COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

EROSION AND SEDIMENT CONTROL PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES APPLICATION CHECKLIST [1]

Applicant Name:	National Fuel Gas Supply Corporation
Project Site Name:	Tioga Pathway Project
Application Type:	☒ New ☐ Renewal ☐ Major Amendment ☐ Minor Amendment

Check the box provided for all items completed and/or provided. Failure to provide all required information will delay the processing of the application. ENCLOSE THIS CHECKLIST WITH YOUR COMPLETED APPLICATION.

	APPLICATION REQUIREMENTS	Check ✓ If Included	Check ✓ If Not Applicable
1.	One original and one copy of the complete Application form (3800-PM-BCW0019b)	☒	
2.	One original and one copy of the complete General Information Form (GIF) (0210-PM-PIO0001) [2]	☒	☐
3.	Administrative Filing Fee ($1,500 plus any additional CCD-specific fees, if applicable)	☒	☐
4.	One copy of the completed Application form and one copy of the GIF to DEP (if CCD is the initial recipient) [2]	☐	☒
5.	Disturbed Acreage Fee ($100 x disturbed acres)	☒	☐
6.	Two copies of the County Notification Form (3800-FM-BCW0271b) [3]	☒	☐
7.	Two copies of the Municipal Notification Form (3800-FM-BCW0271c) [3]	☒	☐
8.	Two copies of the proof of county and municipal receipt of Notification Forms (required if Notification Forms are not signed by county and/or municipality) [3]	☒	☐
9.	One original and one copy of the PNDI Receipt [4]	☒	☐
10.	Two copies of the PNDI clearance letter(s) from jurisdictional agencies [4]	☒	☐
11.	Two copies of the PHMC clearance letter(s)	☒	☐
12.	One original and two copies of E&S Module 1 (3800-PM-BCW0406a)	☒	☐
13.	Three copies of the E&S Plan Drawings [5]	☒	☐
14.	Three copies of the E&S Standard Worksheets (or equivalent) and supporting calculations	☐	☒
15.	One original and two copies of PCSM Module 2 (3800-PM-BCW0406b)	☒	☐
16.	Three copies of the PCSM Plan Drawings [5]	☒	☐
17.	Three copies of the PCSM Supporting Calculations – BMP Design	☒	☐
18.	Three copies of the PCSM Supporting Calculations – Stormwater Analysis (required where DEP PCSM Spreadsheet not used)	☒	☐
19.	Three copies of the DEP PCSM Spreadsheet – Volume Worksheet (optional)	☐	☒
20.	Three copies of the DEP PCSM Spreadsheet – Rate Worksheet (optional)	☐	☒
21.	Three copies of the DEP PCSM Spreadsheet – Quality Worksheet	☐	☒
22.	Two copies of the soil/geologic test results (where BMPs relying on infiltration will be installed)	☒	☐
23.	One original and two copies of Antidegradation Analysis Module 3 (3800-PM-BCW0406c) (and required attachments)	☐	☒
24.	One original and two copies of Riparian Buffer Module 4 (3800-PM-BCW0406d) (and required attachments)	☐	☒
25.	Other: Aquatic Resources Report	☒	

1 The table below identifies the items in an application package (corresponding to the item numbers in the checklist) that must be submitted to a delegated county conservation district (CCD) or to the appropriate DEP regional office, based on application type.

Application Type	Where CCD is the initial recipient [6]		Where DEP is the recipient [6]
	Submit to CCD:	***Submit to DEP:***	***Submit to DEP:***
New	Items 1-3 and 5-25 (as applicable).	Item 4.	Items 1, 2, 3 ($1,500 only), and 5-25 (as applicable).
Renewal [7]	Items 1-3 and a letter indicating that the previously approved E&S and PCSM Plans have not been revised and explaining what work has been completed and what work remains on the project site.		Items 1-3 and a letter indicating that the previously approved E&S and PCSM Plans have not been revised and explaining what work has been completed and what work remains on the project site.
Major Amendment [7]	Items 1-3, 5-11 (only for new earth disturbance), 12-14 (where applicable, only for revisions to the E&S Plan), 15-22 (where applicable, only for revisions to the PCSM Plan), and 23-24 (only where applicable). New or updated information must be bold/highlighted.		Items 1-3, 5-11 (only for new earth disturbance), 12-14 (where applicable, only for revisions to the E&S Plan), 15-22 (where applicable, only for revisions to the PCSM Plan), and 23-24 (only where applicable). New or updated information must be bold/highlighted.
Minor Amendment [7]	Items 1, 2, 5-11 (only for new earth disturbance), 12-14 (where applicable, only for revisions to the E&S Plan), 15-22 (where applicable, only for revisions to the PCSM Plan), and 23-24 (only where applicable). New or updated information must be bold/highlighted.		Items 1, 2, 5-11 (only for new earth disturbance), 12-14 (where applicable, only for revisions to the E&S Plan), 15-22 (where applicable, only for revisions to the PCSM Plan), and 23-24 (only where applicable). New or updated information must be bold/highlighted.

2 Where there is a co-applicant(s), additional Client Information and Certification sections of the GIF should be completed for each co-applicant.

3 Applicants may submit the completed County and Municipal Notification Forms with the application or, if the county and/or municipality has not returned the completed form to the applicant 30 days following receipt by the county and municipality, the applicant may submit copies of the forms submitted to the county/municipality along with proof that the county/municipality received the form(s). County and Municipal Notification Forms are not required for renewal applications and are required for major and minor amendment applications only if new earth disturbance is proposed.

4 All applicants for new permits must attach a PNDI receipt. If the PNDI receipt indicates a Potential Impact, the applicant may submit clearance letters from jurisdictional agencies with the application or, if the clearance letters have not been received by the time of application submission, the applicant may submit clearance letters during the application review period. DEP/CCD will not issue a permit prior to the receipt of such letters, if applicable. PNDI receipts are not required for renewal applications and are required for major and minor amendment applications only if new earth disturbance is proposed.

5 E&S and/or PCSM Plan Drawings must present project site and limit of disturbance boundaries, topography, surface waters (including wetlands), discharge points, BMPs, off-site support activities (if applicable), and all other features required by the application.

6 For projects located solely in Beaver, Forest, and Philadelphia counties, the DEP Regional Office is the recipient. For projects that span two (2) counties, the county with the greatest amount of earth disturbance will be the recipient (unless that county is Beaver, Forest, or Philadelphia, in which the DEP Regional Office will be the recipient). For projects that span three (3) or more counties within one (1) DEP Region, the DEP Regional Office is the recipient. For projects that span three (3) or more counties within two (2) or more DEP Regions, the DEP Regional Permit Coordination Office (RPCO) is the recipient. For projects that span two (2) or more counties, additional copies of the Items may be required. Additionally, where certain types of PCSM BMPs, including floodplain restoration and gravity stormwater wells (i.e., Class V Injection Wells), are proposed, DEP RPCO will take responsibility for the review.

7 Renewal applications must use form 3800-PM-BCW0019b (the General Information, Compliance History, and Certification for Permit Applicants must be completed at a minimum). For major and minor amendment applications, previously submitted forms and attachments may be used, with updated information, and submitted if the original application was not submitted using form 3800-PM-BCW0019b. If form 3800-PM-BCW0019b is used for a major amendment, the form must be completed in its entirety. If form 3800-PM-BCW0019b is used for a minor amendment, the General Information, Compliance History, and Certification for Permit Applicants must be completed at a minimum). For Renewal and amendment applications, only the Client Information and Certification sections of the GIF are required to be completed.

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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EROSION AND SEDIMENT CONTROL PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES APPLICATION

Before completing this form, read the step-by-step instructions provided in the individual permit package.

DEP / CCD USE ONLY

Date Received: _____ Permit ID: _____

☐ Application Complete Date of: ☐ Return ☐ Withdrawal ☐ Denial

Date Determined Complete: _____ _____

Issuance Date: _____ Date Resubmission Received: _____

Effective Date: _____ Expiration Date: _____

GENERAL INFORMATION

1. Applicant Name(s): **National Fuel Gas Supply Corporation**

2. Appl. Type: ☒ New ☐ Renewal ☐ Major Amendment ☐ Minor Amendment Permit No. PA_____

3. Project Description: Replacement of approx. 3.84 miles of existing 12" pipeline with new 20" pipeline in Potter County; and, installation of approx. 19.48 miles of new 20" pipeline in Potter and Tioga counties. Additionally, construction of temporary and permanent support facilities.
See E&S Plan Section 1.2 Project Description for additional detail.

4. Project Activity: ☐ Road Maintenance ☐ Timber Harvesting ☒ Oil and Gas ☐ Other:

5. ☐ Site Restoration Project 6. ☐ Discharges to Special Protection Waters (Module 3 Attached)

7. ☐ Project Site Within 150 Feet of Special Protection Waters (Module 4 Attached)

8. ☐ Phased Project No. phases: No. phases complete:

PROJECT SITE INFORMATION

1. Project Site Name: Tioga Pathway Project

2. Total Project Site Area: 359.3 acres

3. Project Site Impervious Area – Pre-Construction: 0.00 acres Percent of Total: 0.00 %

4. Project Site Impervious Area – Post-Construction: 0.89 acres Percent of Total: 0.25 %

5. Hydric soils or other wetland features are present within the Project Site. ☒ Yes ☐ No
☒ If Yes, the wetland determination is attached to the application.

6. County Name	Municipality Name	City	Boro	Twp	State
Tioga	Brookfield, Chatham, Deerfield, Middlebury, Westfield	☐	☐	☒	PA

7. County Name	Municipality Name	City	Boro	Twp	State
Potter /McKean	Alleghany, Harrison / Liberty	☐	☐	☒	PA

8. Site Location Address
Project crosses State Route 49 near Westfield, PA

9. Site Location City	State	ZIP+4
Westfield	PA	16950

OPERATOR INFORMATION

1. Operator Name: To be determined
2. Contact Name: -
3. Operator Address: -
4. Operator Phone: -
5. Operator City, State, ZIP: -
6. Operator's Role in Project: ☐ General Contractor ☐ Consultant ☐ Excavation Contractor ☐ Other
7. Operator's Responsibilities: -

1. Operator Name: -
2. Contact Name: -
3. Operator Address: -
4. Operator Phone: -
5. Operator City, State, ZIP: -
6. Operator's Role in Project: ☐ General Contractor ☐ Consultant ☐ Excavation Contractor ☐ Other
7. Operator's Responsibilities: -

EARTH DISTURBANCE INFORMATION

1. Total Earth Disturbance Area 359.3 acres 15651108 sf
2. Pre-Construction Impervious Area: 0 sf
3. Post-Construction Impervious Area: 38,976 sf
4. Pre-Construction/Present Land Use(s):

maintained pipeline right-of-way	6.4 %
misc. developed	17.1 %
misc. open space; wooded	76.5 %
	%

5. Post-Construction Land Use(s):

maintainded pipeline right-of-way	39.1 %
misc. developed	17.3 %
misc. open space; wooded	43.6 %
	%

6. ☒ A map/drawing showing the site, LOD, surface waters, discharge points, BMPs and drainage is attached.
7. Report latitude and longitude at the center of the proposed disturbed area.
   Latitude: 41.966919 Longitude: -77.718176
8. Horizontal Reference Datum: ☐ NAD of 1927 ☒ NAD of 1983 ☐ WGS of 1984 ☐ Unknown
9. There will be off-site construction support activities. ☒ Yes ☐ No
10. If Yes, identify the nature of known off-site support activities whose disturbance is included in #1, above:

Description of Off-Site Support Activity	Distance from Site	Disturbance Area
Port Allegany Pipe Yard - McKean Co.	6.3 mi	13.8 acres
Ellisburg Compressor Station - Potter Co.	16.6	27.3
Harrison Valley Contractor Yard - Potter Co.	6.1 mi	10.5 acres
Middlebury Contractor Yard - Tioga Co.	42.1	7.1

11. Identify any other off-site support activities whose disturbance is not included in #1, above (see instructions).

Description of Off-Site Support Activity	Distance from Site	Disturbance Area
	mi	acres
	mi	acres

12. Check the appropriate box concerning fill material (see instructions):
    ☒ No fill material is expected to be imported to the project site.
    ☐ It is expected that fill will be needed for this project. The source of fill has not yet been determined but will undergo environmental due diligence when identified.
    ☐ It is expected that fill will be exported from the project. The applicant has identified the source of the fill and has

determined the material to be clean fill. DEP's online Certification of Clean Fill form has been submitted.

EARTH DISTURBANCE INFORMATION (CONTINUED)

☐ It is expected that fill will be needed for this project, which is located on a site that is being remediated to Act 2 standards and will be utilized in accordance with DEP standards under that program.

☐ It is expected that fill will be needed for this project. The applicant has identified the source of the fill and has determined it to be regulated fill. The regulated fill is authorized on the project site under a Waste Management General Permit No. WMGR096 authorization dated: _____.

☐ It is expected that fill will be needed for this project, which is not on an Act 2 site. The applicant has identified the fill and has determined that it does not meet criteria for clean fill. The applicant is seeking authorization to use the regulated fill from DEP's Waste Management Program.

13. The site is enrolled in DEP's Act 2 Program. ☐ Yes ☒ No

14. The site was previously enrolled in DEP's Act 2 Program and cleanup standards have been met. ☐ Yes ☒ No

15. Is Act 537 sewage planning approval needed for this project? ☐ Yes ☒ No

    The Act 537 approval letter is attached to the NOI. ☐ Yes ☐ No (will be submitted prior to approval) ☒ N/A

16. A Chapter 105 permit or authorization is required. ☒ Yes ☐ No

17. If Yes, identify the necessary authorization. ☒ Joint Permit ☐ General Permit ☐ Waiver

18. Other DEP/CCD permits or authorizations are required. ☒ Yes ☐ No

19. If Yes, identify the necessary authorizations. General Permit for Discharges from Hydorstatic Testing

EXISTING PERMITS

Identify all environmental permits issued by DEP/CCD/EPA or are pending for this facility/project site within the past 5 years.

Type of Permit	Permit No.	Date Issued	Issued By

COMPLIANCE HISTORY

Was/Is the facility owner or operator in violation of any DEP regulation, permit, order or schedule of compliance at this or any other facility or project site within the past 5 years? ☐ Yes ☒ No

If "Yes," list each permit, order or schedule of compliance and provide current compliance status. Use additional sheets to provide information on all permits.

Permit Program: Permit No.:

Brief Description of Non-Compliance:

Steps Taken to Achieve Compliance Date(s) Compliance Achieved

Current Compliance Status: ☐ In Compliance ☐ In Non-Compliance

STORMWATER DISCHARGE INFORMATION

1. List all stormwater discharge points **during construction** and provide the information requested below (see instructions). ☐ Not Applicable

Discharge Point No.	LATITUDE	LONGITUDE	RECEIVING WATERS					
	Degrees	Degrees	Name of Receiving Waters	Ches. Bay?	Non-Surface Waters	Ch. 93 Class.	Impaired?	TMDL?
1	41.96718	-77.71792	Marsh Creek	☐	☐	CWF	☐	☐
2	41.98150	-77.64890	UNT N.Branch Cowanesque River	☐	☐	CWF	☐	☐
3	41.91400	-77.78360	Jemison Creek	☐	☐	WWF	☐	☐
4	41.91520	-77.48210	Jemison Creek	☐	☐	WWF	☐	☐
				☐	☐		☐	☐
				☐	☐		☐	☐

2. List all stormwater discharge points **after construction and stabilization are complete** and provide the information requested below. ☐ Not Applicable

Discharge Point No.	LATITUDE	LONGITUDE	RECEIVING WATERS					
	Degrees	Degrees	Name of Receiving Waters	Ches. Bay?	Non-Surface Waters	Ch. 93 Class.	Impaired?	TMDL?
1	41.96718	-77.71792	Marsh Creek	☐	☐	CWF	☐	☐
2	41.98150	-77.64890	UNT N.Branch Cowanesque River	☐	☐	CWF	☐	☐
3	41.91400	-77.48630	Jemison Creek	☐	☐	WWF	☐	☐
4	41.91520	-77.48210	Jemison Creek	☐	☐	WWF	☐	☐
				☐	☐		☐	☐
				☐	☐		☐	☐

3. Will any of the points identified above discharge to a storm sewer system? ☐ Yes ☒ No Is the storm sewer an MS4 or CSS? ☐ Yes ☐ No

Name of storm sewer owner/operator: Discharge points discharging to storm sewer:

4. Identify and describe all non-stormwater discharges that are expected to occur during permit coverage. Describe the frequency and volume of all such discharges.

Hydrostatic testing water. Frequency and volume to be determined.

☐ No non-stormwater discharges are anticipated.

5. Will there be any new or increased discharge to non-surface waters prior to reaching surface waters? ☐ Yes ☒ No

If Yes, the applicant is expected to 1) secure legal authority for the non-surface water discharge if the discharge will be to property not owned by the applicant, and 2) provide for adequate controls during and after earth disturbance activities to prevent accelerated erosion.

DISCHARGES TO IMPAIRED WATERS

1.	Are stormwater discharges anticipated to impaired waters during or following construction activities?	☐ Yes	☒ No
2.	If Yes to #1, is Antidegradation Module 3 attached to the application?	☐ Yes	☐ No
3.	Is there an EPA-approved TMDL for the impaired waters?	☐ Yes	☒ No
4.	If Yes to #3, is there a WLA(s) in the TMDL that would apply to the applicant's discharges?	☐ Yes	☐ No

5. If Yes to #4, explain in the space provided or in a separate attachment how the discharges will comply with the WLA(s).

CERTIFICATION FOR APPLICANTS

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I will abide by the terms and conditions of the permit until the Notice of Termination (NOT) is submitted. I will not commence in construction resulting in earth disturbance until all criteria specified in the permit are met for commencing construction. I will ensure that a licensed professional or a designee is present on-site and be responsible during critical stages of implementation of the PCSM Plan, as applicable. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Steven J. Glass
Applicant Name (type or print legibly)

Assistant Vice President
Official Title

Applicant Signature

11/4/24
Date Signed

CERTIFICATION FOR OPERATORS

I understand that I am assuming joint and severable responsibility, coverage, and liability under the permit for all duties, responsibilities, and non-compliance with the Chapter 102 permit, as a co-permittee of this permit coverage. I certify that I will implement the requirements of the permit and the approved design plans and will notify the permittee and the agency that issued permit coverage prior to implementing changes to the plans.

Operator Name (type or print legibly)

Official Title

Operator Signature

Date Signed

Operator Name (type or print legibly)

Official Title

Operator Signature

Date Signed

Pennsylvania Department of Environmental Protection

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
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DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES EROSION AND SEDIMENT CONTROL (E&S) MODULE 1

Applicant: **National Fuel Gas Supply Corp** Project Site Name: **Tioga Pathway Project**

E&S PLAN INFORMATION

1. Describe the existing topographic features of the project site and the immediate surrounding area.

   Topography in the Project area consists of rounded hills and broad to narrow valleys, all of which have been modified by glacial erosion and deposition. Streams and wetlands are common throughout the Project area, which reflects the interplay between bedrock of various types, mainly sandstones and siltstones, and glacial erosion and deposition. The more erosion-resistant rocks form the hills, whereas the less erosion-resistant rocks occur in the valleys. Glacial deposits, mainly glacial till or sand and gravel, may occur anywhere, but are found mainly in the valley bottoms.

2. a. Complete the following table for soils present at the project site or attach a separate table.

Map Unit Symbol	Map Unit Name	Acres	HSG	% of Disturbed Area	Site-Specific Limitation	Hydric
	See E&S Plan - Attachment 2				☐	☐
					☐	☐
					☐	☐
					☐	☐

   b. If there are any site-specific soil limitations identified in the table above, discuss how the E&S Plan was designed to address those limitations.

   In most situations, typical structural and non-structural E&S BMPs will be sufficient to manage potential limitations that may be exhibited by the existing site soil types. At a minimum, surface grubbing and removal of existing vegetation will be minimized to the extent necessary to achieve the Project objective. Restoration of vegetation will be implemented as soon as practicable following completion of the construction activities.

   c. If hydric soils are present, is a wetland determination attached to this module? ☒ Yes ☐ No ☐ N/A

   If No, explain: _____

   d. If wetlands are found to be present, are a wetland delineation report and plan drawings showing the wetland boundary attached to this module? ☒ Yes ☐ No ☐ N/A

   e. Was environmental due diligence conducted for on-site soils to be disturbed? ☒ Yes ☐ No

   f. If on-site soils are known to be contaminated, 1) identify the pollutants exceeding Act 2 standards, 2) identify the extent of soil contamination on an E&S Plan Drawing that is attached to this module, and 3) describe the methods that will be used to avoid or minimize disturbance of the contaminated soils in the space provided below or separate sheet.

   No known on-site contaminated soils

3. Describe the characteristics of the earth disturbance activity, including the past (at least 50 years ago), present (within the past five (5) years) and proposed land uses and the proposed alteration to the project site.

   The Project is located in a rural area a portion of which is located within an existing permanent ROW and a portion location in a proposed permanent ROW. Past and present land use of the Project area includes: maintained ROW for natural gas transmission facilities and existing permanent access roads with adjacent residential parcels, agricultural fields, and woodlands. Future land use of the Project area will be maintained ROW.

4. Describe the volume and rate of runoff from the project site and its upstream watershed area.

   The Project proposed BMPs to achive no increase in rate or volume of runoff and to preserve water quality.

5. Check boxes to indicate all BMPs that will be installed or implemented, indicate the number of BMPs on the project site, and describe any deviations from the E&S Manual.

E&S BMPs	No. BMPs	Deviation(s) from E&S Manual
☒ Rock Construction Entrance	-	**RCE with street sweeping proposed, as needed, base on visual inspection**
☐ Rock Construction Entrance with Wash Rack		
☐ Rumble Pad		
☐ Wheel Wash		
☒ Temporary/Permanent Access Roads	**37**	**No deviations**
☒ Waterbar	-	**Compost filter sock j-hook proposed at end of waterbar**
☐ Broad-based Dip		
☐ Open-top Culvert		
☐ Water Deflector		
☐ Roadside Ditch		
☐ Ditch Relief Culvert		
☐ Turnout		
☐ Compost Sock Sediment Trap		
☒ Temporary/Permanent Stream Crossing	-	**No deviations**
☒ Temporary/Permanent Wetland Crossing	-	**No deviations**
☐ Turbidity Barrier (Silt Curtain)		
☐ Dewatering Work Areas		
☒ Pumped Water Filter Bag	-	**Compost filter sock ring proposed around pumped water filter bag**
☐ Sump Pit		
☐ Concrete Washout		
☒ Compost Filter Sock	-	**No deviations; silt fence, Silt Saver, and Siltron proposed as alternatives, as needed**
☐ Compost Filter Berm		
☐ Weighted Sediment Filter Tube		
☒ Silt Fence (Filter Fabric Fence)	**0**	**No deviations; proposed as an alternative to compost filter sock, as needed**
☒ Reinforced Silt Fence	**0**	**No deviations; proposed as an alternative to compost filter sock, as needed**
☒ Super Silt Fence	**0**	**No deviations; proposed as an alternative to compost filter sock, as needed**

E&S BMPs	No. BMPs	Deviation(s) from E&S Manual
☐ Sediment Filter Log (Fiber Log)		
☐ Wood Chip Filter Berm		
☐ Straw Bale Barrier		
☐ Rock Filter		
☐ Vegetative Filter Strip		
☐ Inlet Filter Bag		
☐ Stone Inlet Protection		
☐ Runoff Conveyance (Channel)		
☐ Bench		
☐ Top-of-Slope Berm		
☐ Temporary Slope Pipe		
☐ Sediment Basin		
☐ Sediment Trap		
☐ Riprap Apron		
☐ Flow Transition Mat		
☐ Stilling Basin (Plunge Pool)		
☐ Stilling Well		
☐ Energy Dissipater		
☐ Drop Structure		
☐ Earthen Level Spreader		
☐ Structural Level Spreader		
☐ Surface Roughening		
☒ Vegetative Stabilization	**-**	**Select-preferred seed mixtures proposed in lieu of DEP E&S Manual defined mixtures**
☒ Erosion Control Blanket	**-**	**No deviations; hydraulically applied ECB proposed as alternative, as needed**
☐ Soil Binders		
☐ Sodding		
☒ Cellular Confinement Systems	**4**	**No deviations; intended as perm. PCSM BMP where installed within new gravel areas**
☒ Alternative: **Silt Saver; Siltron**	**0**	
☒ Alternative: **Hydroseed ECB**	**0**	

6.	☒	E&S Plan Drawings have been developed for the project and are attached to the NOI/application.
7.	☐	All applicable Standard E&S Worksheets from Appendix B of the E&S Manual, or other calculations equivalent to Appendix B Worksheets, have been completed and are attached to the NOI/application.
8.	☐	Supporting E&S BMP calculations are attached to the NOI/application.
9.	☒	A complete sequence of BMP installation and removal in relation to the scheduling of earth disturbance activities, prior to, during and after earth disturbance activities, that ensures the proper functioning of all BMPs is provided on the E&S Plan Drawings.
10.	☐	A cut/fill balance sheet with soil volumes identified is attached.
11.	☒	BMPs will be inspected on a weekly basis and after measurable storm events (i.e., at least 0.25 inch).
12.	☒	The following information relating to temporary stabilization measures is identified on the E&S Plan Drawings: 1) vegetative species, 2) % pure live seed, 3) seed application rate, 4) fertilizer type, 5) fertilizer application rate, 6) mulch type, 7) mulching rate, and 8) liming rate.
13.	☒	The following information relating to permanent stabilization measures is identified on the E&S Plan Drawings: 1) vegetative species, 2) % pure live seed, 3) seed application rate, 4) fertilizer type, 5) fertilizer application rate, 6) mulch type, 7) mulching rate, 8) liming rate, 9) anchor material, 10) anchoring method, 11) rate of anchor material application, 12) topsoil placement depth, and 13) seeding season dates.
14.	☒	The procedures that will be taken to ensure that recycling or disposal of materials associated with or from the project site will be conducted properly is described on the E&S Plan Drawings.
15.	☒	The E&S Plan has been planned, designed, and will be implemented to be consistent with the PCSM Plan.
16.	☐	The project includes existing and/or proposed riparian forest buffers as shown on the E&S / PCSM Plan Drawings.
17.	☒	Construction dewatering is expected and BMPs for treating this water are shown on E&S Plan Drawings.

18. Identify the presence of any naturally occurring geologic formations or soil conditions that may have the potential to cause pollution during earth disturbance activities below. If such formations or conditions exist, identify BMPs on the E&S Plan Drawings that will be implemented to avoid or minimize potential pollution. (Enter "N/A" if not applicable).

No geologic formations with the potential to cause pollution to are known to exist at the Project site. The hazard of erosion relating to easily erodible soil types existing at the Project site is a soil condition with potential to cause pollution in the form of sedimentation; however, BMPs proposed within this E&S Plan will mitigate the potential for pollution caused by this soil condition. Therefore, pollution as a result of soil conditions of the existing soil types is not anticipated.

19. Identify whether the potential exists for thermal impacts to surface waters from the earth disturbance activity below. If such potential exists, identify BMPs on the E&S Plan Drawings that will be implemented to avoid, minimize, or mitigate potential thermal impacts.

By minimizing the clearing of riparian vegetation at stream crossings along the ROW and minimizing the addition/creation of impervious surfaces, the Project does not have thermal impacts. Specifically, thermal impacts will be avoided by implementing the following:

- **Siting parallel to and overlapping with existing ROWs, where applicable, to minimize vegetation clearing at stream crossings;**
- **Reducing the construction ROW width and additional temporary workspaces at stream crossings, where possible;**
- **No grubbing, grading, or clearing of trees will occur within 50 feet of the top of stream bank until pipeline construction/installation is ready to proceed through that area;**
- **Restoring (seeding) disturbed areas/ROW as soon as practicable and/or directing runoff to vegetated areas to reduce the temperature of runoff prior to discharge into the streams; and,**
- **Restoring the stream banks and seeding/planting as soon as practicable to facilitate vegetative growth along the stream channel.**

E&S PLAN DEVELOPER

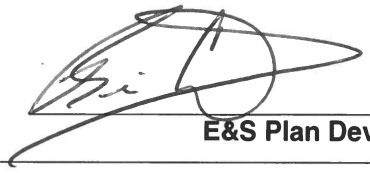
☒ I am trained and experienced in E&S control methods.

No. years of experience preparing E&S Plans: **20**

☒ I am a licensed professional.

☒ I am a certified E&S professional.

Name:	Brian Chlebus	Title:	Civil Engineer
Company:	Tetra Tech, Inc	Phone No.:	(330) 318-4291
Address:	6715 Tippecanoe Rd, Suite C201	Email:	brian.chlebus@tetratech.com
City, State, ZIP:	Canfield, OH 44406	License No.:	PE076053
License Type:	Professional Egineer	Cert. No.:	5495
Cert. Type:	CPESC	Exp. Date:	October 2025



E&S Plan Developer Signature

11/11/2024

Date

Pennsylvania Department of Environmental Protection

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES
POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM) MODULE 2

Applicant: **National Fuel Gas Supply Corporation** Project Site Name: **Tioga Pathway Project**

PRE-DEVELOPMENT SITE CHARACTERIZATION

1. Was a pre-development site characterization completed for this project? ☐ Yes ☒ No

   If Yes, describe the activities undertaken.

2. No. Test Pits completed: 8 No. Boreholes completed: 0

3. Number of Infiltration Tests completed: 6 Method(s): double ring infiltrometer

4. Project Site Area: 359.3 acres Area investigated for infiltration capabilities: 0.89 acres

5. DEP's Pre-Development Site Characterization Spreadsheet has been completed and is attached. ☒ Yes ☐ No

6. The infiltration potential of the site is: ☒ Limited ☐ Marginal ☒ Feasible ☐ Not Recommended

7. If the infiltration potential of the site is limited or is otherwise not advised, explain the limitations.

   IT 1-1 and IT 1-2 may experience seasonal high groundwater table limitations.

8. Is the project site located in an area with known karst features? ☐ Yes ☒ No

   If Yes, was a subsurface geotechnical investigation conducted and is a report attached? ☐ Yes ☐ No

9. Are there natural stormwater features on-site that will be protected? ☐ Yes ☒ No

   If Yes, describe the features and any increase or decrease in stormwater runoff volume to the features.

POINTS OF ANALYSIS (POAs)				
1. Identify all POAs used for the stormwater analysis and provide the information requested. All runoff from the site must be accounted for.				
POA No.	**Latitude**	**Longitude**	**DA (acres)**	**Surface Water Name**
1-1	41.966944	-77.718055	0.08	Marsh Creek
1-2	41.966944	-77.718333	-	Marsh Creek
2-1	41.981875	-77.648611	0.54	UNT to North Branch Cownesque River
2-2	41.981667	-77.748611	-	UNT to North Branch Cownesque River
3-1	41.914043	-77.483895	-	Jemison Creek
3-2	41.913872	-77.483717	0.05	Jemison Creek
4-1	41.915281	-77.482261	0.11	Jemison Creek
4-2	41.914646	-77.482199	0.11	Jemison Creek

PCSM SCM INVENTORY

1. Identify all PCSM SCMs planned for the project site and provide the information requested.

SCM ID	SCM Name	Latitude	Longitude	DA Treated (acres)	Deviations from BMP Manual
001	Z20 Valve Site - geocell	41.966944	-77.718055	0.08	No deviations
002	OPP Station - geocell	41.981875	-77.648611	0.54	No deviations
003	YM59 Valve Site - geocell	41.913872	-77.483717	0.05	No deviations
004	YM59 PAR-9 - geocell	41.915281	-77.482261	0.22	No deviations

2. Area not treated by an SCM, Earth Disturbance Area (acres): 358.41 Area not treated by an SCM, Project Site Area (acres): 358.41

3. ☐ One or more SCMs will be located off-site. SCM IDs:

PCSM SCM INVENTORY

4. List the critical stages for each SCM and identify the licensed professional and/or company that will sign SCM Construction Certification forms for the SCM.

SCM ID	Critical Stages	LP Name	Company	LP Employed by Company	Contract
001	geocell installation and aggregate infill	Civil Engineer (P.E.)	Tetra Tech, Inc.	☒	☒
002	geocell installation and aggregate infill	Civil Engineer (P.E.)	Tetra Tech, Inc.	☒	☒
003	geocell installation and aggregate infill	Civil Engineer (P.E.)	Tetra Tech, Inc.	☒	☒
004	geocell installation and aggregate infill	Civil Engineer (P.E.)	Tetra Tech, Inc.	☒	☒
				☐	☐
				☐	☐
				☐	☐
				☐	☐
				☐	☐
				☐	☐
				☐	☐
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				☐	☐
				☐	☐
				☐	☐
				☐	☐
				☐	☐
				☐	☐
				☐	☐
				☐	☐

STORMWATER ANALYSIS – RUNOFF VOLUME

Surface Water Name: **Marsh Creek** **POA(s):** **001**

1. ☐ The design standard is based on volume management requirements in an Act 167 Plan approved by DEP within the past five years.
2. ☒ The design standard is based on managing the net change for storms up to and including the 2-year/24-hour storm.
3. ☐ An alternative design standard is being used.
4. ☐ A printout of DEP's PCSM Spreadsheet – Volume Worksheet is attached.
5. 2-Year/24-Hour Storm Event: 2.43 inches Source of precipitation data: NOAA Atlas 14
6. Stormwater Runoff Volume @ 2-Year/24-Hour Storm, Pre-Construction: 223 CF
7. Stormwater Runoff Volume @ 2-Year/24-Hour Storm, Post-Construction: 464 CF
8. Net Change (Post-Construction – Pre-Construction Volumes): 241 CF
9. Identify all selected structural PCSM SCMs and provide the information requested. ☒ Calculations attached

SCM ID	Series	MRC	Vol. Routed to SCM (CF)	Inf. Area (SF)	Inf. Rate (in/hr)	Inf. Period (hrs)	Veg?	Media Depth (ft)	Storage Vol. (CF)	Inf. Credit (CF)	ET Credit (CF)
001	-	☐	464	1260	0.14	43	☐	0.5	252	252	0
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				

Total Infiltration & ET Credits (CF): **252**

Other Credits (CF) (Attach Calculations): **0**

Managed Release Credits (CF) ***(Attach MRC Design Summary)*****:** **0**

Volume Required to Manage (CF): **241**

Total Credits (CF): **252**

STORMWATER ANALYSIS – PEAK RATE

Surface Water Name: **Marsh Creek** **POA(s):** **1-1**

1. ☐ The design standard is based on rate requirements in an Act 167 Plan approved by DEP within the past five years.
2. ☒ The design standard is based on managing the net change for 2-, 10-, 50-, and 100-year/24-hour storms.
3. ☐ An alternative design standard is being used.
4. ☐ A printout of DEP's PCSM Spreadsheet – Rate Worksheet is attached.
5. ☒ Alternative rate calculations are attached.
6. Identify precipitation amounts. Source of precipitation data: NOAA Atlas 14

2-Year/24-Hour Storm:	2.43	10-Year/24-Hour Storm	3.48
50-Year/24-Hour Storm:	4.99	100-Year/24-Hour Storm	5.85

7. Identify all SCMs used to mitigate peak rate differences and provide the requested information.

SCM ID	Inflow to SCM (cfs)				Outflow from SCM (cfs)			
	2-Yr	10-Yr	50-Yr	100-Yr	2-Yr	10-Yr	50-Yr	100-Yr
001	0.21	0.33	0.50	0.60	0.12	0.23	0.38	0.52

8. Report peak rates for pre-construction and post-construction with SCMs and identify the differences.

Design Storm	Pre-Construction Peak Rate (cfs)	Post-Construction Peak Rate (with SCMs) (cfs)	Difference (cfs)
2-Year/24-Hour	0.64	0.62	-0.02
10-Year/24-Hour	1.28	1.27	-0.01
50-Year/24-Hour	2.32	2.27	-0.05
100-Year/24-Hour	2.94	2.93	-0.01

STORMWATER ANALYSIS – RUNOFF VOLUME

Surface Water Name: **UNT to North Branch Cowanesque River** **POA(s):** **002**

1. ☐ The design standard is based on volume management requirements in an Act 167 Plan approved by DEP within the past five years.
2. ☒ The design standard is based on managing the net change for storms up to and including the 2-year/24-hour storm.
3. ☐ An alternative design standard is being used.
4. ☐ A printout of DEP's PCSM Spreadsheet – Volume Worksheet is attached.
5. 2-Year/24-Hour Storm Event: 2.41 inches Source of precipitation data: NOAA Atlas 14
6. Stormwater Runoff Volume @ 2-Year/24-Hour Storm, Pre-Construction: 1442 CF
7. Stormwater Runoff Volume @ 2-Year/24-Hour Storm, Post-Construction: 3019 CF
8. Net Change (Post-Construction – Pre-Construction Volumes): 1577 CF
9. Identify all selected structural PCSM SCMs and provide the information requested. ☒ Calculations attached

SCM ID	Series	MRC	Vol. Routed to SCM (CF)	Inf. Area (SF)	Inf. Rate (in/hr)	Inf. Period (hrs)	Veg?	Media Depth (ft)	Storage Vol. (CF)	Inf. Credit (CF)	ET Credit (CF)
002	-	☐	23695	8400	0.59	10	☐	0.5	1680	1680	0
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				

Total Infiltration & ET Credits (CF): **1680**

Other Credits (CF) (Attach Calculations): **0**

Managed Release Credits (CF) *(Attach MRC Design Summary)*: **0**

Volume Required to Manage (CF): **1577**

Total Credits (CF): **1680**

STORMWATER ANALYSIS – PEAK RATE

Surface Water Name: **UNT to North Branch Cowanesque River** **POA(s):** **2-1**

1. ☐ The design standard is based on rate requirements in an Act 167 Plan approved by DEP within the past five years.
2. ☒ The design standard is based on managing the net change for 2-, 10-, 50-, and 100-year/24-hour storms.
3. ☐ An alternative design standard is being used.
4. ☐ A printout of DEP's PCSM Spreadsheet – Rate Worksheet is attached.
5. ☒ Alternative rate calculations are attached.
6. Identify precipitation amounts. Source of precipitation data: NOAA Atlas 14

2-Year/24-Hour Storm:	2.41	10-Year/24-Hour Storm	3.71
50-Year/24-Hour Storm:	5.11	100-Year/24-Hour Storm	5.77

7. Identify all SCMs used to mitigate peak rate differences and provide the requested information.

SCM ID	Inflow to SCM (cfs)				Outflow from SCM (cfs)			
	2-Yr	10-Yr	50-Yr	100-Yr	2-Yr	10-Yr	50-Yr	100-Yr
002	1.37	2.38	3.47	3.97	0.80	1.68	2.66	3.48

8. Report peak rates for pre-construction and post-construction with SCMs and identify the differences.

Design Storm	Pre-Construction Peak Rate (cfs)	Post-Construction Peak Rate (with SCMs) (cfs)	Difference (cfs)
2-Year/24-Hour	4.57	4.44	-0.13
10-Year/24-Hour	10.39	10.23	-0.16
50-Year/24-Hour	17.43	17.08	-0.35
100-Year/24-Hour	20.88	20.85	-0.03

STORMWATER ANALYSIS – RUNOFF VOLUME

Surface Water Name: **Jemison Creek** **POA(s):** **003**

1. ☐ The design standard is based on volume management requirements in an Act 167 Plan approved by DEP within the past five years.
2. ☒ The design standard is based on managing the net change for storms up to and including the 2-year/24-hour storm.
3. ☐ An alternative design standard is being used.
4. ☐ A printout of DEP's PCSM Spreadsheet – Volume Worksheet is attached.
5. 2-Year/24-Hour Storm Event: 2.38 inches Source of precipitation data: NOAA Atlas 14
6. Stormwater Runoff Volume @ 2-Year/24-Hour Storm, Pre-Construction: 118 CF
7. Stormwater Runoff Volume @ 2-Year/24-Hour Storm, Post-Construction: 248 CF
8. Net Change (Post-Construction – Pre-Construction Volumes): 131 CF
9. Identify all selected structural PCSM SCMs and provide the information requested. ☒ Calculations attached

SCM ID	Series	MRC	Vol. Routed to SCM (CF)	Inf. Area (SF)	Inf. Rate (in/hr)	Inf. Period (hrs)	Veg?	Media Depth (ft)	Storage Vol. (CF)	Inf. Credit (CF)	ET Credit (CF)
003	-	☐	1985	735	1.13	5.3	☐	0.5	147	147	0
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				

Total Infiltration & ET Credits (CF): **147**

Other Credits (CF) (Attach Calculations): **0**

Managed Release Credits (CF) *(Attach MRC Design Summary)*: **0**

Volume Required to Manage (CF): **131**

Total Credits (CF): **147**

STORMWATER ANALYSIS – PEAK RATE

Surface Water Name: **Jemison Creek** **POA(s):** **3-2**

1. ☐ The design standard is based on rate requirements in an Act 167 Plan approved by DEP within the past five years.
2. ☒ The design standard is based on managing the net change for 2-, 10-, 50-, and 100-year/24-hour storms.
3. ☐ An alternative design standard is being used.
4. ☐ A printout of DEP's PCSM Spreadsheet – Rate Worksheet is attached.
5. ☒ Alternative rate calculations are attached.
6. Identify precipitation amounts. Source of precipitation data: NOAA Atlas 14

2-Year/24-Hour Storm:	2.38	10-Year/24-Hour Storm	3.41
50-Year/24-Hour Storm:	4.87	100-Year/24-Hour Storm	5.70

7. Identify all SCMs used to mitigate peak rate differences and provide the requested information.

SCM ID	Inflow to SCM (cfs)				Outflow from SCM (cfs)			
	2-Yr	10-Yr	50-Yr	100-Yr	2-Yr	10-Yr	50-Yr	100-Yr
003	0.12	0.20	0.30	0.36	0.07	0.14	0.23	0.32

8. Report peak rates for pre-construction and post-construction with SCMs and identify the differences.

Design Storm	Pre-Construction Peak Rate (cfs)	Post-Construction Peak Rate (with SCMs) (cfs)	Difference (cfs)
2-Year/24-Hour	0.30	0.29	-0.01
10-Year/24-Hour	0.61	0.60	-0.01
50-Year/24-Hour	1.09	1.07	-0.02
100-Year/24-Hour	1.39	1.39	0.00

STORMWATER ANALYSIS – RUNOFF VOLUME

Surface Water Name: **Jemison Creek** **POA(s):** **004**

1. ☐ The design standard is based on volume management requirements in an Act 167 Plan approved by DEP within the past five years.
2. ☒ The design standard is based on managing the net change for storms up to and including the 2-year/24-hour storm.
3. ☐ An alternative design standard is being used.
4. ☐ A printout of DEP's PCSM Spreadsheet – Volume Worksheet is attached.
5. 2-Year/24-Hour Storm Event: 2.38 inches Source of precipitation data: NOAA Atlas 14
6. Stormwater Runoff Volume @ 2-Year/24-Hour Storm, Pre-Construction: 348 CF
7. Stormwater Runoff Volume @ 2-Year/24-Hour Storm, Post-Construction: 783 CF
8. Net Change (Post-Construction – Pre-Construction Volumes): 435 CF
9. Identify all selected structural PCSM SCMs and provide the information requested. ☒ Calculations attached

SCM ID	Series	MRC	Vol. Routed to SCM (CF)	Inf. Area (SF)	Inf. Rate (in/hr)	Inf. Period (hrs)	Veg?	Media Depth (ft)	Storage Vol. (CF)	Inf. Credit (CF)	ET Credit (CF)
004	-	☐	9696	9360	0.19	42	☐	0.67	2502	2502	0
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				
		☐					☐				

Total Infiltration & ET Credits (CF): **2502**

Other Credits (CF) (Attach Calculations): **0**

Managed Release Credits (CF) *(Attach MRC Design Summary)*: **0**

Volume Required to Manage (CF): **131**

Total Credits (CF): **2502**

STORMWATER ANALYSIS – PEAK RATE

Surface Water Name: **Jemison Creek** **POA(s):** **4-1**

1. ☐ The design standard is based on rate requirements in an Act 167 Plan approved by DEP within the past five years.
2. ☒ The design standard is based on managing the net change for 2-, 10-, 50-, and 100-year/24-hour storms.
3. ☐ An alternative design standard is being used.
4. ☐ A printout of DEP's PCSM Spreadsheet – Rate Worksheet is attached.
5. ☒ Alternative rate calculations are attached.
6. Identify precipitation amounts. Source of precipitation data: NOAA Atlas 14

2-Year/24-Hour Storm:	2.38	10-Year/24-Hour Storm	3.41
50-Year/24-Hour Storm:	4.87	100-Year/24-Hour Storm	5.70

7. Identify all SCMs used to mitigate peak rate differences and provide the requested information.

SCM ID	Inflow to SCM (cfs)				Outflow from SCM (cfs)			
	2-Yr	10-Yr	50-Yr	100-Yr	2-Yr	10-Yr	50-Yr	100-Yr
004	0.42	0.74	1.21	1.47	0.09	0.26	0.55	0.82

8. Report peak rates for pre-construction and post-construction with SCMs and identify the differences.

Design Storm	Pre-Construction Peak Rate (cfs)	Post-Construction Peak Rate (with SCMs) (cfs)	Difference (cfs)
2-Year/24-Hour	0.13	0.13	0.00
10-Year/24-Hour	1.52	1.29	-0.23
50-Year/24-Hour	4.59	4.16	-0.43
100-Year/24-Hour	6.63	6.21	-0.42

STORMWATER ANALYSIS – WATER QUALITY

☐ A printout of DEP's PCSM Spreadsheet – Quality Worksheet is attached for all surface waters receiving discharges.

OTHER INFORMATION

1. ☒ A long-term operation and maintenance (O&M) plan has been prepared for each SCM.
2. ☒ A long-term O&M plan will be recorded with a legal instrument for each property containing an SCM.
3. ☒ PCSM Plan Drawings have been developed for the project and are attached to the NOI/application.
4. ☒ The PCSM Plan has been planned, designed, and will be implemented to be consistent with the E&S Plan.
5. ☒ Recycling and proper disposal of materials associated with PCSM SCMs are addressed as part of long-term operation and maintenance of the PCSM SCMs.
6. ☐ There are pre-construction stormwater discharges to wetlands from the project site.

	Pre-Construction		Post-Construction		
Wetland ID	**Drainage Area (ac)**	**Volume (CF)**	**Drainage Area (ac)**	**Volume (CF)**	**Ponding Depth Increase or Decrease (±%)**

7. Describe the sequence of PCSM SCM implementation in relation to earth disturbance activities.

   PCSM SCMs shall be implemented as each assocaited location is developed as part of construction.

8. Identify naturally occurring geologic formations or soil conditions that may have the potential to cause pollution after earth disturbance activities are completed and PCSM SCMs are operational and the applicant's plan to avoid or minimize potential pollution and its impacts.

   No known geologic formations or soil conditions with the potential to cause pollution

9. Thermal Impacts: check the appropriate box(es) if any of the following are true:

   ☐ A peak rate control SCM is proposed that will receive stormwater from a drainage area containing more than 25% impervious surface that exceeds 10% of the receiving surface water's watershed area.

   ☐ A Wet Basin or Engineered Stormwater Treatment Wetland is proposed that does not include shading and/or a reversed slope outlet pipe.

   ☐ An impervious undetained area exceeds 10% of the receiving water's watershed area.

   ☐ A quantitative thermal impact analysis is attached.

IMPERVIOUS SURFACES (MULTI-LOT DEVELOPMENT ONLY)							
Tax Parcel / Lot ID No.	SCM ID(s) Used to Treat Lot Stormwater		Lot Area (SF)	Planned Impervious (SF) [1]	Maximum Allowable Impervious, As Designed (SF) [2]	Maximum Allowable Impervious, Per Ordinance (SF) [3]	Objective Met? [4]
	Rate	Volume / WQ					
							☐
							☐
							☐
							☐
							☐
							☐
							☐
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							☐
							☐
							☐
							☐
							☐
							☐

1 Enter the impervious area as presented on PCSM Plan Drawings.

2 Report the maximum allowable impervious on the lot according to the stormwater analysis and SCM design.

3 List the maximum allowable impervious on the lot to meet requirements of a local ordinance, if applicable.

4 Check the box if either 1) Maximum Allowable Impervious, As Designed is at least 110% of Planned Impervious or 2) Planned Impervious is equal to Maximum Allowable Impervious, Per Ordinance. If the box is checked and the maximum impervious area for the lot is recorded, the permittee will not be responsible for identifying new impervious added to a lot on record drawings after a lot is sold during the term of permit coverage.

PCSM PLAN PREPARER

☒ I am trained and experienced in PCSM methods.

☒ I am a licensed professional.

No. years of experience preparing PCSM Plans: 20

Name:	Brian Chlebus	Title:	Civil Engineer
Company:	Tetra Tech, Inc.	Phone No.:	(330) 318-4291
Address:	6715 Tippecanoe Road, Suite C201	Email:	brian.chlebus@tetratech.com
City, State, ZIP:	Canfield, OH 44406	License No.:	PE076053
License Type:	Professional Engineer	Exp. Date	9/30/2025

PCSM Plan Preparer Signature

11/11/2024

Date

Identify those who assisted the individual identified above in preparing the PCSM Plan:

Name	Company	Field	LP?	License Type
			☐	
			☐	
			☐	
			☐	
			☐	