



**Letter of Notification
for PIR#559, a 12-inch High Pressure
Gas Distribution Line Project, for an
Existing Pipeline Replacement**

**City of Orrville and Green Township
Wayne County, Ohio**

**Ohio Power Siting Board
Case No. 17-1957-GA-BLN**



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January 29, 2018

Via Electronic Filing

Ms. Barcy McNeal
Administration/Docketing
Ohio Power Siting Board
180 East Broad Street, 11th Floor
Columbus, Ohio 43215-3793

**Re: Dominion Energy Ohio,
Case No. 17-1957-GA-BLN**

Dear Ms. McNeal:

Enclosed for filing in the above-referenced case is a copy of the Letter of Notification Application of Dominion East Ohio ("DEO") to replace approximately 1.16 miles of 12-inch high pressure ("HP") pipeline which spans the area between, Rohrer Road to the north to DEO's Smucker-Border Station at Smucker Street to the south in the City of Orrville and Green Township, Wayne County, Ohio. The new pipeline will be installed within the existing DEO right-of-way ("ROW") to the north and re-routed to the public ROW along W High Street and Smucker Street to the south. In addition, we have provided the Staff of the Ohio Power Siting Board with five hard copies of the Application.

DEO makes the following declarations pursuant to OAC Rule 4906-6-05(A):

Name of Applicant: Dominion Energy Ohio
320 Springside Drive
Akron, OH 44333

**Name/Location of
Proposed Facility:** PIR 559 Distribution Line Replacement Project
City of Orrville and Green Township, Wayne
County, Ohio

**Authorized Representative
Technical:** Jonathon E. Blackwell
Project Manager
320 Springside Drive
Akron, OH 44333
Telephone: 330-664-4666
E-Mail: Jonathon.E.Blackwell@DominionEnergy.com

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Authorized Representative

Legal:

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Devin D. Parram
Bricker & Eckler LLP
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Notarized Statement:

See Attached Affidavit of Jonathon E. Blackwell on behalf of
Dominion Energy Ohio

Sincerely on behalf of
DOMINION EAST OHIO



Sally W. Bloomfield


Enclosure

In the Matter of the Letter of Notification)
Application of Dominion Energy Ohio for the)
PIR 559 City of Orrville and Green Township,) Case No. 17-1957-GA-BLN
Wayne County, Ohio Pipeline Replacement)
Project)

STATE OF OHIO :
 : SS
COUNTY OF SUMMIT :

4. To the best of my knowledge, information and belief, the above-referenced Application is complete.

Sworn



120585391

Sworn to before and signed in my presence this 25 day of January 2018.

MARY MONASTRA
Notary Public, State of Ohio
My Commission Expires 06/ / -

Notary Public

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The following information is in accordance with the procedures set forth in Ohio Administrative Code (“OAC”) Chapter 4906-6 Accelerated Certificate Application Requirements of the Rules and Regulation of the Ohio Power Siting Board (“OPSB” or “Board”).

4906-6-05 APPLICATION REQUIREMENTS

4906-6-05(B)(1): Name and Reference Number

The applicant is Dominion Energy Ohio (“DEO”). The name of the pipeline project is PIR#559-High and Sunset and MWO 63447856 is the internal project number.

4906-6-05(B)(1): Brief Description of Project

DEO is planning to construct and replace approximately 5,000 feet of existing 8-inch diameter pipeline with about 6,100 feet of a new 12-inch diameter natural gas pipeline within existing DEO easements and public right-of-ways (“ROW”). The new pipeline will have an MAOP of 249 pounds per square inch gauge (“psig”). The project spans the area between Rohrer Road to the north and DEO’s Smucker-Border Station, in Smucker Street, to the south. The new pipeline will be installed within the existing DEO easements to the north and re-routed to public ROWs along West High Street and Smucker Street to the south. The existing pipe will be abandoned in place within the easements and the installed pipeline will be laid in a new trench. The new pipeline will be connected or tied to the aforementioned pressure regulating station using a small section of 6-inch diameter pipe.

The proposed pipeline is located within the City of Orrville and Green Township in Wayne County, Ohio, as described above. Existing public roadways, private roadways, and DEO easements will provide the required equipment access.

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4906-6-05(B)(1): Why the Project Meets the Requirements for a LON

This project qualifies as a Letter of Notification (“LON”) because it fits the criteria of OAC Rule 4906-1-01, Appendix B (1) that provides for the replacement of an existing pipeline if it is not more than five (5) miles (LON) in length. In this instance, DEO will be constructing and replacing 1.16 miles of pipeline.

The new replacement pipeline will be located entirely within DEO’s service area. DEO owns and operates the existing line that will be replaced and will continue to own and operate the replacement pipeline.

4906-6-05(B)(2): Statement of Need for the Proposed Facility

DEO currently transports gas via the existing pipeline to supply numerous distribution pipeline systems that ultimately serve end use customers. Various replacement projects, such as this one, allow DEO to mitigate integrity risks by preventive measures for a continued compliance with DEO’s Distribution Integrity Management Program. Those preventive measures, among others, include the elimination of bare and ineffectively coated steel, wrought or cast iron and copper pipe. The primary purpose of this replacement will be to take the aging and obsolete pipeline out of service to assure a safe and reliable natural gas supply to DEO’s customers. The project design and construction is an effort to continue meeting the existing supply and demands while maintaining pipeline safety and integrity under current regulations.

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4906-6-05(B)(3): Location of the Project

Attachment A contains a map that illustrates the location of the proposed project in relation to existing or proposed lines and the existing station on an area system map.

The new pipeline will run in a southeast to northwest direction between Rohrer Road and West High Street, in a west to east direction along West High Street until Smucker Street, and in a north to south direction along Smucker Street up to DEO's Smucker-Border Station.

DEO's private easement to the north and Rohrer Road are situated in Green Township in Wayne County. The rest of DEO's private easements, West High Street, and Smucker Street are located in the City of Orrville in Wayne County.

There are no roads that fall under the jurisdiction of Ohio Department of Transportation. The project area does not have any operating or abandoned railroad facilities either.

4906-6-05(B)(4): Alternatives Considered

As mentioned earlier, DEO is planning to replace an existing 8-inch diameter pipeline with a 12-inch diameter pipeline, totaling approximately 6,100 feet, within existing private easements and public ROWs. Of that, about 4,000 feet will be offset from the existing pipe within the easements and nearly 2,100 feet shall be re-routed to the public ROWs. Other alternatives considered included lifting the old line and laying the new one in the old trench. That is not a viable option, however, as the line has a one-way feed and cannot be taken out of service. Another alternative would be installing the new line within the easement instead of re-routing to public ROWs. Doing this would involve the construction of the new pipeline in the front and back yards of numerous residents to the south side of West High Street and to

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the west side of Sunset Drive and Smucker Street. This would create a larger disturbance for the residents whose properties the pipe runs through. By installing part of the pipeline within the public ROWs and not using the old trench, the residents' land will remain unaffected and there will be less disruption.

4906-6-05(B)(5): Description of Public Information Program

DEO has sent a letter to property owners and tenants listed on **Attachment B** informing them of the nature of the project, the proposed timeframe of project construction, and restoration activities. Two more letters will be sent prior to construction with additional information about construction and restoration activities.

The first notification letters was sent on September 14, 2017 (**Attachment C-1**). DEO re-sent the first notification letters the week of January 22, 2018 notifying the property owners of the change in date of the start of pipeline construction (**Attachment C-2**). The letters were sent to all parties identified on **Attachment B**. A copy of the model letter that will be sent to the landowners within seven (7) days of filing this application is also included as **Attachment C-3**. A copy of the model pre-construction letter to be sent to all the landowners and tenants prior to the start of construction is included as **Attachment C-4**.

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4906-6-05(B)(6): Anticipated construction schedule, in-service date

The construction of the replacement pipeline is anticipated to begin in April 2018. DEO plans to place the line in-service by July 2018, and expects to complete the restoration activities by December 2018.

4906-6-05(B)(7): Project Area Map and Directions

An area map that is at least of a 1:24000 scale depicting nearby roads, streets, and highways is attached as **Attachment A**.

4906-6-05(B)(8): Property Owner List

A list of the affected properties for which DEO has existing easements, and/or land use agreements is given as **Attachment B**, which also contains the addresses of tenants affected by the accelerated application.

4906-6-05(B)(9)(a): Characteristics, Structures, ROW and Land Requirements

Pipeline MAOP: The new pipeline will operate at an MAOP of 249 psig, and have a diameter of 12 inches.

Pipe Material: The proposed 12-inch steel pipeline will have a wall thickness of 0.375 inch and a yield strength of 52,000 pounds per square inch (“psi”). Several 12-inch gate valves, rated 300 ANSI, will be installed along the pipeline as well. The pipeline will be cathodically protected by a galvanic system consisting of seventeen (17) pound anodes. The project pipe will be externally coated with 14-16 Mils of Fusion Bonded Epoxy or Powercrete with 40 Mils of additional overcoat.

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Structures: No additional structures will be required for the new pipeline. However, the proposed pipe shall be tied to the Smucker-Border Station within DEO's existing facility.

Right-of-Way ("ROW") and/or Land Requirement: The existing pipeline will be abandoned and the new pipeline installed with an offset of about 10-15 feet from the existing line within the private easements and re-routed, partially, along the public ROWs. Existing public roadways shall provide the required equipment access into the private easements. The Smucker-Border Station in Smucker Street, to which the proposed pipeline shall be connected, is currently owned and maintained by DEO.

As is customary with DEO's projects, the chosen contractor will select the area(s) for material laydown and will arrange for the temporary easements directly. As soon as the contractor selects the laydown area(s), DEO will provide OPSB Staff with the laydown location(s) as late-filed information. DEO requests that the submission of the laydown information be made a condition in the Staff Report as has been the case in the following *Dominion Energy Ohio* cases: Case Nos. 17-2502-GA-BLN; 17-1873-GA-BNR; 17-1944-GA-BNR; and Case No. 17-467-GA-BNR. Construction of the project will not begin until the Staff has approved the laydown area(s).

4906-6-05(B)(9)(b): Electric and Magnetic Fields

This project involves the construction of a natural gas pipeline; therefore, this section is not applicable.

4906-6-05(B)(9)(c): Estimated Capital Costs

The capital cost of this project is estimated to be approximately \$1,800,000.

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4906-6-05(B)(10): Social and Ecological Impacts

4906-6-05(B)(10)(a): Land Use

The proposed project is located within the City of Orrville and Green Township in Wayne County, Ohio. Approximately 2,100 feet of the newly installed pipe will be re-routed to the public ROWs and nearly 4,000 feet will be installed within DEO's existing easements. Approximately 5,000 feet of existing 8-inch pipeline shall be abandoned in place within the easements with minimal land disturbance. Land use associated with the project area consists of moderately populated residential and agricultural areas comprised of lawn, agricultural field, and successional wooded properties. The wooded area extends over 1,750 feet (0.33 miles) of the existing DEO easements and will be partially cleared to facilitate construction. Clearing of any trees, required for construction, shall take place during the seasonal clearing window from October 1 to March 31.

4906-6-05(B)(10)(b): Agricultural Land

As mentioned previously, land use associated with the project area consists of agricultural areas, moderately populated residential areas, and successional woods. The agricultural area identified as Davel Farms, Inc., located at 9829 Rohrer Road, is designated as an Agricultural District pursuant to Ohio Revised Code Section ("R.C.") 929.01. However, pursuant to the R.C. 929.05(D), this section does not apply to any lines or other facilities used to transmit or distribute electricity, to any gas or oil pipeline or other facilities used for exploration, production, storage, transmission, or distribution of natural gas, synthetic gas, or oil, to any telephone lines, or to any activity or facility under

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the jurisdiction of the Ohio Power Siting Board. Therefore, no coordination with the Department of Agriculture is necessary.

4906-6-05(B)(10)(c): Archeological and Cultural Resources

In June 2017, DEO's consultant, Davey Resource Group performed a Desktop Literature Review of archeological and cultural resources for the study corridor (refer to page 4 in **Attachment D** and **Attachment E**). The study corridor of their assessment included roughly 30 feet on either side of the existing and proposed pipeline locations within the sixty (60)-foot restricted corridor in the easements and about twenty (20) feet from the road centerline for all roads within the project area. The desktop literature review included a search for records of Determinations of Eligibility, Ohio Archaeological Inventory ("OAI") Properties, National Register Listed Districts, National Register Listed Properties, Ohio Historic Inventory ("OHI") properties, and Phase 1, 2, or 3 survey areas.

According to the records search, no known historic or archaeological features are located within or adjacent to the project area. During field assessments conducted on July 7 and September 8, 2017, no rock outcrops, rock overhangs, historic foundations, or other features were observed within the project area that would indicate significant historic or prehistoric cultural use of the area.

4906-6-05(B)(10)(d): List of Governmental Agencies with Requirements

The following agencies have requirements to be met at various times by this project:

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Name of Agency	Document Submitted	Date	Attachment
U.S. Fish and Wildlife Service (“USFWS”)	Information for Planning and Consultation system (“IPAC”)	September 25, 2017	H
Ohio Historic Preservation Office (“OHPO”)	Field Summary Report	October 4, 2017	D
	Desktop Literature Review Resource Map		E
Wayne County Soil and Water Conservation District (“SWCD”)	Stormwater Pollution Prevention Plan (“SWPPP”)	October 2, 2017	F-1
	SWCD Response and Revised Application	October 17, 2017	F-2
	Final SWPPP Approval	November 22, 2017	F-3
Ohio Environmental Protection Agency	NOI for General Construction Stormwater Permit Application	September 26, 2017	G-1
	NOI Approval	October 10, 2017	G-2
Ohio Department of Natural Resources	Endangered Species Consultation	September 29, 2017	I-1
	ODNR Response	October 24, 2017	I-2
City of Orrville Engineering Department	Requisite construction permits		To be obtained prior to construction

A construction Storm Water Pollution Prevention Plan (“SWPPP”) has been prepared for the project. A copy of the final SWPPP is attached in **Attachment F-2**. The SWPPP will be included in the package submitted for competitive bids from contractors. In addition, the SWPPP was submitted on October 2, 2017 to the Wayne County Soil and Water Conservation District (“SWCD”) for review and approval prior to construction (**Attachment F-1**). Initial comments were received from Wayne County SWCD on October 17, 2017 and the SWPPP was updated accordingly (**Attachment F-2**).

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Authorization was received on November 22, 2017 (**Attachment F-3**) from the Wayne County SWCD and is valid for one (1) year from the date of approval.

A Notice of Intent application, for coverage under the Ohio Environmental Protection Agency (“Ohio EPA”) General Permit OHC000004 – Construction Storm Water, was submitted on September 26, 2017 for the project and the application is included as **Attachment G-1**. An approval letter was issued on October 10, 2017 (Ohio EPA Number: 3GC09664*AG), and is included in **Attachment G-2**. The authorization from the Ohio EPA is valid as long as the general permit is in effect, until April 20, 2018. If construction is not completed by this date, coordination with the Ohio EPA may need to be re-initiated.

Hydrostatic testing will need to be completed for this project. The discharge method and location for hydrostatic test water will be determined when the construction contract is awarded or during the pre-construction meeting. Should hydrostatic test water be discharged into Waters of the State, authorization for coverage under the Ohio EPA General Permit OHH000002 – Hydrostatic Test Water is required. A Hydrostatic Test Water Discharge Notice of Intent (“HTNOI”) must be submitted to the Ohio EPA one month prior to hydrostatic testing. If applicable, an approval from the Ohio EPA shall be obtained and be late filed. Once approved, the contractor will adhere to the applicable construction terms and conditions of Hydrostatic Test Water General Permit OHH000002.

Once construction plans are completed, they will be submitted to the City of Orrville for the appropriate construction permits.

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There are no other known local, state, or, federal requirements that must be met prior to commencement of construction on the proposed pipeline project.

DEO requests that Staff include a condition such as the one that has been included in the following *Dominion Energy Ohio* cases: Case Nos. 17-1973-GA-BNR; 17-1944-GA-BNR; 17-823-GA-BNR; 17-467-GA-BNR; and 17-360-GA-BNR that prior to the commencement of construction activities in areas that require permits or authorizations by federal or state laws and regulations, DEO shall obtain and comply with such permits or authorizations.

4906-6-05(B)(10)(e): Federal and State Designated Species

On July 7 and September 8, 2017, DEO's consultant, Davey Resource Group, reviewed the project area for suitable habitat for federally listed species known to be located within Wayne County, Ohio. The study area included roughly 30 feet on either side of the existing and proposed gas lines within the sixty-foot (60') wide restricted corridor in the easements and about twenty (20) feet beyond the edge of pavement for all roads in the project. The existing easements extend approximately 3,700 feet northwest from West High Street to Rohrer Road. The new gas line is proposed to be installed along the road ROW of West High Street and Smucker Street.

The study area contains two (2) streams, but these streams will not be impacted as the pipeline will be installed via horizontal directional drilling beneath these water resources. As such, neither a permit nor an authorization is required by the U.S. Army Corps of Engineers ("USACE"), nor is there any other federal nexus involved with the implementation of this project. Therefore, no formal coordination was conducted with the

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U.S. Fish and Wildlife Service (“USFWS”); however, review of potential habitat for the federally listed species located in Wayne County is discussed below.

The federally listed species whose range includes Wayne County are the federally endangered **Indiana bat** (*Myotis sodalis*); the federally threatened **northern long-eared bat** (*Myotis septentrionalis*); the federally threatened **eastern prairie fringed orchid** (*Platanthera leucophaea*); the federally threatened **eastern massasauga** (*Sistrurus catenatus*); and the **bald eagle** (*Haliaeetus leucocephalus*), a federal species of concern.

According to Davey Resource Group (**Attachment D**), PIR 559 is in a rural agricultural and a residential setting with trees of various sizes scattered throughout the project area. However, the riparian corridors of Streams 1 and 2, and the successional woods surrounding them, which are approximately thirty (30) acres in size, could provide potential habitat for the **Indiana bat** and **northern long-eared bat**. No trees or wooden structures were identified within the study area that have characteristics that may potentially provide habitat for these bats. In order to minimize impacts to the federally listed bats, clearing of trees within the project area shall be conducted during the seasonal clearing window from October 1 to March 31.

The federally threatened **eastern prairie fringed orchid** (*Platanthera leucophaea*) occurs in a variety of habitats including mesic prairies, sedge meadows, marsh edges, bogs, wet, unplowed tall grass prairies and meadows, old fields, and roadside ditches. The eastern prairie fringed orchid requires full sun and little to no woody encroachment. The eastern prairie fringed orchid was identified as a species potentially affected by activities at the project location per the USFWS Information for Planning and Consultation system

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(“IPAC”), which reviews the study area in relation to range maps of listed species records (**Attachment H**). However, the fields within the project area are regularly maintained and the swales or ditches, within the study area, are located within the successional woods and are shaded from the surrounding woods.

The federally threatened **eastern massasauga** (*Sistrurus catenatus*) is a small, docile rattlesnake found in wet prairies, marshes, fens, and low areas along rivers and lakes. No wetlands or other potential habitats occur within or immediately adjacent to the study area. Further, the eastern massasauga was not identified as a species potentially affected by activities at the project location per the USFWS IPAC system (**Attachment H**).

The **bald eagle** (*Haliaeetus leucocephalus*), a species of concern, is protected under the Bald and Golden Eagle Protection Act. The bald eagle nests in large trees near water. No bald eagles or bald eagle nesting sites were observed within or adjacent to the study area. Additionally, Green Township within Wayne County has no known bald eagle nesting sites per information provided by USFWS.

DEO initiated coordination with the Ohio Department of Natural Resources (“ODNR”) for the project on September 29, 2017 to determine potential impacts to state-listed species and natural areas with ecological and/or geological significance prior to construction (**Attachment I-1**). A response was received on October 24, 2017 (**Attachment I-2**).

According to ODNR, the ODNR Natural Heritage Database has no records at or within a one (1) mile radius of this project site. The ODNR Division of Wildlife

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("DOW") recommends that impacts to streams, wetlands, and other water resources be avoided and minimized to the fullest extent possible, and that best management practices be used to minimize erosion and sedimentation.

The DOW has determined that the project area occurs within the range of the species listed below and thus the construction activities may pose a potential effect on these species. ODNR provided the following guidance and recommendations:

Lake chubsucker: The project is within the range of the state threatened lake chubsucker (*Erimyzon sucetta*). Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact this species.

Eastern massasauga: The project is within the range of the state endangered and federally threatened eastern massasauga (*Sistruius catenatus*). The eastern massasauga uses a range of habitats including wet prairies, fens, and other wetlands, as well as drier upland habitat. Due to the location, the type of habitat present at the project site and within the vicinity of the project area, and the type of work proposed, this project is not likely to impact this species.

American bittern: The project is within the range of the state endangered American bittern (*Botaurus lentiginosus*). Nesting bitterns prefer large, undisturbed wetlands that have scattered small pools amongst dense vegetation. Due to the location, the type of habitat present at the project site, and the type of work proposed, this project is not likely to impact this species.

Sandhill crane: The project is within the range of the state endangered sandhill crane (*Grus canadensis*). Sandhill cranes are primarily a wetland-dependent species. On

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their wintering grounds, they will utilize agricultural fields; however, they roost in shallow, standing water or moist bottomlands. Due to the location, the type of habitat present at the project site, and the type of work proposed, this project is not likely to impact this species.

Trumpeter swan: The project is within the range of the state endangered trumpeter swan (*Cygnus buccinator*). Trumpeter swans prefer large marshes and lakes ranging in size from 40 to 150 acres. Due to the location, the type of habitat present at the project site, and the type of work proposed, this project is not likely to impact this species.

4906-6-05(B)(10)(f): Areas of Ecological Concern

There are no national or state parks or forests, Federal Emergency Management Agency 1% annual chance floodplains, national or state wild and scenic rivers, designated or proposed wilderness areas, wildlife refuges, wildlife management areas, or wildlife sanctuaries located in the immediate vicinity of the proposed project.

A delineation performed by Davey Resource Group on July 7 and September 8, 2017, identified two (2) streams within the study area (**Attachment D**). These water resources will be crossed via horizontal directional drilling and therefore will not be impacted. However, Best Management Practices (“BMPs”) will be implemented to protect water quality.

4906-6-05(B)(10)(g): Any Known Unusual Conditions with Significant Impacts

As illustrated by the studies and investigations conducted as a part of this project to date (refer to the Attachments), there are no readily known unusual conditions in the area of the proposed project that will result in significant environmental impacts.

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Additionally, because this project proposes to replace an existing pipeline within existing easements and public ROWs, there has already been prior ground disturbance and maintenance in the area. Other than potential health and safety issues associated with construction, which will be minimized with the best practices during construction, there are no additional health, social or safety impacts that will exist as a result of this project.

**4906-6-07 SERVICE AND PUBLIC DISTRIBUTION OF ACCELERATED
CERTIFICATE APPLICATIONS**

4906-6-07(A)(1): Service of Accelerated Application upon Officials

Simultaneously with the filing this accelerated application with the Board, DEO has caused a copy of the application to be delivered to the following public officials:

Ann Obrech
Sue Smail
Ron Amstutz
Wayne County Board of Commissioners
428 West Liberty Street
Wooster, OH 44691

Bill Cletzer, Chairman
Wayne County Planning Department
428 West Liberty Street
Wooster, OH 44691

John Redick, Chairman
Wayne Soil & Conservation District
428 West Liberty Street
Wooster, OH 44691

Scott A. Miller, P.E., P.S.
Wayne County Engineer
3151 West Old Lincoln Way
Wooster, OH 44691

Scott D. Imhoff
Homer Hostetler
Donald Zimmerly
Green Township Trustees
4721 Egypt Road
Smithville, OH 44677

David T. Handwerk
Mayor City of Orrville
207 North Main Street
Orrville, OH 44667

Robert Snyder, Chairman
Orrville Planning Commission
207 North Main Street
Orrville, OH 44667

Steven M. Wheeler
Safety-Service Director
207 North Main Street
Orrville, OH 44667

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A copy of this accelerated application and a transmittal letter (**Attachment J**) has been sent to the officials listed above.

4906-6-07(A)(2): Service of Accelerated Application upon Main Public Libraries

A copy of this accelerated application is being sent to the Orrville Public Library located at 230 N Main Street, Orrville, Ohio 44667.

4906-6-07(A)(3): DEO's Website

A copy of the accelerated application is located on DEO's web page at www.DominionEnergy.com/SitingBoard. Once on the Siting Board page, choose the case number of this case and click to view the application.

Further interested persons may contact DEO's Pipeline Infrastructure Replacement project manager, Jonathon Blackwell, at 320 Springside Drive, Akron, OH-44333; by phone: 330-664-4666; or by e-mail: Jonathon.E.Blackwell@DominionEnergy.com; to obtain either an electronic copy or a paper copy of this accelerated application.

4906-6-07(B): Proof of Compliance

Within seven (7) days of the filing of this accelerated application, DEO will cause proof of compliance with this requirement to be filed with the Board.

4906-6-08 PUBLIC NOTICE

4906-6-08(A): Newspaper Notice

Because this accelerated application falls with the definition of Letter of Notification, within seven (7) days of the filing, DEO will cause public notice of this LON to be published in *The Daily Record*, a newspaper of general circulation in Wayne County.

CASE NO. 17-1957-GA-BLN
PIR #559 -HIGH AND SUNSET
CITY OF ORRVILLE AND GREEN TOWNSHIP, WAYNE COUNTY, OHIO
12-INCH HIGH PRESSURE GAS PIPELINE REPLACEMENT

Attachment K, the proposed newspaper publication fulfills the requirements 4906-6-08(A)(1) through (6).

4906-6-08(B): Notice to Property Owners and Tenants; Proof of Compliance

Within seven (7) days of the filing of this Letter of Notification, DEO will also send a letter describing the proposed facility to each property owner and affected tenant (**Attachment C-3**).

When the letter has been sent, DEO will cause a proof of compliance with the property owner/tenant letter requirements to be provided to the Board Staff.

CASE No. 17-1957-GA-BLN
PIR #559 -HIGH AND SUNSET
CITY OF ORRVILLE AND GREEN TOWNSHIP, WAYNE COUNTY, OHIO
12-INCH HIGH PRESSURE GAS PIPELINE REPLACEMENT

ATTACHMENT A

AERIAL MAP



CASE No. 17-1957-GA-BLN
PIR #559 -HIGH AND SUNSET
CITY OF ORRVILLE AND GREEN TOWNSHIP, WAYNE COUNTY, OHIO
12-INCH HIGH PRESSURE GAS PIPELINE REPLACEMENT

ATTACHMENT B

LANDOWNERS OF PERMANENT EASEMENTS

PROJECT PIR # 559
MWO # 63447856
Ref. # 16-0684

Parcel #	Current Property Owner	Property Address	City	State	Zip	Mailing Address	City	State	Zip
31-00684	Davel Farms Inc.	10012 Rohrer Rd	Orrville	OH	44667	9829 Rohrer Rd	Orrville	OH	44667
32-00243	Davel Farms Inc	Chippewa Rd	Orrville	OH	44667	9829 Rohrer Rd	Orrville	OH	44667
59-00169	Francis E & Mary Ann Berkey	134 Smucker St	Orrville	OH	44667	134 Smucker St	Orrville	OH	44667
59-00510	John E Dodds	148 Smucker St	Orrville	OH	44667	148 Smucker St	Orrville	OH	44667
59-00651	Gregory D Hostetler	148 N Sunset Dr	Orrville	OH	44667	148 N Sunset Dr	Orrville	OH	44667
59-00729	Gary L Burkey	205 N Sunset Dr	Orrville	OH	44667	205 Sunset Dr	Orrville	OH	44667
59-00790	Michael W Smith	Smucker St	Orrville	OH	44667	127 Smucker St	Orrville	OH	44667
59-00816	Wyona J Manack	223 N Sunset Dr	Orrville	OH	44667	223 N Sunset Dr	Orrville	OH	44667
59-00837	Cory M Seiler	240 Smucker St	Orrville	OH	44667	240 Smucker St	Orrville	OH	44667
59-00897	Wilco Land Company II LLC	1722 High St	Orrville	OH	44667	1024 W High St	Orrville	OH	44667
59-01093	Hilltop Residential Partners LLC	1700 W Church St	Orrville	OH	44667	1360 E 9th St, Ste 300	Cleveland	OH	44114
59-01203	John D Chiofalo	248 Smucker St	Orrville	OH	44667	248 Smucker St	Orrville	OH	44667
59-01236	Harry L Moore	1905 W High St	Orrville	OH	44667	1905 Mapleridge Cir NW	Orrville	OH	44667
59-01357	Mario Dalessandro	1841 W High St	Orrville	OH	44667	1841 W High St	Orrville	OH	44667
59-01417	Tracy A McQuillen	210 Smucker St	Orrville	OH	44667	210 Smucker St	Orrville	OH	44667
59-01570	Marvin L & Kimberly J Gibson	232 Smucker St	Orrville	OH	44667	232 Smucker St	Orrville	OH	44667
59-01732	Brian L Keith	204 N Sunset Dr	Orrville	OH	44667	204 N Sunset Dr	Orrville	OH	44667
59-01897	Lynford L & Sharon D Singer	213 N Sunset Dr	Orrville	OH	44667	213 N Sunset Dr	Orrville	OH	44667
59-01975	Ruth Ann Rock	224 Smucker St	Orrville	OH	44667	224 Smucker St	Orrville	OH	44667
59-02085	James W & Corina O Howard	147 Smucker St	Orrville	OH	44667	147 Smucker St	Orrville	OH	44667
59-02099	Marshall B Tallman	204 Smucker St	Orrville	OH	44667	204 Smucker St	Orrville	OH	44667
59-02191	Christopher T Miller	218 Smucker St	Orrville	OH	44667	224 Smucker St	Orrville	OH	44667
59-02263	Dennis E & Nadine A Landaw	1820 W High St	Orrville	OH	44667	1820 W High St	Orrville	OH	44667
59-02390	Samuel L & Karen D Steiner	1879 W High St	Orrville	OH	44667	1879 W High St	Orrville	OH	44667
59-02548	Brockman Stepfield Properties LLC	High St	Orrville	OH	44667	6944 Mapleridge Cir NW	Canton	OH	44718
59-02843	City of Orrville	W High St	Orrville	OH	44667	207 N Main St	Orrville	OH	44667
59-02846	City of Orrville	W High St	Orrville	OH	44667	207 N Main St	Orrville	OH	44667
59-02880	City of Orrville	W High St	Orrville	OH	44667	207 N Main St	Orrville	OH	44667
59-02954	Howard E Shanklin	1854 W High St	Orrville	OH	44667	1854 W High St	Orrville	OH	44667
59-02955	Donald L & Margaret A Aukerman	1840 W High St	Orrville	OH	44667	1840 W High St	Orrville	OH	44667

CASE No. 17-1957-GA-BLN
PIR #559 -HIGH AND SUNSET
CITY OF ORRVILLE AND GREEN TOWNSHIP, WAYNE COUNTY, OHIO
12-INCH HIGH PRESSURE GAS PIPELINE REPLACEMENT

ATTACHMENT C

MODEL NOTIFICATION LETTERS TO PROPERTY OWNERS

September 14, 2017

<Address>

Dear Property Owner or Tenant:

New Pipeline Project

Dominion Energy Ohio (DEO) is preparing to construct a pipeline project in your area. This project involves installing a new 12" steel pipeline approximately 1.18 miles in length that will run along the company's existing 8" steel pipeline that extends from Rohrer Road to the north, to DEO's existing Smucker-Border Station to the south. We anticipate that this pipeline will be constructed under the terms of the existing right of way agreements.

Please be assured that during work on the project described above, all of DEO's Standard Safety and Operating Procedures and all applicable federal, state and local laws, regulations and ordinances will be fully adhered to.

Timeline for Construction of the Project

DEO anticipates that the construction of the new pipeline will commence on or about October 2017. The construction is expected to last until approximately January 2018.

Restoration Activities

DEO will restore your property to the state that it was in prior to DEO's construction activities. It expects that the restoration activities will be completed by April 2018.

Tenants

If you have tenants occupying this property, please advise them of this pipeline project.

Questions

Should you have any questions concerning this pipeline project, please contact Dominion Energy Ohio's Land Services Department at 1-855-226-6022.

Sincerely,

DOMINION ENERGY OHIO

Land Services Department

January 22, 2018

<ADDRESS>

Dear Property Owner or Tenant:

PLEASE NOTE THAT THIS LETTER HAS UPDATED INFORMATION TO THE LETTER WE SENT TO YOU DATED SEPTEMBER 14, 2017.

New Pipeline Project

Dominion Energy Ohio (“DEO”) is preparing for a pipeline project in your area. This project involves constructing a new 12-inch steel pipeline approximately 1.16 miles in length that will replace an existing 8-inch steel pipeline. The new pipeline will run from Rohrer Road to an existing DEO facility on Smucker Street. DEO anticipates that this pipeline will be constructed under the terms of the existing right of way agreements.

Please be assured that during work on the project described above, all of DEO’s Standard Safety and Operating Procedures and all applicable federal, state and local laws, regulations and ordinances will be fully adhered to.

Timeline for Construction of the Project

DEO anticipates that the construction of the new pipeline will commence on or about **April 2018**. The construction is expected to last until approximately **July 2018**.

Restoration Activities

DEO will restore your property to the state that it was in prior to DEO’s construction activities. It expects that the restoration activities will be completed by **December 2018**.

Tenants

If you have tenants occupying this property, please advise them of this pipeline project.

Questions

Should you have any questions concerning this pipeline project, please contact Dominion Energy Ohio’s Land Services Department at 1-855-226-6022.

Sincerely,

DOMINION ENERGY OHIO

Land Services Department

ATTACHMENT C-3

<ADDRESS>

**Re: Application of Dominion Energy Ohio
PIR 559-High and Sunset**

Dear _____,

I am writing to you regarding the proposed project located at _____.

The project is a _____ project that will involve the construction of a _____ facility. The project is located on a parcel of land owned by _____, which is adjacent to the _____ road.

The project will have several impacts on the surrounding area, including:

-) Property Owners and Tenants within the route of the proposed project
-) Property Owners and Tenants who are located contiguous to the proposed site
-) Property Owners and Tenants of Permanent and Temporary Easements within the planned site:
-) Property Owners and Tenants of the Existing Right-of-Way
-) Property Owners and Tenants who may be approached for any additional easement necessary for the construction operation or maintenance of the project

I am confident that the project will be successful and will provide many benefits to the community. I look forward to hearing from you soon.

Sincerely,

As we indicated to you in a prior letter, Dominion Energy Ohio (“DEO”) is preparing to replace an existing 8-inch diameter pipeline with approximately 6,100 feet of a new 12-inch diameter natural gas pipeline within the existing DEO easements and public right-of-ways (“ROW”). The project spans the area between Rohrer Road and DEO’s existing facility on Smucker Street. The new pipeline will be installed within the existing easements to the north and re-routed to public ROWs along W High Street and Smucker Street to the south. The existing pipe will be abandoned in place and the installed pipeline will be laid in a new trench.

[illegible]

**SECOND LANDOWNER MODEL LETTER
TO BE SENT WITHIN 7 DAYS FROM FILING LON**

ATTACHMENT C-3

DEO Letter of Notification Pending before the Ohio Power Siting Board (OPSB)

The Letter of Notification has been filed with and is pending before the OPSB. It asks for authority to construct the pipeline project described above. It was assigned **Case No. 17-1957-GA-BLN**.

List of Locations Where Copy of the Letter of Notification Can Be Viewed

DEO office: 320 Springside Drive, Akron, OH-44333

Library: Orrville Public Library, 230 N Main Street, Orrville, Ohio 44667

DEO Website: www.DominionEnergy.com/SitingBoard. Once on the Siting Board page, choose the case number of this case and click to view the application.

OPSB Website: www.opsb.ohio.gov

Scroll down to “Pending Cases” and select the case by name or docket number.

Filing to Participate and Comment in this Case

If you would like to participate in this proceeding, you may file a motion to intervene and/or file comments in this matter within ten (10) days from the date of publication in *The Daily Record*. For motions to intervene, please follow the requirements of Ohio Administrative Code Rule 4906-2-12. The intervention rule is available on line at www.opsb.ohio.gov.

Tenants

If you have tenants occupying this property, please advise them of this pipeline project.

Questions

Should you have any questions concerning this pipeline project, please contact Dominion Energy Ohio’s Land Services Department at 1-855-226-6022.

Sincerely,

DOMINION ENERGY OHIO

Land Services Department

**THIRD LANDOWNER MODEL LETTER
TO BE SENT 7 DAYS PRIOR TO CONSTRUCTION**

ATTACHMENT C-4

<DATE>

<ADDRESS>

Dear Property Owner or Tenant:

New Pipeline Project

As we indicated to you in a prior letter, Dominion Energy Ohio (“DEO”) is preparing to replace an existing 8-inch diameter pipeline with approximately 6,100 feet of a new 12-inch diameter natural gas pipeline within the existing DEO easements and public right-of-ways (“ROW”). The project spans the area between Rohrer Road and DEO’s existing facility on Smucker Street. The new pipeline will be installed within the existing easements to the north and re-routed to public ROWs along W High Street and Smucker Street to the south. The existing pipe will be abandoned in place and the installed pipeline will be laid in a new trench.

Please be assured that during work on the project described above, all of DEO’s Standard Safety and Operating Procedures and all applicable federal, state and local laws, regulations and ordinances will be fully adhered to.

Timeline for Construction of the Project

DEO anticipates that construction of the replacement pipeline will commence on or about April 2018. The construction is expected to last until approximately July 2018.

Restoration Activities:

DEO will restore your property to the state that it was in prior to DEO’s construction activities. Once the work is complete, restoration will begin as soon as weather permits, including sidewalks, driveways and approaches. Typical yard restoration is limited to grading and seeding. DEO expects that the restoration activities will be completed by December 2018.

Tenants

If you have tenants occupying this parcel, please advise them of this pipeline project.

Questions/Complaints:

DEO has a complaint resolution process. Should you have any questions concerning this pipeline project, please contact Dominion Energy Ohio’s Land Services Department at 1-855-226-6022 who will see that it is communicated to DEO’s Project Manager, Jonathon Blackwell. Please mention the project reference, located at the bottom of this letter, when you call. If you have a complaint during construction or restoration, your call will be returned in a timely manner. Please be aware that DEO will make every best effort to resolve issues pertaining to the project.

Safety is Dominion Energy Ohio’s highest priority. Be assured we will take every possible step to ensure the security of the area, your property, your family and our employees.

Sincerely,
DOMINION ENERGY OHIO
Land Services Department

CASE No. 17-1957-GA-BLN
PIR #559 -HIGH AND SUNSET
CITY OF ORRVILLE AND GREEN TOWNSHIP, WAYNE COUNTY, OHIO
12-INCH HIGH PRESSURE GAS PIPELINE REPLACEMENT

ATTACHMENT D

DAVEY RESOURCE GROUP'S FIELD SUMMARY REPORT



October 4, 2017

Corporate Headquarters
1500 North Mantua Street
P.O. Box 5193
Kent, Ohio 44240-5193
330.673.5685
Toll Free 1.800.828.8312
Fax 330.673.0860

Jonathon Blackwell
The East Ohio Gas Company
320 Springside Drive, Suite 320
Akron, Ohio 44333

RE: *Field Summary Report*—PIR 559 – West High Street and North Sunset Drive, Orrville and Green Township, Wayne County, Ohio

Dear Mr. Blackwell:

As requested, Davey Resource Group performed an ecological study on the area encompassing PIR 559 – West High Street and North Sunset Drive. The study area includes 30 feet on either side of the gas line along West High Street and Smucker Street, and within an off-road easement that extends northwest from West High Street for approximately 5,500 feet. This survey was performed to collect information on wetlands, streams, potential endangered species habitat, and to map existing stormwater features. The data presented in this report reflect ecological information collected during the field survey. Maps depicting all ecological data collected in the field are located in Attachment A. Representative photographs of the study area are included in Attachment B.

SITE DESCRIPTION

The study area was surveyed on July 7, and September 8, 2017. The study area is located within agricultural and residential areas with land covers of mowed grass, lawn trees, pavement, successional woods, and row cropping.

WATER RESOURCE DELINEATION - WETLANDS

No wetlands were identified within the study area. However, several off-site wetlands were identified adjacent to the project area.

WATER RESOURCE DELINEATION – STREAMS

Two (2) streams were identified within the study area. Stream 1 was assessed at two (2) different reaches as the substrate and surrounding land use varies significantly between the reaches. Stream 1a is located southeast of the Orrville and Green Township line and crosses the easement at three locations within the successional woods. Stream 2 drains northwest into Stream 1a just before Stream 1a flows southeast off-site. A segment of the pipeline has become exposed within Stream 1a. Stream 1b runs approximately parallel to West High Street on the north side of the road, and drains east into a culvert under the road. Within the project area, Stream 1b is mowed and captured in a roadside ditch.

The Headwater Habitat Evaluation Index (HHEI), as developed by the Ohio EPA, was used to assess the habitat value of the streams. The specific assessment method used is based on the drainage area of the stream or the maximum pool depth. That is, the HHEI protocol is used for streams having watersheds less than one (1) square mile or a maximum pool depth less than 40 centimeters; the QHEI protocol is used for streams having watersheds greater than one (1) square mile and pool depths greater than 40 centimeters.

The HHEI assessment method uses three (3) metrics to assess potential habitat: channel substrate composition, bankfull width, and maximum pool depth. These metrics are used to distinguish between Class I, II, and III primary headwater habitat streams. Generally, a Class I stream has ephemeral flow, Class II has intermittent or perennial flow with warm water, and a Class III stream has perennial flow with cool-cold water.

As the drainage area for Streams 1a, 1b, and 2 are each less than one (1) square mile, the HHEI was used to assess the habitat value of these streams. Stream 1a is an intermittent stream and the substrate is composed primarily of gravel and cobble. Stream 1a has a natural channel and is shaded by wide (> 10m) buffers of mature forest with a dense understory. Stream 1a receives some water input from Stream 2 and a non-jurisdictional swale located off-site. This stream received a score of 72, using the HHEI protocol. This places it within the range of a Class III primary headwater habitat stream.

Stream 1b is an intermittent stream that has been heavily modified to act as a drainage ditch. Portions of the stream within the study area have been modified to the extent that it has lost its' defined bed and bank, appearing as a grassed swale. The substrate is primarily composed of gravel and cobble, while the portion of the stream within the study area is primarily composed of grass. The portion of the stream within the study area is surrounded by mowed grass and residential land use. Stream 1b received a score of 57, using the HHEI protocol. This places it within the range of a Modified Class II primary headwater habitat stream.

Stream 2 is an ephemeral stream and the substrate is composed primarily of silt and hardpan/clay. Stream 2 drains into Stream 1a and is also shaded by wide (>10m) buffers of mature forest with a dense understory. Stream 2 had a dry channel at the time of sampling. Stream 2 is recovering from channel modifications; it appears to have been modified to drain a nearby agricultural field. This stream has received a score of 13, using the HHEI protocol. This places it within the range of a Modified Class I primary headwater habitat stream.

Photographs of these streams and the pipeline exposure are included in Attachment B. A table listing the streams within the study area is included in Attachment C. The HHEI forms are included in Attachment D.

THREATENED AND ENDANGERED SPECIES EVALUATION

The study area was reviewed for the federally listed species whose range includes Wayne County as listed below:

Bats:

The federally endangered **Indiana bat** (*Myotis sodalis*) and the federally threatened **northern long-eared bat** (*Myotis septentrionalis*) occur in all counties in Ohio. Summer roosting habitat for the Indiana bat and the northern long-eared bat includes trees that contain characteristics such as exfoliating bark, dead wood, crevices, and cavities. To support a maternity colony, trees with a large amount of these habitat features need to have good solar exposure. These bats tend to inhabit trees at the edges of woodlots and along watercourses where they can travel and forage. Occasionally the northern long-eared bat may roost in structures like barns and sheds.

The study area was evaluated for potential habitat for these bats. The study area is in a rural, agricultural and residential setting with trees of various sizes scattered throughout the study area. No wooden structures occur in the study area.

However, the riparian corridors of Streams 1a and 2, and the successional woods surrounding them, approximately thirty (30) acres in size, occur within and extending beyond the study area. These woods are dominated by *Prunus serotina* (black cherry), *Quercus palustris* (pin oak), and *Acer rubrum* (red maple). The average diameter at breast height is eight (8) to sixteen (16) inches. The understory is dense with *Lonicera spp.* (bush honeysuckle), *Rosa multiflora* (multiflora rose) and *Rubus allegheniensis* (Allegheny blackberry). These woods have been selectively logged and do not provide connectivity to a larger, forested area.

No trees were identified within the study area that have characteristics that may potentially provide habitat for these bats.

Eastern prairie fringed orchid: The federally threatened **eastern prairie fringed orchid** (*Platanthera leucophaea*) occurs in a variety of habitats including mesic prairies, sedge meadows, marsh edges, bogs, wet, unplowed tall grass prairies and meadows, old fields, and roadside ditches. The eastern prairie fringed orchid requires full sun and little to no woody encroachment. The eastern prairie fringed orchid was identified as a species potentially affected by activities for the project location per the USFWS Information for Planning and Consultation system (IPAC), which reviews the study area in relation to range maps of listed species records. However, the swales within the study area are located within the successional woods and are shaded from the surrounding woods. Additionally, the part of Stream 1b that has lost its defined bed and bank is continuously mowed and is dominated by dense *Fescue sp.* that prevent any suitable habitat from developing for this orchid.

Eastern massasauga: The federally threatened **eastern massasauga** (*Sistrurus catenatus*) is a small, docile rattlesnake found in wet prairies, marshes, fens, and low areas along rivers and lakes. No wetlands or other potential habitat occurs within or adjacent to the study area. Further, the eastern massasauga was not identified as a species potentially affected by activities for the project location per the USFWS IPAC system.

Bald Eagle: The **bald eagle** (*Haliaeetus leucocephalus*), a species of concern, is protected under the Bald and Golden Eagle Protection Act. The bald eagle nests in large trees near water. No bald eagles or bald eagle nesting sites were observed within or adjacent to the study area. Additionally, Green Township within Wayne County has no known bald eagle nesting sites per information provided by USFWS.

100-YEAR FLOODPLAIN

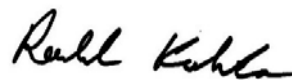
Prior to field survey, Federal Emergency Management Agency Flood Maps were reviewed to determine flood hazards in the study area. This project site is not located within or adjacent to a 100-year floodplain.

CULTURAL RESOURCES

Prior to the field survey, a review of the Ohio Historical Preservation Office (OHPO) data records for National Register Listed Districts, National Register Listed Properties, Archaeological Inventory Properties, Ohio Historic Inventory Properties, and Archaeological Phases 1–3 Survey Areas was done for PIR 559 – West High Street, North Sunset Drive and areas immediately adjacent. No Listed Districts, Listed Properties, Archaeological Properties, Ohio Historic Inventory structures, or Survey Areas were identified within or adjacent to the study area.

If you have any questions or comments concerning this field summary report or if you need additional information, please contact me at 330-673-5685, ext. 8555 or via e-mail at rachel.kohnke@davey.com.

Sincerely,

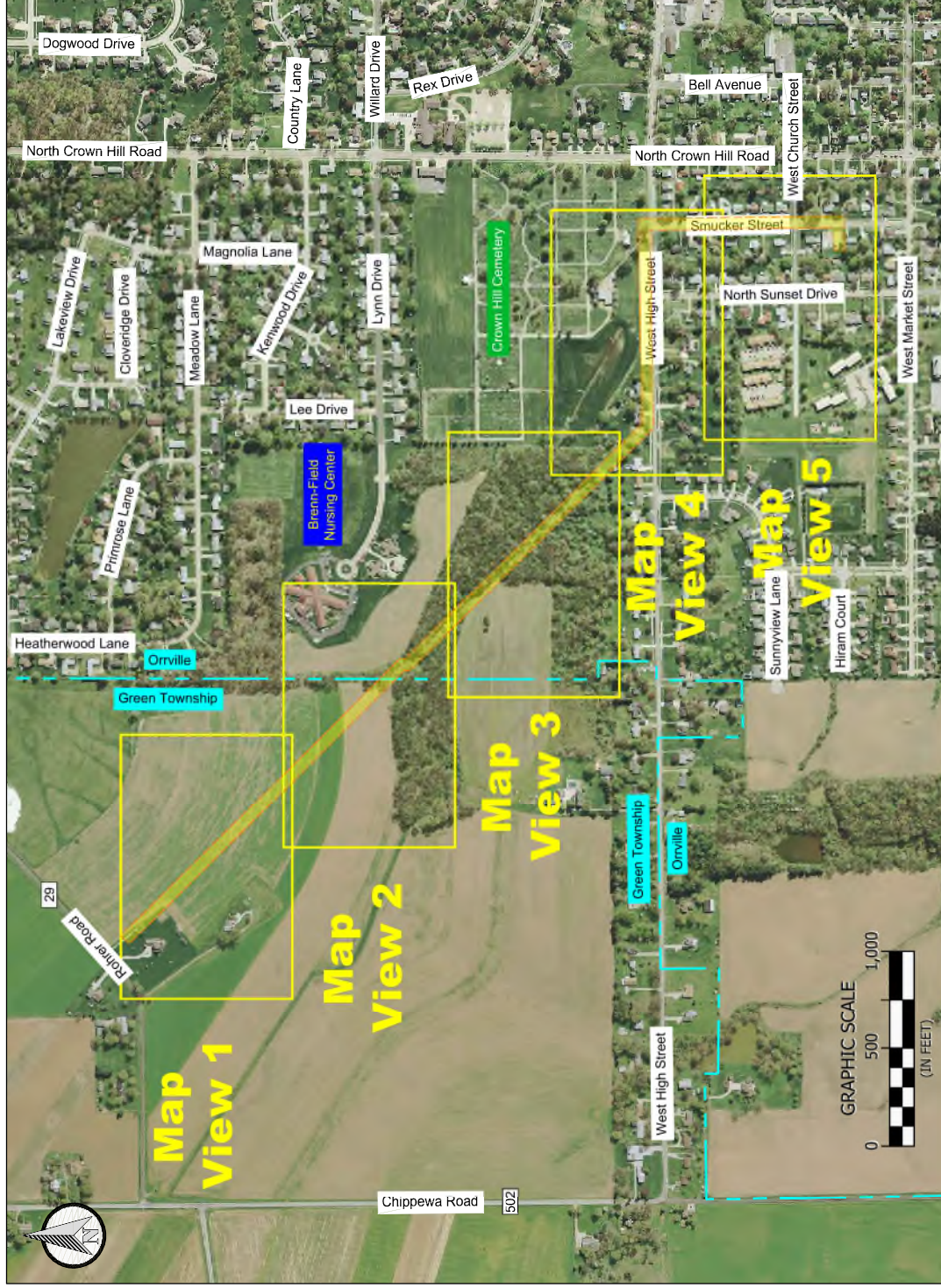


Rachel Kohnke, Biologist
Natural Resource Consulting

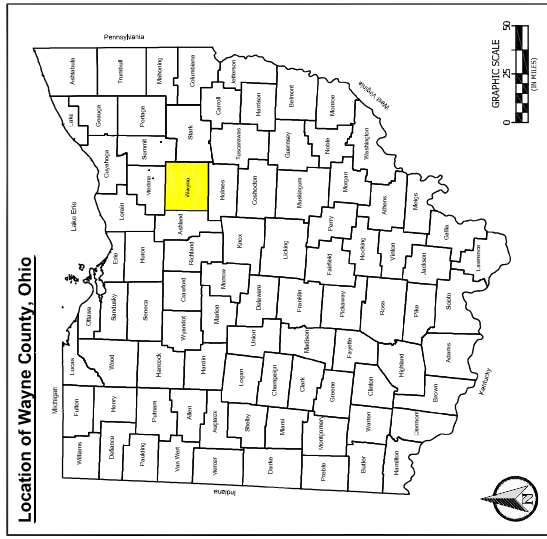
cc: Tara Buzzelli, Dominion Resources Services, Inc.
Bekah Barry, Davey Resource Group

Attachment A
Ecological Feature Maps

Map View Location Map



= Approximate study area



The information presented is not a survey or engineering product, and should not be used for any purpose provided by applicable law or regulation that requires a surveying or engineering license.

Prepared by:
DAVEY
RESOURCE GROUP
A Division of The East Ohio Gas Company

Prepared for:
The East Ohio Gas Company

Data used to produce this map were collected on July 7, and September 8, 2017

Location Map

PIR 559 - West High Street and North Sunset Drive
Pipeline Replacement Project
Orville and Green Township
Wayne County, Ohio



- = Inlet (curbside)
- = Inlet (grate)
- = Gas line stake
- = Existing gas line
- = Proposed gas line



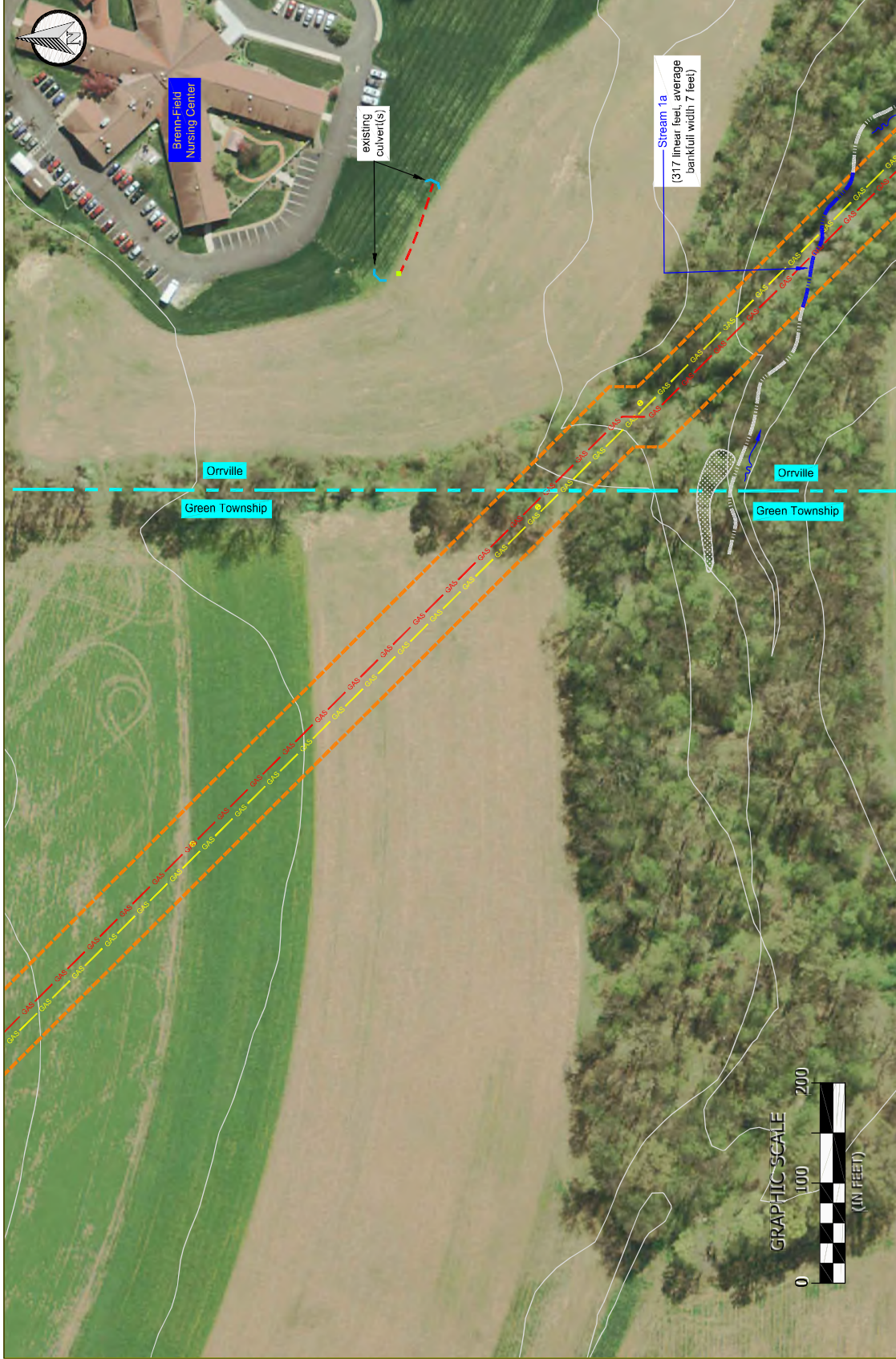
- = Approximate study area
- = Intermittent stream
- = Ephemeral stream
- = Non-jurisdictional swale
- = Direction of flow
- = Existing culvert(s)



Prepared by:
The East Ohio Gas Company

PIR 559 - West High Street and North Sunset Drive
Pipeline Replacement Project
Orville and Green Township
Wayne County, Ohio

Data used to produce this map were collected on July 7, and September 8, 2017



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- = Proposed gas line

- = Approximate study area
- = Intermittent stream
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- = Non-jurisdictional swale
- = Direction of flow
- () = Existing culvert(s)

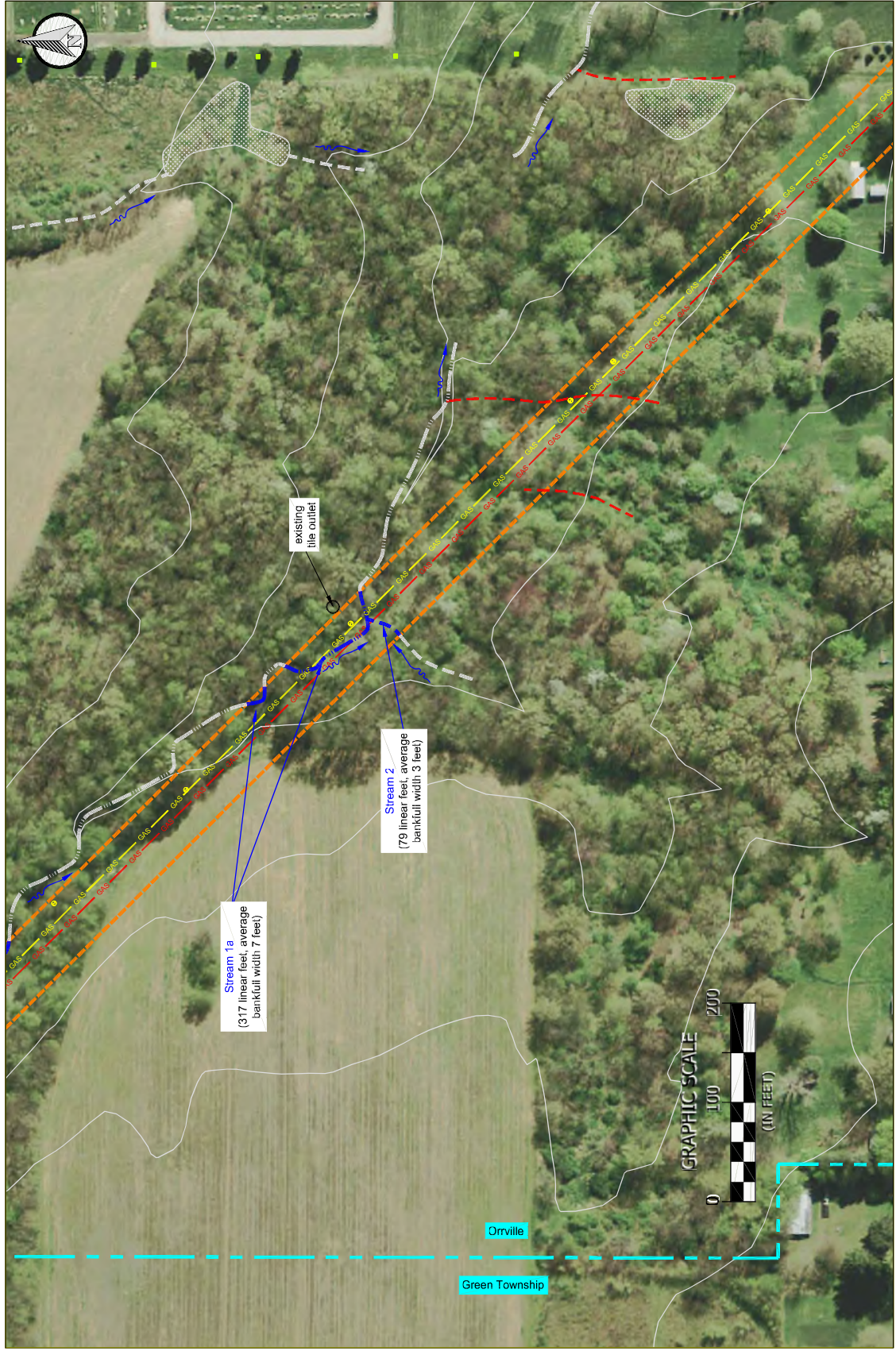


Prepared by:
The East Ohio Gas
Company

PIR 559 - West High Street
and North Sunset Drive
Pipeline Replacement Project
Orville and Green Township
Wayne County, Ohio

Data used to produce this
map were collected
on July 7, and
September 8, 2017

Map
View 2
of 5



- = Inlet (curbside)
- = Inlet (grate)
- = Gas line stake
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- = Proposed gas line

- = Approximate study area
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- = Direction of flow
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Prepared by:
The East Ohio Gas Company

PIR 559 - West High Street and North Sunset Drive
Pipeline Replacement Project
Orville and Green Township
Wayne County, Ohio

Data used to produce this map were collected on July 7, and September 8, 2017



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Prepared by:
The East Ohio Gas Company

PIR 559 - West High Street and North Sunset Drive
Pipeline Replacement Project
Orville and Green Township
Wayne County, Ohio

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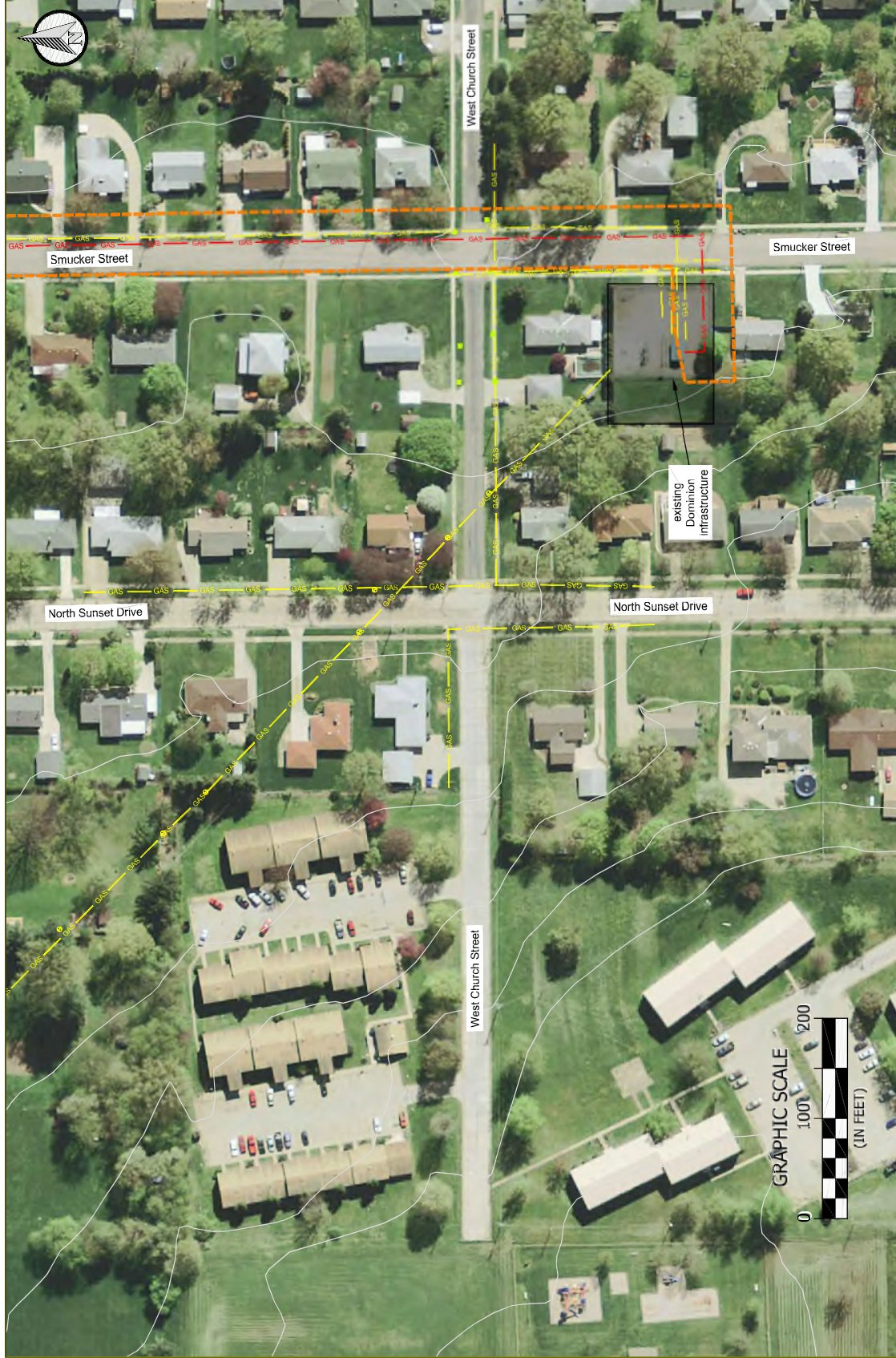


- = Inlet (curbside)
- = Inlet (grate)
- = Gas line stake
- = Existing gas line
- = Proposed gas line

Data used to produce
this map were collected
on July 7, and
September 8, 2017

**PIR 559 - West High Street
and North Sunset Drive**
Pipeline Replacement Project
Orville and Green Township
Wayne County, Ohio

Prepared by:
**The East Ohio Gas
Company**



- = Approximate study area
- = Intermittent stream
- = Ephemeral stream
- = Non-jurisdictional swale
- = Direction of flow
- = Existing culvert(s)

Attachment B

Photographs

***PIR 559 – West High Street and North Sunset Drive
Photographed July 7 and September 8, 2017***



Photograph 1. Agricultural development is the predominant land use associated with the PIR 559 – West High Street and North Sunset Drive project.



Photograph 2. Residential developments are primarily located along West High Street and Smucker Street.

***PIR 559 – West High Street and North Sunset Drive
Photographed July 7 and September 8, 2017***



Photograph 3. Active row cropping occurs throughout the off-road easement area.



Photograph 4. An area of successional woods, approximately thirty (30) acres in size, is located in the central area of the PIR 559 easement.

***PIR 559 – West High Street and North Sunset Drive
Photographed July 7 and September 8, 2017***



Photograph 5. Non-jurisdictional swales are located within the successional woods area of the easement.



Photograph 6. The gas pipeline is exposed within Stream 1a.

**PIR 559 – West High Street and North Sunset Drive
Photographed July 7 and September 8, 2017**



Photolocation 7 (7-7-17) Stream 1a looking upstream shows the riparian buffer of successional woods.



Photolocation 7 (7-7-17) This is a view of Stream 1a looking downstream.



Photolocation 7 (7-7-17) The dominant substrates of Stream 1a are gravel and cobble.

***PIR 559 – West High Street and North Sunset Drive
Photographed July 7 and September 8, 2017***



Photolocation 8 (9-8-17) Stream 1b looking upstream shows where the stream has lost its defined bed and bank, appearing as a grassed swale.



Photolocation 8 (9-8-17) Stream 1b drains southeast into a culvert beneath West High Street.



Photolocation 8 (9-8-17) The dominant substrates of Stream 1b are gravel and cobble, however, within the study area it is mainly dominated by grass.

***PIR 559 – West High Street and North Sunset Drive
Photographed July 7 and September 8, 2017***



Photolocation 9 (7-7-17) Stream 2 looking upstream shows the dry stream channel.



Photolocation 9 (7-7-17) This is a view of Stream 2 looking downstream.



Photolocation 9 (7-7-17) The dominant substrates of Stream 2 are silt and hardpan.

Attachment C

Streams Delineated Within PIR 559

Stream	Stream Length (lf) within Project Area	Bankfull Width (feet)	Flow Regime	Dominant Substrate Type(s)	HHEI	Class
1a	317	7.0	Intermittent	Gravel, cobble	72	Class III PHWH ¹
1b	387	5.0	Intermittent	Gravel, cobble	57	Mod Class II PHWH
2	79	3.0	Ephemeral	Silt, hardpan	13	Mod Class I PHWH
Total	783					

¹ Primary Headwater Habitat

Attachment D

HHEI Forms



Primary Headwater Habitat Evaluation Form
HHEI Score (sum of metrics 1, 2, 3):

72

SITE NAME / LOC. **Stream 1a / PIR 559 - West High Street and North Sunset Drive, Orrville and Green Township, Wayne County, Ohio**
SITE NUMBER _____ RIVER BASIN **Tuscarawas (HUC 05040001)** Drainage Area (mi²) **0.33**
Length of Stream Reach (i) **200 ft** Lat. **40.847147** Long. **-81.792565** RIVER MILE _____
DATE **7/7/2017** SCORER **Todd Crandall** COMMENTS **Class III PHWH**

NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions

STREAM CHANNEL ☒ NONE / NATURAL CHANNEL ☐ RECOVERED ☐ RECOVERING ☐ RECENT OR NO RECOVERY
MODIFICATIONS:

1. **SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.**

TYPE	PERCENT	TYPE	PERCENT
<input type="checkbox"/> BLDR SLABS [16 pts]	0%	<input type="checkbox"/> SILT [3 pts]	10%
<input type="checkbox"/> BOULDER (>256 mm) [16 pts]	5%	<input type="checkbox"/> LEAF PACK/WOODY DEBRIS [3 pts]	0%
<input type="checkbox"/> BEDROCK [16 pts]	0%	<input type="checkbox"/> FINE DETRITUS [3 pts]	5%
<input checked="" type="checkbox"/> COBBLE (65-256 mm) [12 pts]	30%	<input type="checkbox"/> CLAY or HARDPAN [0 pts]	0%
<input checked="" type="checkbox"/> GRAVEL (2-64 mm) [9 pts]	40%	<input type="checkbox"/> MUCK [0 pts]	0%
<input type="checkbox"/> SAND (<2 mm) [6 pts]	10%	<input type="checkbox"/> ARTIFICIAL [3pts]	0%

Total of Percentages of (A) _____ (B) _____
Bldr Slabs, Boulder, Cobble, Bedrock: **35%**

SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: **21** TOTAL NUMBER OF SUBSTRATE TYPES: **6**

HHEI
Metric
Points

Substrate
Max = 40

27

A + B

2. **Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes). (Check ONLY one box):**

<input type="checkbox"/> >30 centimeters [20 pts]	<input type="checkbox"/> >5 cm - 10 cm [15 pts]
<input type="checkbox"/> >22.5 - 30 cm [30 pts]	<input type="checkbox"/> <5 cm [5 pts]
<input checked="" type="checkbox"/> >10 - 22.5 cm [25 pts]	<input type="checkbox"/> NO WATER/MOIST CHANNEL [0 pts]

COMMENTS: _____ MAXIMUM POOL DEPTH (centimeters) **17.8**

Pool Depth
Max=30

25

3. **BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):**

<input type="checkbox"/> >4.0 meters (>13') [30 pts]	<input type="checkbox"/> >1.0 m - 1.5 m (>3'3"-4'8") [15 pts]
<input type="checkbox"/> >3.0-4.0 m (>9' 7"-13') [25 pts]	<input type="checkbox"/> ≤1.0 m (≤ 3'3") [5 pts]
<input checked="" type="checkbox"/> >1.5-3.0 m (>4' 8"-9' 7") [20 pts]	

COMMENTS: _____ AVERAGE BANKFULL WIDTH (meters) **2.1**

Bankfull
Width
Max=30

20

This information must also be completed.

RIPARIAN ZONE AND FLOODPLAIN QUALITY

*NOTE: River Left (L) and Right (R) as looking downstream.

RIPARIAN WIDTH

L	R
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

(Per Bank)
Wide > 10 m
Moderate 5 - 10 m
Narrow < 5 m
None

(FLOODPLAIN QUALITY)

L	R
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

(Most Predominant per Bank)
Mature Forest, Wetland
Immature Forest, Shrub or Old Field
Residential, Park, New Field
Fenced Pasture

L	R
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Conservation Tillage
Urban or Industrial
Open Pasture, Row Crop
Mining or Construction

COMMENTS: _____

FLOW REGIME (At Time of Evaluation) (Check ONLY one box):

<input type="checkbox"/> Stream Flowing	<input checked="" type="checkbox"/> Moist channel, isolated pools, no flow (Intermittent)
<input type="checkbox"/> Subsurface flow with isolated pools (Interstitial)	<input type="checkbox"/> Dry channel, no water, (Ephemeral)

COMMENTS: _____

SINUOSITY (Number of bends per 200 ft (61 m) of channel) (Check ONLY one box):

<input type="checkbox"/> None	<input type="checkbox"/> 1.0	<input checked="" type="checkbox"/> 2.0	<input type="checkbox"/> 3.0
<input type="checkbox"/> 0.5	<input type="checkbox"/> 1.5	<input type="checkbox"/> 2.5	<input type="checkbox"/> > 3

STREAM GRADIENT ESTIMATE

<input type="checkbox"/> Flat (0.5 ft/100 ft)	<input type="checkbox"/> Flat to Moderate	<input checked="" type="checkbox"/> Moderate (2 ft/100 ft)	<input type="checkbox"/> Moderate to Severe	<input type="checkbox"/> Severe (10 ft/100 ft)
---	---	--	---	--

Location / Stream Name: Stream 1a / PIR 559 - West High Street and North Sunset Drive, Orrville and Green Township, Wayne County, Ohio

Additional Stream Information (This Information Must Also Be Completed):

QHEI PERFORMED? ☐ Yes ☒ No QHEI Score _____ (If Yes, Attach Completed QHEI Form)

DOWNSTREAM DESIGNATED USE(S): _____

<input checked="" type="checkbox"/> WWH Name:	<u>Little Chippewa Creek</u>	Distance from Evaluated Stream	<u>2 miles</u>
<input type="checkbox"/> CWH Name:	_____	Distance from Evaluated Stream	_____
<input type="checkbox"/> EWH Name:	_____	Distance from Evaluated Stream	_____

MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.

USGS Quad Name: Orrville NRCS Soil Map Page: _____ NRCS Soil Map Stream Order: _____
County: Wayne Township/City: Orrville and Green Township

MISCELLANEOUS

Base Flow Conditions? (Y/N) Y Date of Last Precipitation: 7-Jul-17 Quantity: 0.11 inch

Photograph Information: See Attached

Elevated Turbidity? (Y/N): N Canopy (% open): 5%

Were samples collected for water chemistry?(Y/N) N (Note lab sample no. or id. and attach results) Lab No.: _____

Field Measures: Temp (C) _____ Dissolved Oxygen (mg/l) _____ pH(S.U.) _____ Conductivity(µs) _____

Is the sampling reach representative of the stream (Y/N)? _____ If not, please explain: _____

Additional comments/description pollution impacts: _____

BIOTIC EVALUATION

Performed? (Y/N) N (If yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID Number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)

Fish Observed? (Y/N)	<u> </u>	Voucher? (Y/N)	<u> </u>	Salamanders Observed? (Y/N)	<u> </u>	Voucher? (Y/N)	<u> </u>
Frogs/Tadpoles Observed?	<u> </u>	Voucher? (Y/N)	<u> </u>	Aquatic Macroinvertebrates Observed? (Y/N)	<u> </u>	Voucher?(Y/N)	<u> </u>

Comments Regarding Biology: _____

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):

Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location.

FLOW →



Primary Headwater Habitat Evaluation Form
HHEI Score (sum of metrics 1, 2, 3):

57

SITE NAME / LOC. **Stream 1b / PIR 559 - West High Street and North Sunset Drive, Orrville and Green Township, Wayne County, Ohio**
SITE NUMBER _____ RIVER BASIN **Tuscarawas (HUC 05040001)** Drainage Area (mi²) **0.33**
Length of Stream Reach (i) **200 ft** Lat. **40.844486** Long. **-81.786523** RIVER MILE _____
DATE **9/8/2017** SCORER **Jeff Pettit** COMMENTS **Modified Class II PWHH**

NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PWHH Streams" for Instructions

STREAM CHANNEL ☐ NONE / NATURAL CHANNEL ☐ RECOVERED ☒ RECOVERING ☒ RECENT OR NO RECOVERY
MODIFICATIONS:

1. **SUBSTRATE** (Estimate percent of every type of substrate present. Check *ONLY* two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.

TYPE	PERCENT	TYPE	PERCENT
<input type="checkbox"/> BLDR SLABS [16 pts]	0%	<input type="checkbox"/> SILT [3 pts]	12%
<input type="checkbox"/> BOULDER (>256 mm) [16 pts]	0%	<input type="checkbox"/> LEAF PACK/WOODY DEBRIS [3 pts]	8%
<input type="checkbox"/> BEDROCK [16 pts]	0%	<input type="checkbox"/> FINE DETRITUS [3 pts]	5%
<input checked="" type="checkbox"/> COBBLE (65-256 mm) [12 pts]	25%	<input type="checkbox"/> CLAY or HARDPAN [0 pts]	0%
<input checked="" type="checkbox"/> GRAVEL (2-64 mm) [9 pts]	35%	<input type="checkbox"/> MUCK [0 pts]	0%
<input type="checkbox"/> SAND (<2 mm) [6 pts]	15%	<input type="checkbox"/> ARTIFICIAL [3pts]	0%

HHEI
Metric
Points

Substrate
Max = 40

27

A + B

Total of Percentages of (A) **21** (B) **6**
Bldr Slabs, Boulder, Cobble, Bedrock: **25%**

SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: **21** TOTAL NUMBER OF SUBSTRATE TYPES: **6**

2. **Maximum Pool Depth** (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes). (Check *ONLY* one box):

<input type="checkbox"/> >30 centimeters [20 pts]	<input type="checkbox"/> >5 cm - 10 cm [15 pts]
<input type="checkbox"/> >22.5 - 30 cm [30 pts]	<input type="checkbox"/> <5 cm [5 pts]
<input checked="" type="checkbox"/> >10 - 22.5 cm [25 pts]	<input type="checkbox"/> NO WATER/MOIST CHANNEL [0 pts]

Pool Depth
Max=30

25

COMMENTS: _____ MAXIMUM POOL DEPTH (centimeters) **12.0**

3. **BANK FULL WIDTH** (Measured as the average of 3-4 measurements) (Check *ONLY* one box):

<input type="checkbox"/> >4.0 meters (>13') [30 pts]	<input type="checkbox"/> >1.0 m - 1.5 m (>3'3"-4'8") [15 pts]
<input type="checkbox"/> >3.0-4.0 m (>9' 7"-13') [25 pts]	<input checked="" type="checkbox"/> ≤1.0 m (≤ 3'3") [5 pts]
<input type="checkbox"/> >1.5-3.0 m (>4' 8"-9' 7") [20 pts]	

Bankfull
Width
Max=30

5

COMMENTS: _____ AVERAGE BANKFULL WIDTH (meters) **0.5**

This information must also be completed.

RIPARIAN ZONE AND FLOODPLAIN QUALITY *NOTE: River Left (L) and Right (R) as looking downstream.

RIPARIAN WIDTH

L	R
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

(Per Bank)

(FLOODPLAIN QUALITY)

L	R
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

(Most Predominant per Bank)

L	R
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Conservation Tillage

COMMENTS: _____

FLOW REGIME (At Time of Evaluation) (Check *ONLY* one box):

<input type="checkbox"/> Stream Flowing	<input checked="" type="checkbox"/> Moist channel, isolated pools, no flow (Intermittent)
<input type="checkbox"/> Subsurface flow with isolated pools (Interstitial)	<input type="checkbox"/> Dry channel, no water, (Ephemeral)

COMMENTS: _____

SINUOSITY (Number of bends per 200 ft (61 m) of channel) (Check *ONLY* one box):

<input type="checkbox"/> None	<input checked="" type="checkbox"/> 1.0	<input type="checkbox"/> 2.0	<input type="checkbox"/> 3.0
<input type="checkbox"/> 0.5	<input type="checkbox"/> 1.5	<input type="checkbox"/> 2.5	<input type="checkbox"/> > 3

STREAM GRADIENT ESTIMATE

<input type="checkbox"/> Flat (0.5 ft/100 ft)	<input type="checkbox"/> Flat to Moderate	<input checked="" type="checkbox"/> Moderate (2 ft/100 ft)	<input type="checkbox"/> Moderate to Severe	<input type="checkbox"/> Severe (10 ft/100 ft)
---	---	--	---	--

Location / Stream Name: Stream 1b / PIR 559 - West High Street and North Sunset Drive, Orrville and Green Township, Wayne County, Ohio

Additional Stream Information (This Information Must Also Be Completed):

QHEI PERFORMED? ☐ Yes ☒ No QHEI Score _____ (If Yes, Attach Completed QHEI Form)

DOWNSTREAM DESIGNATED USE(S): _____

<input checked="" type="checkbox"/> WWH Name:	<u>Little Chippewa Creek</u>	Distance from Evaluated Stream	<u>2 miles</u>
<input type="checkbox"/> CWH Name:	_____	Distance from Evaluated Stream	_____
<input type="checkbox"/> EWH Name:	_____	Distance from Evaluated Stream	_____

MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.

USGS Quad Name: Orrville NRCS Soil Map Page: _____ NRCS Soil Map Stream Order: _____
County: Wayne Township/City: Orrville and Green Township

MISCELLANEOUS

Base Flow Conditions? (Y/N) Y Date of Last Precipitation: 8-Sep-17 Quantity: 0.01 inch

Photograph Information: See Attached

Elevated Turbidity? (Y/N): N Canopy (% open): 100%

Were samples collected for water chemistry?(Y/N) N (Note lab sample no. or id. and attach results) Lab No.: _____

Field Measures: Temp (C) _____ Dissolved Oxygen (mg/l) _____ pH(S.U.) _____ Conductivity(µs) _____

Is the sampling reach representative of the stream (Y/N)? _____ If not, please explain: _____

Additional comments/description pollution impacts: _____

BIOTIC EVALUATION

Performed? (Y/N) N (If yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID Number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)

Fish Observed? (Y/N)	<u> </u>	Voucher? (Y/N)	<u> </u>	Salamanders Observed? (Y/N)	<u> </u>	Voucher? (Y/N)	<u> </u>
Frogs/Tadpoles Observed?	<u> </u>	Voucher? (Y/N)	<u> </u>	Aquatic Macroinvertebrates Observed? (Y/N)	<u> </u>	Voucher?(Y/N)	<u> </u>

Comments Regarding Biology: _____

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):

Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location.

FLOW →



Primary Headwater Habitat Evaluation Form
HHEI Score (sum of metrics 1, 2, 3):

13

SITE NAME / LOC. **Stream 2 / PIR 559 - West High Street and North Sunset Drive, Orrville and Green Township, Wayne County, Ohio**

SITE NUMBER _____ RIVER BASIN **Tuscarawas (HUC 05040001)** Drainage Area (mi²) **0.04**

Length of Stream Reach (ft) **200 ft** Lat. **40.846121** Long. **-81.792018** RIVER MILE _____

DATE **7/7/2017** SCORER **Todd Crandall** COMMENTS **Modified Class I PWH**

NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PWH Streams" for Instructions

STREAM CHANNEL ☐ NONE / NATURAL CHANNEL ☐ RECOVERED ☒ RECOVERING ☐ RECENT OR NO RECOVERY
MODIFICATIONS:

- 1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.**

TYPE	PERCENT	TYPE	PERCENT
<input type="checkbox"/> <input type="checkbox"/> BLDR SLABS [16 pts]	0%	<input checked="" type="checkbox"/> <input type="checkbox"/> SILT [3 pts]	60%
<input type="checkbox"/> <input type="checkbox"/> BOULDER (>256 mm) [16 pts]	0%	<input type="checkbox"/> <input type="checkbox"/> LEAF PACK/WOODY DEBRIS [3 pts]	2%
<input type="checkbox"/> <input type="checkbox"/> BEDROCK [16 pts]	0%	<input type="checkbox"/> <input type="checkbox"/> FINE DETRITUS [3 pts]	0%
<input type="checkbox"/> <input type="checkbox"/> COBBLE (65-256 mm) [12 pts]	0%	<input type="checkbox"/> <input checked="" type="checkbox"/> CLAY or HARDPAN [0 pts]	30%
<input type="checkbox"/> <input type="checkbox"/> GRAVEL (2-64 mm) [9 pts]	3%	<input type="checkbox"/> <input type="checkbox"/> MUCK [0 pts]	0%
<input type="checkbox"/> <input type="checkbox"/> SAND (<2 mm) [6 pts]	5%	<input type="checkbox"/> <input type="checkbox"/> ARTIFICIAL [3pts]	0%

Total of Percentages of

Bldr Slabs, Boulder, Cobble, Bedrock: 0%

(A)

(B)

**HHEI
Metric
Points**

Substrate
Max = 40

8

A + B

SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: **3**

TOTAL NUMBER OF SUBSTRATE TYPES: **5**

- 2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes). (Check ONLY one box):**

<input type="checkbox"/> >30 centimeters [20 pts]	<input type="checkbox"/> >5 cm - 10 cm [15 pts]
<input type="checkbox"/> >22.5 - 30 cm [30 pts]	<input type="checkbox"/> <5 cm [5 pts]
<input type="checkbox"/> >10 - 22.5 cm [25 pts]	<input checked="" type="checkbox"/> NO WATER/MOIST CHANNEL [0 pts]

Pool Depth
Max=30

0

COMMENTS: Ephemeral stream dry at time of sampling

MAXIMUM POOL DEPTH (centimeters)

0.0

- 3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):**

<input type="checkbox"/> >4.0 meters (>13') [30 pts]	<input type="checkbox"/> >1.0 m - 1.5 m (>3'3"-4'8") [15 pts]
<input type="checkbox"/> >3.0-4.0 m (>9' 7"-13') [25 pts]	<input checked="" type="checkbox"/> ≤1.0 m (≤ 3'3") [5 pts]
<input type="checkbox"/> >1.5-3.0 m (>4' 8"-9' 7") [20 pts]	

Bankfull
Width
Max=30

5

COMMENTS:

AVERAGE BANKFULL WIDTH (meters)

0.9

This information must also be completed.

RIPARIAN ZONE AND FLOODPLAIN QUALITY

*NOTE: River Left (L) and Right (R) as looking downstream.

RIPARIAN WIDTH

L	R
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

(Per Bank)

(FLOODPLAIN QUALITY)

L	R
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

(Most Predominant per Bank)

L	R
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Conservation Tillage

COMMENTS:

FLOW REGIME (At Time of Evaluation) (Check ONLY one box):

<input type="checkbox"/> Stream Flowing	<input type="checkbox"/> Moist channel, isolated pools, no flow (Intermittent)
<input type="checkbox"/> Subsurface flow with isolated pools (Interstitial)	<input checked="" type="checkbox"/> Dry channel, no water, (Ephemeral)

COMMENTS:

SINUOSITY (Number of bends per 200 ft (61 m) of channel) (Check ONLY one box):

<input type="checkbox"/> None	<input type="checkbox"/> 1.0	<input type="checkbox"/> 2.0	<input type="checkbox"/> 3.0
<input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.5	<input type="checkbox"/> 2.5	<input type="checkbox"/> > 3

STREAM GRADIENT ESTIMATE

<input type="checkbox"/> Flat (0.5 ft/100 ft)	<input type="checkbox"/> Flat to Moderate	<input checked="" type="checkbox"/> Moderate (2 ft/100 ft)	<input type="checkbox"/> Moderate to Severe	<input type="checkbox"/> Severe (10 ft/100 ft)
---	---	--	---	--

Location / Stream Name: Stream 2 / PIR 559 - West High Street and North Sunset Drive, Orrville and Green Township, Wayne County, Ohio

Additional Stream Information (This Information Must Also Be Completed):

QHEI PERFORMED? ☐ Yes ☒ No QHEI Score _____ (If Yes, Attach Completed QHEI Form)

DOWNSTREAM DESIGNATED USE(S): _____

<input checked="" type="checkbox"/> WWH Name:	<u>Little Chippewa Creek</u>	Distance from Evaluated Stream	<u>2 miles</u>
<input type="checkbox"/> CWH Name:	_____	Distance from Evaluated Stream	_____
<input type="checkbox"/> EWH Name:	_____	Distance from Evaluated Stream	_____

MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.

USGS Quad Name: Orrville NRCS Soil Map Page: _____ NRCS Soil Map Stream Order: _____
County: Wayne Township/City: Orrville and Green Township

MISCELLANEOUS

Base Flow Conditions? (Y/N) Y Date of Last Precipitation: 7-Jul-17 Quantity: 0.11 inch

Photograph Information: See Attached

Elevated Turbidity? (Y/N): N Canopy (% open): 5%

Were samples collected for water chemistry?(Y/N) N (Note lab sample no. or id. and attach results) Lab No.: _____

Field Measures: Temp (C) _____ Dissolved Oxygen (mg/l) _____ pH(S.U.) _____ Conductivity(µs) _____

Is the sampling reach representative of the stream (Y/N)? _____ If not, please explain: _____

Additional comments/description pollution impacts: _____

BIOTIC EVALUATION

Performed? (Y/N) N (If yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID Number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)

Fish Observed? (Y/N) _____ Voucher? (Y/N) _____ Salamanders Observed? (Y/N) _____ Voucher? (Y/N) _____
Frogs/Tadpoles Observed? _____ Voucher? (Y/N) _____ Aquatic Macroinvertebrates Observed? (Y/N) _____ Voucher?(Y/N) _____

Comments Regarding Biology: _____

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):

Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location.

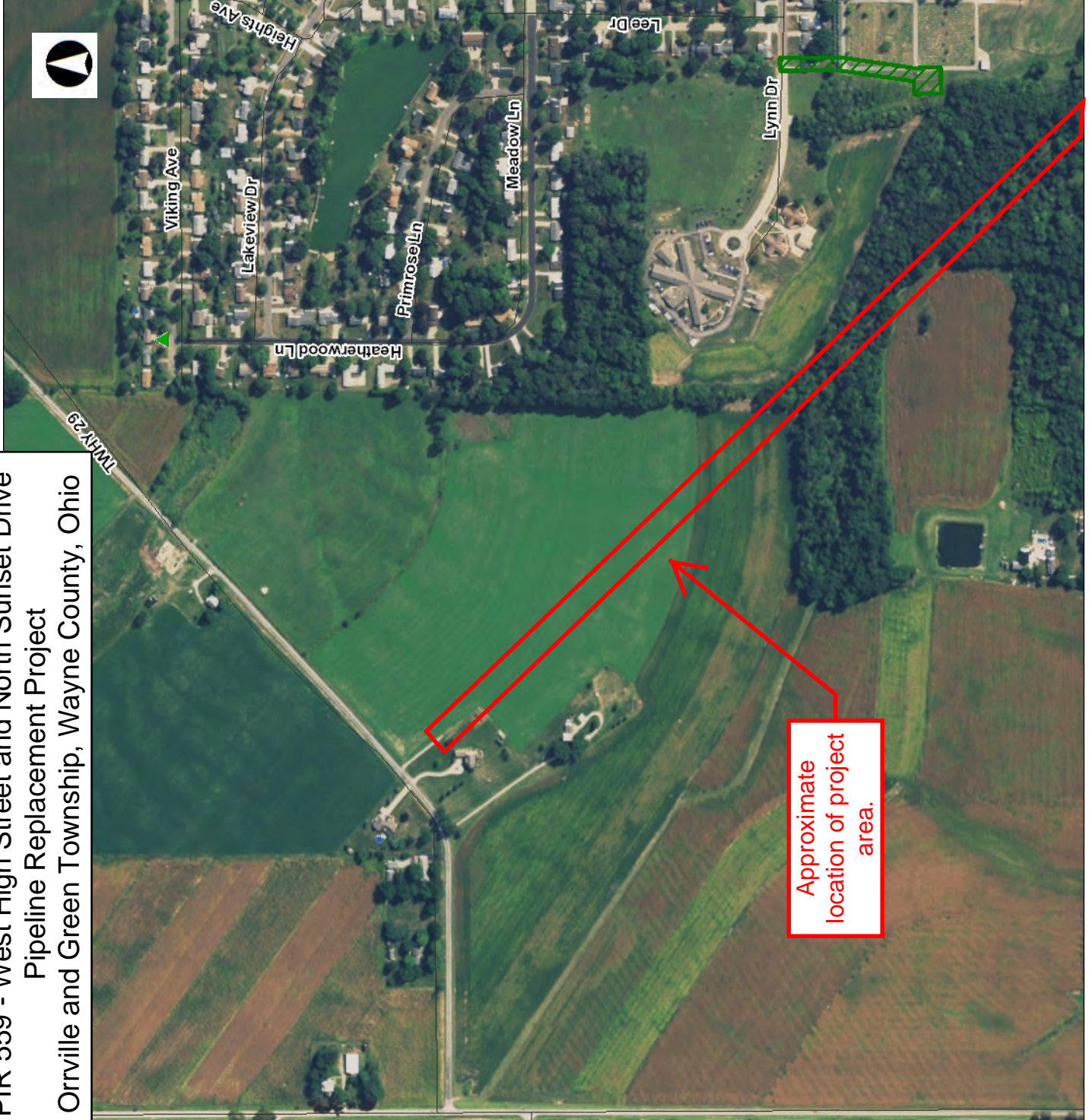
FLOW →

**CASE No. 17-1957-GA-BLN
PIR #559 -HIGH AND SUNSET
CITY OF ORRVILLE AND GREEN TOWNSHIP, WAYNE COUNTY, OHIO
12-INCH HIGH PRESSURE GAS PIPELINE REPLACEMENT**

ATTACHMENT E

**OHIO HISTORIC PRESERVATION OFFICE
DESKTOP LITERATURE REVIEW RESOURCE MAPS**

PIR 559 - West High Street and North Sunset Drive
Pipeline Replacement Project
Orville and Green Township, Wayne County, Ohio



Approximate
location of project
area.



Legend

- NR Listings
Listed
National Historic Landmark
Delisted
NR Determinations of Eligibility
Archaeological Sites
Historic Structures
Historic Bridges
Historic Tax Credit Projects
OGS Cemeteries
Confident
Not Confident
Dams
UTM Zone Split
NR Boundaries
OAI Site Boundaries
Phase1
Phase2
- 0 0.11 0.22 Miles
- 1: 8,679

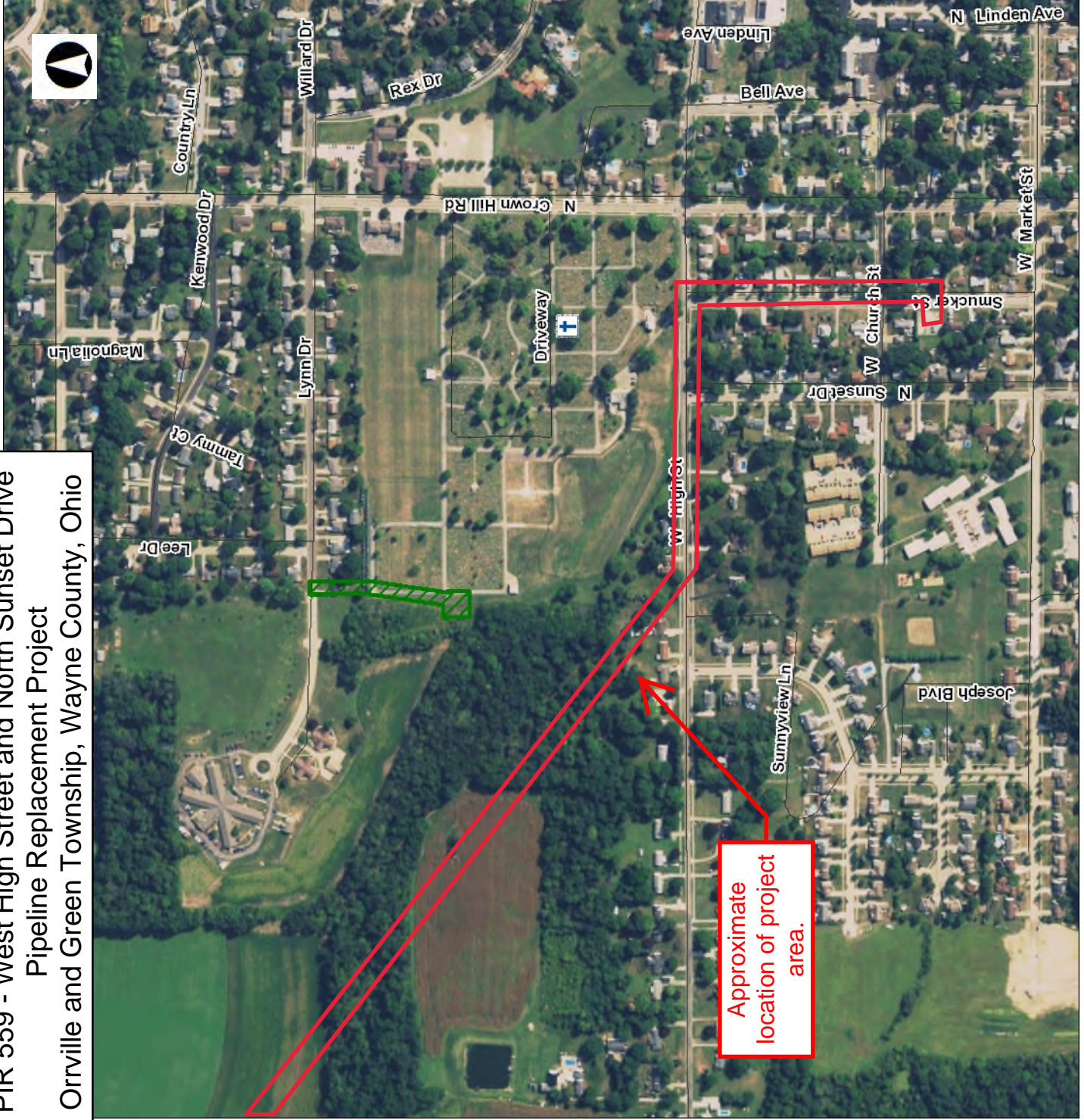
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Datum: [Datum]
Projection: WGS_1984_Web_Mercator_Auxiliary
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PIR 559 - West High Street and North Sunset Drive
Pipeline Replacement Project
Orrville and Green Township, Wayne County, Ohio



Approximate
location of project
area.



Ohio Historic
Preservation Office

Legend

- NR Listings
 - Listed
 - National Historic Landmark
 - Delisted
- NR Determinations of Eligibility
 - Archaeological Sites
 - Historic Structures
 - Historic Bridges
 - Historic Tax Credit Projects
 - OGS Cemeteries
- Confident
- Not Confident
- Dams
- UTM Zone Split
- NR Boundaries
- OAI Site Boundaries
- Phase1
- Phase2

0 0.11 0.22 Miles

1: 8,679

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1/29/2018 2:19:28 PM

in

Case No(s). 17-1957-GA-BLN

Summary: Letter of Notification Application for PIR 559 Pipeline Replacement Project - Part 1
electronically filed by Teresa Orahoud on behalf of Sally W. Bloomfield