Dominion Resources Services, Inc.
320 Springside Dr., Ste. 320, Akron, OH 44333
Web Address: www.dom.com

May 3, 2012

BY FED-EX

Tom Harcarik
Ohio EPA
DSW/401 Section
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, OH 43216-1049

RE: The East Ohio Gas Company
Application for Section 401 Water Quality Certification
Guernsey to Lewis Natural Gas Pipeline

Dear Mr. Harcarik:

The East Ohio Gas Company (EOG) is submitting a 401 Water Quality Certification application for EOG's Guernsey to Lewis Natural Gas Pipeline Project. This project is located in Washington, Rush, Clay, and Mill Townships in Tuscarawas County, and Franklin Township in Harrison County, within the Tuscarawas River watershed.

Enclosed with this submittal are one (1) signed original copy of the application and supporting documents, and two (2) CDs of the application and supporting documents. Also enclosed is a check for $3,462.95 made payable to Treasurer, State of Ohio.

This project is scheduled to begin in late summer 2012 and EOG would appreciate your timely response. Please forward your response to the attention of:

Sam Mathew, P.E.
Manager, Environmental
320 Springside Dr., Suite 320
Akron, OH 44333
Sam.S.Mathew@dom.com

If you have any questions or need additional information, please contact Sam Mathew at (330) 664-2531.

Sincerely,

Lisa C. Moerner

Lisa C. Moerner
Director, Environmental Policy & Sustainability

Attachments

Cc: Sam Mathew

Application for Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

Instructions

Version Number:	1
Version Date:	May 2, 2012
Ohio EPA ID#	

Please use the ***Instructions for Completing the Section 401 Water Quality Certification Application and/or Isolated Wetland Permit*** for guidance in filling out this form (see INSERT LINK).

This application must be completed whenever a proposed activity requires an individual Clean Water Act Section 401 Water Quality Certification (401 WQC) or an Isolated Wetland Permit (IWP) from Ohio EPA. A 401 WQC from the State is required to obtain a federal Clean Water Act Section 404 permit from the U.S. Army Corps of Engineers (USACE), or any other federal permits or licenses for projects that will result in a discharge of dredged or filled material to any waters of the State.

To determine whether you need to submit this application to Ohio EPA, contact the U.S. Army Corps of Engineers District Office with jurisdiction over your project, or other federal agencies reviewing your application for a federal permit to discharge dredged or fill material to waters of the State, or the Ohio EPA Section 401 Coordinator at (614) 644-2001.

Appropriate fees must accompany the printed copy of the complete application (see Section 1.4). Failure to submit appropriate fees or not filling out all required sections completely may result in the application being considered administratively incomplete and action

401 Staff Use Only	
Date Received	
Coordinator	
Ohio EPA ID #	
USACE PN #	
Project Name	

DSW Fiscal Use Only		
PERSON ID		
PLACE ID		
DOCUMENT ID		
ORGANIZATION ID		
REVENUE ID		
CID		
Amount		
Paid		
Date		
Check #		
Date		

Choose ONE Option to Submit Your Application:

- One signed and printed copy of the complete application and supporting documentation and upload an electronic file of the complete application and supporting Attachments (only .pdf, .jpg, and .bmp files of the supporting documentation will be accepted) to the following web link: (no link yet available – coming soon);

- One signed and printed copy of the complete application and supporting documentation and e-mail the complete application (excel workbook) and supporting Attachments (only .pdf, .jpg, and .bmp files of the supporting documentation will be accepted) to dsw.webmail@epa.state.oh.us

- One signed and printed copy of the complete application and supporting documentation and up load the complete application and supporting attachments (only .pdf, .jpg, and .bmp files will be accepted) to the eBusiness Center Website (https://ebiz.epa.ohio.gov//) .

- If electronic versions of the documents cannot be provided, submit the original signed and completed application and three (3) copies of the signed and completed application (print the entire excel workbook) and supporting Attachments;

Printed copies and fees shall be submitted to:
Ohio EPA, Attn: Supervisor DSW, 401/Wetlands Unit, P.O. Box 1049, Columbus, OH 43216-1049

Application for Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

A. Pre-Application and Type of Review Checklist

	Coordination/Review Type	Checklist To Be Completed By Applicant	Ohio EPA Use Only
	1. Pre-Application Coordination:		
	1. Has pre-application coordination taken place for this project?	NO	
	2. Who was the 401 Contact?	Tom Harcarik	
	3. When did you submit the pre-application request form?	February 24, 2012	
	4. When did the pre-application site visit/meeting occur?		
	5. What was the date of Ohio EPA's pre-application follow-up letter?		
	6. What was the date of Applicant's response letter?		
	2. Type of Review:		
	1. Section 401 Water Quality Certification Review	YES	
	2. State Isolated Wetlands Level 1 Review	NO	
	3. State Isolated Wetlands Level 2 Review	NO	
	4. State Isolated Wetlands Level 3 Review	NO	
	5. After-the-Fact Review (NOTE 1: You must also select another type of review. NOTE 2: You must provide "as built" drawings and submit them in Attachment 5.13)	NO	

B. Section 401 WQC Administrative Completeness Checklist

This is a check list for both the applicant and the 401 Coordinator. Indicate that you have provided the specified content and that you have included it in the appropriate location within the application by selecting Yes, No or NA for Not Applicable, in the box to the left of each of the required items.

Checklist For Applicant	Applicant Content Required for Completeness Review	Where Located In Application	Ohio EPA Use Only
YES	1. A complete 401 WQC application form	All Sections must be completed in their entirety, except where impact tables are not applicable. Provide attachments as applicable.	
YES	2. Applicable fees	Section 1.4 and Attachment 5.2	
NO	3. USACE Public Notice	Attachment 5.3	
YES	4. USACE Jurisdictional Determination Letter	Attachment 5.4	
YES	5. Delineation of Waters Report	Attachment 5.5	
YES	6. Stream Assessments	Section 3.4, Attachment 5.6.1	
YES	7. Wetland Assessments	Section 3.5, Attachment 5.6.2	
YES	8. Photos of each individual water resource	Attachment 5.6.3 and 5.6.4	
YES	9. Descriptions, schematics, and appropriate economic information for the applicant's preferred alternative, non-degradation alternative and minimal degradation alternative	Section 3, Attachments Section 5.8	
YES	10. Documentation confirming that the applicant has requested comments from the Ohio Department of Natural Resources and the United States Fish & Wildlife Service regarding threatened and endangered species, including the presence or absence of critical habitat	Attachment 5.10	
YES	11. A mitigation proposal, including the location and proposed legal mechanism for protecting the property in perpetuity	Section 4.0 and Attachments Section 5.12	

Application for Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

Instructions

A. Pre-Application and Type of Review Checklist
B. Section 401 Water Quality Certification Administrative Completeness Checklist
C. State Isolated Wetland Permit Level 1 Administrative Completeness Checklist
D. State Isolated Wetland Permit Level 2 Administrative Completeness Checklist
E. State Isolated Wetland Permit Level 3 Administrative Completeness Checklist

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5.6 Water Resource Documentation
- 5.6.1 Stream Assessments
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- 5.6.3 Water Resource Photographs
- 5.6.4 Water Resource Photo Location Map

5.7 Existing Conditions Map(s)
5.8 Alternatives Analysis
- 5.8.1 Preferred Alternative
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- 5.8.2 Minimal-Degradation Alternative
- Minimal-Degradation Alternative - Drawing
- Minimal-Degradation Alternative - Cross-Sections
- 5.8.3 Non-Degradation Alternative

	Non-Degradation Alternative - Drawing
5.9	State Isolated Wetland Documentation
	State Isolated Wetland Level 1 or 2 Project Drawing
	State Isolated Wetland Level 2 Documentation: Wetland Scarcity and Threatened/Endangered Species
	State Isolated Wetland Level 2 Documentation: Project Impacts regarding Degradation of Aquatic Ecosystem
5.10	Documentation Requesting Comments from ODNR and USFWS
5.11	Appropriate Sections of TMDL
5.12	Mitigation Documentation
5.12.1	On-site Permittee-responsible Mitigation Project Documentation
	On-site Permittee-responsible Mitigation Project Purchase Agreement/Options
	On-site Permittee-responsible Mitigation Project Photographs
	On-site Permittee-responsible Mitigation Project Photograph Location Map
5.12.2	Off-site Permittee-responsible Mitigation Project Documentation
	Off-site Permittee-responsible Mitigation Project Purchase Agreement/Options
	Off-site Permittee-responsible Mitigation Project Photographs
	Off-site Permittee-responsible Mitigation Project Photograph Location Map
5.12.3	Mitigation Bank Documention
	Mitigation Bank Documention that Required Mitigation is Available
	Mitigation Bank Documention that Required Mitigation is Reserved
	Second Mitigation Bank Documentation that Required Mitigation is Available
	Second Mitigation Bank Documention that Required Mitigation is Reserved
5.12.4	Final Mitigation Plan (not required until project/impacts have been reviewed by Ohio EPA)
5.13	After-the-fact Impacts Documentation
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Previous Next PrintOptions Save

Application for Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

Section 1: Administrative Information

1.1 Applicant Information

Applicant Contact Name and Title (Person who owns property or has the legal authority to conduct work on the property):

1. First Name	Michael	**MI**	C	**Last Name:**	Reed				
2. Company Name:	East Ohio Gas Company								
3. Phone:	(330) 664-2240	**Ext:**		**4. Fax:**		**5. Alternate phone:**		**Ext:**	
6. Email:	Mike.C.Reed@dom.com								
7. Website:	http://dom.com/dominion-east-ohio/index.jsp								
8. Street:	320 Springside Drive, Suite 320								
9. City:	Akron								
10. State:	Ohio	**11. ZIP Code:**		44333					

Applicant - Technical Point-of-Contact:

14. First Name	Sam	**MI**	S	**Last Name:**	Mathew				
15. Company Name:	Dominion Resources								
16. Phone:	(330) 664-2531	**Ext:**		**17. Fax:**	(330) 664-2669	**18. Alternate phone:**		**Ext:**	
19. Email:	Sam.S.Mathew@dom.com								
20. Website:									
21. Street:	320 Springside Drive, Suite 320								TRUE
22. City:	Akron								
23. State:	Ohio	**24. ZIP Code:**		44333					

1.2 Consultant/Agent Information (if applicable)

Consultant/Agent Technical Point-of-Contact Name and Title *(Project Manager or other person in charge of authorizing contracts for 401 permitting):*

1. First Name	Judith	**MI**	M	**Last Name:**	Mitchell				
2. Company Name:	Davey Resource Group								
3. Phone:	(330) 673-5685	**Ext:**	8067	**4. Fax:**	(330) 673-0860	**5. Alternate phone:**		**Ext:**	
6. Email:	Judith.Mitchell@davey.com								
7. Website:	http://www.davey.com/								
8. Street:	3728 Fishcreek Road								
9. City:	Stow								
10. State:	Ohio	**11. ZIP Code:**		44224					

Other Consultant/Agent

14. First Name		**MI**		**Last Name:**					
15. Company Name:									
16. Phone:		**Ext:**		**17. Fax:**		**18. Alternate phone:**		**Ext:**	
19. Email:									
20. Website:									
21. Street:									
22. City:									
23. State:		**24. ZIP Code:**							

27. Who is the MAIN POINT OF CONTACT for the Project?

Name:	Sam Mathew

1.3 Agent Authorization and Application Signatures

I hereby designate and authorize the primary agent/consultant named in Section 1.2 to **act on my behalf** in the processing of this permit application, and to furnish, upon request, supplemental information in support of the application*.

Applicant Printed Name	Applicant Signature	Date
Michael Reed	Michael C Reed	4/27/2012

Application is hereby made for a Section 401 Water Quality Certification and/or State Isolated Wetland Permit. I certify that I am familiar with the information contained in this application and, to the best of my knowledge and belief, such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities or I am acting as the duly authorized agent of the applicant.

Applicant Printed Name	Applicant Signature	Date
Michael Reed	Michael C Reed	4/27/2012
Judith Mitchell	Judith Mitchell	5/4/2012
Primary Agent Printed Name	Agent Signature	Date

***If the agent has been designated and authorized to act on the applicant's behalf, then both the applicant and agent must sign the application.**

Application for Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

Section 1: Administrative Information

1.4 Fees

Are you exempt from fees?	NO

Complete the red underlined areas of Section 1, Section 2.2, Section 3.2 and Section 3.3. NOTE that the impact and total fees will be automatically populated and calculated once you have entered impact data in the tables in Sections 3.4, 3.5 and/or 3.6. It is suggested that you complete the rest of the workbook first and come back to this page to check fee calculations. If you are exempt from fees, provide supporting documentation in Attachment 5.2 and skip to Section 1.5.

1. Application Fees:

Water Quality Certification Application Fee		Yes		$200.00 =	$200.00
Isolated Wetland Permit Application Fee		No		$200.00 =	NA

2.1 Water Quality Certification Impact Review Fees:

Wetland:	acres impacted:	3.35	x	$500.00	=	$1,675.90
Ephemeral Stream:	linear feet impacted:	16.00	x	$5.00	=	$80.00
Intermittent Stream:	linear feet impacted:	51.00	x	$10.00	=	$510.00
Perennial Stream:	linear feet impacted:	284.00	x	$15.00	=	$4,260.00
Lake (Other Water Body):	cubic yards of fill:	0.00	x	$3.00	=	$0.00
		Impact Review Fees:			=	**$6,525.90**

2.2 Is Impact Fee Cap Exceeded?

* Are you a County, Township or Municipal Corporation? (Select Yes / No			No
* Cap for County, Township or Municipal Corporation only			
Is fee cap exceeded?	Not Applicable	No	NA
* Cap for Standard Applicant			
Is fee cap exceeded?	$25,000.00	No	NA
	Adjusted Impact Review Fees		$6,525.90

WQC fee due at time of application (Application fee + 1/2 of Review fee) =	$3,462.95
Total WQC fee due upon disposition of application =	$3,262.95

3.1 Isolated Wetland Permit Impact Review Fees:

Wetland:	acres impacted:	0.00	x	$500.00	=	$0.00
		Impact Review Fees:			=	**$0.00**

3.2 Is Impact Fee Cap Exceeded?

* Are you a County, Township or Municipal Corporation? (Select Yes / No			Yes
* Cap for County, Township or Municipal Corporation only			
Is fee cap exceeded?	$0.00	No	NA
* Cap for Standard Applicant			
Is fee cap exceeded?	Not Applicable	No	NA
	Adjusted Impact Review Fees		$0.00

3.3 Did After the Fact Impacts Occur?	No	**$0.00**
Isolated Wetland Permit fee due at time of application =		

4. Total Fees

Total Fees due at the time of application =	
Total Fees due upon disposition of application =	$3,262.95

Application for Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

Section 1: Administrative Information

1.5 Other Permit Information

Are Other Permits Required For This Project? Please refer to the instructions to help determine if other permits are necessary for this project.

	Is Permit Required?	Agency:	Identification Number:	Date Applied	Date Received	Status
Federal Permits:						
1. Section 10:	NO	SELECT				
2. Section 404:	NO	SELECT				
3. Nationwide Permit [indicate which one(s)]	SELECT	USACE-HUNTINGTON	12	March 15, 2012		Pre-JD issued on 4/18/2012
4. Other Federal Permits (list):						
USFWS - Threatened and Endagered Species	YES	**US Fish and Wildlife Service**		January 25, 2012	February 3, 2012	
	SELECT					
	SELECT					
	SELECT					
	SELECT					
	SELECT					
	SELECT					
State Permits						
5. Ohio EPA – General NPDES	YES	Ohio Environmental Protection Agency				
6. Ohio EPA – Individual NPDES	NO					
7. Ohio EPA – PTI	NO					
8. ODNR – OCMP – Shore Structure Permit	NO					
9. ODNR – OCMP – Submerged Lands Lease	NO					
10. ODNR - DMRM-Oil and Gas Well Permit	NO					
11. ODNR - Coal and Industrial Minerals Permit	NO					
12.Other State of Ohio Permits (list):						
ODNR - Threatened and Endangered Species	YES	Ohio Division of Natural Resources	11-0607	December 15, 2011	January 25, 2012	
	SELECT					
	SELECT					
	SELECT					
	SELECT					
	SELECT					
	SELECT					
	SELECT					
13. Local Permits (list):						
	SELECT					
	SELECT					
	SELECT					
	SELECT					
	SELECT					
	SELECT					
	SELECT					
	SELECT					
	SELECT					

Application for an Ohio EPA Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

Section 2: Project Information Overview

2.1 Project Overview

1. Project Name:	Guernsey to Lewis Natural Gas Pipeline
2. Project Purpose and Activity:	The purpose of this project is to install a pipeline that will safely and securely transport natural gas from the Guernsey Station to the Lewis Station. The installation and construction activities will occur within a 60-foot portion of an existing 90-foot right of way (ROW), approximately 12.0 miles long. The majority of the project area is mowed with small areas of scattered woody vegetation along the edges of the maintained easement area. The construction activities will require soil disturbance within the easement to accommodate areas for trench excavation, side-cast spoil, and temporary storage of the new pipe. All work shall be performed within these authorized limits of disturbance, following the existing, pipeline easement. To attain the project purpose and ensure the integrity and safety of this pipeline, a corrosion resistant, 24-inch pipe will be installed in a 5-foot wide trench. The trench will allow 3 to 5 feet of cover over the new pipeline after installation and backfilling. Separation of the topsoil from the subsoil will be performed at water bodies and agricultural lands. Excess soil will be spread onsite, with the exception of environmentally sensitive areas. Following pipeline installation, all disturbed areas will be returned to their original slope and contour, stabilized, and seeded. These efforts will provide a permanent herbaceous cover to stabilize the disturbed soils. The majority of the work zone is located within the maintained portion of the easement, although some tree clearing will be required along the edges of the mowed areas. No permanent filling of wetlands or waterbodies will occur. The project will result in temporary impacts to 3.35 acres of wetland and 351 feet of stream. These impacts are due to the water features being crossed by the trench and the surrounding work zone. The minimal degradation alternative differs from the preferred alternative in that pipe installation activities will be limited to a 50-foot corridor around water resources. This minimization effort will result in a reduction in temporary impacts to 2.79 acres of wetland and temporary impacts to 351 feet of stream.
3. Site Description of Project Area (Provide existing conditions mapping as indicated in the instructions. Label attachments appropriately)**:**	The Guernsey to Lewis project area lies within the Unglaciated Allegheny Plateau physiographic region which is characterized by relatively steep topography, deep valleys, high hills, and winding streams. As a result, the land use across Tuscarawas and Harrison County is fairly fragmented; row crops often occupy lowland floodplains with a mix of forest and pasture present in higher areas. The project crosses through a variety of land types, including a mix of agriculture (row crop and pasture), new field/old field, scrub/shrub, and forested areas. The forested areas were historically logged, and are primarily composed of mid- and young successional woods dominated by a mix of Quercus sp. (oak), Carya sp. (hickory), and Acer sp. (maple). Numerous streams and wetlands were identified within the Guernsey to Lewis pipeline project area. Small, emergent wetlands that are regularly mowed are the predominant wetland identified, but some forested and scrub/shrub wetlands are also present. A portion of a small 0.31-acre pond is partially located within the maintained easement corridor, but no impacts are proposed to this pond. The majority of the streams identified within the project area are small headwater streams which have impacts to riparian vegetation because of easement maintenance. There are three named streams within the project area: Stillwater Creek, Watson Creek, and Crooked Creek. Streams 1-8 drain to Dunlap Creek, which drains to the Tuscarawas River. Streams 9-17 drain to Watson Creek and Streams 18-23 drain to Crooked Creek, and both Watson Creek and Crooked Creek drain to Stillwater Creek. Streams 23-37 drain to Stillwater Creek, which drains to the Tuscarawas River. The project area crosses multiple roads including Fallen Timber Road, Gilmore Road, Hines Ridge Road, Watson Creek Road SE, Crooked Creek Road, Blizzard Ridge Road, Tatman Road SE, Rock Road, Barkley Road, Edie Hill Road, Tracey Road, Johnson Avenue (State Route 800), Feed Springs Road, and Moores Ridge Road.

2.2 Project Location

1. Parcel #:					
	Latitude			**Longitude**	
Select and Provide Project Location on Land:	40.32949			-81.34872	
2. Total Project Acres:	87.27 acres				
3. Street Address or Nearest Intersection:	The study area is linear and generally southwest/northeast oriented. It is bounded by Gravel Lick Road to the west and Cadiz-Dennison Road to the East.				
4. County:	Tuscarawas	**5. City:**	SELECT	**6. Township:**	SELECT
7. State:	Ohio	**8. Zip Code**	44836		
9. Directions to Project Site:	Take 77 south to exit 65, US-36 toward Port Washington/Newcomerstown. Turn left onto St. Clairsville St. Continue onto River Hill Rd SE. Turn right to stay on River Hill Rd SE. Turn Right onto Gravel Lick Rd. SE. The southwestern end of the project area is the first left, at the Dominion station.				
10. Other Project Location Information:	Project area is in Washington, Rush, Clay and Mill Townships in Tuscarawas County, and Franklin Township in Harrison County. The project area is associated with two Zipcodes: 44836 and 44683. The Project area is within multiple 12 digit HUCs: 050400011504; 050400011505; 050400011604; 050400011504; 050400011602; 050400011601; and 050400011801				
11. Hydrologic Unit Code (HUC) 8 digit:	05040001	**12. HUC 10 digit**	0504000116	**13. HUC 12 digit:**	050400011602
14. Watershed Name:	Tuscarawas		Lower Stillwater Creek		Crooked Creek
15. River Mile:	Stillwater Creek Crossings at RMs 11.45, 13.00, 13.87; Watson Creek at RM 2.10; and Crooked Creek RM 5.30				
16. Shoreline Mile:					

2.3 General Project Questions		
1. Is the project site located in a watershed in which a Total Maximum Daily Load (TMDL assessment was conducted?)	NO	
2. Does the project involve the placement of dredged material?	YES	
2.1. Material will be dredged from what location?	A 5-foot wide trench will be excavated to approximately 6 feet deep, for the installation of the pipe, to allow 3 to 5 feet of cover over the new pipeline.	
2.2. Where will dredged material be placed?	The dredged material from the 5-foot wide trench will be temporarily placed into adjacent areas within the project area, including wetlands. This material will then be backfilled into the trench following the installation of the new pipe. Separation of the topsoil from the subsoil will be implemented at water bodies and agricultural lands. Excess soil will be spread onsite, with the exception of environmentally sensitive areas.	
3. Has any portion of the project already started or been completed?	NO	
4. Have unauthorized stream or wetland impacts already occurred?	NO	
5. Is this application for a project that is part of a phased development? If yes, please answer the following questions:	NO	
6. Has any information submitted previously or presented to Ohio EPA during the pre-application coordination changed or been revised?	NO	

6.8. Other	

2.4 Section 401 and State Isolated Wetland Level 3 Project Questions	
1. Human Health Impacts:	This project will have no adverse impacts to human health. All contours will be restored to their pre-construction grades and slopes so that drainage out of the project area will be virtually unchanged. As a result, there will be no increase of water volume to receiving waters or to public water supplies. Further, all Best Management Practices will be implemented so no degradation of water quality will occur to any receiving waters and/or public water supplies. Dredged material will only be excavated from the pipe trench and no additional fill will be brought onsite. Excess soil will be spread onsite, away from wetlands, agricultural fields, public water supplies, and other environmentally sensitive areas to ensure no impacts to human health occur. The installed pipe will be corrosive resistant to ensure the integrity and safety of the pipeline. The pipe will be hydrostatically tested to verify the pipes do not leak or have manufacturing flaws so as to prove the integrity of the pipeline. This testing is important in the interest of device safety and durability under operating pressure so as to ensure no impacts to human health occur. Safety is an integral part of the design, construction, and maintenance of these pipeline facilities.
2. Conservation Projects:	The affected water resources associated with this pipeline project have not been targeted by any government or privately sponsored conservation project. The Ohio Department of Natural Resources has no Watershed Action Plans or Watershed Coordinator Grants in the proximity of the project area. According to the Ohio Environmental Protection Agency, there is no Total Maximum Daily Load program associated with the project area. A review of Ohio Watershed Online was conducted and three watershed groups were found associated with the area. The Nimishillin Creek Watershed Partners, Muskingum Watershed Conservancy District (MWCD), and Tuscarawas River Buried Valley Watershed Council are associated with the watershed but these groups are not targeting any of the affected water resources associated with this project.
3. Public Need:	Not Applicable
4. Adverse Impacts:	The Ohio EPA Rapid Assessment Method (ORAM) v.5.0 was used to evaluate the quality of the wetlands within the project area. (See Attachment 5.5) Using the Ohio Rapid Assessment Method (ORAM), the wetlands have been assessed as either Category 1 or 2. Category 1 wetlands support minimal habitat, hydrological, or recreational/educational functions. Wetlands within this category have low species diversity and a predominance of non-native vegetation. Wetlands that assess as Category 1 have been determined “Limited quality waters” per the Wetland Ohio Water Quality Standards. Category 2 wetlands support moderate wildlife habitat, or hydrological, or recreational functions, and are dominated by native species but generally without the presence of, or habitat for, rare threatened or endangered species. Category 2 wetlands are considered “general high quality waters.” The streams that cross through the project area have been assessed using either the Headwater Habitat Evaluation Index (HHEI) or the Qualitative Habitat Evaluation Index (QHEI). See Attachment 5.6.1. The majority of these waterbodies have been assessed as modified Palustrine Headwater Habitat (PHWH) streams. These streams have been channelized, cross through agricultural areas, and/or are mowed to the channel banks. The remaining headwater streams have assessed as Class 1 except for Stream 32, which has assessed as Class II. These watercourses are not unique, rare, or scarce regionally. Watson Creek, Crooked Creek, Stream 31 and Stillwater Creek have been evaluated using the QHEI and have been assessed as Modified Warmwater Habitat (MWH) streams. These waterbodies have been channelized through the project area and are located within active agricultural fields and/or are regularly mowed to the edge of the channel banks. Stillwater Creek has been assessed and designated by the Ohio EPA as Warmwater Habitat (WWH). This waterbody has the greatest potential habitat within the project area, but it is not unique, rare or scarce within the region as WWH stream types represent general aquatic community components that are characteristic of the majority of Ohio streams and rivers and as such, this designation is applicable to most of the state’s rivers and streams. Further, the riparian corridor of this stream within the project area is regularly mowed and is adjacent to active farm fields so that the habitat value of this stream is reduced in this area. None of the streams or wetlands within the project area are scarce regionally or statewide. No category 3 wetlands or water features with exceptional quality are located onsite. No unique water features such as fens, bogs, or potential habitat that could support threatened and endangered species were identified onsite.

Application for an Ohio EPA Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

Section 3: Alternatives Analysis

It is of utmost importance to use the instructions to complete this section. All plans and drawings shall be provided as attachments.

3.1 Preferred Alternative

1. Project Description for the Preferred Alternative:	The purpose of the project is to transport natural gas twelve (12) miles, connecting the Guernsey Station to the Lewis Station. Impacts to water resources will occur in a 60-foot corridor, within an existing easement. See the Project Overview (Section 2.1) for further details of the Preferred Alternative.
2. Avoidance:	As has been said, the project is designed to transport natural gas from the Guernsey Station to the Lewis Station. To determine possible locations for this connector line, the National Wetland Inventory (NWI) Maps for the area were evaluated to determine prospective project areas that would minimize potential impacts to larger, and therefore potentially higher quality water resources. Using the NWI mapping resources, it was determined that the existing easement would attain the project purpose and at the same time, provide a project area that avoided larger areas of water resources. There is a great benefit to using an existing, maintained corridor as large tracts of forest are avoided and tree clearing is minimized. Other potential project area connections between the Guernsey and Lewis Stations have a greater coverage of forest and would result in greater permanent impacts to riparian and buffer vegetation. Because the project is located within an existing easement, impacts to higher quality, water resources and larger tracts of forested vegetation are avoided, reflecting the sensitivity of the site design to the natural features of the area.
3. Minimization:	Because the location of this project has been placed entirely within a cleared, maintained easement, impacts to larger, higher quality water resources have been avoided. This means that impacts are limited to areas of modified, lower quality water resources, minimizing impacts to vegetation and higher quality water resources. Another facet of the project that minimizes disturbances to water resources is that the crossings of Stillwater Creek are close to a 90-degree angle, reducing impacts to this stream to the greatest extent practicable. Only temporary impacts to water resources will occur with the installation of new pipe for this project. New impervious surfaces will not be created. Separation of the topsoil from the subsoil will be performed at water bodies and agricultural lands. Following pipeline installation, all disturbed areas will be returned to their original slope and contour, stabilized, and seeded. These efforts will provide a permanent herbaceous cover to stabilize the disturbed soils. Temporary erosion controls will be maintained until this permanent cover is established. No permanent filling of wetlands or waterbodies will occur. With the implementation of Best Management Practices, no degradation of water quality will occur thus minimizing impacts to water resources.
4. Magnitude of Proposed Lowering of Water Quality:	The project will result in temporary impacts to 0.663 acres of non-forested Category 1 wetland, 2.169 acres of non-forested Category 2 wetland, and 0.520 acres of forested Category 2 wetland. The 0.520 acres of forested wetland will be converted to non-forested wetland. The project will result in temporary impacts to 16 feet of ephemeral stream, 51 feet of intermittent stream, and 284 feet of perennial stream. These water bodies will be temporarily impacted but the aquatic community structure of these affected water bodies will not be impacted. The project will not result in the elimination of aquatic life from the affected portion of the water bodies, nor will the number of species decline. Because all impacts are temporary and are occurring within an existing, maintained easement, there will be minimal loss of habitat, water quality, and/or populations of wetland and stream biota.
5. Technical Feasibility and Cost Effectiveness:	The Preferred Degradation Alternative is technically feasible to construct using currently available engineering practices and technology within the 60-ft wide ROW. The total estimated cost to construct the Preferred Degradation Alternative is $36 million.
6. Cumulative Impacts:	Because this project is located within an existing, maintained easement, habitat impacts to these water resources have already occurred with the clearing of wooded areas and the regular mowing of vegetation. Long-term, the vegetation in this easement will continue to be mowed and will not succeed to woody vegetation. Maintenance of the pipes will be necessary to ensure the safety and integrity of the pipeline. This maintenance may require future temporary impacts to water resources within the project area. Although there is a permanent loss of forested habitat, this easement provides a corridor for wildlife; in particular, this maintained easement provides a flight corridor for the federally listed endangered Indiana bat (Myotis sodalis).
7. Indirect Impacts:	Best Management Practices will be implemented to avoid indirect impacts to the receiving waters. All contours will be restored to their pre-construction grades and slopes. No barriers to the movement of aquatic organisms, no changes in streambed slope, no changes in drainage patterns, no changes in wetland hydrology, and no permanent dewatering or water diversions will occur with the implementation of this project. 0.520 acres of forested wetland will be converted to non-forested wetland.
8. Construction Storm Water Management Plans:	Prior to construction, coverage under the Ohio EPA NPDES construction general stormwater permit will be obtained and all terms and conditions will be followed. A project-specific Stormwater Pollution Prevention Plan (SWPPP) has been designed for the Guernsey to Lewis Pipeline and all applicable erosion and sediment control measures will be implemented during construction. Stormwater runoff and sedimentation will be managed through the use of rock check dams, filter socks, filter fence, trench plugs, waterbars, and temporary stabilization measures. These efforts will minimize downstream impacts to water quality from stormwater runoff. See the Erosion Control Devices (ECD) map in Attachment 5.14.1 and the Construction Drawings in Attachment 5.14.2
9. Post-Construction Storm Water Management Plans:	Following pipeline installation, all disturbed areas will be returned to their original slope and contour, stabilized, and seeded. These efforts will provide a permanent herbaceous cover to stabilize disturbed soils. New impervious areas will not be created. Post-construction runoff will remain essentially the same as pre-construction runoff. All relevant Best Management Practices as described in the SWPPP will be followed to minimize indirect impacts associated with this pipeline installation activity.

3.2 Minimal-Degradation Alternative	
1. Project Description for the Minimal-Degradation Atlernative:	The Minimal-Degradation Alternative attains the project purpose of transporting natural gas from the Guernsey Station to the Lewis Station, but the work corridor around water resources is reduced to 50 feet.
2. Minimization:	No permanent filling of wetlands or waterbodies will occur. With the application of the stormwater management plan, no degradation of water quality will occur with the implementation of this project. All waterbodies outside of the 50-foot corridor will be avoided and protected using all applicable Best Management Practices. See 3.1.3 above for additional details.
3. Magnitude of the Proposed Lowering of Water Quality:	The Minimal-Degradation Alternative will result in reduced impacts to water resources, as compared to the Preferred Alternative. The water resource impacts have been reduced from a 60-foot to a 50-foot corridor resulting in a decrease in 1) non-forested wetland impacts from 2.832 to 2.270 acres for a decrease of 0.562 acres; and 2) forested wetland impacts from 0.520 to 0.510 acres for a decrease of 0.010 acres. Because these impacts are temporary, there is no proposed loss of habitat, water quality, or populations of wetland and stream biota.
4. Technical Feasibility and Cost Effectiveness:	The Minimal Degradation Alternative is technically feasible to construct using currently available engineering practices and technology within the 50-ft wide work corridor. The Minimal Degradation Alternative would disturb less surface water than the Preferred Design. The total estimated cost to construct the Minimal Degradation Alternative is $37.5 million. To avoid and protect the water resources outside of the 50-ft work corridor, it will be necessary to use timber mats, silt fence, and other Best Management Procedures in association with these water resources. These avoidance measures will result in the increase in cost to implement the Minimal Degradation as compared to the Preferred Alternative.
5. Cumluative Impacts:	Cumulative impacts under the Minimal-Degradation Alternative will be reduced from the Preferred-Alternative as the total area of disturbance for the project will be lower for the Minimal-Degradation Alternative.
6. Indirect Impacts:	Indirect impacts under the Minimal-Degradation Alternative will be reduced from the Preferred-Alternative as the total area of disturbance for the project will be lower for the Minimal-Degradation Alternative.
7. Construction Storm Water Management Plans (if they are different than the preferred alternative):	All Best Management Practices will be implemented. See the ECD map in Attachment 5.14.1 and the Construction Drawings in Attachment 5.14.2.
8. Post-Construction Storm Water Management Plans (if they are different than the preferred alternative):	All disturbed areas will be returned to their original slope and contour, stabilized, and seeded.

3.3 Non-Degradation Alternative	
1. Is project water dependent? If project is not water-dependent, comlpete information requested below. If project is water-dependent, do not complete the information requested below. Instead, provide documentation that the project meets the definition of water dependent and include as Attachment.	NO
2. Project description for the Non-Degradation Alternative:	The only way to achieve the project purpose without any impacts to surface water quality is to install the pipe by boring under all water resources using horizontal directional drilling (HDD). Through this method, no direct or indirect impacts are proposed to occur.
3. Minimization:	By implementing all applicable Best Management Practices and by boring under all water resources, no direct or indirect impacts are proposed to occur.
4. Technical Feasiblility and Cost Effectiveness:	The majority of the Non-Degradation Alternative is technically feasible using currently available engineering practices and technology. But the project area crosses through sharp changes in topography. These topographic changes result in extended bore lengths and cause great difficulty with the placement of equipment at required locations. In addition, some areas are too steep to bore so that it is not possible to drill under all streams and wetlands. Because of these limitations, the Non-Degradation Alternative is not technically feasible. The total estimated cost to construct the Minimal Degradation Alternative is $39.8 million. The increase in cost for this alternative is the result of the cost of horizontal directional drilling.
5. Construction Storm Water Management Plans: (if they are different than the preferred and minimal-degradation alternatives)	All applicable Best Management Practices will be implemented. See the ECD map in Attachment 5.14.1 and the Construction Drawings in Attachment 5.14.2.
6. Post-Construction Storm Water Management Plans: (if they are different than the preferred and minimal-degradation alternatives)	All disturbed areas will be returned to their original slope and contour, stabilized, and seeded.

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Section 3: Alternatives Analysis

3.4 Stream Resources and Impact Comparison Table

1. Applicant Name:	East Ohio Gas Company	**5. Type of JD Letter:**	PRELIMINARY
2. Project Name:	Guernsey to Lewis Natural Gas Pipeline	**6. Ohio EPA ID#:**	
3. Jurisdictional Determination Letter Dated:		**7. Total Project Acreage**	87.27 acres
4. 12-Digit Hydrologic Unit Code:	050400011602	**8. Watershed Name:**	Tuscarawas-Lower Stillwater Creek-Crooked Creek
		9. Revision Number:	1
		10. Revision Date:	May 2, 2012

Stream ID	Jurisdictional?	Stream Flow Type	Use Designations			Antidegradation Category	Stream Assessment					Total Length Delineated (lf)	Proposed Impacts			
													Preferred Alternative		Minimal Degradation Alternative	
			Aquatic Life Habitat	Water Supply	Recreation		Type	Score	Additional Assessment?	Type	Score		Impacts (lf)	Impact Type	Impacts (lf)	Impact Type
Stream 1	Yes	P	UD	UD	UD	General High Quality Waters	HHEI	56	NO	Select Type		106	4	Utility Line Crossing	4	Utility Line Crossing
Stream 2	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	19	NO	Select Type		98	2	Utility Line Crossing	2	Utility Line Crossing
Stream 3	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	29	NO	Select Type		30	2	Utility Line Crossing	2	Utility Line Crossing
Stream 4	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	26	NO	Select Type		95	2	Utility Line Crossing	2	Utility Line Crossing
Stream 5	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	16	NO	Select Type		67		Other/ Not Specified		Other/ Not Specified
Stream 6	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	36	NO	Select Type		93	3	Utility Line Crossing	3	Utility Line Crossing
Stream 7	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	50	NO	Select Type		165	1	Utility Line Crossing	1	Utility Line Crossing
Stream 8	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	38	NO	Select Type		91	3	Utility Line Crossing	3	Utility Line Crossing
Stream 9	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	39	NO	Select Type		93	1	Utility Line Crossing	1	Utility Line Crossing
Stream 10	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	40	NO	Select Type		117	1	Utility Line Crossing	1	Utility Line Crossing
Stream 11	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	51	NO	Select Type		84	4	Utility Line Crossing	4	Utility Line Crossing
Stream 12	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	42	NO	Select Type		111	3	Utility Line Crossing	3	Utility Line Crossing
Stream 13	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	50	NO	Select Type		115	2	Utility Line Crossing	2	Utility Line Crossing
Stream 14	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	38	NO	Select Type		140	1	Utility Line Crossing	1	Utility Line Crossing
Watson Creek	Yes	P	MWH	AWS, IWS	PCR	General High Quality Waters	QHEI	46	NO	Select Type		111	8	Utility Line Crossing	8	Utility Line Crossing
Stream 15	Yes	P	UD	UD	UD	General High Quality Waters	HHEI	64	NO	Select Type		151	6	Utility Line Crossing	6	Utility Line Crossing
Stream 16	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	38	NO	Select Type		132	2	Utility Line Crossing	2	Utility Line Crossing
Stream 17	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	50	NO	Select Type		96	3	Utility Line Crossing	3	Utility Line Crossing
Stream 18	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	28	NO	Select Type		37	2	Utility Line Crossing	2	Utility Line Crossing
Crooked Creek	Yes	P	MWH	AWS, IWS	PCR	General High Quality Waters	QHEI	41	NO	Select Type		140	6	Utility Line Crossing	6	Utility Line Crossing
Stream 19	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	41	NO	Select Type		105	4	Utility Line Crossing	4	Utility Line Crossing
Stream 20	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	11	NO	Select Type		15		Other/ Not Specified		Other/ Not Specified
Stream 21	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	13	NO	Select Type		146	2	Utility Line Crossing	2	Utility Line Crossing
Stream 22	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	46	NO	Select Type		93	3	Utility Line Crossing	3	Utility Line Crossing
Stream 23	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	25	NO	Select Type		93	2	Utility Line Crossing	2	Utility Line Crossing
Stream 24	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	26	NO	Select Type		31	1	Utility Line Crossing	1	Utility Line Crossing
Stream 25	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	36	NO	Select Type		119	3	Utility Line Crossing	3	Utility Line Crossing
Stream 26	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	51	NO	Select Type		88	3	Utility Line Crossing	3	Utility Line Crossing
Stream 27	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	51	NO	Select Type		69	3	Utility Line Crossing	3	Utility Line Crossing
Stream 28 (3 crossings)	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	34	NO	Select Type		559	5	Utility Line Crossing	5	Utility Line Crossing
Stream 29	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	24	NO	Select Type		21		Other/ Not Specified		Other/ Not Specified
Stillwater Creek (1st crossing)	Yes	P	WWH	AWS, IWS	PCR	General High Quality Waters	QHEI	57	NO	Select Type		121	89	Utility Line Crossing	89	Utility Line Crossing
Stream 30	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	23	NO	Select Type		70	3	Utility Line Crossing	3	Utility Line Crossing
Stream 31	Yes	P	MWH	UD	UD	General High Quality Waters	QHEI	41	NO	Select Type		145	3	Utility Line Crossing	3	Utility Line Crossing
Stream 32	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	35	NO	Select Type		19		Other/ Not Specified		Other/ Not Specified
Stream 33	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	12	NO	Select Type		10		Other/ Not Specified		Other/ Not Specified
Stream 34	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	28	NO	Select Type		44		Other/ Not Specified		Other/ Not Specified
Stream 35	Yes	I	UD	UD	UD	General High Quality Waters	HHEI	45	NO	Select Type		107	3	Utility Line Crossing	3	Utility Line Crossing
Stream 36	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	13	NO	Select Type		78	2	Utility Line Crossing	2	Utility Line Crossing
Stillwater Creek (2ndcrossing)	Yes	P	WWH	AWS, IWS	PCR	General High Quality Waters	QHEI	57	NO	Select Type		94	79	Utility Line Crossing	79	Utility Line Crossing
Stillwater Creek (3rd crossing)	Yes	P	WWH	AWS, IWS	PCR	General High Quality Waters	QHEI	57	NO	Select Type		91	89	Utility Line Crossing	89	Utility Line Crossing
Stream 37	Yes	E	UD	UD	UD	General High Quality Waters	HHEI	18	NO	Select Type		97	1	Utility Line Crossing	1	Utility Line Crossing
						Totals						**4287**	**351**		**351**	
						Ephemeral						**1207**	**0**	**16**	**0**	**16**	**0**
						Intermittent						**2121**	**0**	**51**	**0**	**51**	**0**
						Perennial						**959**	**0**	**284**	**0**	**284**	**0**
						Jurisdictional/Non-Jurisdictional						**Jurs**	**Non-Jurs**	**Jurs**	**Non-Jurs**	**Jurs**	**Non-Jurs**
												4287	**0**	**351**	**0**	**351**	**0**

Stream Impact Table

Application for a Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

Section 3: Project Information

3.5 Wetland Resources and Impact Comparison Table

1. Applicant Name:	East Ohio Gas Company	**5. Date:**	May 2, 2012	**9. Revision Number:**	
2. Project Name:	Guernsey to Lewis Natural Gas Pipeline	**6. Ohio EPA ID#:**		**10. Revision Date:**	
3. Jurisdictional Determination Letter Dated:	April 18, 2012	**7. Total Project Acreage:**	87.27 acres		
4. 12-Digit Hydrologic Unit Code:	050400011602	**8. Watershed Name:**	Tuscarawas-Lower Stillwater Creek-Crooked Creek		

Wetland ID	Jurisdictional	Forested	Wetland Assessment						Total Acreage Delineated	Proposed Impacts			
										Preferred Alternative		Minimal Degradation Alternative	
			ORAM Score	Category	Additional Assessment? (approval required)	Assessment Type	Score	Category		Impacts* (Acres)	Impact Type	Impacts* (Acres)	Impact Type
Wetland 1	Yes	No	21.00	1	NO	Select Type			0.081	0.08	Utility Line Crossing	0.08	Utility Line Crossing
Wetland 2	Yes	No	25.00	1	NO	Select Type			0.018	0.01	Utility Line Crossing	0.01	Utility Line Crossing
Wetland 3	Yes	No	20.00	1	NO	Select Type			0.022	0.01	Not Specified/Other	0.01	Not Specified/Other
Wetland 4	Yes	No	35.00	2	NO	Select Type			0.012	0.01	Not Specified/Other	0.01	Not Specified/Other
Wetland 5	Yes	No	31.50	2	NO	Select Type			0.014	0.00	Not Specified/Other	0.00	Not Specified/Other
Wetland 6	Yes	No	27.50	1	NO	Select Type			0.019	0.01	Not Specified/Other	0.01	Not Specified/Other
Wetland 7	Yes	No	31.50	2	NO	Select Type			0.121	0.08	Utility Line Crossing	0.07	Utility Line Crossing
Wetland 8	Yes	No	33.50	2	NO	Select Type			0.226	0.20	Utility Line Crossing	0.15	Utility Line Crossing
Wetland 9	Yes	No	21.50	1	NO	Select Type			0.015	0.01	Not Specified/Other	0.01	Not Specified/Other
Wetland 10	Yes	No	53.00	2	NO	Select Type			0.050	0.05	Utility Line Crossing	0.05	Utility Line Crossing
Wetland 11a	Yes	No	55.00	2	NO	Select Type			0.228	0.10	Utility Line Crossing	0.05	Utility Line Crossing
Wetland 11b	Yes	Yes	55.00	2	NO	Select Type			0.156	0.16	Utility Line Crossing	0.16	Utility Line Crossing
Wetland 12	Yes	No	21.00	1	NO	Select Type			0.023	0.02	Utility Line Crossing	0.02	Utility Line Crossing
Wetland 13	Yes	No	30.00	2	NO	Select Type			0.017	0.01	Not Specified/Other	0.00	Not Specified/Other
Wetland 14	Yes	No	30.00	2	NO	Select Type			0.019	0.02	Not Specified/Other	0.01	Not Specified/Other
Wetland 15	Yes	No	31.00	2	NO	Select Type			0.026	0.03	Utility Line Crossing	0.03	Utility Line Crossing
Wetland 16	Yes	No	31.50	2	NO	Select Type			0.192	0.19	Utility Line Crossing	0.16	Utility Line Crossing
Wetland 17	Yes	No	31.00	2	NO	Select Type			0.144	0.08	Utility Line Crossing	0.07	Utility Line Crossing
Wetland 18	Yes	No	33.00	2	NO	Select Type			0.039	0.02	Not Specified/Other	0.01	Not Specified/Other
Wetland 19	Yes	No	17.50	1	NO	Select Type			0.016	0.01	Not Specified/Other	0.01	Not Specified/Other
Wetland 20	Yes	No	43.50	2	NO	Select Type			0.339	0.23	Utility Line Crossing	0.18	Utility Line Crossing
Wetland 21	Yes	No	24.00	1	NO	Select Type			0.161	0.09	Utility Line Crossing	0.07	Utility Line Crossing
Wetland 22	Yes	No	48.00	2	NO	Select Type			0.168	0.07	Utility Line Crossing	0.06	Utility Line Crossing
Wetland 23	Yes	No	28.00	1	NO	Select Type			0.018	0.01	Not Specified/Other	0.01	Not Specified/Other
Wetland 24	Yes	No	28.00	1	NO	Select Type			0.006	0.01	Not Specified/Other	0.01	Not Specified/Other
Wetland 25	Yes	No	38.50	2	NO	Select Type			0.072	0.06	Utility Line Crossing	0.05	Utility Line Crossing
Wetland 26	Yes	No	37.50	2	NO	Select Type			0.190	0.01	Not Specified/Other	0.00	Not Specified/Other
Wetland 27	Yes	No	25.50	1	NO	Select Type			0.028	0.01	Utility Line Crossing	0.01	Utility Line Crossing
Wetland 28	Yes	No	20.50	1	NO	Select Type			0.042	0.03	Utility Line Crossing	0.02	Utility Line Crossing
Wetland 29	Yes	No	17.00	1	NO	Select Type			0.088	0.06	Utility Line Crossing	0.04	Utility Line Crossing
Wetland 30	Yes	No	33.00	2	NO	Select Type			0.084	0.08	Utility Line Crossing	0.08	Utility Line Crossing
Wetland 31	Yes	No	29.00	1	NO	Select Type			0.335	0.21	Utility Line Crossing	0.17	Utility Line Crossing
Wetland 32	Yes	No	14.00	1	NO	Select Type			0.003	0.00	Not Specified/Other	0.00	Not Specified/Other
Wetland 33	Yes	No	46.50	2	NO	Select Type			0.072	0.05	Utility Line Crossing	0.05	Utility Line Crossing
Wetland 34a	Yes	No	39.50	2	NO	Select Type			0.097	0.02	Not Specified/Other	0.01	Not Specified/Other
Wetland 34b	Yes	Yes	39.50	2	NO	Select Type			0.108	0.01	Not Specified/Other	0.00	Not Specified/Other
Wetland 35	Yes	No	23.00	1	NO	Select Type			0.016	0.00	Not Specified/Other	0.00	Not Specified/Other
Wetland 36	Yes	No	22.00	1	NO	Select Type			0.033	0.03	Utility Line Crossing	0.03	Utility Line Crossing
Wetland 37	Yes	No	26.00	1	NO	Select Type			0.060	0.06	Utility Line Crossing	0.05	Utility Line Crossing
Wetland 38a	Yes	No	59.00	2	NO	Select Type			0.346	0.30	Utility Line Crossing	0.24	Utility Line Crossing
Wetland 38b	Yes	Yes	59.00	2	NO	Select Type			0.213	0.09	Utility Line Crossing	0.09	Utility Line Crossing
Wetland 39	Yes	No	43.00	2	NO	Select Type			0.201	0.18	Utility Line Crossing	0.17	Utility Line Crossing
Wetland 40	Yes	Yes	41.50	2	NO	Select Type			0.042	0.00	Not Specified/Other	0.00	Not Specified/Other
Wetland 41	Yes	Yes	51.00	2	NO	Select Type			0.024	0.02	Not Specified/Other	0.02	Not Specified/Other
Wetland 42	Yes	No	40.00	2	NO	Select Type			0.055	0.05	Utility Line Crossing	0.04	Utility Line Crossing
Wetland 43a	Yes	No	54.00	2	NO	Select Type			0.748	0.36	Utility Line Crossing	0.23	Utility Line Crossing
Wetland 43b	Yes	Yes	54.00	2	NO	Select Type			0.242	0.24	Utility Line Crossing	0.24	Utility Line Crossing
Wetland 44	Yes	No	28.00	1	NO	Select Type			0.012	0.00	Not Specified/Other	0.00	Not Specified/Other
						Total Acreage Delineated:			**5.24**		**3.35**		**2.79**
						Acreage Totals for Category 1 Wetlands Jurisdictional/Isolated:	**1.00**	0.00		**0.66**	0.00	**0.56**	0.00
						Acreage Totals for Category 2 Wetlands Jurisdictional/Isolated:	**4.25**	0.00		**2.69**	0.00	**2.23**	0.00
						Acreage Totals for Category 3 Wetlands Jurisdictional/Isolated:	**0.00**	0.00		**0.00**	0.00	**0.00**	0.00
						Wetland Acreage Totals for Jurisdictional/Isolated:	**5.24**	**0.00**		**3.35**	**0.00**	**2.79**	**0.00**

* Isolated wetland permitting requirements do not apply to isolated wetlands created by previous coal mining activities where remining is proposed.

Application for a Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

Section 3: Alternatives Analysis

3.7 Social and Economic Justification

1. County Unemployment Rate:	Tuscarawas: 8.7% - Harrison: 10.1% From January 2012	**2. County Median Household Income:**	Tuscarawas: $42,081 - Harrison: $35,363
3. County Poverty Rate:	Tuscarawas: 12.8% - Harrison: 18.4%	**4. County Population Growth:**	Tuscarawas: 1.8% - Harrison: 0.1%

	PREFERRED ALTERNATIVE	MINIMAL DEGRADATION ALTERNATIVE	NON-DEGRADATION ALTERNATIVE
Important Social and Economic Benefits to be Gained			
5. No. of New Direct Jobs - Permanent	0	0	0
1. Payroll Dollars/year	0	0	0
2. Payroll Taxes/year	0	0	0
6. Number of New Temporary Direct Jobs	145	140	100
1. Payroll Dollars/year	27,000,000	24,000,000	16,000,000
2. Payroll Taxes/year	9,600,000	9,300,000	6,700,000
7. Number of New Permanent Indirect Jobs	0	0	0
8. Other Tax Dollars	0	0	0
9. Revenue Generated	Unknown	Unknown	Unknown
10. Local Property Taxes Generated	638,000	638,000	638,000
11. Land Donated to Community (acres)	15	15	0
12. Royalties to ODNR for oil, gas, or coal projects	0	0	0
Important Social and Economic Benefits to be Lost			
13. Environmental	No permanent impacts to water resources will occur with this alternative. 0.520 acres of forested water resources will be converted to non-forested habitat.	No permanent impacts to water resources will occur with this alternative. 0.510 acres of forested water resources will be converted to non-forested habitat.	Because no impacts to water resources are proposed with this alternative, the only environmental effect of this alternative will be the loss of forested habitat along the edges of the corridor.
14. Social	Currently, the area is used for hunting, both private and public with a hunting preserve crossing into the project area, west of Feed Springs Road. During construction, hunting activities within the project corridor will be restricted. The loss of this land use will be temporary and will be fully restored following completion of the project. Portions of the project area are used for agriculture, including row crops and pasture lands. During construction, there will be a temporary loss of this land use but all agricultural land usage will be restored following the completion of the project. To ensure that the construction activities do not result in a permanent impact to agricultural fields, segregation of topsoil from the subsoil will be implemented in these areas. To ensure no loss of cultural resources would occur with this pipeline project, an Ohio Historical Preservation Office desktop review was conducted of the project area. It was found that the project area overlaps with two Phase 1 historical survey areas, but that no significant historic information was gathered from these surveys. No other historic structures or areas are within or near the project area. Further, the project area is located entirely within an existing, previously disturbed ROW. The degree of disturbance and the absence of significant historic features indicates that this project does not have the potential to contain intact archaeological resources eligible for listing in the National Register of Historic Places. Any loss of social factors that may occur with this project will be temporary and will be fully restored following completion of the project.	See the Preferred Alternative for discussion of potential social impacts.	See the Preferred Alternative for discussion of potential social impacts.
15. Recreational	None of the project area is designated as recreational land use. Three of the on-site streams, Stillwater Creek, Watson Creek, and Crooked Creek are designated as Primary Contact Recreation streams. Recreational access to these streams will be restricted while construction activities occur in these waters. No permanent loss of recreational opportunities along these streams is anticipated as a result of this project.	As in the preferred alternative, recreational access to Primary Contact Recreation will be restricted while construction activities occur in these streams. No permanent loss of recreational opportunities along these streams is anticipated as a result of this project.	No recreational benefits will be lost as none of the project area is designated as recreational land use and none of the recreational streams will be impacted.
16. Other (Specify)			

Application for an Ohio EPA Section 401 Water Quality Certification and/or State Isolated Wetlands Permit

Section 4: Mitigation

4.1 Mitigation Overview

1. Where is mitigation being proposed? (select all that apply)	OFF-SITE
2. Briefly describe mitigation for Preferred Alternative:	At minimum, 351 linear feet of the mainstem of Chippewa Creek, tributary to the Tuscarawas River, will be preserved and 6.561 acres of Category 3 wetland, in association with Chippewa Creek, will be preserved within a 15.1 acre parcel located in Wayne County. At minimum, 1.560 acres of this preserved wetland will be forested. (See the Mitigation Maps in Attachment 5.12.2.)
3. Briefly describe mitigation for Minimal Degradation Alternative:	At minimum, 351 linear feet of Chippewa Creek, tributary to the Tuscarawas River, will be preserved and 5.524 acres of Category 3 wetland, in association with Chippewa Creek, will be preserved at a 15.1 acre parcel located in Wayne County. At minimum, 1.532 acres of this preserved wetland will be forested. (See the Mitigation Maps in Attachment 5.12.2.)

4.2 Stream Mitigation Calculations

1. PREFERRED Alternative: In the space below, please enter the amount (in linear feet) of required mitigation as determined for the preferred alternative.

Habitat Type	Restoration		Relocation		Enhancement		Preservation		Buffer		Mitigation Bank
	On	Off	On	Off	On	Off	On	Off	On	Off	Off
Warmwater								257			
Modified Warmwater								17			
PHWH, Class II								58			
PHWH, Class I								19			
Totals:	0	0	0	0	0	0	0	351	0	0	0

2. MINIMAL DEGRADATION Alternative : In the space below, please enter the amount (in linear feet) of required mitigation as determined for the minimal degradation alternative.

Habitat Type	Restoration		Relocation		Enhancement		Preservation		Buffer		Mitigation Bank
	On	Off	On	Off	On	Off	On	Off	On	Off	Off
Warmwater								257			
Modified Warmwater								17			
PHWH, Class II								58			
PHWH, Class I								19			
Totals:	0	0	0	0	0	0	0	351	0	0	0

4.3 Wetland Mitigation Calculations

1. PREFERRED Alternative: In the space below, please enter the amount (in acres) of required mitigation as determined for the preferred alternative.

Habitat Type	Restoration		Creation		Enhancement		Preservation		Buffer		Mitigation Bank
	On	Off	On	Off	On	Off	On	Off	On	Off	Off
Category 2, Non-Forested											
Category 2, Forested											
Category 3, Non-Forested								5.00			
Category 3, Forested								1.56			
Totals:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	0.00	0.00
Mitigation Target Totals:	0.00		0.00		0.00		6.56		0.00		0.00

2. MINIMAL DEGRADATION Alternative: In the space below, please enter the amount (in acres) of required mitigation as determined for the minimal degradation alternative.

Habitat Type	Restoration		Creation		Enhancement		Preservation		Buffer		Mitigation Bank
	On	Off	On	Off	On	Off	On	Off	On	Off	Off
Category 2, Non-Forested											
Category 2, Forested											
Category 3, Non-Forested								3.98			
Category 3, Forested								1.53			
Totals:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.51	0.00	0.00	0.00
Mitigation Target Totals:	0.00		0.00		0.00		5.51		0.00		0.00

4.4 Other Water Body Mitigation Calculations

1. PREFERRED Alternative - In the space below, please enter the amount (in linear feet of shoreline or total square feet of lake bottom or lakeward extent) of required mitigation as determined for the preferred alternative.

Habitat Type	Restoration		Creation		Enhancement		Preservation		Buffer		Mitigation Bank
	On	Off	On	Off	On	Off	On	Off	On	Off	Off
Shoreline											
Lake Bottom											
Lakeward Extent											
Totals:	0	0	0	0	0	0	0	0	0	0	0

2. MINIMAL DEGRADATION Alternative - In the space below, please enter the amount (in linear feet of shoreline or total square feet of lake bottom or lakeward extent) of required mitigation as determined for the minimal degradation alternative.

Habitat Type	Restoration		Creation		Enhancement		Preservation		Buffer		Mitigation Bank
	On	Off	On	Off	On	Off	On	Off	On	Off	Off
Shoreline											
Lake Bottom											
Lakeward Extent											
Totals:	0	0	0	0	0	0	0	0	0	0	0

4.5 On-site Permittee-Responsible Mitigation Project: Follow the instruction manual for each type of mitigation proposed (wetland, stream, other water body)

1. Does the applicant currently own the proposed mitigation site property? If no, please provide information on any purchase agreements, options, etc., that verify the applicant's right to construct on the mitigation property.	SELECT
2. Explain on-site Mitigation Site Setting:	
3. Explain on-site Mitigation Site Activites (If proposing that project is self-mitigating, provide justification):	

4.6 Off-site Permittee-Responsible Mitigation Project: Follow the instruction manual for each type of mitigation proposed (wetland, stream, other water body)

1. Does the applicant currently own the proposed mitigation site property? If no, please provide information on any purchase agreements, options, etc., that verify the applicant's right to construct on the mitigation property.	NO The applicant will provide funds to Metro Parks, Serving Summit County for the purchase of the proposed mitigation property.
2. Explain off-site Mitigation Site Setting:	The mitigation property is bounded on the north by the railroad and on the east by SR 21, and is located north of Warwick Road (Co Hwy 116) in Chippewa Township, within Wayne County. (See the Highway Map in Attachment 5.12.2.) The site contains a large wetland complex associated with the mainstem branch of Chippewa Creek. The habitat types within the wetland complex include aquatic bed, emergent, shrub, forest, and open water. The total size of the preservation property is 114.7 acres. This property includes approximately 100 acres of Category 3 wetland and 2,750 linear feet of Chippewa Creek. For this pipeline project, it is proposed to preserve one parcel of the preservation property, as indicated on the Mitigation Maps in Attachment 5.12.2. This parcel is 15.1 acres in size. At minimum, 5.512 acres of Category 3 wetland (of which 1.532 acres will be forested) and 351 feet of Chippewa Creek will be preserved on this parcel. The remainder of the preservation property will be used for future projects. The National Wetlands Inventory (NWI) wetlands mapped within the proposed 15.1 acre mitigation parcel include Palustrine, Emergent, Semipermanently Flooded wetland (PEMF) and Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded wetland (R2UPH). (See the NWI map in Attachment 5.12.2.) The soils underlying the proposed mitigation parcel are Melvin silt loam, frequently flooded (Md) soil series which is listed as hydric. (See the Soils Map in Attachment 5.12.2.) The wetlands on this property were assessed by Metro Parks biologists and received a score of 85 using the ORAM method, placing the wetlands within Category 3 range.(See the ORAM form in Attachment 5.12.2.) In addition, Sandhill cranes (Grus canadensis), a state endangered bird, were observed using the wetlands as a migratory corridor and resting area.
3. Explain off-site Mitigation Site Activities:	The property will be preserved in perpetuity.

4.7 Protection in Perpetuity

Indicate the legal mechanism that will be used to protect the proposed mitigation property in perpetuity:

FALSE	Wetland Mitigation Bank - Bank provides the protection in perpetuity		
FALSE	Environmental Covenant with Third Party Holder	Covenant Holder:	
TRUE	Conservation Easement	Easement Holder:	Friends of Metro Parks, a 501c3 conservation organization.
FALSE	Environmental Covenant WITHOUT Third Party Holder		
FALSE	Deed Restriction with Management Plan - * (NOTE: This may ONLY be used in specific circumstances)		

4.8 Proposed Project Site Constraints

If you are proposing to place a conservation easement or environmental covenant on the property to protect mitigation, include the following in Attachment: (1) A draft copy of the proposed easement/convenant language, and (2) A topographic map or aerial photograph clearly showing the boudaries of the proposed mitigation and easement or covenant area(s).

Easement or EncumbranceType	Date Recorded	Term - temporary or permanent (if temp., expiration date)	Holder/Owner	Contact Information
Conservation Easement	*8/10/2000*	*Permanent*	*XYZ Metro Parks*	*Address/telephone number/email*
Conservation Easement	Pending	Permanent	Friends of Metro Parks/Metro Parks, Serving Summit County. A	975 Treaty Line Rd Akron, OH 44313-5898 330-865-1027 info@friendsofmetroparks.org

4.9 Mitigation Bank Information:	
1. Have you contacted mitigation banks to identify whether required type and amount of mitigation credit is available?	YES
1. If Yes provide names of banks contacted here:	
2. If No, explain why:	
2. Chosen Mitigation Bank Name:	
1. Is the required type and amount of mitigation credit available? If yes, attach documentation of your communication with the bank.	NO
2. If only a portion of the required type and amount of mitigation credit is available, specify the amount available:	
3. Has the required type and amount of mitigation been reserved? If yes, attach documentation of your reservation.	SELECT
4. If only a portion of the required type and amount of mitigation credit has been reserved, specify the amount reserved:	
5. Number of Forested Credits to be Purchased:	
1. What is the type of mitigation credit?	SELECT
2. Is the mitigated wetland isolated or non-isolated?	Non-Isolated
6. Number of Non-Forested Credits to be Purchased	
1. What is the type of wetland mitigation credit?	SELECT
2. Is the mitigated wetland isolated or non-isolated?	Non-Isolated
7. Bank's Hydrologic Unit Code (HUC) 8 Digit:	SELECT
8. Is your project located within the service area of the bank?	SELECT
9. Is more than one mitigation bank being proposed?	SELECT
Only fill in the information below if more than one mitigation bank is being proposed to be used to fulfill the mitigation requirements.	
3. Chosen Mitigation Bank Name:	
1. Is the required type and amount of mitigation credit available? If yes, attach documentation of your communication with the bank.	SELECT
2. If only a portion of the required type and amount of mitigation credit is available, specify the amount available:	
3. Has the required type and amount of mitigation been reserved? If yes, attach documentation of your reservation.	SELECT
4. If only a portion of the required type and amount of mitigation credit has been reserved, specify the amount reserved:	
5. Number of Forested Credits to be Purchased:	
1. What is the type of mitigation credit?	SELECT
2. Is the mitigated wetland isolated or non-isolated?	SELECT
6. Number of Non-Forested Credits to be Purchased	
1. What is the type of mitigation credit?	SELECT
2. Is the mitigated wetland isolated or non-isolated?	SELECT
7. Bank's Hydrologic Unit Code (HUC) 8 Digit:	SELECT
8. Is your project located within the service area of the bank?	SELECT

4.10 Final Mitigation Plan Format
The mitigation plan must act as a stand-alone document.