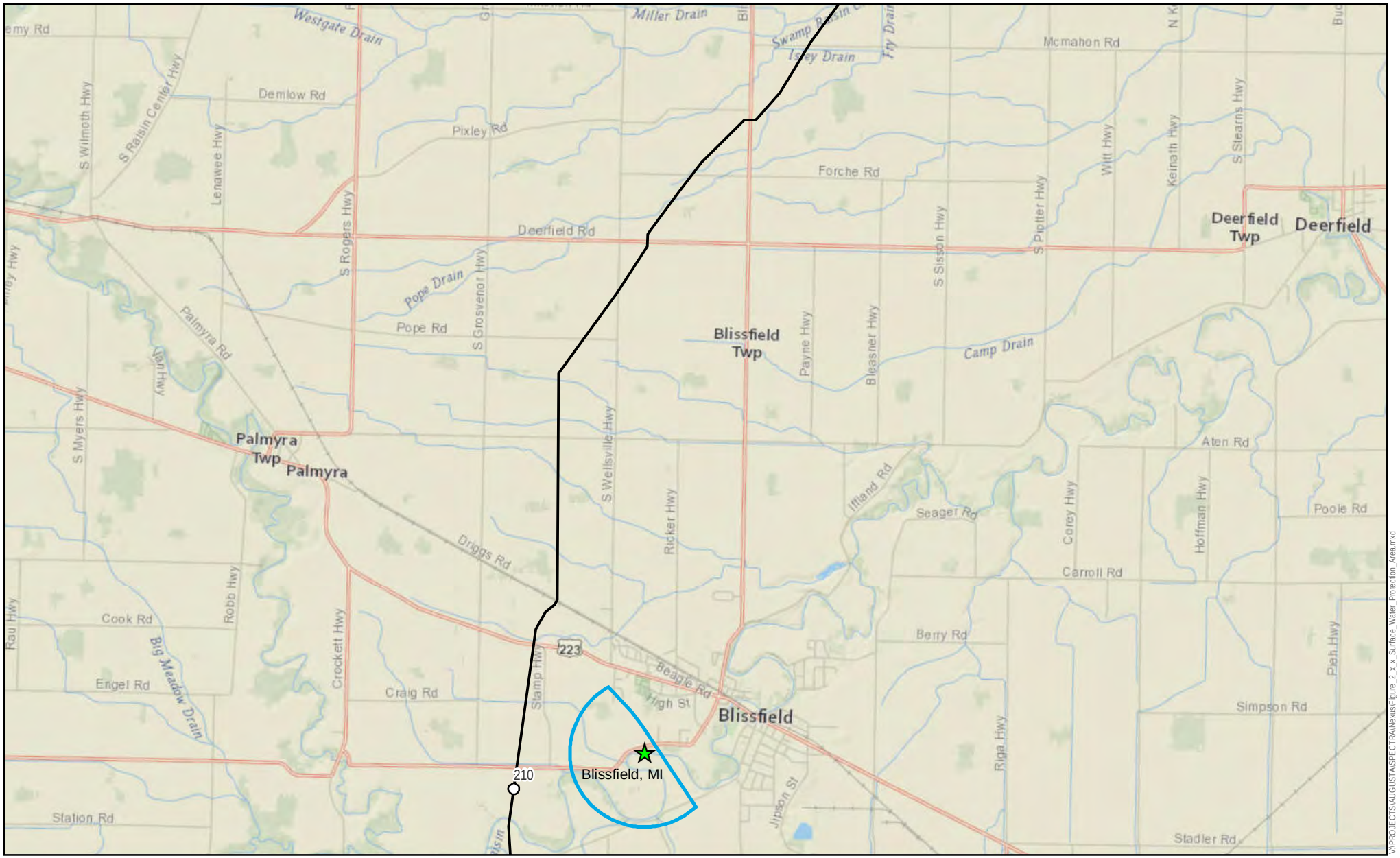



Figure 2.3-2

Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015

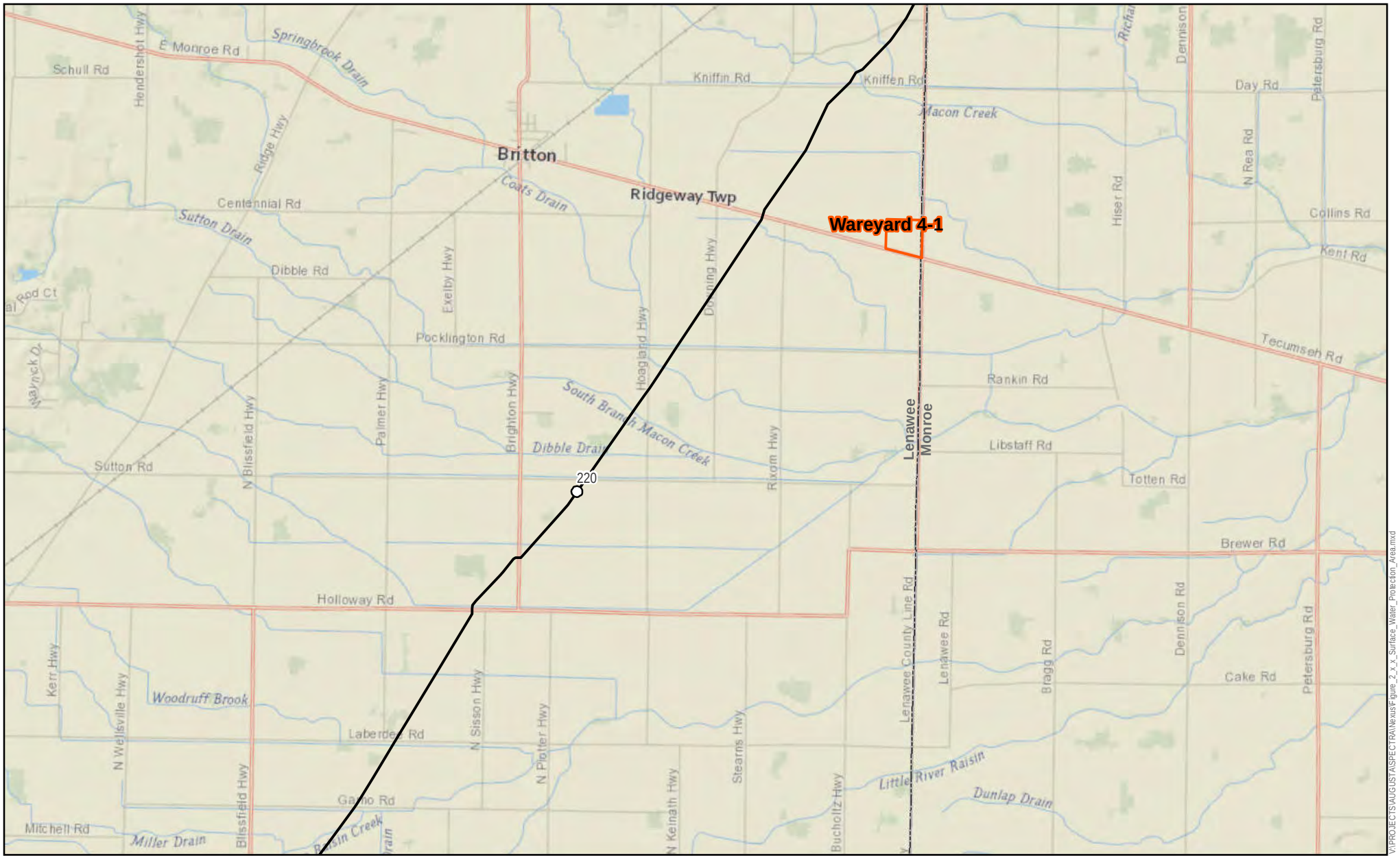



Figure 2.3-2

Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015

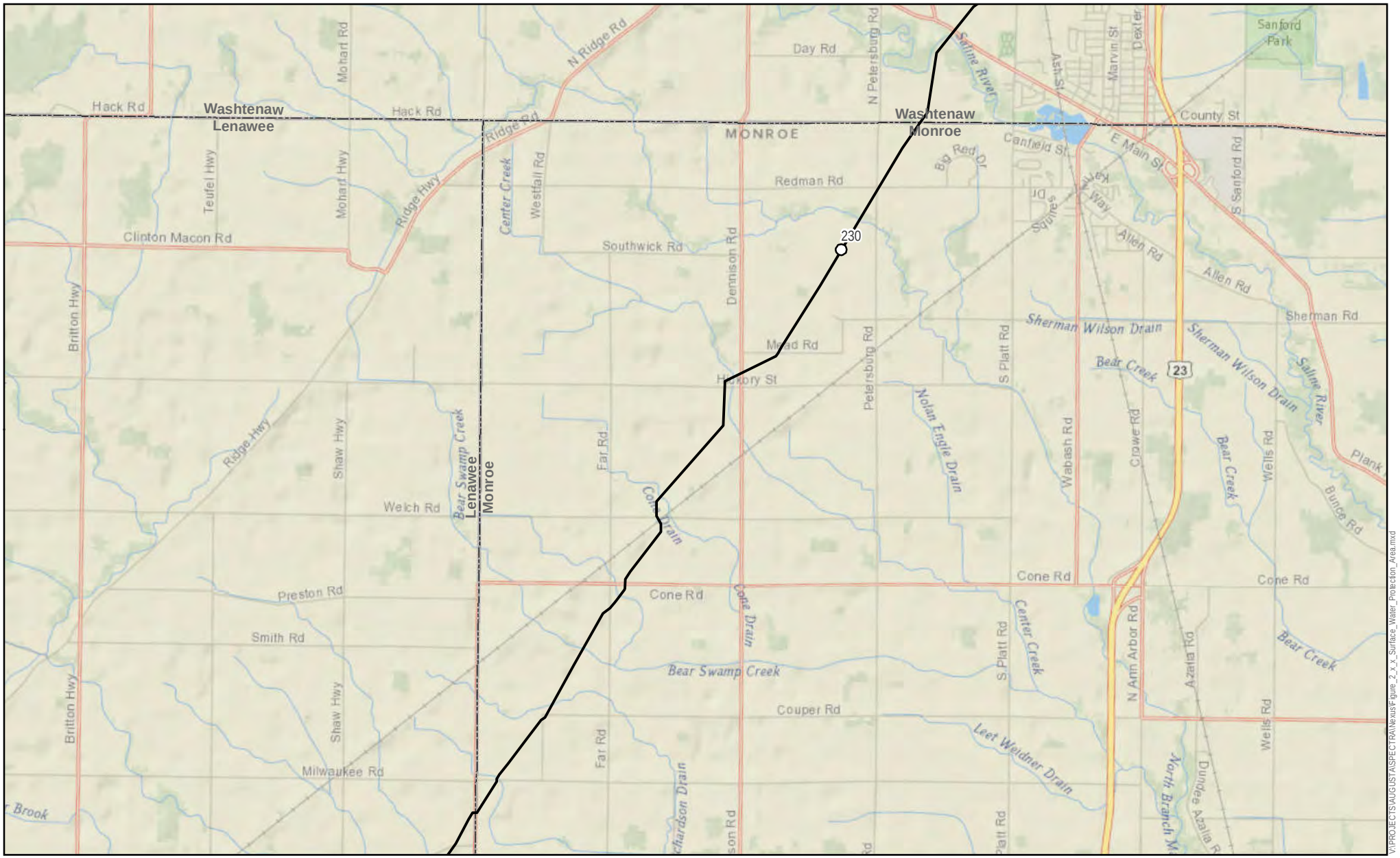


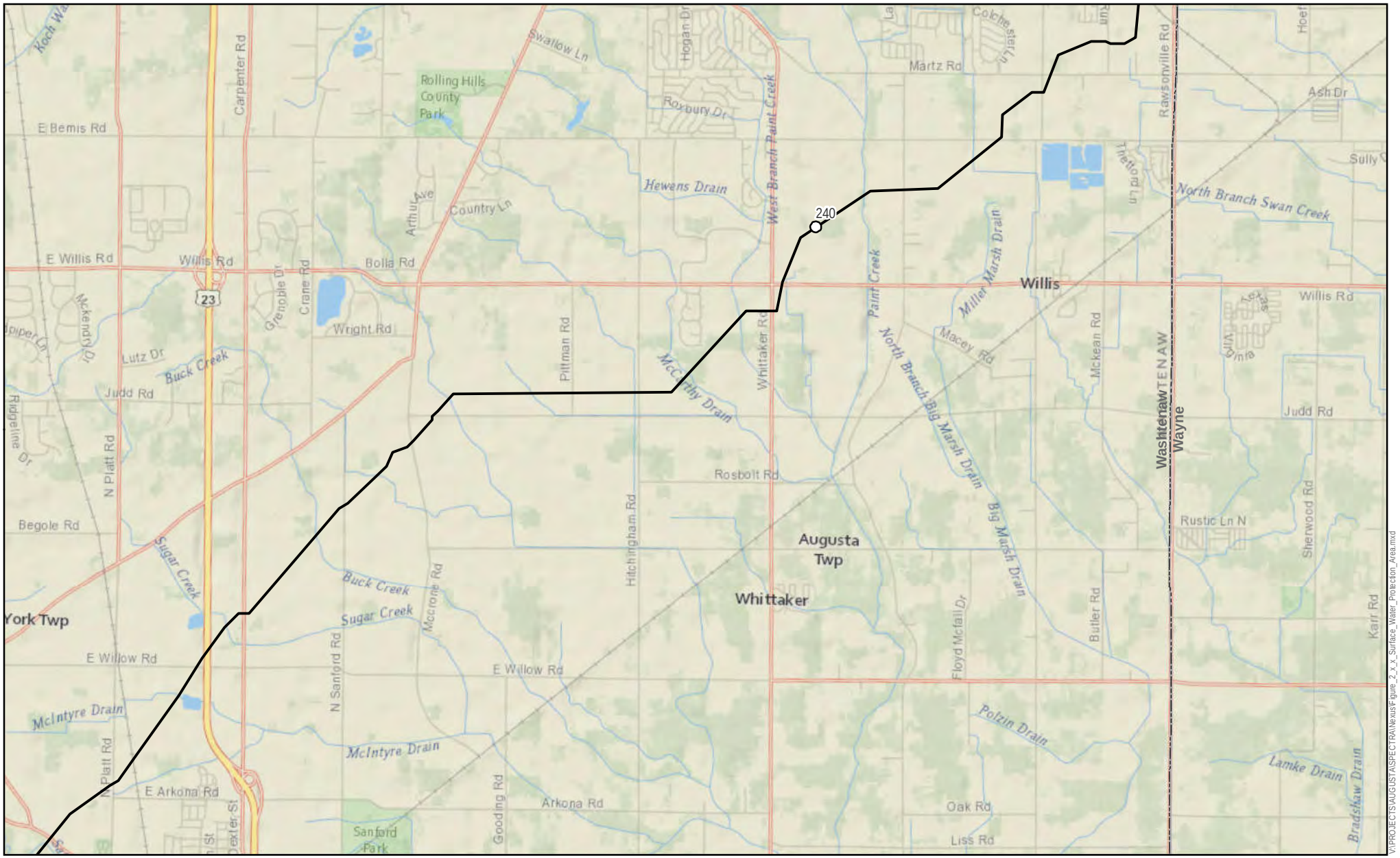

Figure 2.3-2

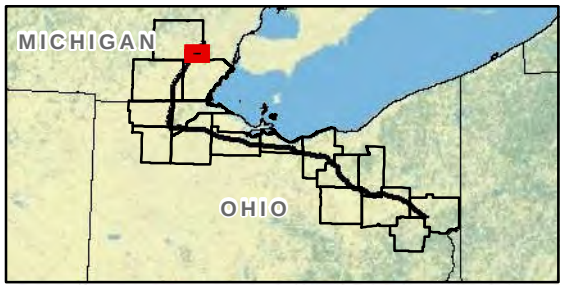
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Lenawee and Washtenaw Counties, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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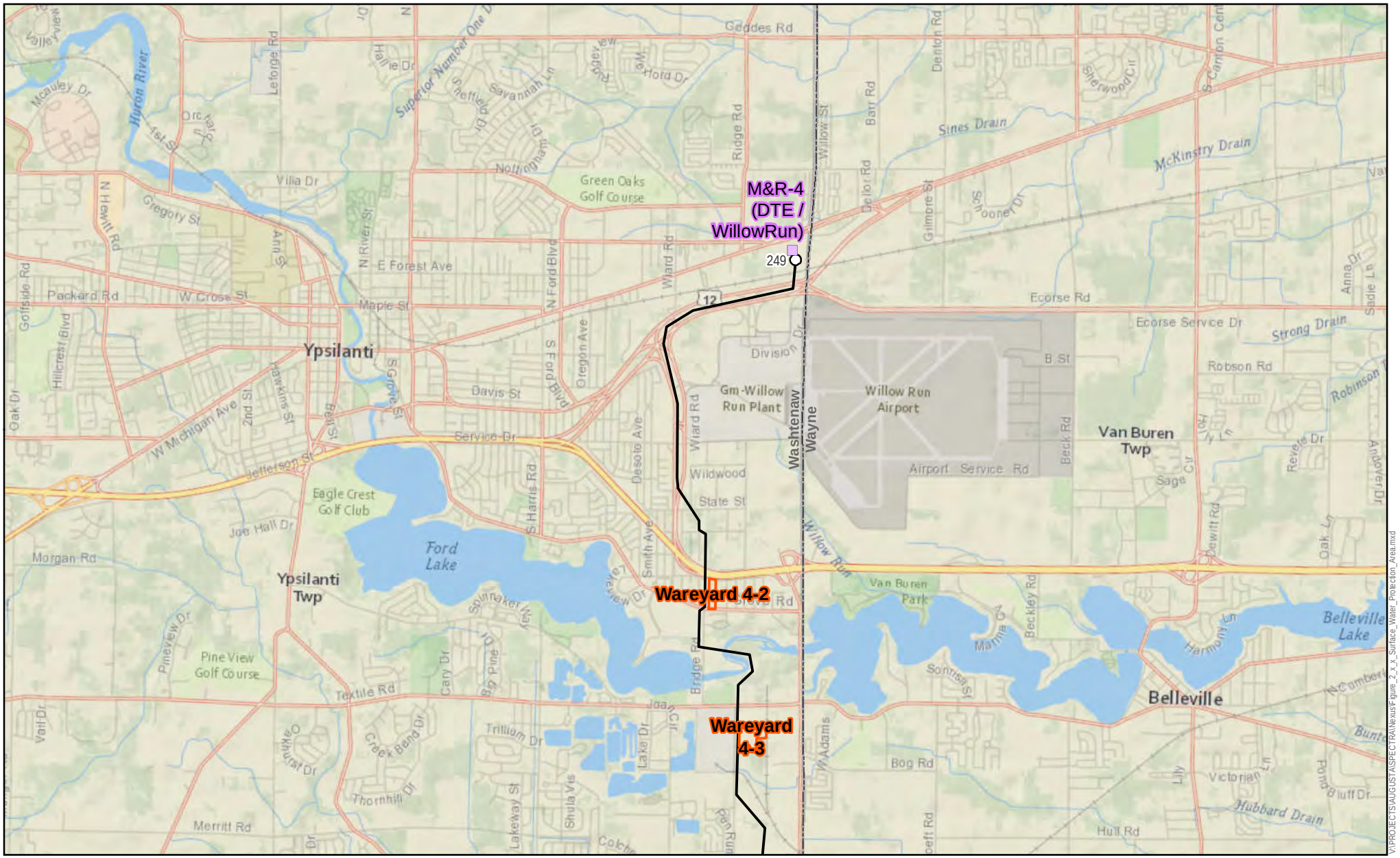
Figure 2.3-2

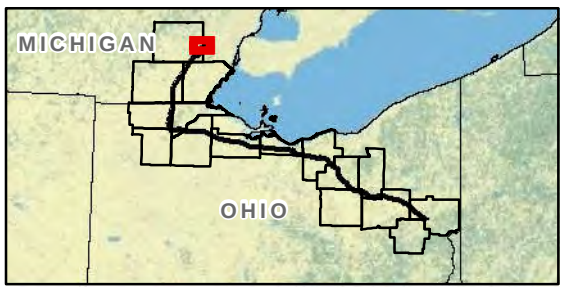
Surface Water Protection Areas and Intakes Crossed by the NEXUS Project

Washtenaw County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Intakes Locations
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- Surface Water Protection Areas
- Proposed Compressor Station Sites
- Wareyards
- County

0 1 2
Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, TRC, MI GIS and OH GIS

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Figure 2.3-2

Surface Water Protection
Areas and Intakes
Crossed by the NEXUS Project
Washtenaw County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015

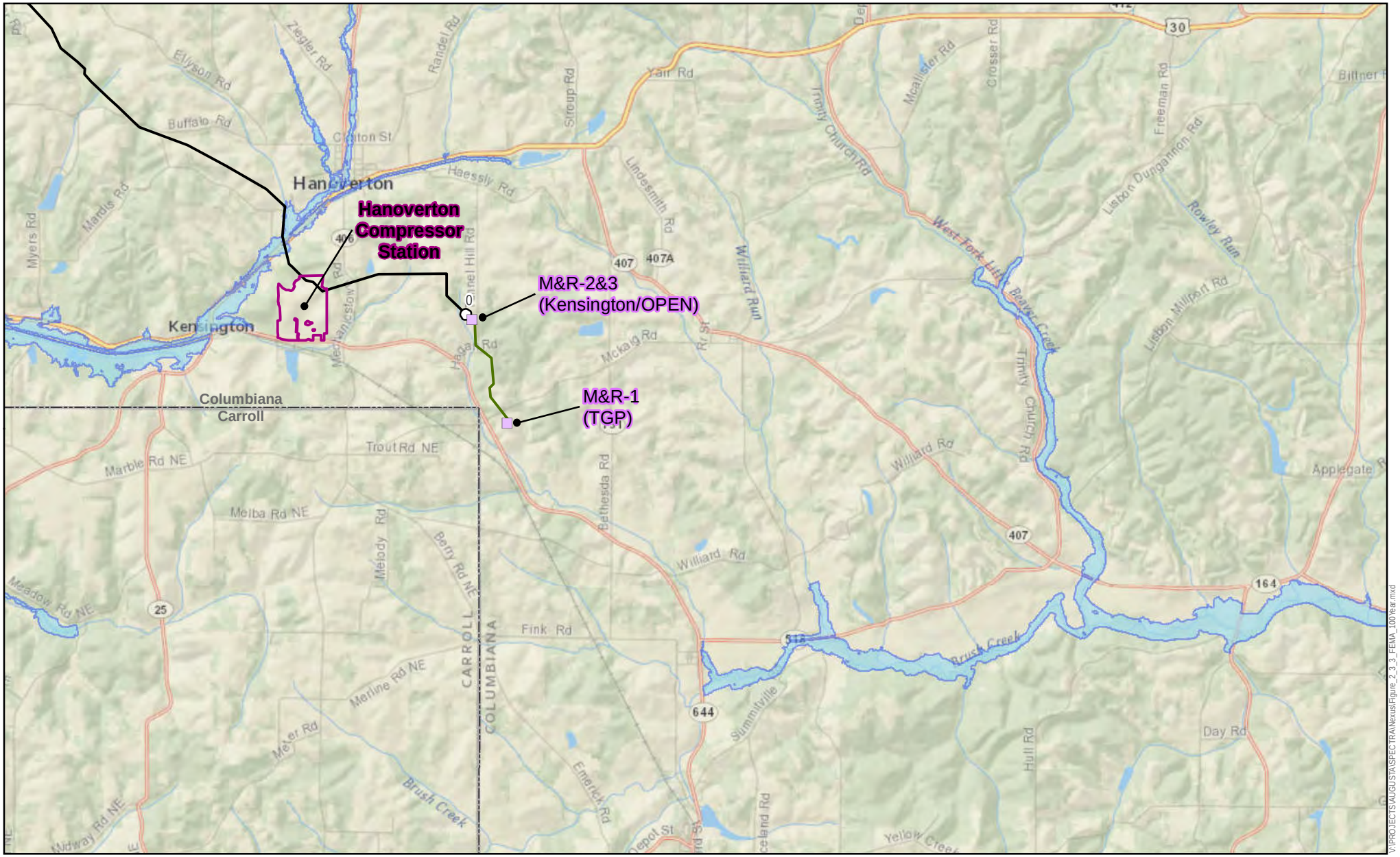



Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Columbiana and Carroll Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

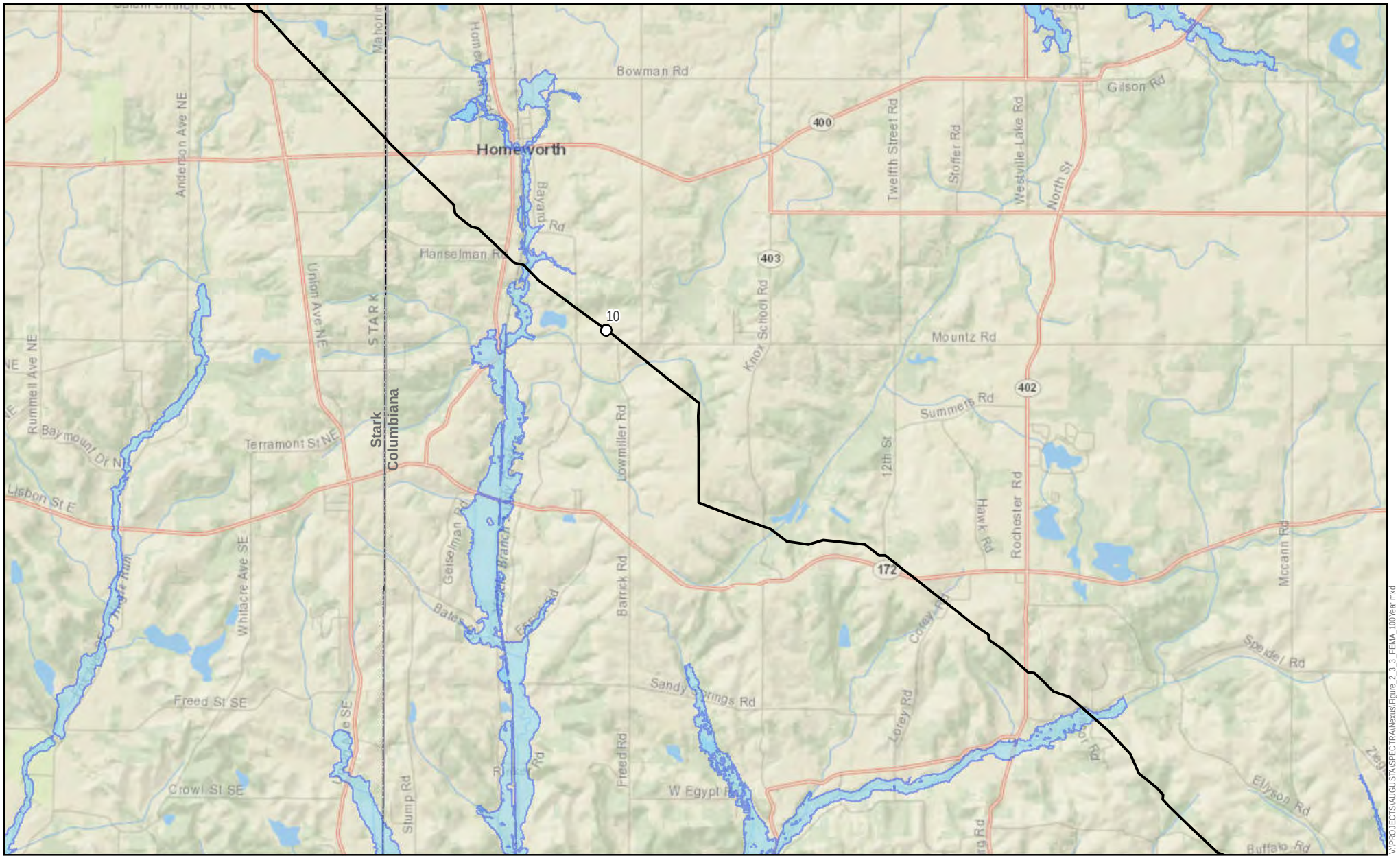



Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Columbiana and Stark Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

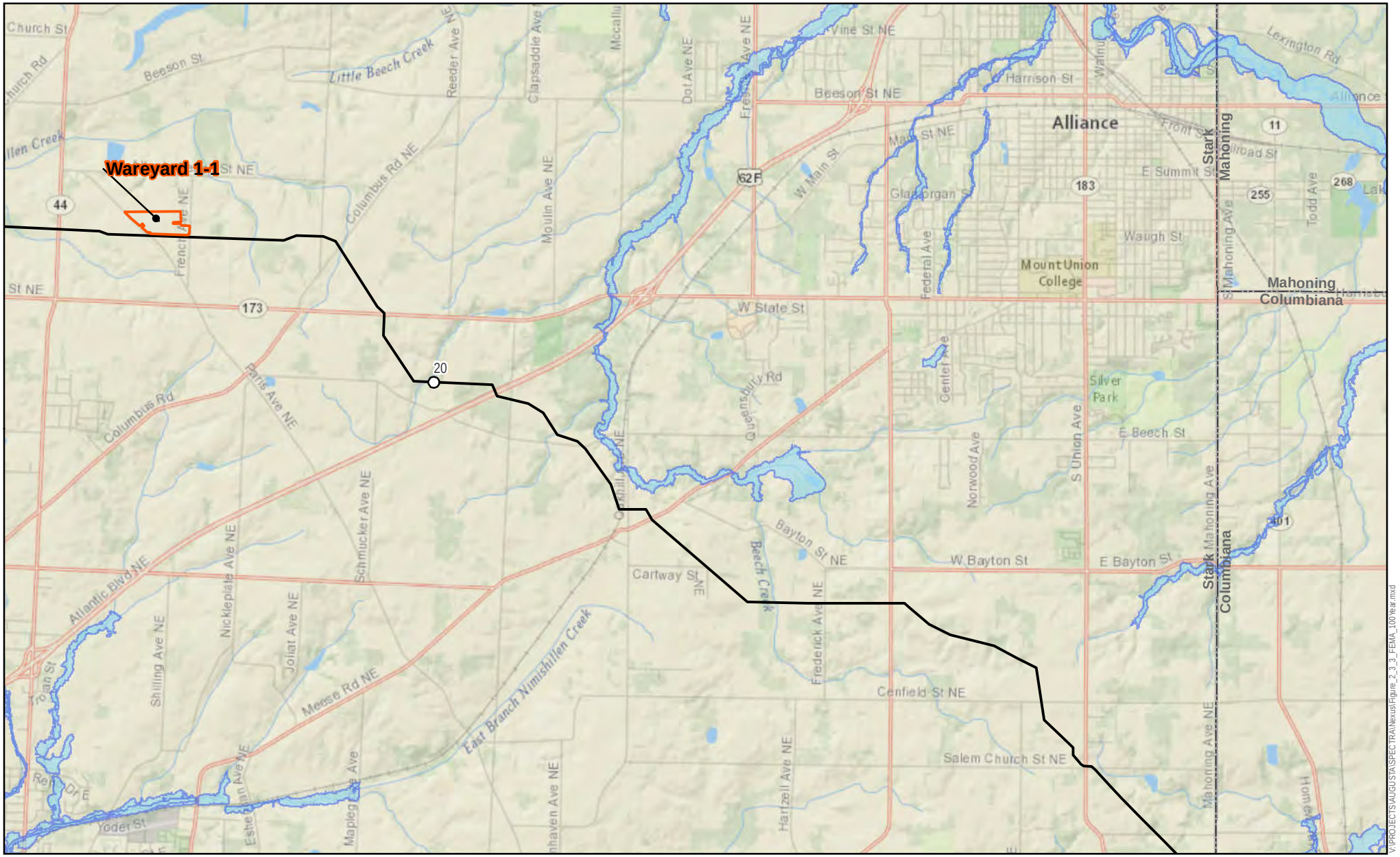
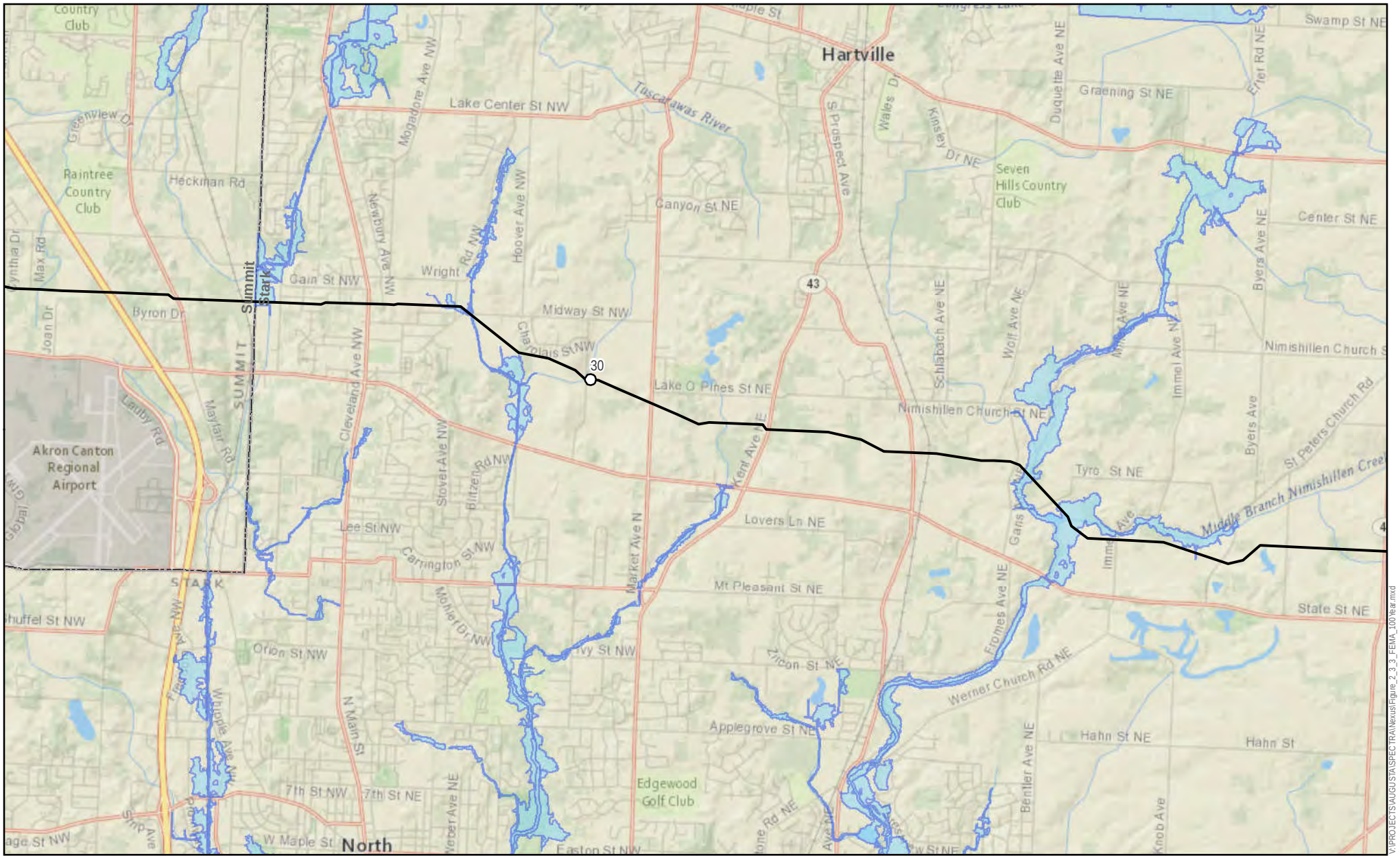


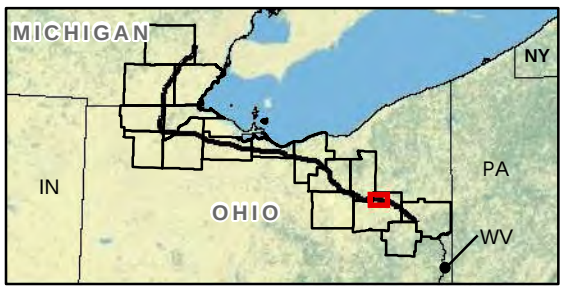

Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Stark County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Stark and Summit Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

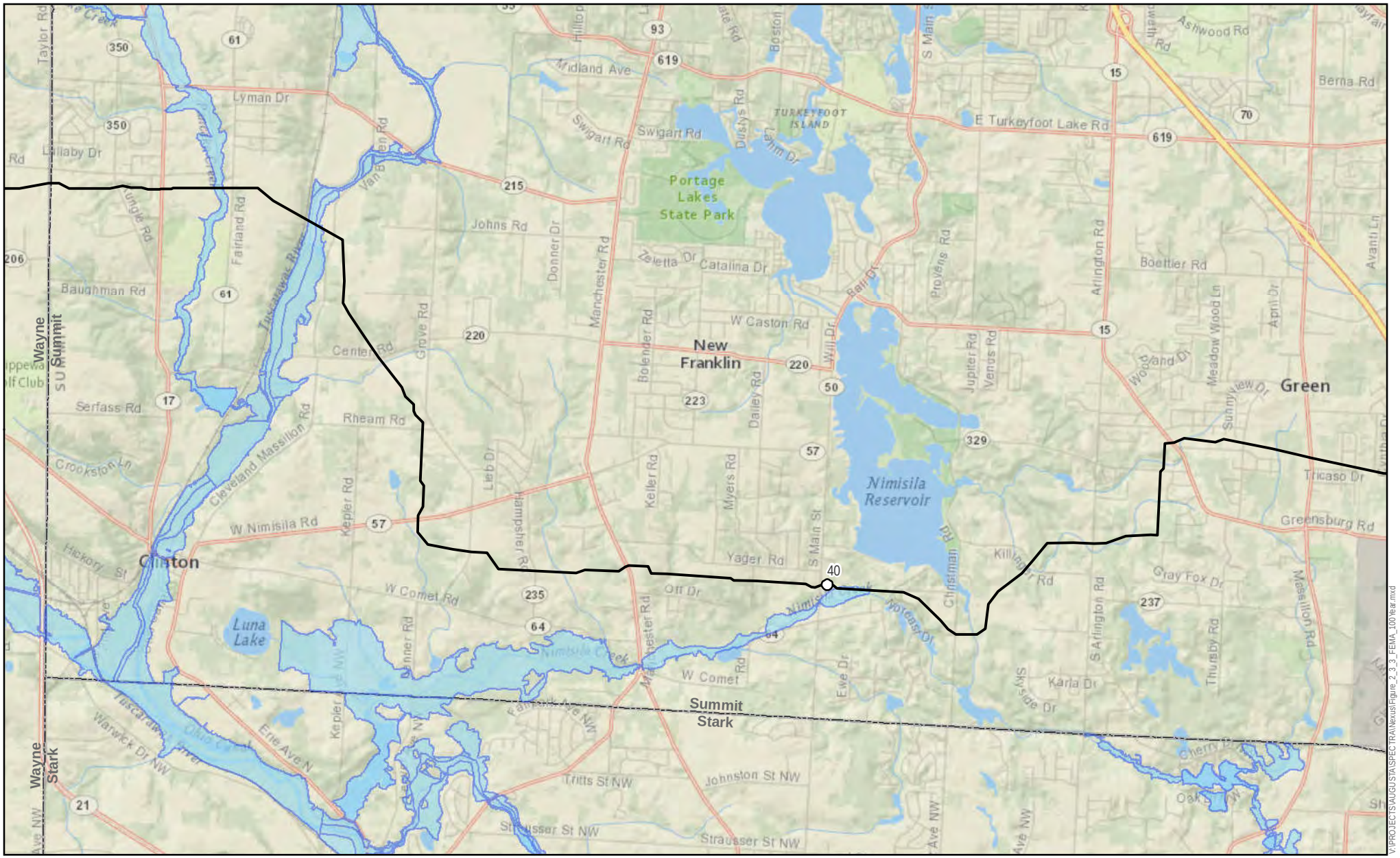
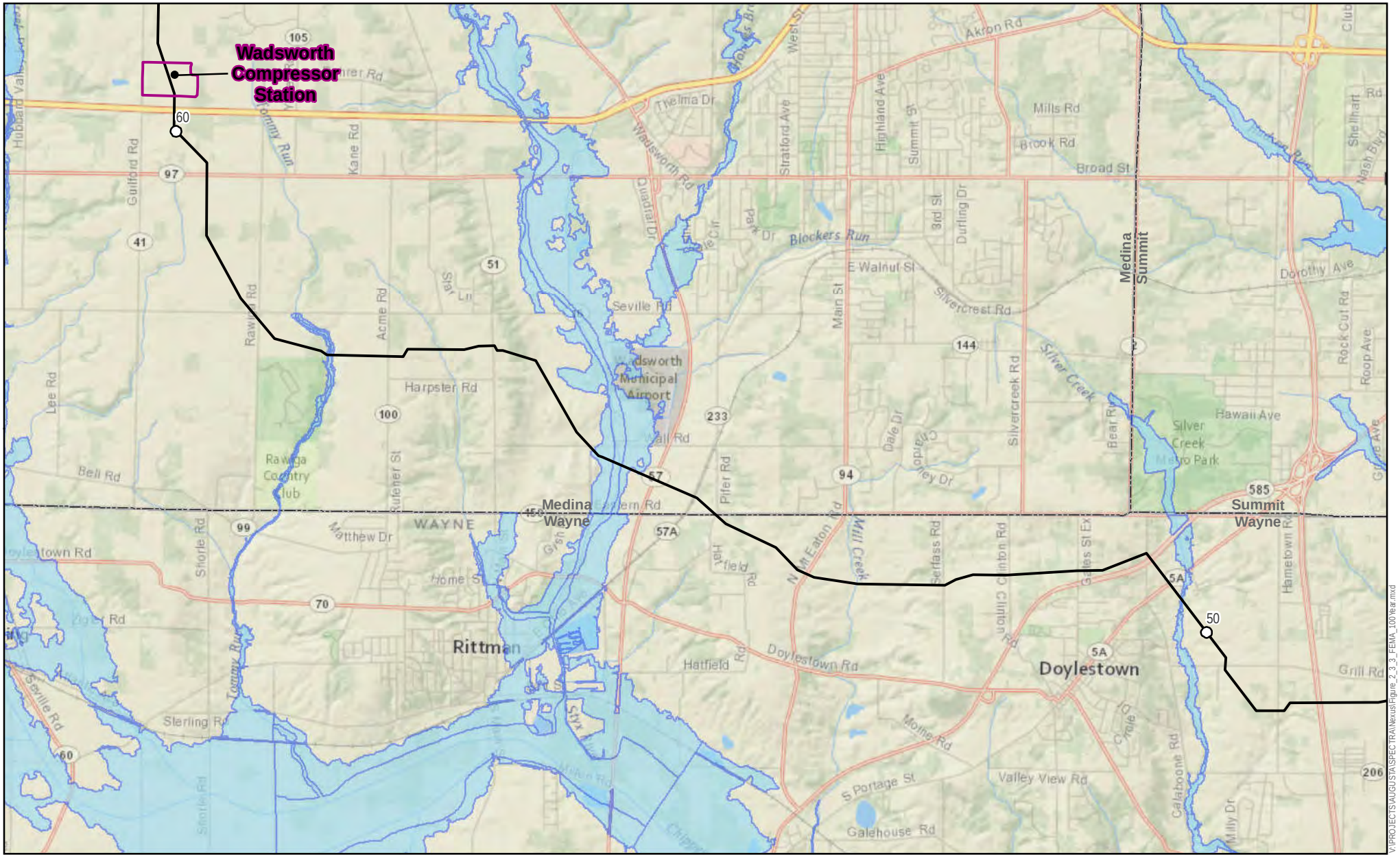


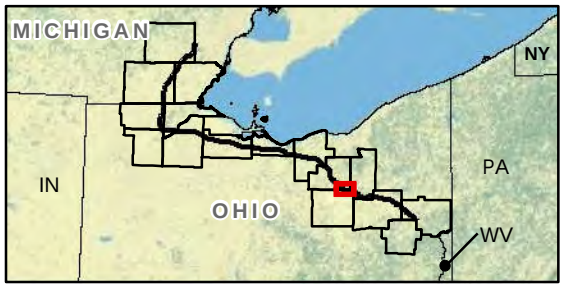

Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Summit and Wayne Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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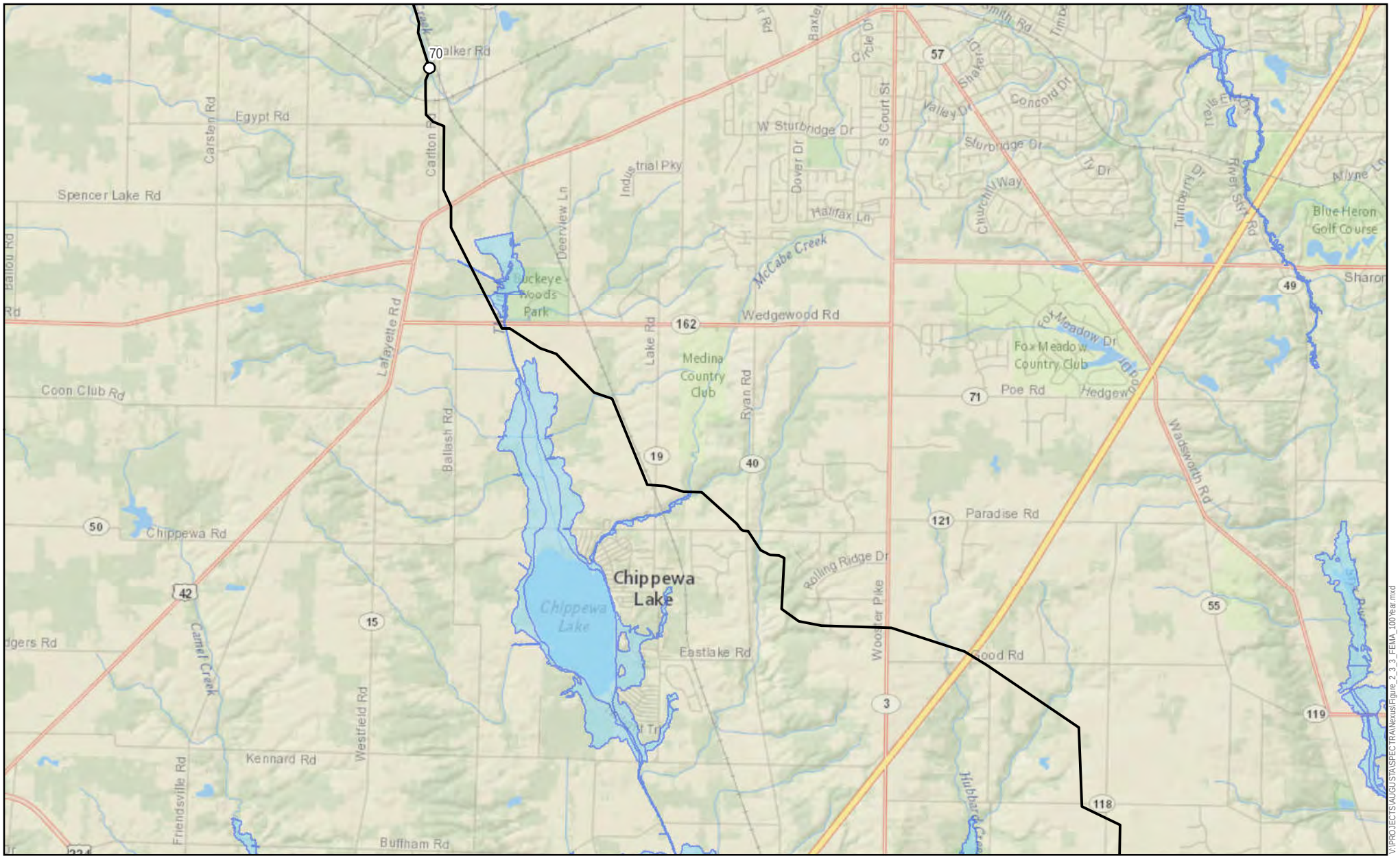
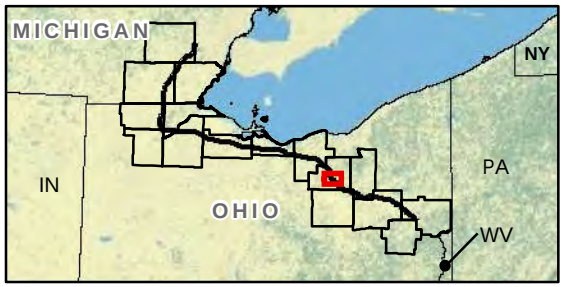
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Medina and Wayne Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

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Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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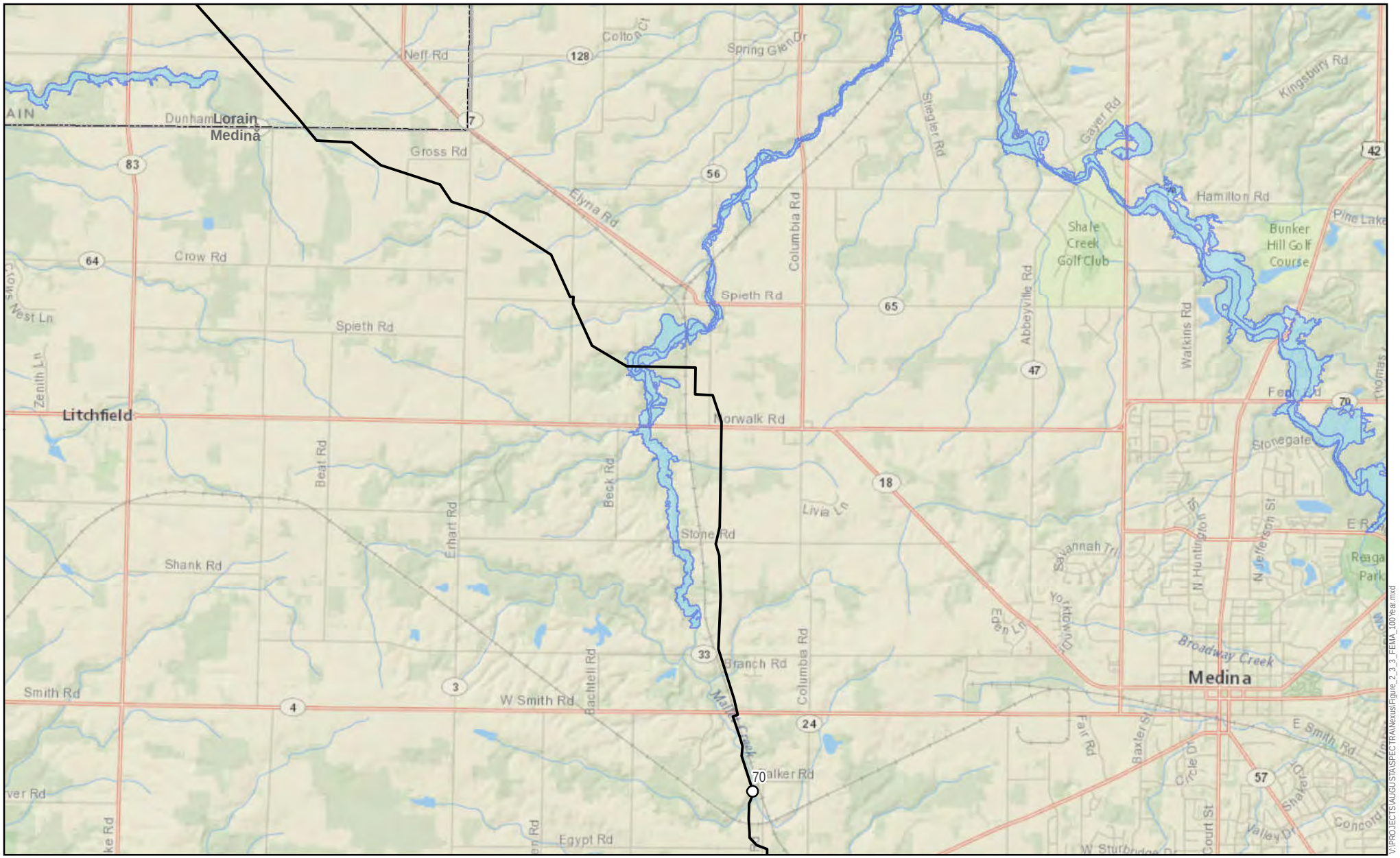
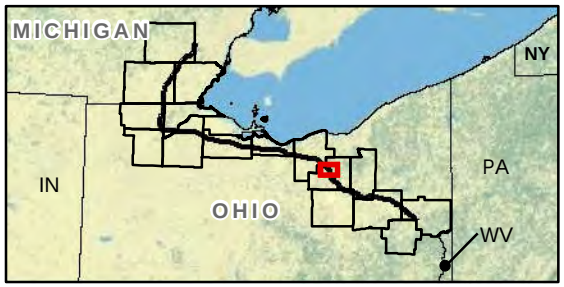
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Medina County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

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Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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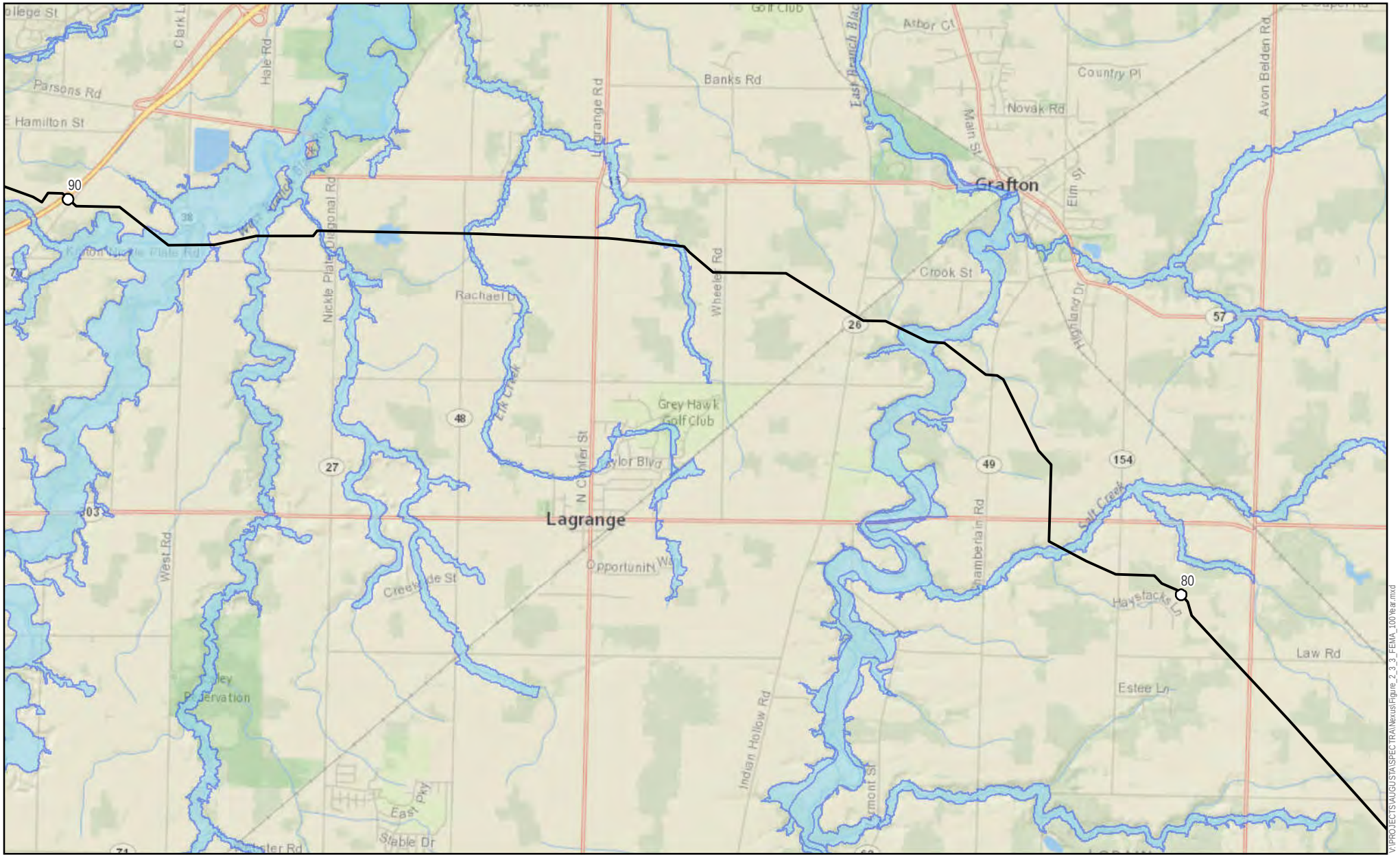
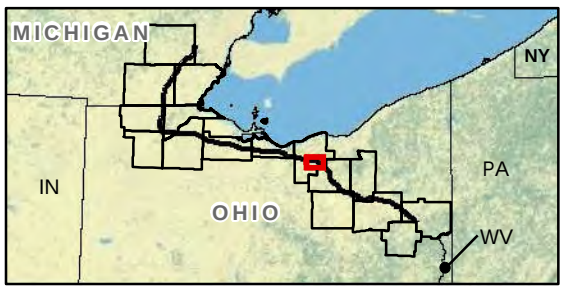
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Medina County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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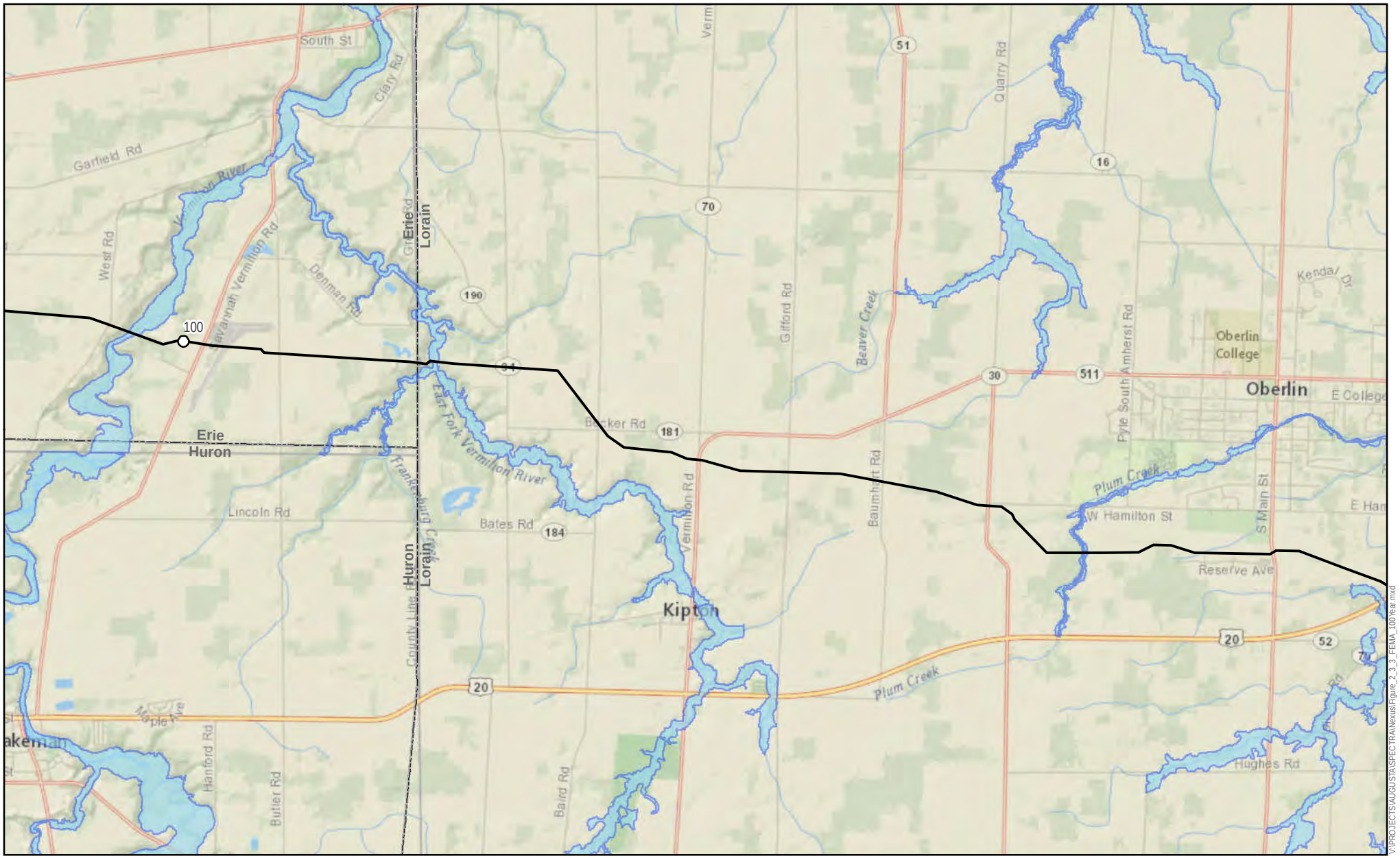
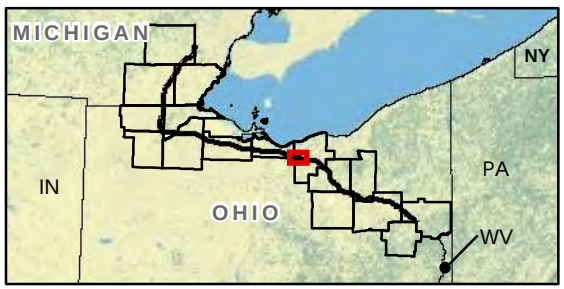
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Lorain County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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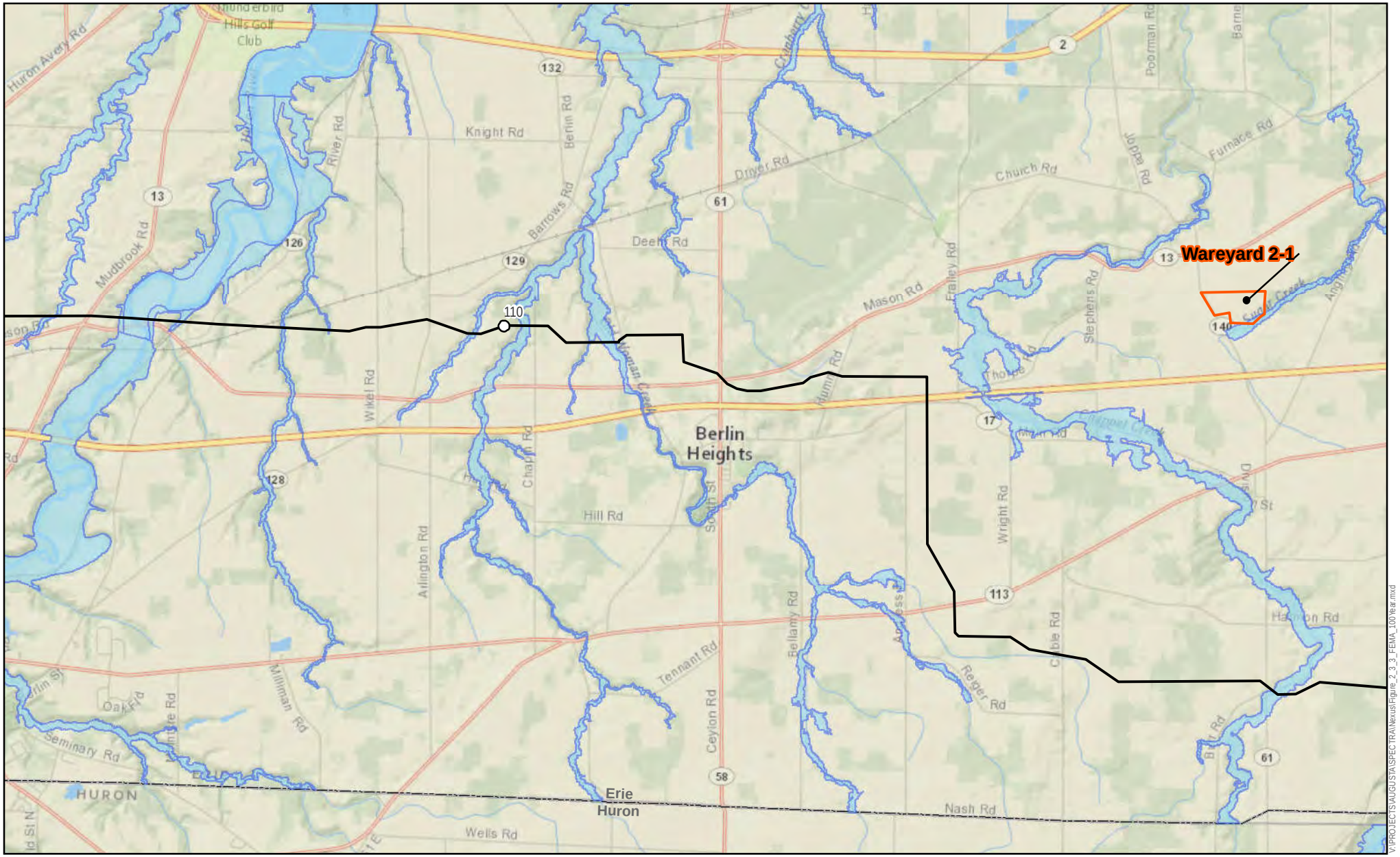
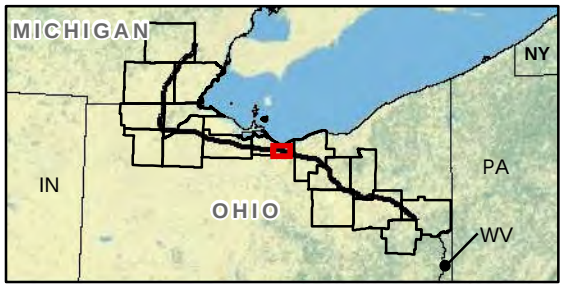
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Lorain and Erie Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Erie County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

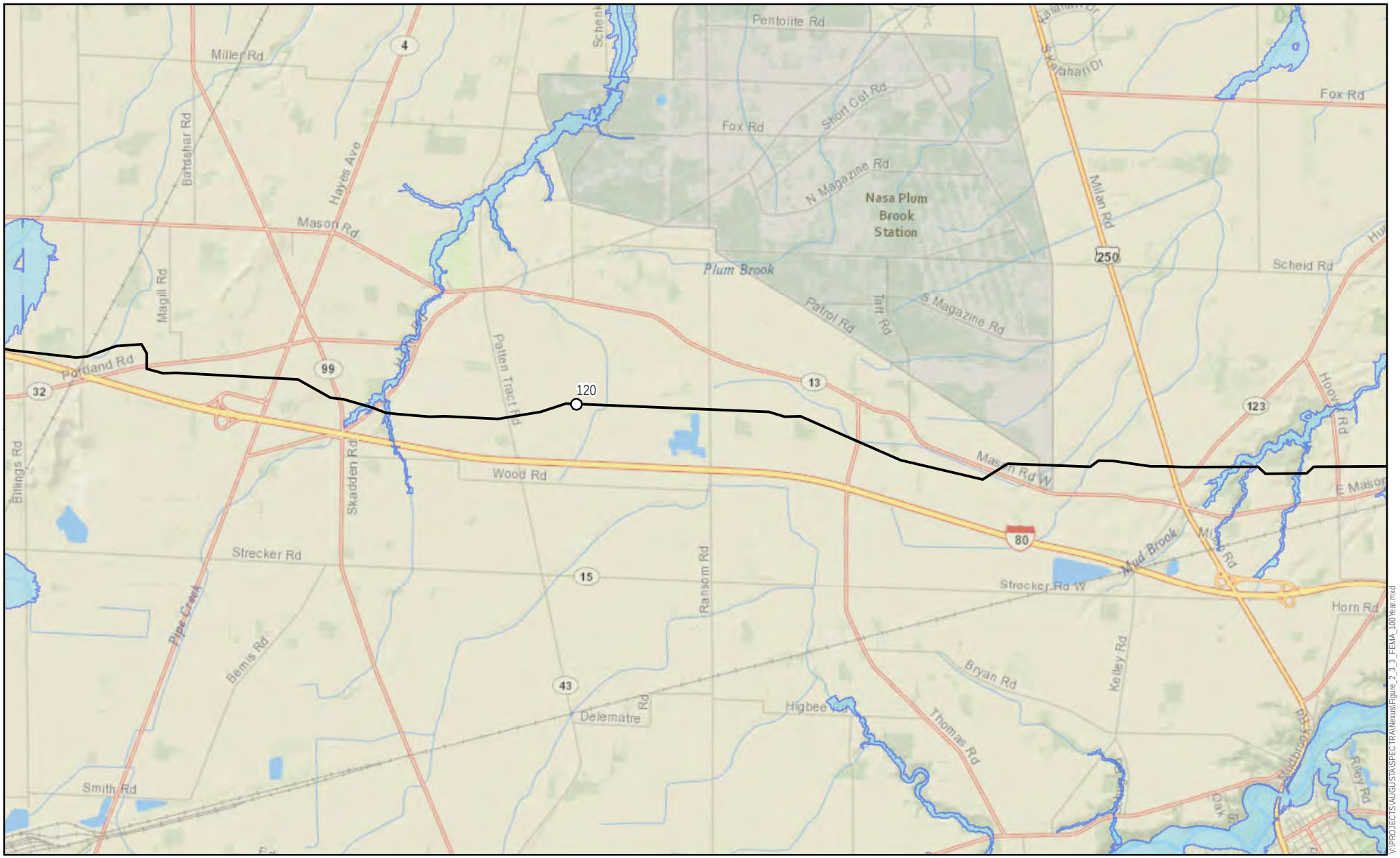
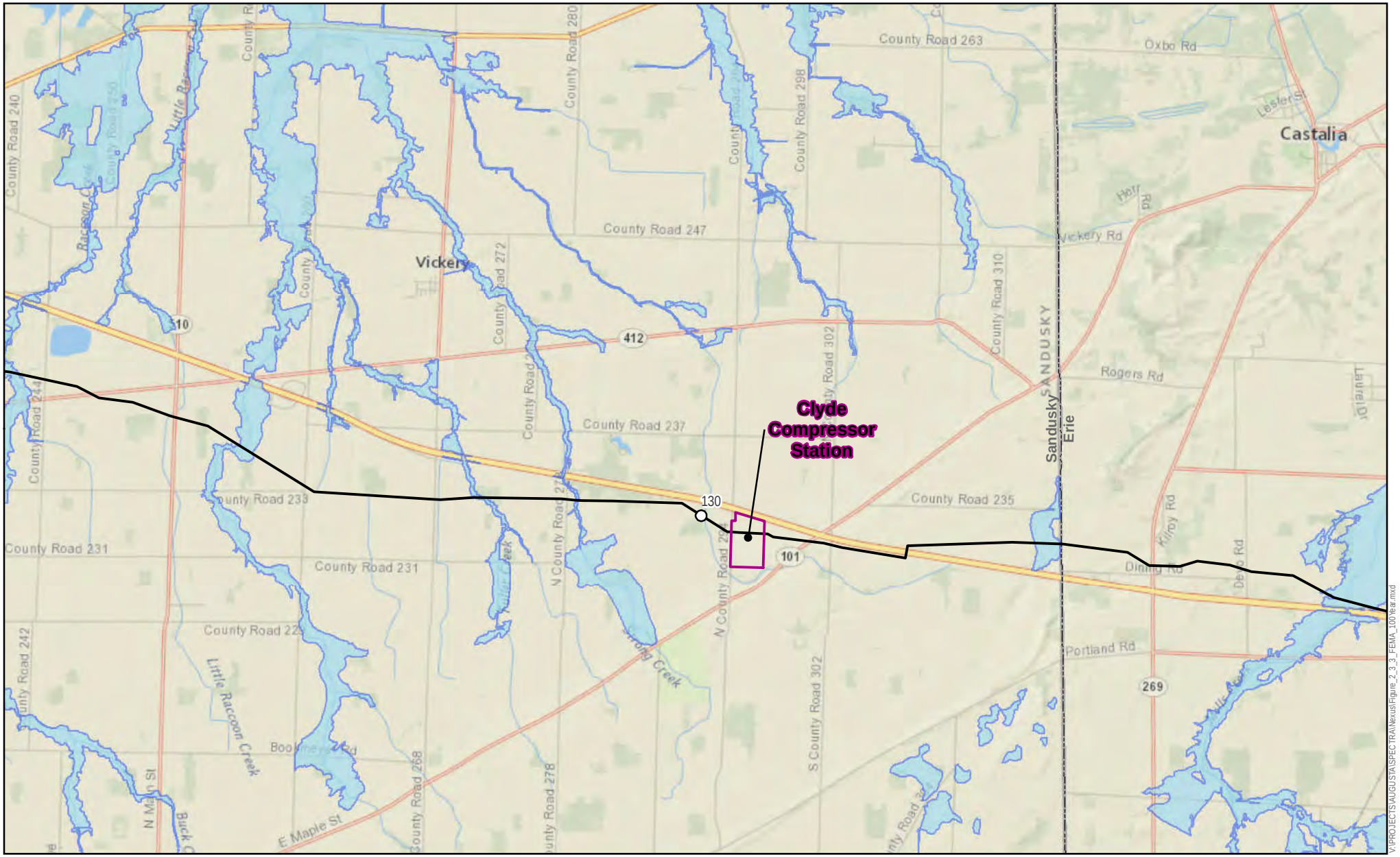


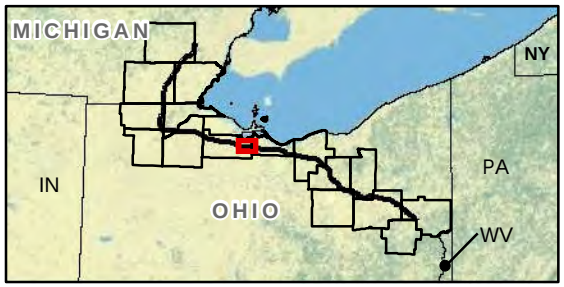

Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Erie County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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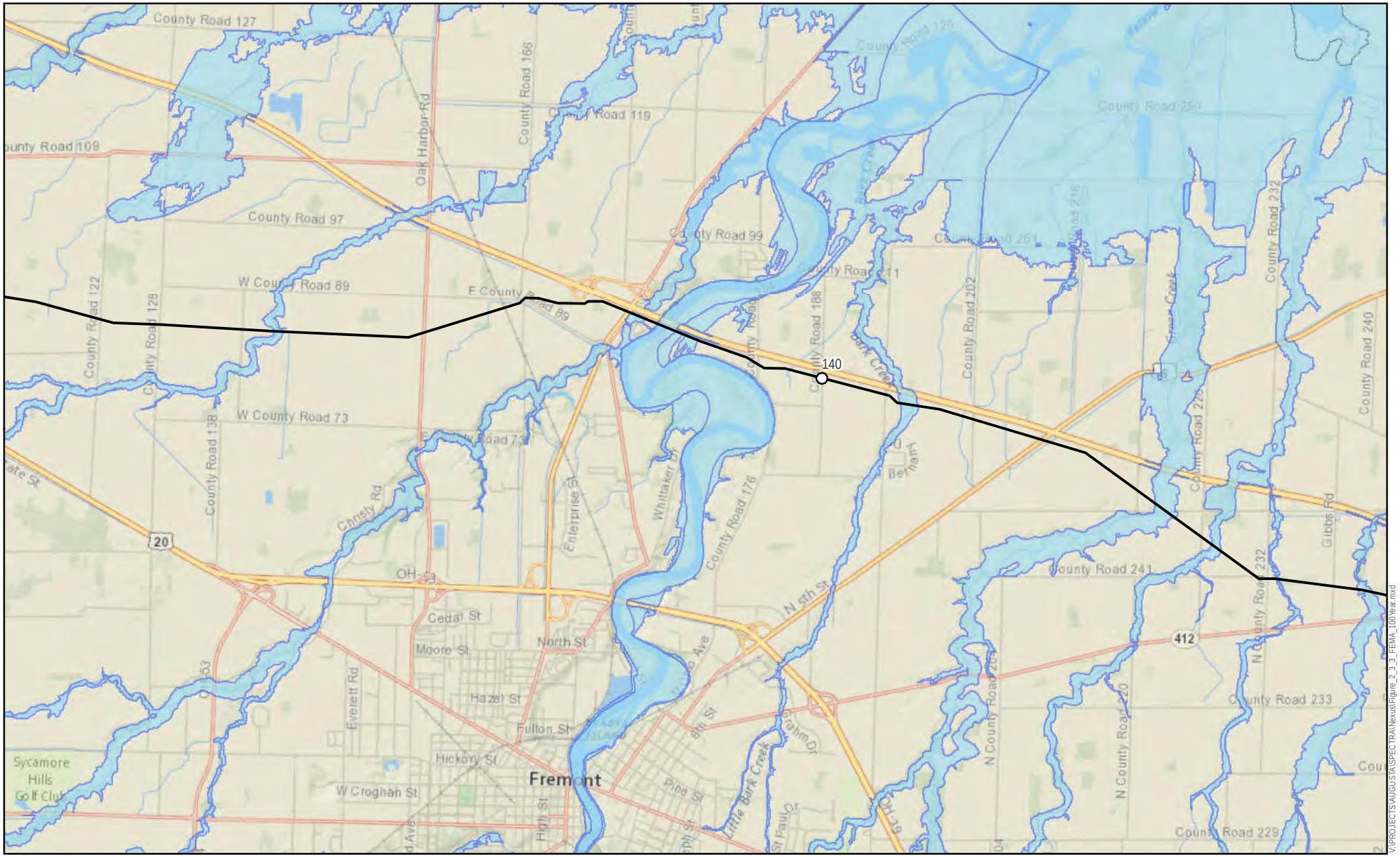
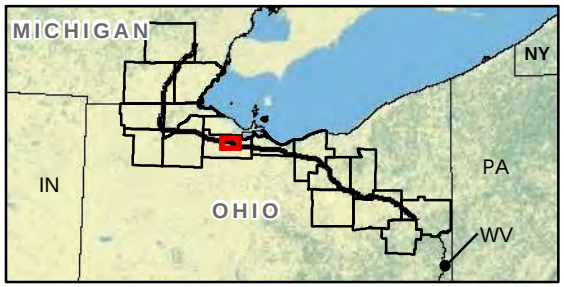
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Erie and Sandusky Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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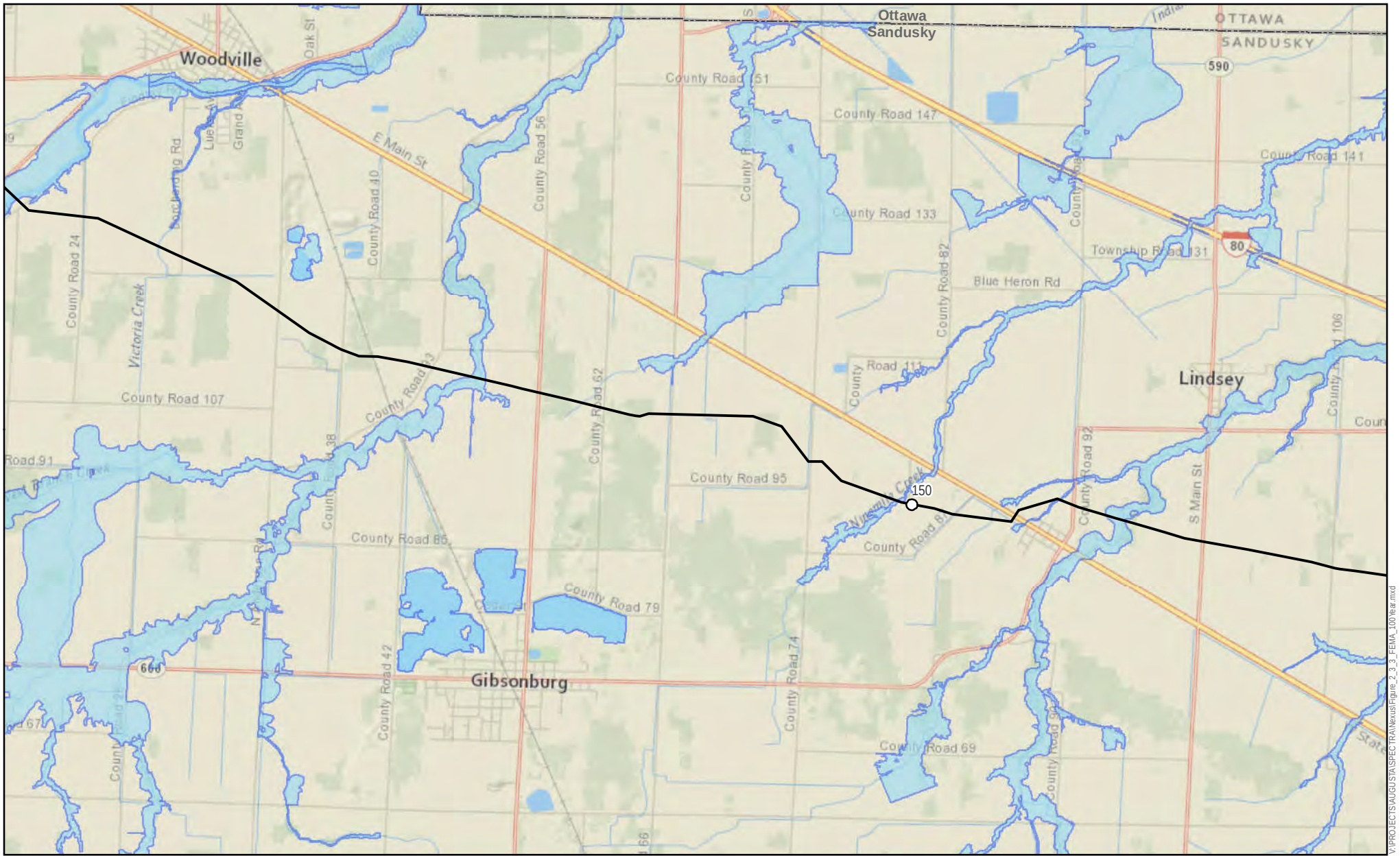
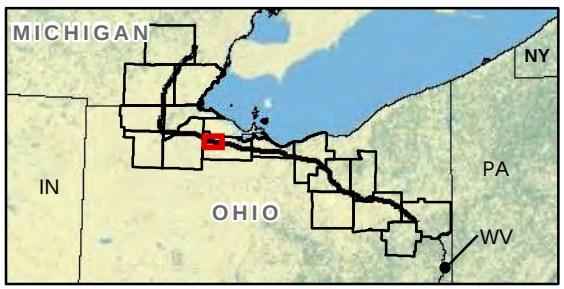
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Erie and Sandusky Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Sandusky County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

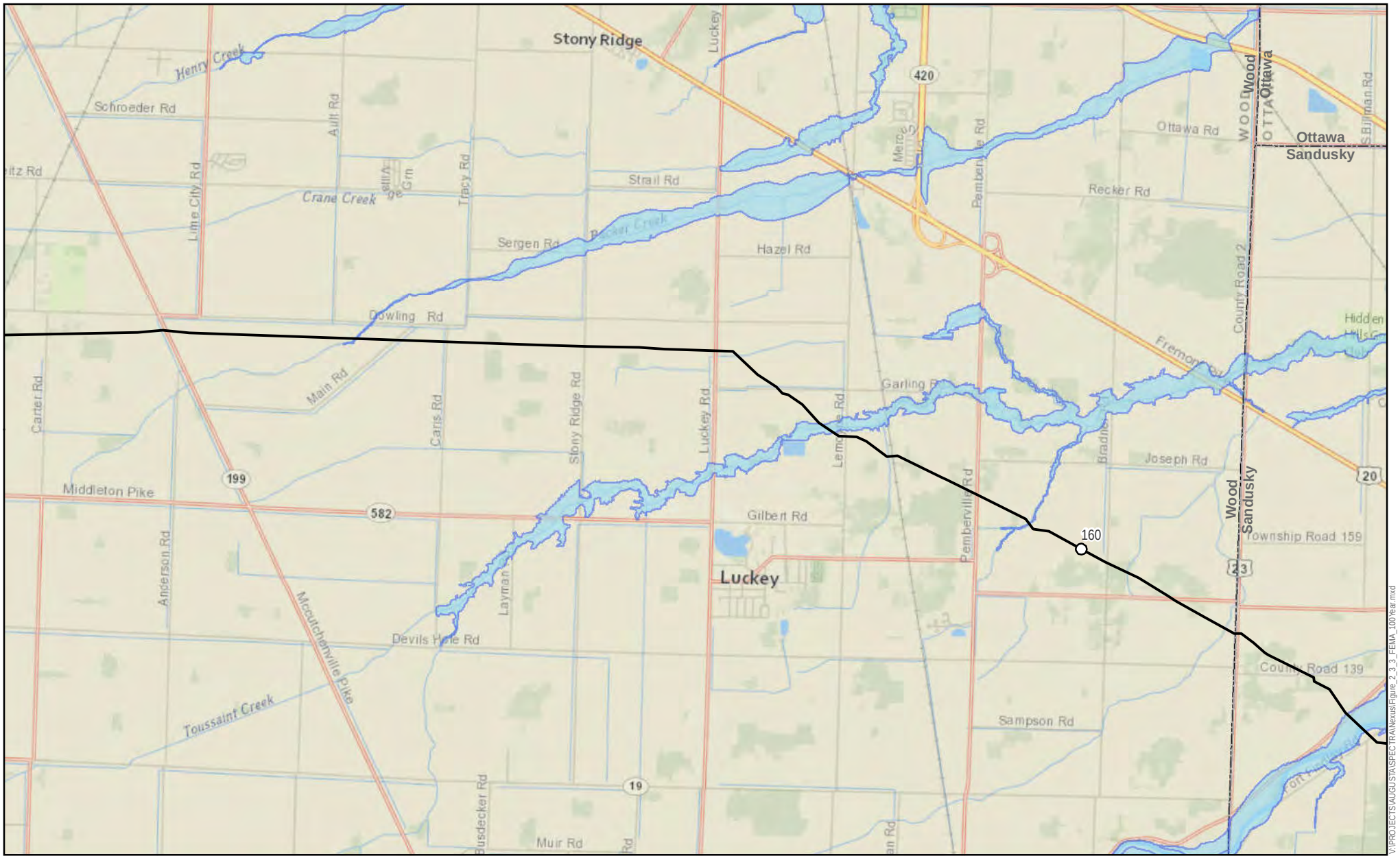
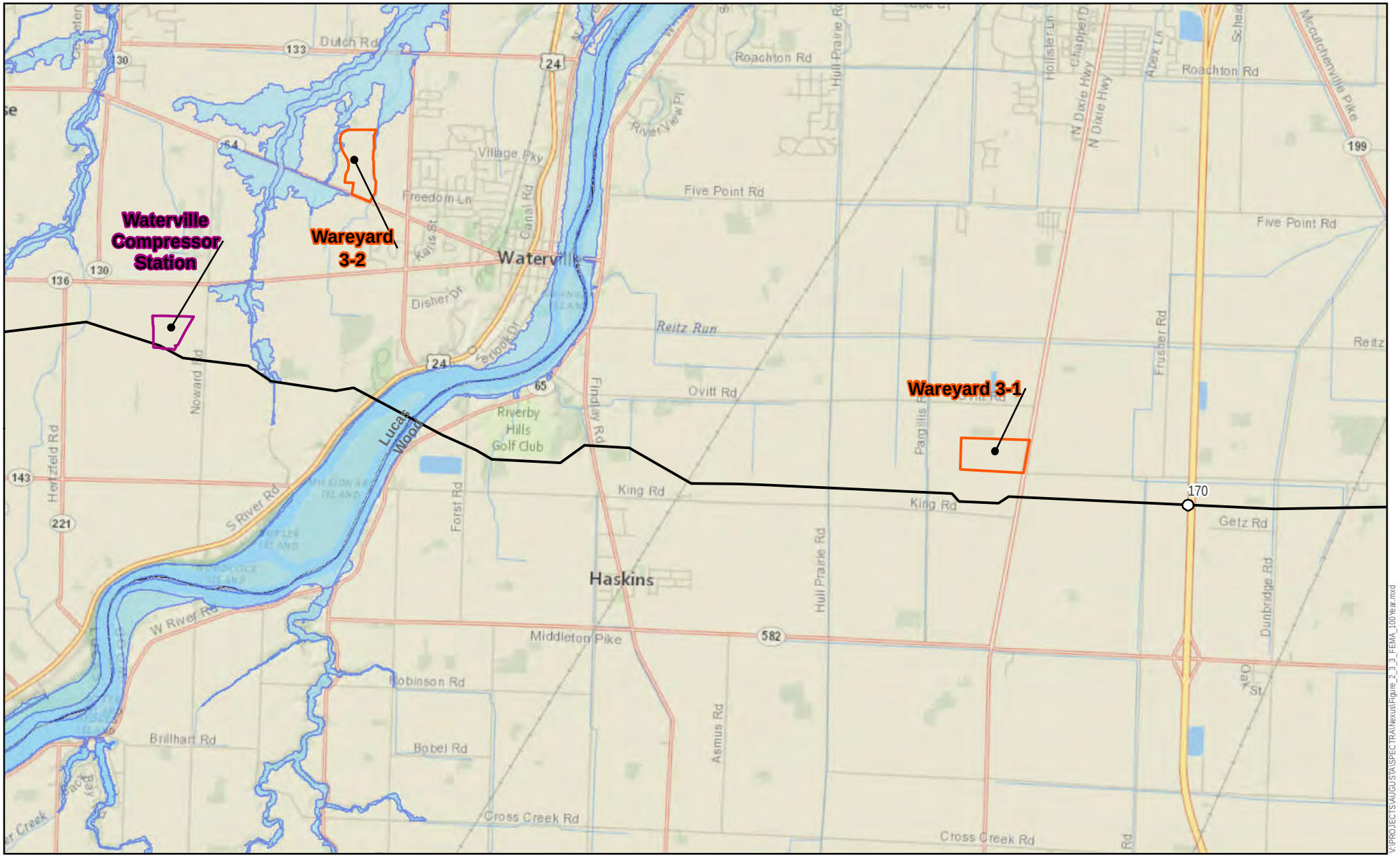


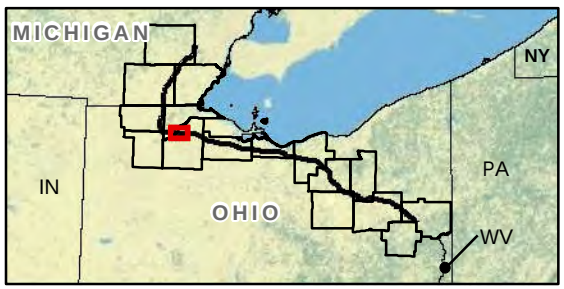

Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Sandusky and Wood Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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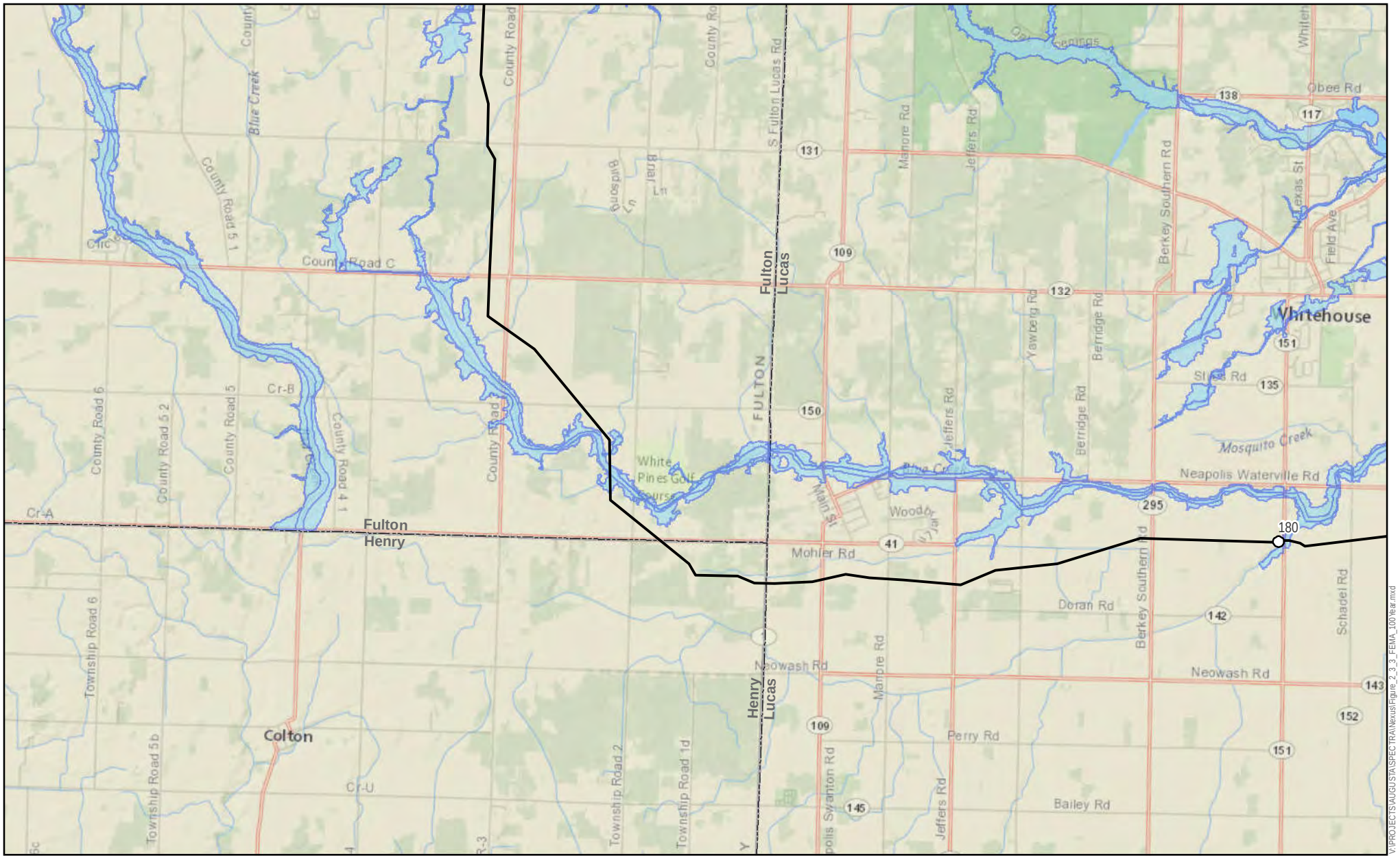
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Wood County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Lucas, Henry and Fulton Counties, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015

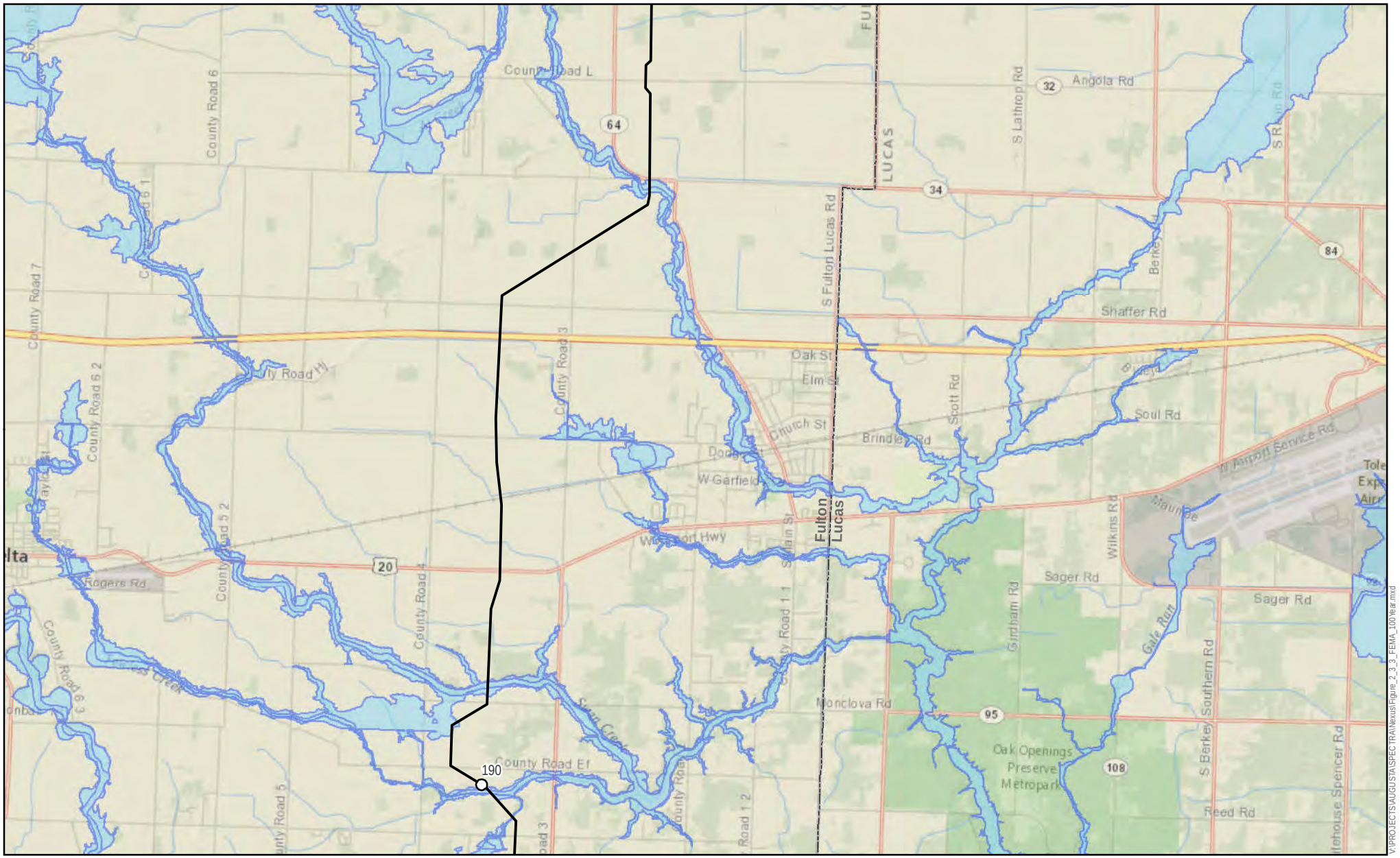


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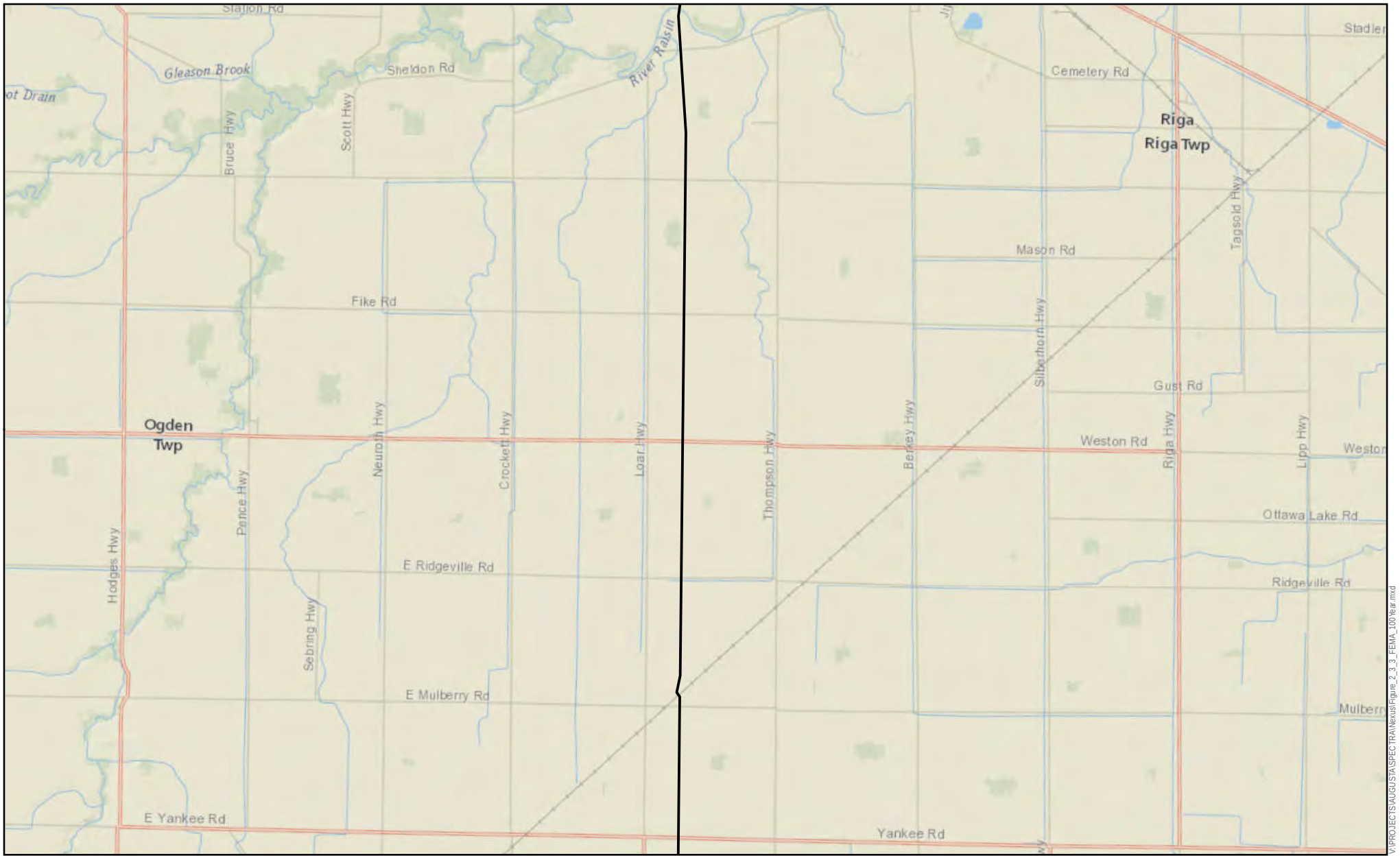
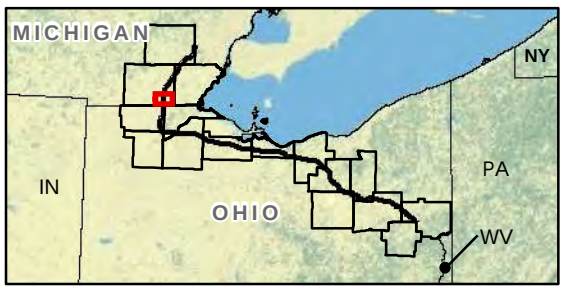
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Fulton County, OH

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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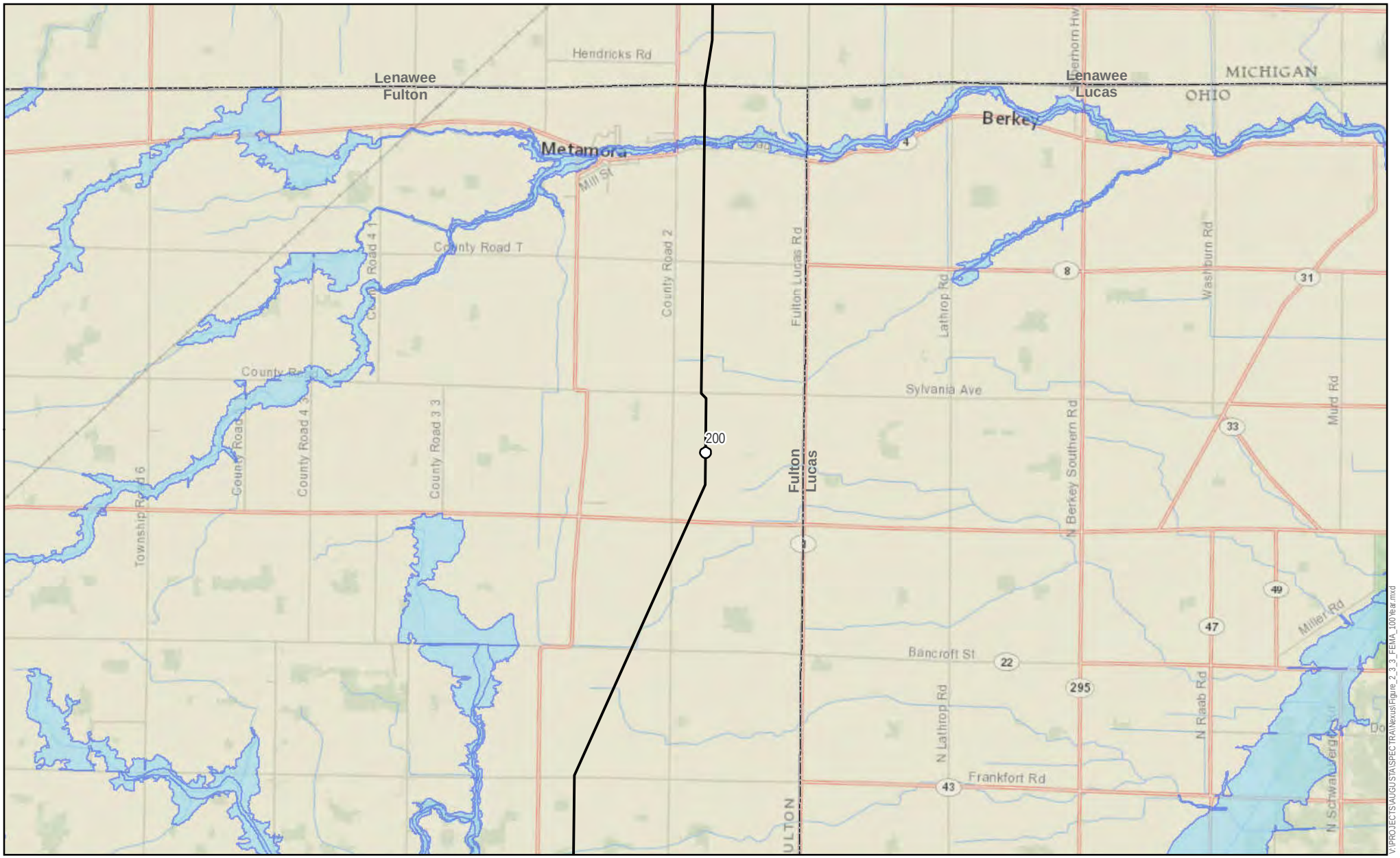
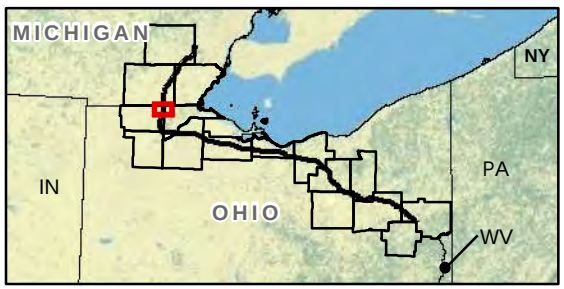
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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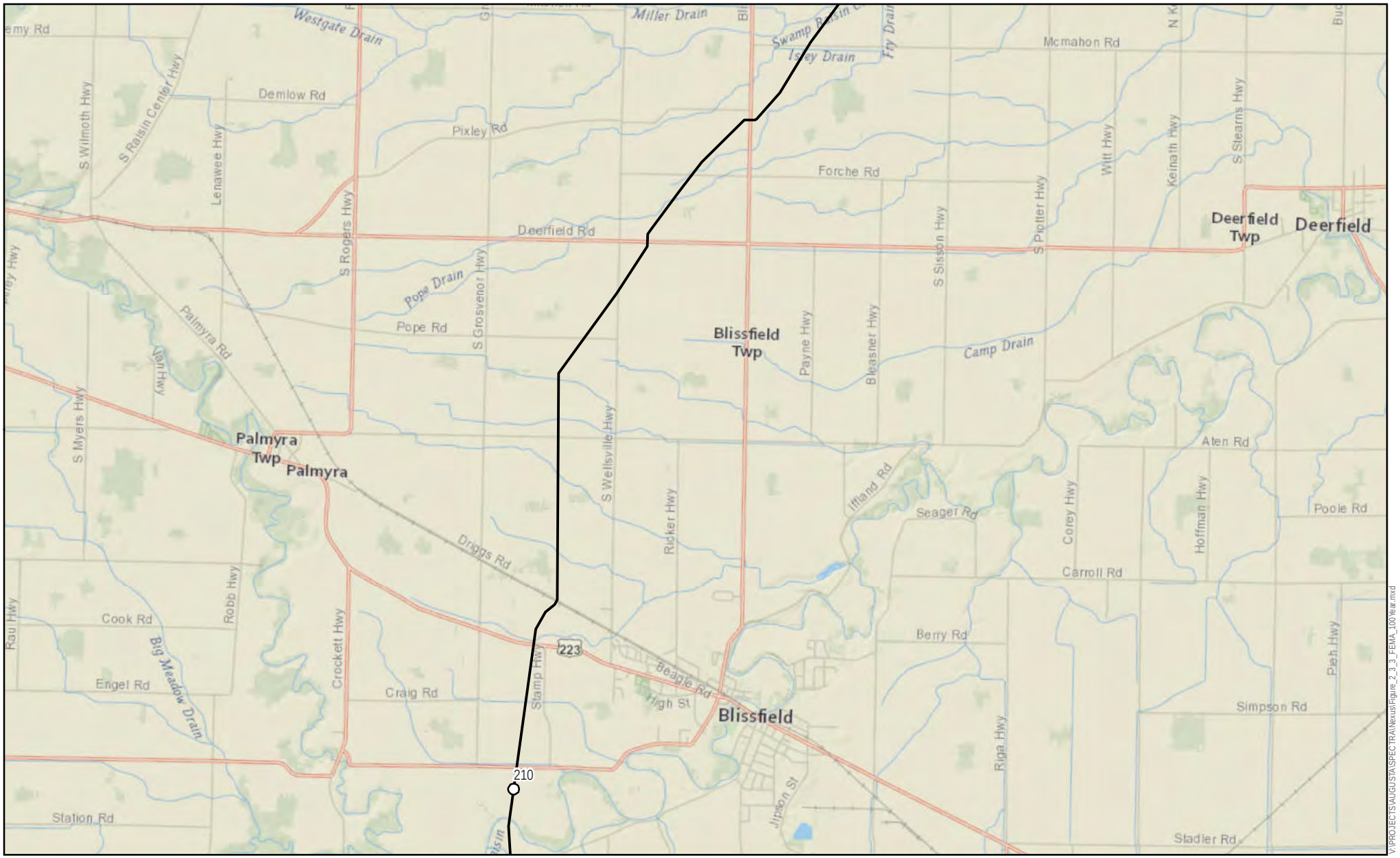
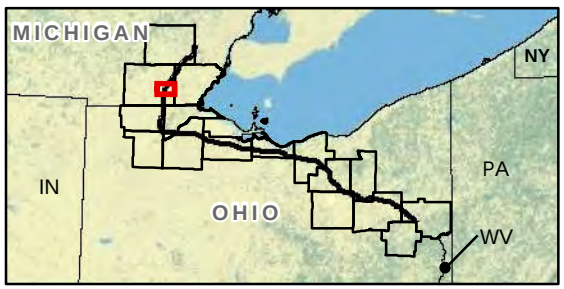
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015



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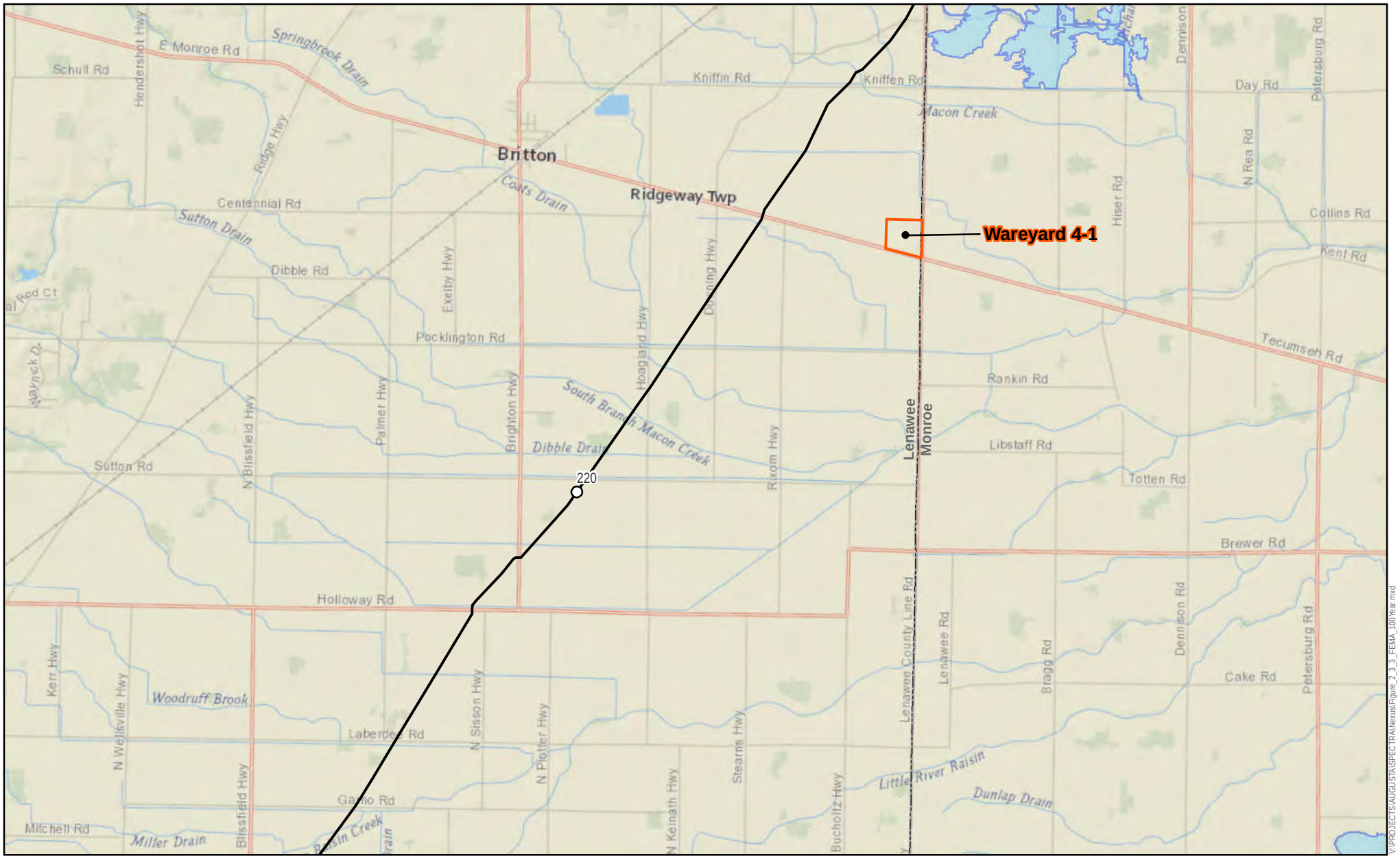


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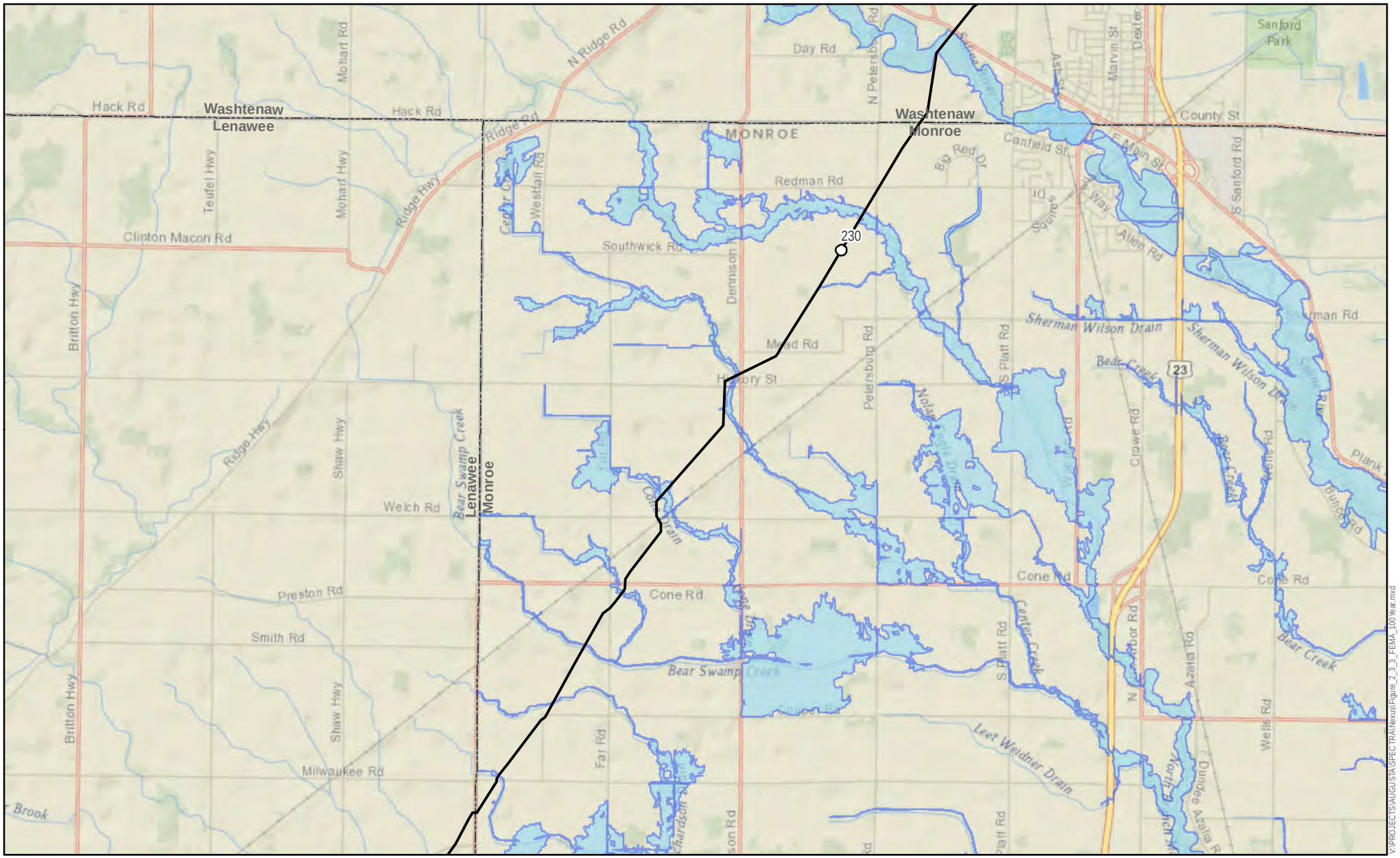
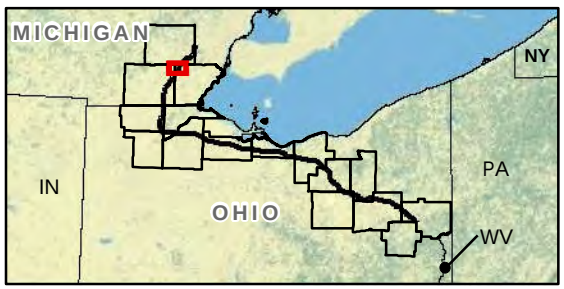
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Lenawee County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

N

0 1 2

Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

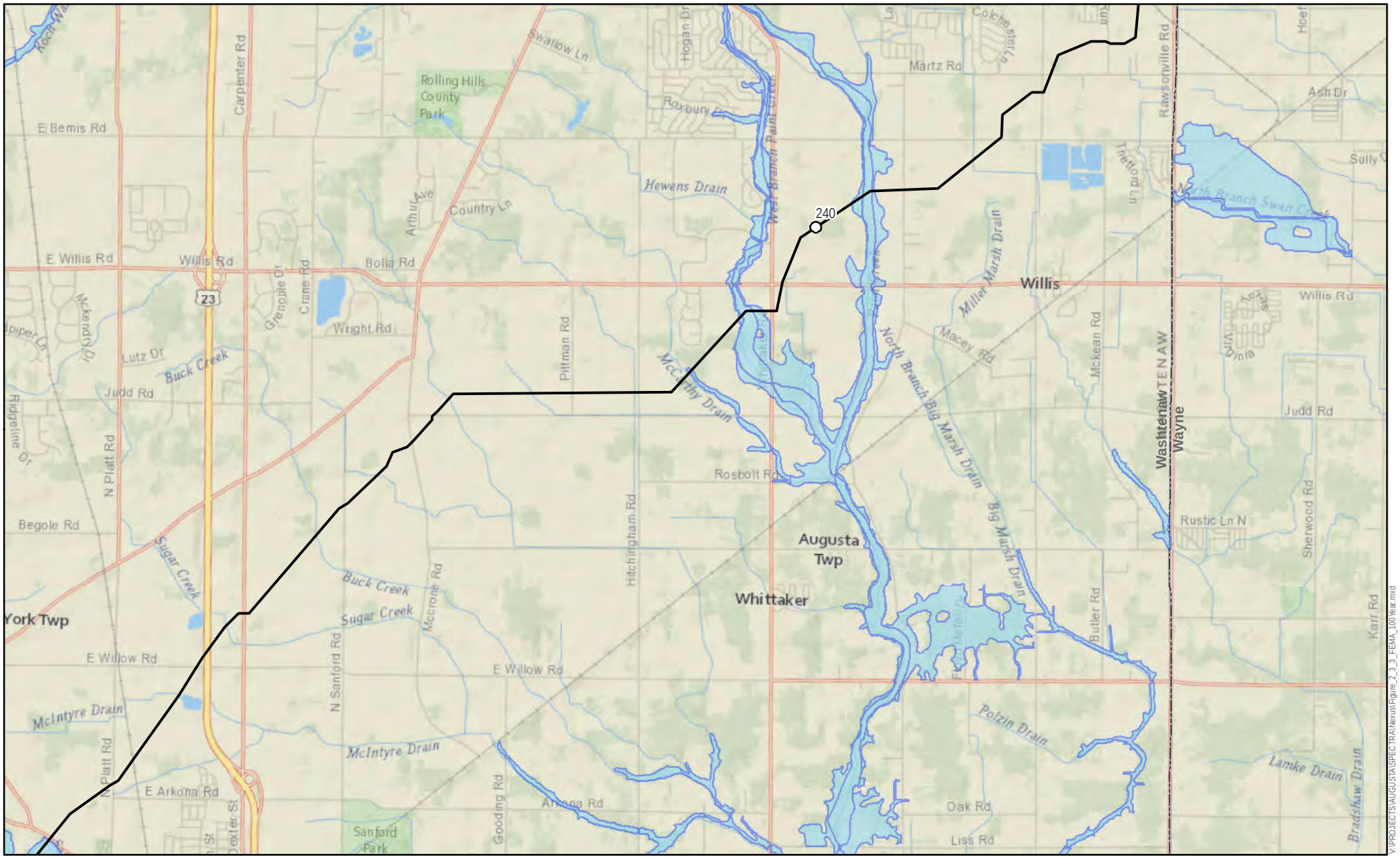
V:\PROJECTS\AUGUST\SPECTRA\Nexus\Figure_2_3_3_FEMA_100Year.mxd

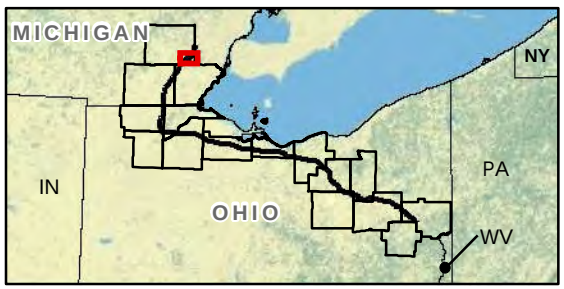
Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Lenawee and Washtenaw Counties, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015




Legend

- Milepost (10 mi)
- Meter Stations
- NEXUS Mainline Pipeline
- TGP Interconnect Pipeline
- FEMA 100 Year Flood Zones
- Proposed Compressor Station Sites
- Wareyards
- Project Counties

0 1 2
Miles

Projection: NAD83, UTM Zone 17N US Survey Feet, Grid North. Data Sources: ESRI, SPECTRA, MI GIS, OH GIS, FEMA and TRC.

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Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Washtenaw County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015

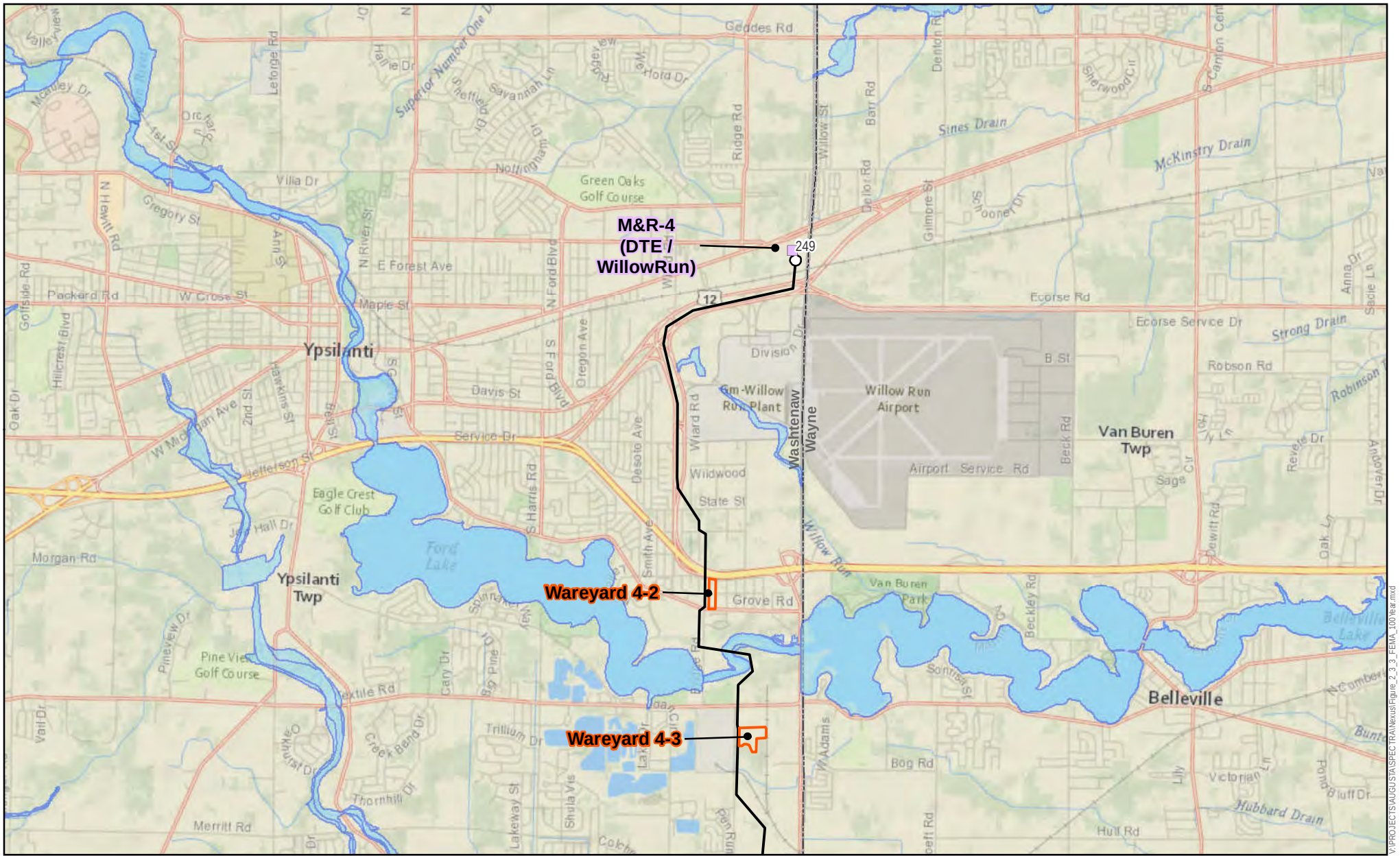


Figure 2.3-3

FEMA Flood Zones
Crossed by the NEXUS Project
Washtenaw County, MI

NEXUS GAS TRANSMISSION

Created: 5/31/2015