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**GP- 11-06-11-113 Amendment Summary**

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**Kutz Mill Road over Sacony Creek  
Greenwich Township, Berks County, Pennsylvania**

**Permit History and Original Project Description**

This project involves repairs to the Kutz Mill Covered Bridge (Berks County Bridge 46E) that carries Kutz Mill Road over Sacony Creek in Greenwich Township, Berks County. The project site is located on the USGS 7.5-Minute Quadrangle Map for Kutztown, Pennsylvania, with an approximate latitude and longitude of 40.533472° and -75.805333°.

The original GP-11 (GP-11-06-11-113) was authorized April 24, 2013. The original proposed work included the replacement of the existing standing seam roof, all stem beam bearings at the abutments, and timber arch segments that bear on the abutment seats. It was necessary to raise the bridge using pneumatic/hydraulic jacks that will bear on the shelf of the abutment. Encroachment into the stream was necessary and was minimal for setting up the jacks on the abutment shelves. No earth disturbance was included. See **Appendix 1** for original permit.

**New Project Description**

Additional work was determined to be required after an inspection. Work for the permit amendment includes truss repair work (repairing inside and outside arch rings and bearing seats), Class I and II concrete deck repairs and resealing expansion joints. Refer to plan for locations. It will be necessary to raise the bridge using pneumatic/hydraulic jacks that will bear on the shelf of the abutment. Encroachment into the stream will be necessary and will be minimal for setting up the jacks on the abutment shelves. The wetland in the project area will not be impacted. The new impacts to the stream are temporary in nature. Temporary dewatering includes sandbag cofferdams and temporary bypass pump system. Refer to **Appendix 2** for Updated Project Plans.

According to Pa DEP Chapter 93 listings, Sacony Creek is designated as a Trout Stocked Fishes, Migratory Fishes stream (TSF, MF). Per the PFBC Sacony Creek is a trout natural reproduction stream (wild trout) and is within 0.5 miles of a stocked stream (Mill Creek). Therefore, it will incur both the wild trout in-stream construction restriction of October 1- December 31 and the stocked trout in-stream construction restriction of February 15- June 1. However, the contractor will request a waiver for the wild trout in-stream construction restriction.

**Impacts Changes Summary:**

Original impacts included only temporary impacts to the stream and floodway and are as follows:

Stream- 0.09 acres, 48' x 80'

Floodway- 0.02 acres, 48' x 20'

New impacts also include only temporary impacts and are as follows:

Stream- 0.111 acres, 83' x 58.3'

Floodway/floodplain- 0.146 acres, 100 x 64

Kutz Mill Road over Sacony Creek  
Greenwich Township, Berks County, Pennsylvania

No impacts to the wetland within the project limits will occur. The new ARIT table lists impact amounts. Refer to **Appendix 3**.

**Updated PNDI and PFBC Correspondence**

According to the updated PNDI-797192 completed on February 9, 2024, there are potential impacts with the Pennsylvania Fish and Boat Commission (PFBC) and the U.S. Fish and Wildlife Service (USFWS). A Phase 1 survey by a Qualified Bog Turtle Surveyor found no presence of potential bog turtle habitat within 300 feet of the project and no tree clearing is proposed. See the Negative Phase I Bog Turtle Habitat Assessment dated February 12, 2024. Upon correspondence with the USFWS received on February 23, 2024, a Not Likely to Adversely Affect was noted for the bog turtle, northern long-eared bat, tricolored bat. According to a letter from the PFBC there are potential impacts to Bog Turtle (*Glyptemys muhlenbergii*, Endangered) and Northern Red-bellied Cooter (*Pseudemys rubriventris*, Threatened). As noted above, no impacts to Bog Turtle are anticipated. However, further coordination occurred with PFBC. According to a response on June 30, 2025, the PFBC does not foresee the proposed project resulting in adverse impacts to the Bog Turtle or Northern Red-bellied Cooter.

Refer to **Appendix 4** for the Negative Phase I Bog Turtle Habitat Assessment, updated PNDI, USFWS and PFBC correspondence.

## **Appendix 1- Original GP-11 Permit**



# CHAPTER 105

## GENERAL PERMIT REGISTRATION

MAR 22 2013

TYPE OF GENERAL PERMIT: ☒ New PermitPLEASE MARK ("X") ONE: ☐ Transfer of Existing Permit (Complete Section A, C & F below and all of form 3150-PM-BWEW0016)

## PLEASE MARK ("X") ALL THAT APPLY:

- ☐ GP-1 Fish Habitat Enhancement Structures
- ☐ GP-2 Small Docks & Boat Launching Ramps
- Please mark ("X") the specific type of project:
- ☐ private recreational dock
- ☐ public access facility
- ☐ public service facility
- ☐ other private or commercial facility
- ☐ GP-3 Bank Rehabilitation, Bank Protection and Gravel Bar Removal
- ☐ GP-4 Intake and Outfall Structures

- ☐ GP-5 Utility Line Stream Crossing
- ☐ GP-6 Agricultural Crossings & Ramps
- ☐ GP-7 Minor Road Crossings
- ☐ GP-8 Temporary Road Crossings
- ☐ GP-9 Agricultural Activities
- ☐ GP-10 Abandoned Mine Reclamation
- ☒ GP-11 Maintenance, Testing, Repair, Rehabilitation, or Replacement of Water Obstructions and Encroachments (reviewed by DEP Regional Office only)
- ☐ GP-15 Private Residential Construction in Wetlands

☐ Activity Related to Oil and Gas Exploration, Production or Transmission

## SECTION A. APPLICANT INFORMATION

Applicant's Name / Client Berks County		DEP Client ID# (if known)	Employer ID# (EIN)
Client Information - Please select Client Type / Code from drop down box under the correct entity shown to the right (or may be written in) →		Government CNTY County	Non-Government Individual
Mailing Address Berks Co. Services Ctr, Facilities & Ops., 633 Court St, FL 16		City Reading	State PA
Contact Person - Last Name Hunter		First Ryan	MI Suffix
Telephone (610) 478.6201		Email Address RHunter@countyofberks.com	
ZIP + 4 19601-4322			

SECTION B. CONSULTANT INFORMATION (Complete if different than above) ☐ N/A

Contact Person - Last Name Guisinger-Colon		First Susan	MI M.	Suffix P.E.	Consultant's Title Senior Project Mgr.	Consulting Firm McCormick Taylor, Inc.
Mailing Address 222 Valley Creek Blvd, Suite 130		City Exton	State PA	ZIP + 4 19341-2385		
Telephone (610) 640.3500	Fax (610) 640.3503	Email SMGuisingerColon@MTmail.biz			Employer ID# (EIN)	

## SECTION C. PROJECT INFORMATION

Project /Site Name: Kutz's Mill Bridge (Berks County Bridge 46E)		DEP Site ID# (if known or leave blank)	
Client Relationship - Please select Site-to-Client Relationship / Code from drop down box to the right (or may be written in) →		Double-click on shaded area below to select correct Site-to-Client Relationship / Code ↓	
County Berks	Municipality Greenwich	<input type="checkbox"/> City <input type="checkbox"/> Borough <input checked="" type="checkbox"/> Township	OWN Owner
Site Location / Address Kutz Mill Road over Sacony Creek		City Kutztown	State PA
ZIP + 4 19530			
Collection Method: <input type="checkbox"/> EMAP <input checked="" type="checkbox"/> HGIS <input type="checkbox"/> GISDR* <input type="checkbox"/> ITPMP <input type="checkbox"/> GPS <input type="checkbox"/> WAAS <input type="checkbox"/> LORAN			
Check the horizontal reference datum (or projection datum) employed in the collection method. EMAP and HGIS (PNDI) have known datum and do not require checking here. <input type="checkbox"/> NAD27 <input type="checkbox"/> NAD83 <input type="checkbox"/> WGS84 (GEO84)			
Enter the date of collection if coordinates were derived from GPS, WAAS or LORAN. ____ mm ____ dd ____ yyyy			



Applicant's Name Berks County	<b>GENERAL PERMIT REGISTRATION</b>	
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**SECTION D. RESOURCE IDENTIFICATION**

Please place an "X" in the appropriate box next to each item to indicate the applicant has identified any of these resources which may be present at the project site.

Each General Permit (GP) has a specific set of restrictions and some resources may require certain actions or prohibit the project from being eligible to register use of the GP. *This list is not all-inclusive, please see GPs for details.*

YES	NO		YES	NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	National Register of Historic Places	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Threatened and Endangered Species
<input type="checkbox"/>	<input checked="" type="checkbox"/>	National Registry of Natural Landmarks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wild or Stocked Trout Streams
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Local historical site	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Wild and Scenic Rivers
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exceptional Value (EV) Waters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wetlands
<input type="checkbox"/>	<input checked="" type="checkbox"/>	High Quality (HQ) Waters	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other _____

**SECTION E. REGISTRATION CHECK LIST AND REQUIREMENTS**

	Applicant Entry	DEP Use Only
<b>Please place an "X" next to each item (1 - 16) to ensure it is completed and/or provided.</b> Unless otherwise specified, all items are <u>required</u> to ensure a complete Registration package. <b>**Provide ONE (1) ORIGINAL and FOUR (4) COPIES of the Registration package**</b>		
1. General Permit Registration form properly completed and signed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> I have read the terms and conditions of the GP(s) indicated above.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. General Permit Registration Fee and Chapter 105 Fee Calculation Worksheet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Notification sent to the Municipality & County (copy of General Permit Registration form)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. PASPGP-4 Cumulative Impact Project Screening Form properly completed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5. Location Map (USGS quad map) with project site marked	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6. Color Photographs with dates and descriptions (see instructions) <span style="float: right;"><input type="checkbox"/> N/A</span>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. Stream Name and Chapter 93 Classification (example: UNT to #40637 HOUSE RUN, HQ-WWF/EV) Saony Creek, TSF/MF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8. Project Description including proposed impacts and PNDI Avoidance Measures (if applicable)		
This project involves repairs to the Kutz Mill Covered Bridge that carries Kutz Mill Road over Saony Creek in Greenwich Township. The bridge consists of a 91-foot steel I-beam superstructure that supports a timber covered bridge with stone masonry abutments and wingwalls.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
The proposed work includes the replacement of the existing standing seam roof, all steel beam bearings at the abutments, and timber arch segments that bear on the abutment seats. It will be necessary to raise the bridge using pneumatic/hydraulic jacks that will bear on the shelf of the abutment. Encroachment into the stream will be minimal for workmen to set up the jacks on the abutment shelves. No earth moving activities are anticipated. All work shall be conducted in accordance with Department Standards.		
*** Please see Section 10, "USFWS Concurrence letter and Special Permit Conditions," of this application for special permit conditions and PNDI Avoidance Measures ***		
9. Site Specific and/or Standard Drawings depicting the project's GP activities	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10. Site Plan depicting the site of the project's GP activities (see Section F.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Erosion & Sediment Control Plan (E&S Plan) (required for GP-11 only - see instructions)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12. Written Directions to Project Site: From US-222. Take the PA-737 N/Krumsville Road exit and turn right onto PA-737 N/Krumsville Road. In 2.0mi turn left onto Kutz Mill Road. Berks County Bridge 46E, Kutz's Mill Bridge over Saony Creek, is located on Kutz Mill Road approx. 0.8mi from the intersection of PA-737 N /	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

<b>13. Pennsylvania Natural Diversity Inventory (PNDI):</b> <b>Please place an "X" next to the appropriate box indicating the information provided:</b> <input checked="" type="checkbox"/> Completed PNDI Project Planning & Environmental Review Form <input type="checkbox"/> Initialed PNDI Project Environmental Review Search Receipt showing "No Known Impacts" <input checked="" type="checkbox"/> Initialed PNDI Project Environmental Review Search Receipt showing "Avoidance Measures" which have ALSO been incorporated into the project description <input checked="" type="checkbox"/> Initialed PNDI Project Environmental Review Search Receipt showing "Potential Impacts" AND documentation of appropriate agency coordination required on PNDI Receipt	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<b>14. Bog Turtle Habitat Screening:</b> <b>Please place an "X" next to the appropriate box indicating the information provided:</b> <input checked="" type="checkbox"/> Completed Request for a Bog Turtle Habitat Screening Form <input type="checkbox"/> "No Effect" determination from the Army Corp of Engineers <input checked="" type="checkbox"/> Documented clearance from the US Fish and Wildlife Services <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>

Applicant's Name Berks County	<b>GENERAL PERMIT REGISTRATION</b>									
<b>15. Activities which impact wetlands:</b> Please place an "X" next to the appropriate box indicating the information provided: <input checked="" type="checkbox"/> N/A because no wetland impacts proposed in project. <input type="checkbox"/> A wetland delineation with complete data sheets in accordance with the 1987 Corps of Engineers Wetland Delineation Manual AND the appropriate Regional Supplements to the Corps of Engineers Wetland Delineation Manual for use in Pennsylvania. <input type="checkbox"/> If wetland impacts are greater than 0.05 acres, a wetland replacement plan in accordance with the Department's Replacement criteria which provides wetland replacement at a one to one acre ratio. <input type="checkbox"/> If wetland replacement onsite is determined not feasible by the DEP or District reviewer: A check, number _____, in the amount of \$_____ payable to the National Fish and Wildlife Foundation, N.A. 1237, as compensatory mitigation for _____ acres of impact in wetlands, in accordance with the Pennsylvania Wetland Replacement Project.		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="width:50%; text-align: center;"><input checked="" type="checkbox"/></td><td style="width:50%; text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> </table>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<b>16. Registration of a GP-11:</b> Please place an "X" next to the appropriate box indicating the worksheet(s) provided: <input type="checkbox"/> N/A because not registering use of GP-11 <input checked="" type="checkbox"/> E&S Plan <input checked="" type="checkbox"/> Project Inventory <input type="checkbox"/> Bridge and/or Culvert Replacement Projects or Projects That Change the Waterway Opening		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="width:50%; text-align: center;"><input type="checkbox"/></td><td style="width:50%; text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> </table>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>									

**SECTION F. SITE PLAN**

Please place an "X" next to each item to ensure it is shown on the site plan. Unless otherwise specified in the permit, all items are required to ensure a complete Registration package.

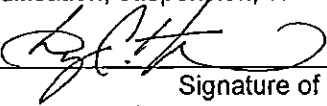
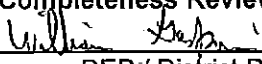
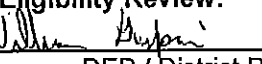
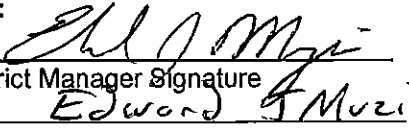
YES	NO		YES	NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stream Name: <u>Saony Creek</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 year Flood Elevation OR FEMA map
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stream Limits and Flow Direction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Limits of Earth Disturbance Associated with Activity
<input type="checkbox"/>	<input type="checkbox"/>	Stream Impacts on site (including dimensions)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Location of Property Lines Relative to the Project
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Wetlands on site (including acres)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Existing Utilities, ROWs, Easements
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Wetland Impacts on site (including acres)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Existing Buildings, Roadway, etc.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Waters (i.e. pond, lakes, wetlands)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Proposed Buildings, Roadways, ROW etc.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Site Specific / Standard Drawings location(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photograph location(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other _____

**SECTION G. IMPACTS ASSOCIATED WITH PROJECT WORK SITE**

Provide the unique identifier (from Section E.9.), latitude and longitude, total area and dimensions of impact to waters (including streams, lakes, ponds, etc.) and/or wetlands associated with the project for each category below.

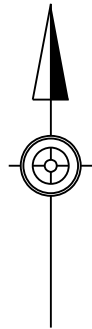
If the project has multiple locations, please complete and provide a separate chart detailing the same information for each impact to waters and wetlands. The additional impacts should be totaled and provided in "(b)" below. The Additional Impacts Associated with Project Work Site (3150-PM-BWEW0554) may be used but is not required.

Identifier <u>Section 7</u>		* 43,560 square feet per acre			
Impact Latitude (DMS) <u>40° 32' 0.5" N</u>		<b>Temporary Impacts</b>		<b>Permanent Impacts</b>	
Impact Longitude (DMS) <u>-75° 48' 19.2" W</u>		Area* (in acres)	Dimensions* (in feet)	Area* (in acres)	Dimensions* (in feet)
Impacts to Waters	Stream <input type="checkbox"/> N/A	<u>0.09</u> ac	<u>48'</u> x <u>80'</u>	<u>0</u> ac	<u>0'</u> x <u>0'</u>
	Floodway <input type="checkbox"/> N/A	<u>0.02</u> ac	<u>48'</u> x <u>20'</u>	<u>0</u> ac	<u>0'</u> x <u>0'</u>
Impacts to Wetlands <input checked="" type="checkbox"/> N/A		_____ ac	_____ x _____	_____ ac	_____ x _____
Total Impacts for this location (a)		<u>0.11</u> ac		<u>0</u>	
+ Total Impacts from additional locations (b)		<u>0</u>		<u>0</u>	
Total Impacts for Project (a+b=c)		<u>0.11</u> ac		<u>0</u>	

Applicant's Name Berks County	<b>GENERAL PERMIT REGISTRATION</b>	
<b>SECTION H. CERTIFICATION</b>		
<p>I certify under penalty of law that the information provided in this permit registration is true and correct to the best of my knowledge and information and that I possess the authority to undertake the proposed action. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (If any of the information and/or plans is found to be in error, falsified, and/or incomplete, this authorization/verification may be subject to modification, suspension, or revocation in accordance with applicable regulations.)</p>		
 Signature of Applicant Ryan Hunter, Facilities Director Typed / Printed Name		20 February 2013 Date
PA Fish and Boat Commission Approval (for GP-1 only)		
Signature of Reviewer Reviewer's Typed / Printed Name Reviewer's Typed / Printed Title		Date ( ) Phone Number Email Address
<p>This General Permit shall not be effective until the owner has had their E&amp;S Plan reviewed by the appropriate Regional Office or District, obtained Federal Authorization and, where required, obtained an SLLA from DEP.</p> <p><b>AN ACKNOWLEDGED COPY OF THIS GENERAL PERMIT REGISTRATION PACKAGE AND THE E&amp;S PLAN MUST BE AVAILABLE AT THE PROJECT SITE DURING CONSTRUCTION.</b></p>		
<b>SECTION I. ACKNOWLEDGEMENT - DEP USE ONLY</b>		
Signatures authorizing acknowledgment to use and register:		
<b>A. Completeness Review:</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">             DEP / District Reviewer Signature            WILLIAM GASPARI            Reviewer's Typed / Printed Name         </div> <div style="width: 30%;">           Begin Date: 4/15/13            Incomplete Date: _____            Response Date: _____            End Date: 4/15/13         </div> <div style="width: 25%;"> <b>Completeness Status</b>  <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO         </div> </div>		
<b>B. Eligibility Review:</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">             DEP / District Reviewer Signature            WILLIAM GASPARI            Reviewer's Typed / Printed Name         </div> <div style="width: 30%;">           Begin Date: 4/15/13            Incomplete Date: _____            Response Date: _____            End Date: 4/15/13         </div> <div style="width: 25%;"> <input type="checkbox"/> Deficient - DENIED         </div> </div>		
<b>C. Decision Review:</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">             DEP / District Manager Signature            Edward J. Muzic            Reviewer's Typed / Printed Name         </div> <div style="width: 55%;"> <b>Disposition Status</b>            Begin Date: 4-24-13 <input type="checkbox"/> WITHDRAWN <input checked="" type="checkbox"/> APPROVED            End Date: 4-24-13 <input type="checkbox"/> RETURNED <input type="checkbox"/> DENIED         </div> </div>		
<b>D. Contact Information:</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           WILLIAM GASPARI            Typed / Printed Name         </div> <div style="width: 20%;">           (717) 705-6639            Phone Number         </div> <div style="width: 35%;">           W.gaspari@pa.gov            Email Address         </div> </div>		
<b>E. Permit Tracking:</b> Received 3/22/13 Acknowledged _____ SLLA required: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES PASPGP-4: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> CAT 1 <input type="checkbox"/> CAT 3 GP - 11-06-13-111 GP - _____ GP - _____ GP - _____		
Notes: _____		

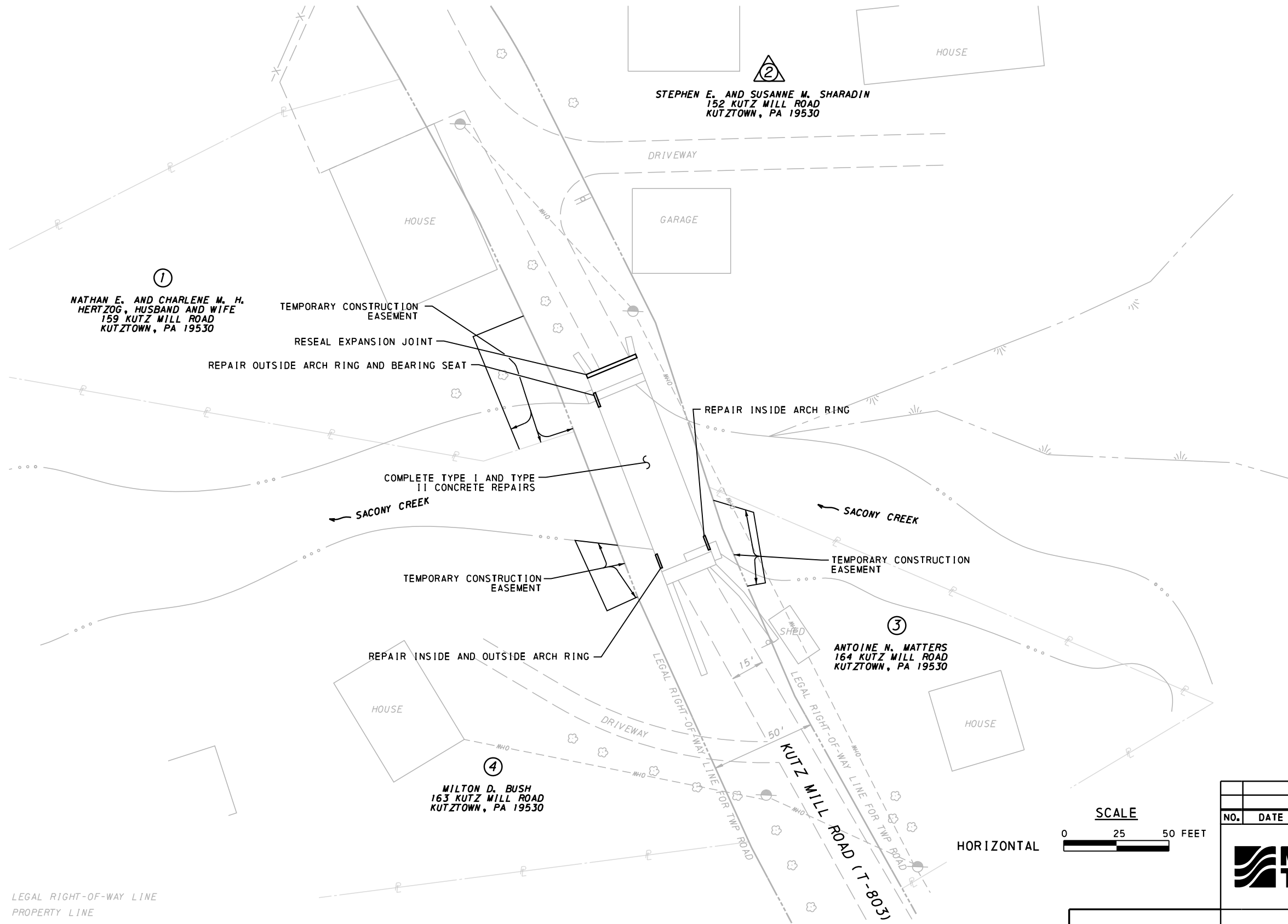
## **Appendix 2- Updated Project Plans**

\\EXFES\Public\Berks County\Guide Rail 2023-4\Microstation\Plan Set\46E\CP01.dgn  
6/10/2025

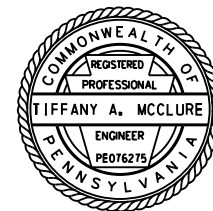


## LEGEND

	LEGAL RIGHT-OF-WAY LINE
	PROPERTY LINE
	EXISTING STREAM
	EXISTING FENCE
	EXISTING TREE
	EXISTING UTILITY POLE
	PARCEL IDENTIFICATION NUMBER
	PARCEL IDENTIFICATION NUMBER - NO TAKE

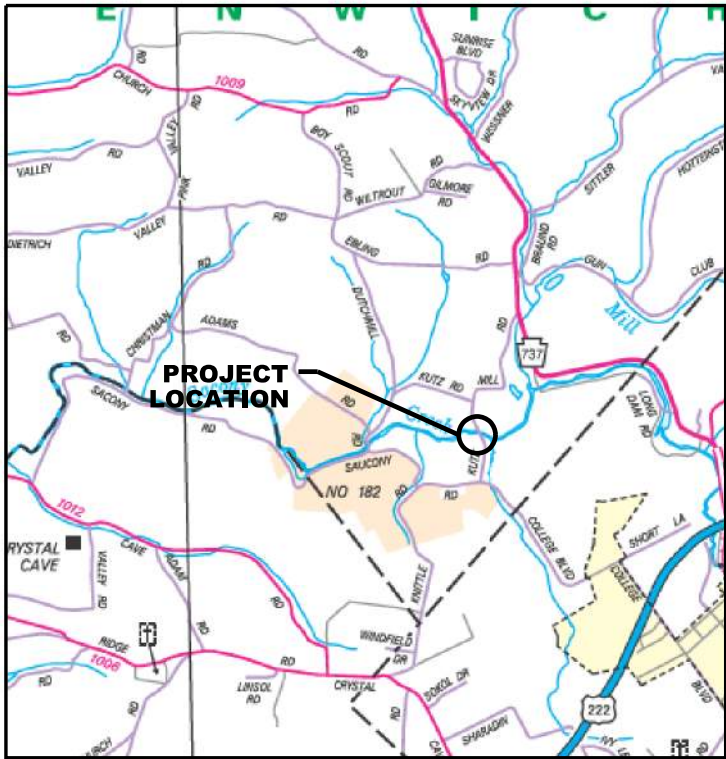


HORIZONTAL  
SCALE  
0 25 50 FEET



NO.	DATE	REVISION
<b>McCORMICK TAYLOR</b> Eagleview Corporate Center 600 Eagleview Boulevard 2nd Floor Exton, PA 19341 (610) 640-3500		
<b>BERKS COUNTY BRIDGE No. 46E</b> KUTZ MILL ROAD OVER SACONY CREEK GREENWICH TOWNSHIP BERKS COUNTY, PENNSYLVANIA		
<b>CONSTRUCTION PLAN</b>		
JOB NO.: 05368.001 SCALE: AS STATED	DRWN: MAK CHKD: TAM	DATE: 6/10/2025 SHEET: 1 OF 1

\\EXTF5\Public\Berks County\Guide Rail\ 2023-4\Microstation\Plan Set\46E\ES01.dgn  
6/10/2025



LOCATION MAP

LEGEND

- TOWNSHIP ROAD
- STATE ROUTE
- STREAM



SCALE IN FEET

•TOTAL DISTURBED AREA FOR THIS PROJECT IS 0.32 ACRES.

WATERSHED NOTES:

ACCORDING TO CHAPTER 93 WATER QUALITY STANDARDS, SACONY CREEK IS LISTED AS A TROUT STOCKED FISHERIES (TSF) AND MIGRATORY FISHERIES (MF) AND IS LISTED AS APPROVED TROUT WATERS BY THE PENNSYLVANIA FISH AND BOAT COMMISSION. THERE IS AN IN STREAM RESTRICTION FROM FEBRUARY 15 TO JUNE 1 IN WHICH CONSTRUCTION ACTIVITIES WITHIN SACONY CREEK ARE PROHIBITED.



CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES THREE (3) WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND TEN (10) WORKING DAYS FOR DESIGN PHASE - STOP, CALL 1-800-242-1776

PA1  
System Inc.  
GREENWICH TOWNSHIP, BERKS COUNTY

NOTE: FINAL PA ONE CALL TO BE PERFORMED PRIOR TO THE START OF WORK BY PROJECT OWNER AS A PART OF THE FINAL UTILITY COORDINATION NECESSARY TO COMPLETE THE PROJECT.

SEEDING AND SOIL SUPPLEMENT SPECIFICATIONS								
FORMULA AND SPECIES	SEEDING RATE LBS./1000 S.Y.	SOIL SUPPLEMENTS		MULCHING LBS./1000 S.Y.	% BY MASS	MINIMUM %		MAX. % WEED SEED
		LIMESTONE LBS./1000 S.Y.	FERTILIZER LBS./1000 S.Y.			PURITY	GERMINATION	
FORMULA B RESIDENTIAL MIX **	42.0 TOTAL **	800	140 *	1200 (STRAW)	**	**	**	**
FORMULA C RESIDENTIAL MIX **	12.0 TOTAL **	800	140 *	1200 (STRAW)	**	**	**	**
FORMULA T TEMPORARY GRASS MIX **	6.0 TOTAL **	800	0	1200 (HAY)	**	**	**	**

- APPLY SLOW-RELEASE NITROGEN FERTILIZER AS SPECIFIED IN PENNDOT PUB. 408, SECTION 804.3(C)
- REFER TO PENNDOT PUB. 408, CHANGE 7, SECTION 804.2(C) , TABLE B, SEEDING REQUIREMENTS

CONSTRUCTION SEQUENCE:

1. CONTACT BERKS COUNTY CONSERVATION DISTRICT SEVEN (7) DAYS IN ADVANCE OF CONSTRUCTION TO SCHEDULE PRE-CONSTRUCTION MEETING.

2. DELINEATE "LIMITS OF DISTURBANCE" IN THE FIELD PRIOR TO ANY EARTH DISTURBANCE.

3. CLEAR AND GRUB AS NECESSARY.

PHASE 1

1. INSTALL PHASE 1 E&S MEASURES AT THE SOUTH SIDE OF THE STRUCTURE AS INDICATED ON THE PLAN SHEET 4 OF 4.

2. CONSTRUCT PHASE 1 TEMPORARY WATER DIVERSION SYSTEM AROUND THE SOUTH ABUTMENT OF THE EXISTING STRUCTURE AS SHOWN ON THE PLANS. THIS WILL BE DONE TO PREVENT DEBRIS AND SEDIMENT FROM ENTERING WATERS OF THE COMMONWEALTH WHILE WORK IS BEING COMPLETED.

3. INSTALL PHASE 1 PUMPED WATER FILTER BAG TO INTAKE AND CLEAN SEDIMENT LADEN WATER IN THE WORK AREA. DISCHARGE CLEAN WATER IN AN UNDISTURBED AREA AND ALLOW CLEAN WATER TO FLOW INTO CREEK DOWNSTREAM OF THE WORK AREA.

4. REPAIR THE WEST INSIDE AND OUTSIDE ARCH RING AND EAST INSIDE ARCH RING.

5. REMOVE TEMPORARY WATER DIVERSION SYSTEM. DISPOSE OF DEBRIS AND WASTE APPROPRIATELY.

PHASE 2

1. INSTALL PHASE 2 E&S MEASURES AT THE NORTH SIDE OF THE STRUCTURE AS INDICATED ON THE PLAN SHEET 4 OF 4.

2. CONSTRUCT PHASE 2 TEMPORARY WATER DIVERSION SYSTEM AROUND THE NORTH ABUTMENT OF THE EXISTING STRUCTURE AS SHOWN ON THE PLANS. THIS WILL BE DONE TO PREVENT DEBRIS AND SEDIMENT FROM ENTERING WATERS OF THE COMMONWEALTH WHILE WORK IS BEING COMPLETED.

3. REPAIR THE WEST OUTSIDE ARCH RING AND BEARING SEAT.

4. REMOVE TEMPORARY WATER DIVERSION SYSTEM. DISPOSE OF DEBRIS AND WASTE APPROPRIATELY.

5. COMPLETE TYPE I AND TYPE II CONCRETE REPAIRS THROUGHOUT THE DECK.

6. RESEAL THE DECK JOINTS.

7. RESTORE ALL DISTURBED AREAS TO ITS ORIGINAL CONDITION, PLACE TOPSOIL, SEE, MULCH, AND EROSION CONTROL BLANKET AS NECESSARY TO STABILIZE RESORED GROUND.

8. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH STORM EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN-OUT, REPAIR, REPLACEMENT, RE-GRADING, RE-SEEDING, AND RE-MULCHING, MUST BE PERFORMED IMMEDIATELY.

9. AFTER FINAL STABILIZATION HAS BEEN ACHIEVED, EROSION AND SEDIMENT CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF CONTROLS MUST BE STABILIZED BY SEEDING AND MULCHING APPROPRIATELY.

GENERAL NOTES:

AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITY, INVITE ALL CONTRACTORS INVOLVED IN THAT ACTIVITY, THE LANDOWNERS, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN DESIGNER AND THE BERKS COUNTY CONSERVATION DISTRICT TO A PRE-CONSTRUCTION MEETING. BERKS COUNTY CONSERVATION DISTRICT TELEPHONE NUMBER: (610) 372-4657.

PROCEED WITH ALL EARTH DISTURBANCE ACTIVITIES IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWING. DEVIATION FROM THAT SEQUENCE REQUIRES WRITTEN APPROVAL FROM THE BERKS COUNTY CONSERVATION DISTRICT OR BY PA DEP PRIOR TO IMPLEMENTATION.

THE CONTRACTOR IS ADVISED TO BECOME FAMILIAR WITH THE PROVISIONS OF APPENDIX 64, "EROSION CONTROL RULES AND REGULATIONS", "PROTECTION OF NATURAL RESOURCES", ARTICLE 11, "WATER RESOURCES", AND CHAPTER 102, "EROSION CONTROL".

MINIMIZE ALL EROSION AND AIR/WATER POLLUTION THROUGHOUT CONSTRUCTION OPERATIONS. FOLLOW ALL FEDERAL, STATE, AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT.

IT IS CRUCIAL THAT THE CONTRACTOR STAYS WITHIN THE DESIGNATED CONSTRUCTION AREA AND FOLLOWS PROPER EROSION CONTROL METHODS.

EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.

ALL PUMPING OF SEDIMENT-LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER UNDISTURBED AREAS. ADDRESS ALL AREAS REQUIRING INTERIM OR FINAL STABILIZATION WITHIN SEVENTY-TWO (72) HOURS OF COMPLETION OF DISTURBANCE.

PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE HANDLED IN A RESPONSIBLE AND TIMELY MANNER.

OBTAIN E&SPC PLAN APPROVAL FOR ALL OFF-SITE WASTE AND BORROW AREAS FROM THE BERKS COUNTY CONSERVATION DISTRICT OR PA DEP, AND FULLY IMPLEMENT THE PLAN PRIOR TO ACTIVATING THE SITE. REMOVE AS LITTLE NATURAL VEGETATIVE COVER AS NECESSARY TO ACHIEVE PROPER GRADING. PROTECT EXISTING TREES AND SHRUBS TO ELIMINATE UNNECESSARY DAMAGE.

TOPSOIL AND TREES, INCLUDING ROOTS, SHALL BE REMOVED FROM AREAS PROPOSED FOR GRADING. TOPSOIL SHALL BE STOCKPILED AND TEMPORARILY SEEDDED UNTIL AREAS HAVE BEEN GRADED. ONCE THE AREA HAS REACHED FINAL GRADE THE TOPSOIL CAN BE REDISTRIBUTED FOR APPLICATION OF PERMANENT SEEDING. DO NOT OPERATE ANY EQUIPMENT IN THE CREEK.

REMOVE ALL DEBRIS FROM THE CREEK WHICH MAY BE DEPOSITED DURING THE SCHEDULED MAINTENANCE WORK.

GENERAL NOTES (CONTINUED):

ANY COMPOST FILTER SOCKS THAT HAVE BEEN OVERTOPPED OR UNDERMINED SHALL BE REMOVED AND REPLACED WITH A ROCK FILTER IMMEDIATELY. THEY SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL.

ALL SURROUNDING STREETS ARE TO BE KEPT CLEAN OF ALL DROPPINGS AND TRACKINGS.

WHENEVER SEDIMENTATION IS CAUSED BY STRIPPING VEGETATION, REGRADING OR DEVELOPMENT IN GENERAL, IT IS IMPORTANT TO REMOVE SEDIMENT FROM ALL ADJOINING PROPERTIES, SURFACE, DRAINAGE SYSTEMS AND WATER COURSES IMMEDIATELY.

ALL SEEDDED AREAS WHICH HAVE BEEN WASHED AWAY WILL BE FILLED, RESEEDDED AND REMULCHED IMMEDIATELY.

ENSURE THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL.

ALL BUILDING MATERIAL AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED IN ACCORDANCE WITH DEP'S SOLID WASTE REGULATIONS (25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ.), AND/OR ANY ADDITIONAL LOCAL, STATE OR FEDERAL REGULATIONS. NO BUILDING MATERIALS (USED OR UNUSED) OR WASTE MATERIALS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE.

STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED MUST BE STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MAY BE STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING SPECIFICATIONS. DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL BE NOT REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS.

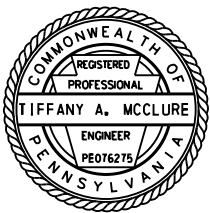
DIVERSIONS, CHANNELS, SEDIMENTATION BASINS, SEDIMENT TRAPS, AND STOCKPILES MUST BE STABILIZED IMMEDIATELY.

AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A 100% (PERCENT) VEGETATIVE OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.


IF UNFORESEEN CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR MUST NOTIFY THE COUNTY IN ACCORDANCE WITH PUBLICATION 408, SPECIFICATIONS, SECTION 110.02.

REMEDY UNFORESEEN EROSION CONDITIONS WHICH DEVELOP DURING CONSTRUCTION AND PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUN-OFF AND/OR SEDIMENT DISPLACEMENT. GIVE SPECIAL ATTENTION TO FROZEN SLOPES. HOLD STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY EROSION PROBLEMS.

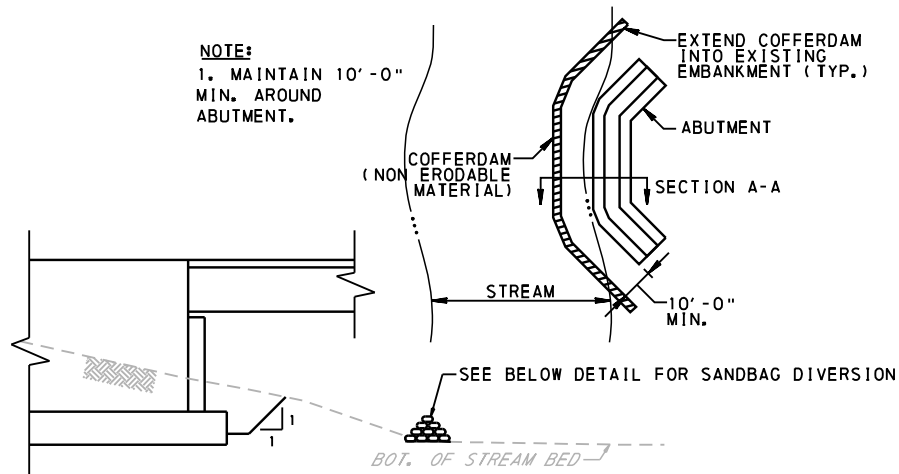
IF FURTHER ASSISTANCE IS NEEDED FOR THE PROPER IMPLEMENTATION OF THIS PLAN CONTACT THE BERKS COUNTY CONSERVATION DISTRICT AT (610) 372-4655.



NOTE: A COPY OF THIS PLAN IS REQUIRED, BY LAW, TO BE ON-SITE AT ALL TIMES DURING CONSTRUCTION.

NO.	DATE	REVISION
 <div>Eagleview Corporate Center 600 Eagleview Boulevard 2nd Floor Exton, PA 19341 (610) 640-3500</div>		
BERKS COUNTY BRIDGE No. 46E KUTZ MILL ROAD OVER SACONY CREEK GREENWICH TOWNSHIP BERKS COUNTY, PENNSYLVANIA		
EROSION AND SEDIMENT POLLUTION CONTROL PLANS		
JOB NO.: 05368.001 SCALE: N. T. S.	DRWN: MAK CHKD: TAM	DATE: 6/10/2025 SHEET: 1 OF 4





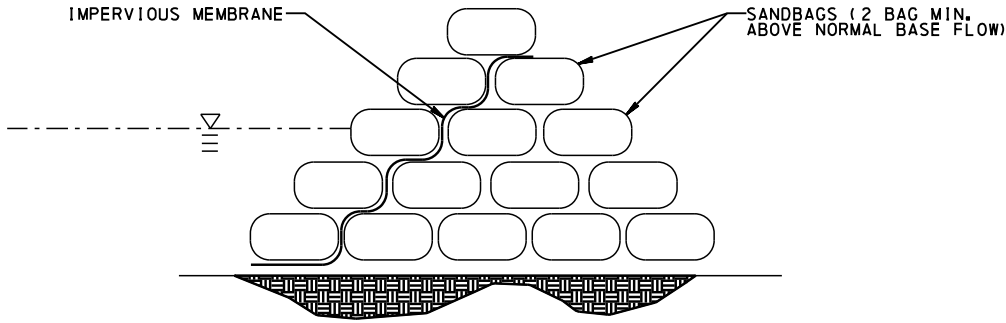
SECTION A-A  
NOT TO SCALE

### TEMPORARY WATER DIVERSION SYSTEM

NOT TO SCALE  
(ITEM NO 9000-0001)

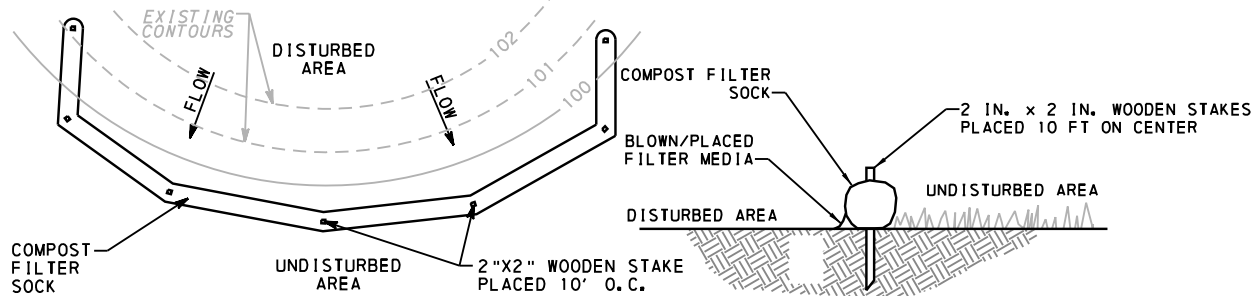
NOTES:

1. INSTALL THE COFFERDAM FOR THE PURPOSE OF EROSION CONTROL WHEN REPAIRING THE EXISTING SUBSTRUCTURE AND PERFORMING REPAIRS.
2. INSTALL THE COFFERDAM FROM UPSTREAM TO DOWNSTREAM.
3. DISPOSE OF ALL EXCAVATED MATERIALS IN AN APPROVED DISPOSAL AREA UNLESS OTHERWISE APPROVED ON THE PLANS.
4. WATER THAT ACCUMULATES BETWEEN THE COFFERDAMS WILL BE PUMPED TO THE SEDIMENT FILTER BAG.



### SANDBAG WATER DIVERSION DETAIL

NOT TO SCALE



PLAN VIEW

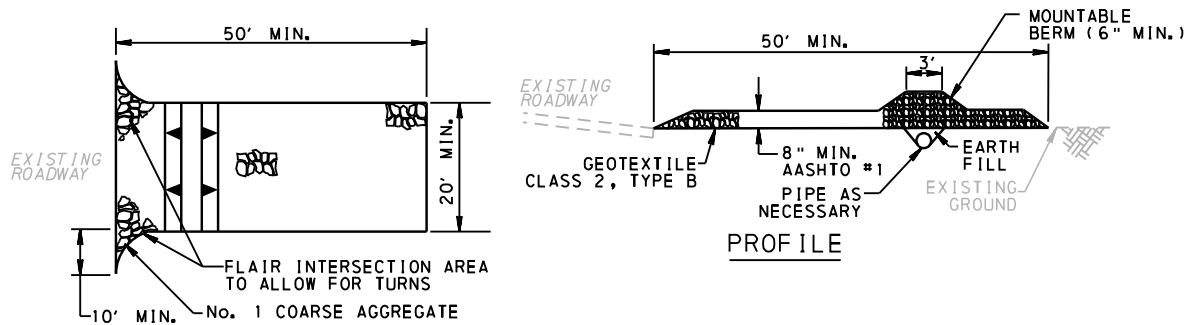
SECTION

### COMPOST FILTER SOCK, 12" DIAMETER

NOT TO SCALE  
(ITEM No. 0867-0012)

NOTES:

1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
4. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
5. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
6. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.
7. IF COMPOST FILTER SOCKS FAIL, REMOVE FILTER SOCK AND INSTALL HEAVY DUTY SILT BARRIER FENCE.



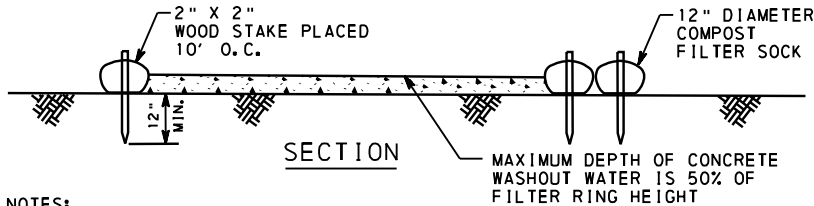
### ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE  
(ITEM No. 0849-0010)

NOTES:

IF ROCK CONSTRUCTION ENTRANCE IS NEEDED, THE CONTRACTOR IS TO ADHERE TO THE FOLLOWING STANDARD NOTES:

1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
2. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
3. MOUNTABLE BERM MUST BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
4. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS MUST BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.



SECTION


NOTES:

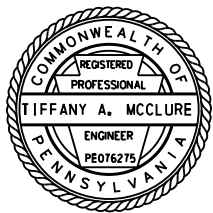
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
2. CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
3. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY.

### CONCRETE WASHOUT

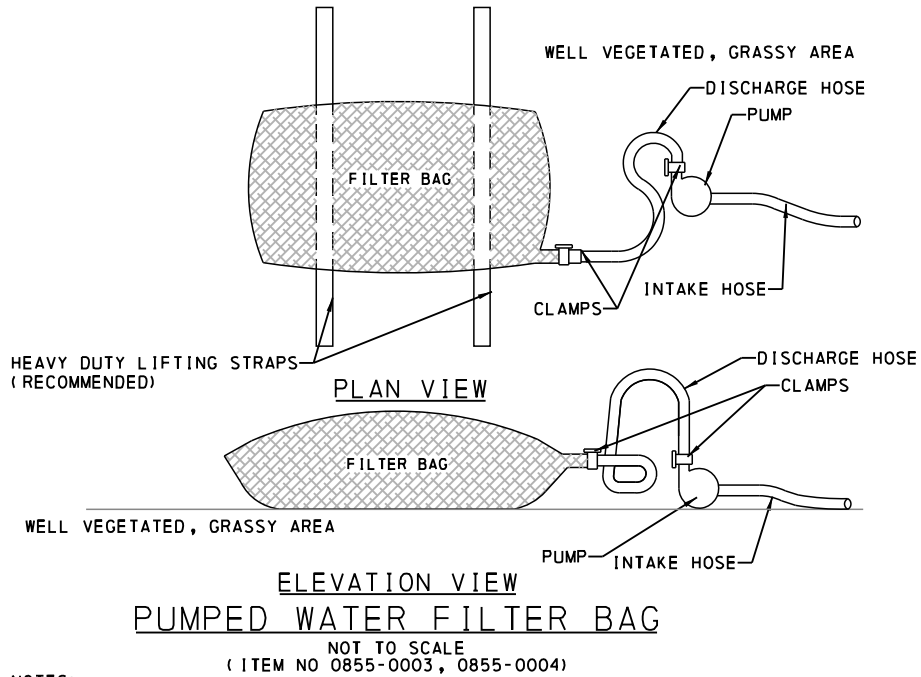
NOT TO SCALE  
(INCIDENTAL TO ALL CONCRETE ITEMS)

NOTE: A COPY OF THIS PLAN IS REQUIRED, BY LAW, TO BE ON-SITE AT ALL TIMES DURING CONSTRUCTION.

NO.	DATE	REVISION
 <b>McCORMICK TAYLOR</b> Eagleview Corporate Center 600 Eagleview Boulevard 2nd Floor Exton, PA 19341 (610) 640-3500		
<b>BERKS COUNTY BRIDGE No. 46E</b> KUTZ MILL ROAD OVER SACONY CREEK GREENWICH TOWNSHIP BERKS COUNTY, PENNSYLVANIA		
<b>EROSION AND SEDIMENT POLLUTION CONTROL PLANS</b>		
JOB NO.: 05368.001 SCALE: N. T. S.	DRWN: MAK CHKD: TAM	DATE: 6/10/2025 SHEET: 2 OF 4





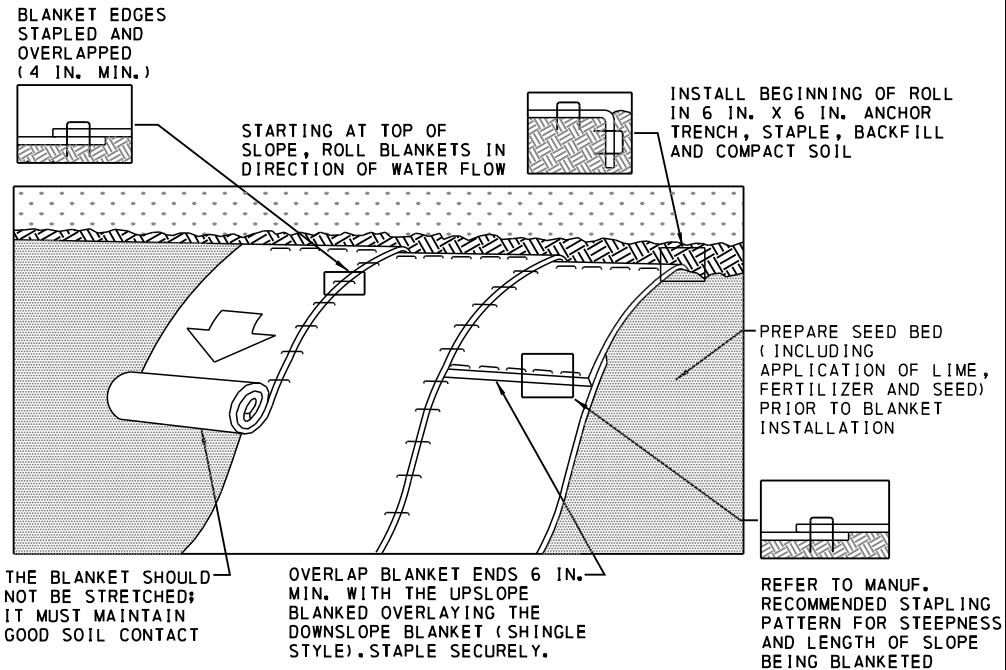


- NOTES:**
1. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. WHICH RETAINS ALL SEDIMENT PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL RETAIN SEDIMENT PARTICLES LARGER THAN SIEVE SIZE #80.
  2. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
  3. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
  4. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
  5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
  6. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

- NOTES:**
- FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.
- FABRIC WIDTH SHALL BE 30 IN. MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.
- SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.
- ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (STANDARD CONSTRUCTION DETAIL # 4-6).
- FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

**STANDARD SILT FENCE, (18" HIGH)**


NOT TO SCALE  
(ITEM NO 0865-0001)

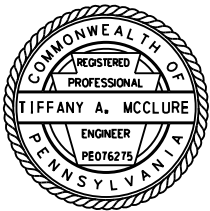


**TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT 2D**

- NOTES:**
- NOT TO SCALE  
ITEM NO 0806-0113
1. SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
  2. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
  3. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS, AND GRASS.
  4. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
  5. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
  6. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

**NOTE:** A COPY OF THIS PLAN IS REQUIRED, BY LAW, TO BE ON-SITE AT ALL TIMES DURING CONSTRUCTION.

NO.	DATE	REVISION
<div><div></div><div>Eagleview Corporate Center 600 Eagleview Boulevard 2nd Floor Exton, PA 19341 (610) 640-3500</div></div>		
<div><div>BERKS COUNTY BRIDGE No. 46E</div><div>KUTZ MILL ROAD OVER SACONY CREEK GREENWICH TOWNSHIP BERKS COUNTY, PENNSYLVANIA</div></div>		
<div>EROSION AND SEDIMENT POLLUTION CONTROL PLANS</div>		
JOB NO.: 05368.001 SCALE: N. T. S.	DRWN: MAK CHKD: TAM	DATE: 6/10/2025 SHEET: 3 OF 4

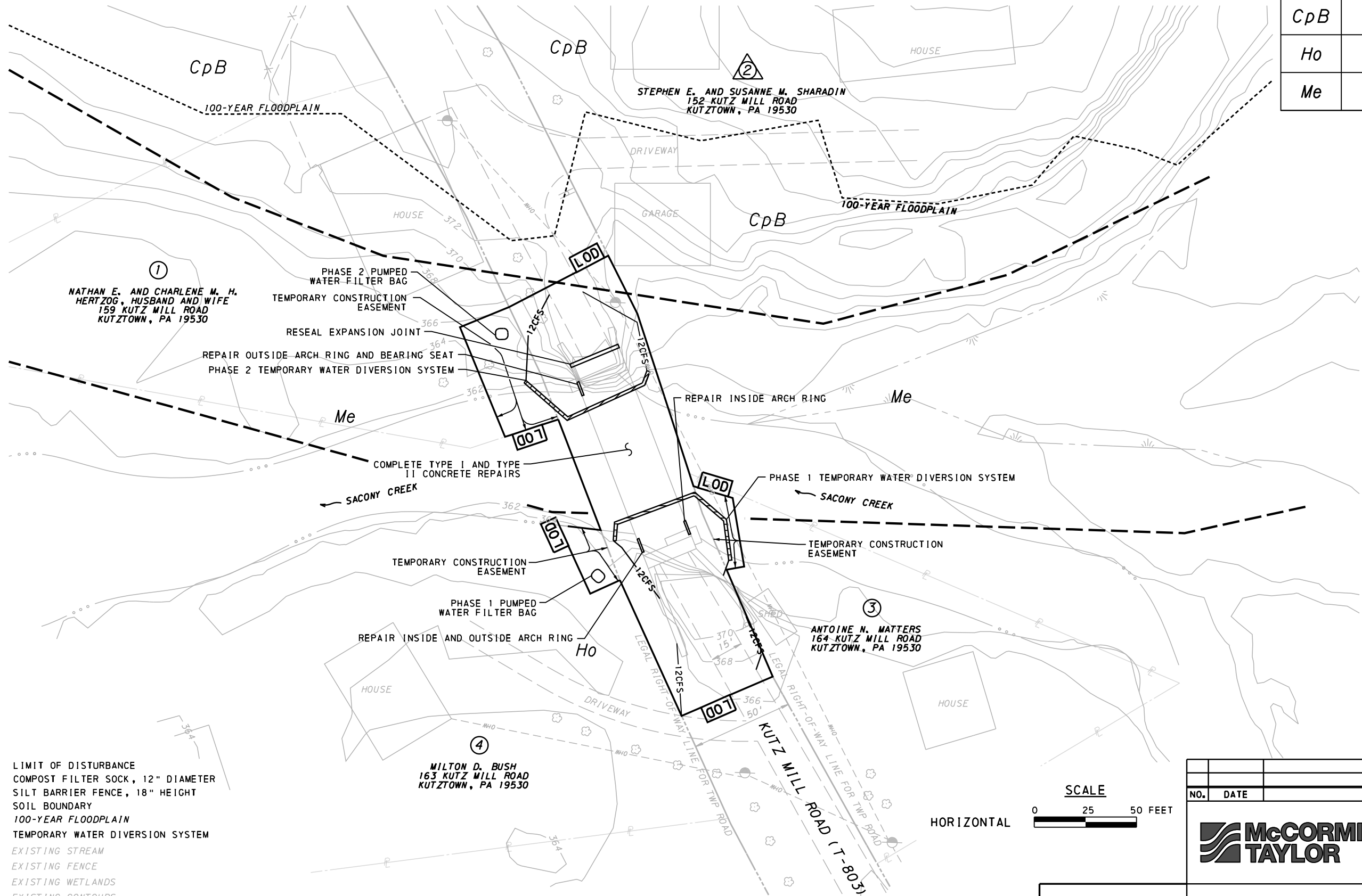
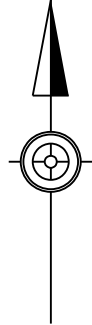


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6/10/2025

LEGEND

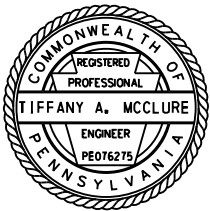
	LIMIT OF DISTURBANCE
	COMPOST FILTER SOCK, 12" DIAMETER
	SILT BARRIER FENCE, 18" HEIGHT
	SOIL BOUNDARY
	100-YEAR FLOODPLAIN
	TEMPORARY WATER DIVERSION SYSTEM
	EXISTING STREAM
	EXISTING FENCE
	EXISTING WETLANDS
	EXISTING CONTOURS
	LEGAL RIGHT-OF-WAY LINE
	PROPERTY LINE
	EXISTING TREE
	EXISTING UTILITY POLE
	PARCEL IDENTIFICATION NUMBER
	PARCEL IDENTIFICATION NUMBER - NO TAKE

LEGEND OF SOIL TYPES	
SYMBOL	NAME
<i>CpB</i>	COMLY SILT LOAM, 3 TO 8 PERCENT SLOPES
<i>Ho</i>	HOLLY SILT LOAM
<i>Me</i>	MIDDLEBURY SILT LOAM



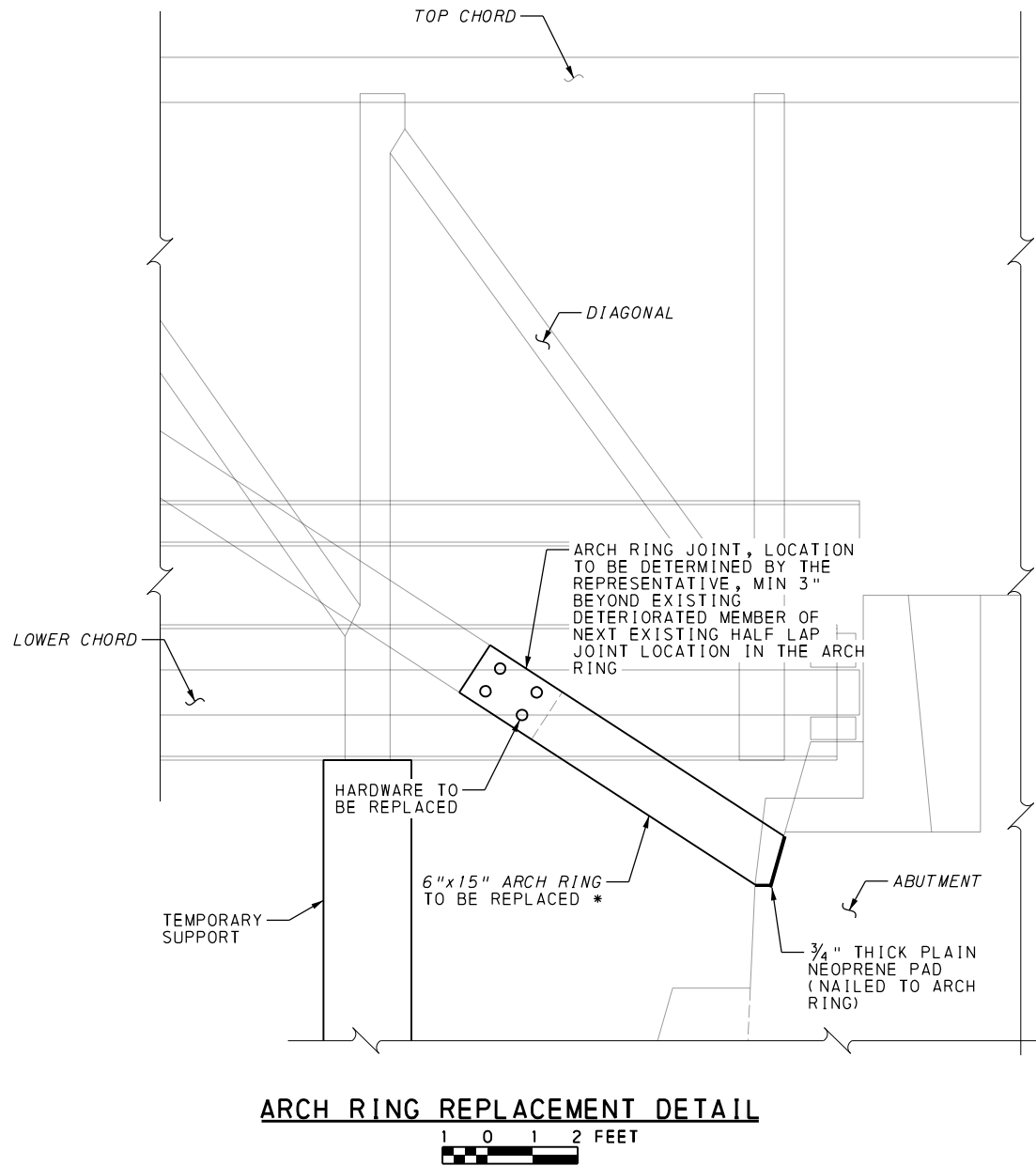
SCALE

HORIZONTAL 0 25 50 FEET



NO.	DATE	REVISION
BERKS COUNTY BRIDGE No. 46E KUTZ MILL ROAD OVER SACONY CREEK GREENWICH TOWNSHIP BERKS COUNTY, PENNSYLVANIA		
EROSION AND SEDIMENT POLLUTION CONTROL PLANS		
JOB NO.: 05368.001	DRWN: MAK	DATE: 6/10/2025
SCALE: AS STATED	CHKD: TAM	SHEET: 4 OF 4

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3/13/2024

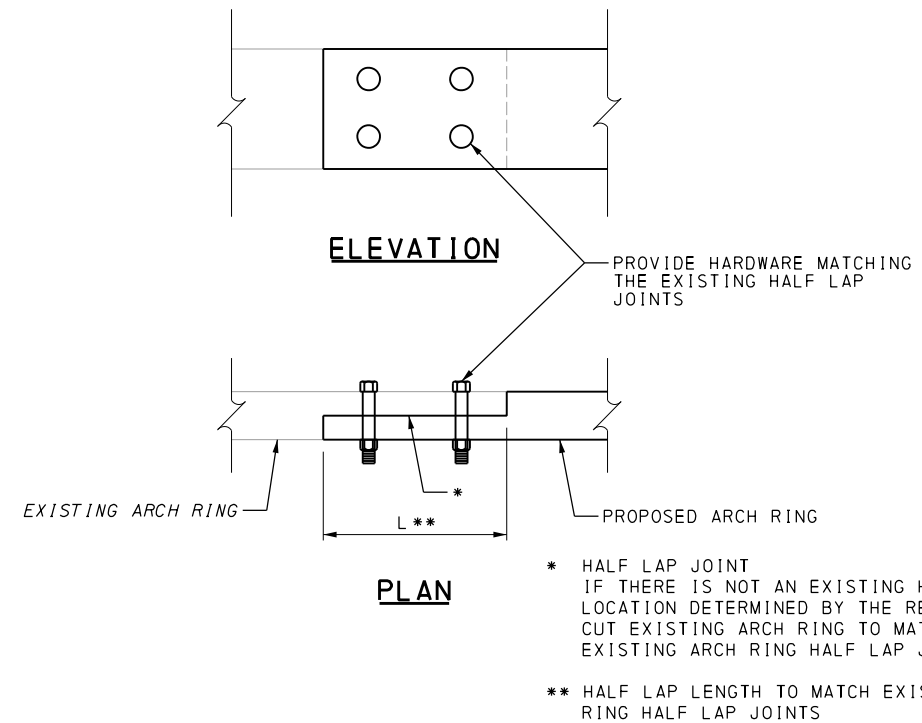


NOTE: CONCRETE SLAB NOT SHOWN FOR CLARITY.

\* IT IS ANTICIPATED THAT FOUR TOTAL ARCH RINGS WILL BE REPLACED AT THREE LOCATIONS:

ONE ARCH RING IN THE SE CORNER  
ONE ARCH RING IN THE NW CORNER  
TWO ARCH RINGS IN THE SW CORNER

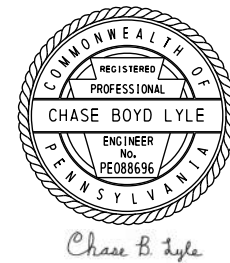
IT WILL BE NECESSARY TO PLACE A TEMPORARY SUPPORT AT THE VERTICAL MEMBER PRIOR TO THE REPLACEMENT OF THE ARCH RINGS. THIS TEMPORARY SUPPORT SHALL BE CAPABLE OF SUPPORTING 60 TONS AND SHALL BE ADJUSTABLE IN HEIGHT BY USING JACKS. DETAILS OF THIS BENT MUST BE APPROVED BY THE ENGINEER PRIOR TO THE START OF THE WORK. TIMBER TRUSS AND TEMPORARY SUPPORT ARE NOT REQUIRED TO CARRY LIVE LOAD.



**HALF LAP JOINT DETAILS**

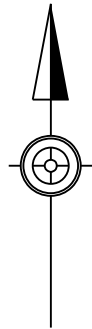
1 0 1 2 FEET

REVISION		
NO.	DATE	REVISION
<div><div><div><div><div><span></span></div><div><b>McCORMICK TAYLOR</b></div></div></div><div>Eagleview Corporate Center 600 Eagleview Boulevard 2nd Floor Exton, PA 19341 (610) 640-3500</div></div></div>		
<b>BERKS COUNTY BRIDGE No. 46E</b> KUTZ MILL ROAD OVER SACONY CREEK GREENWICH TOWNSHIP BERKS COUNTY, PENNSYLVANIA		
<b>STRUCTURE REPAIR DETAILS</b>		
JOB NO.: 06066.004 SCALE: AS STATED	DRWN: SMC CHKD: CBL	DATE: 1/16/2024 SHEET: 1 OF 1



### **Appendix 3- Revised ARIT table and Impact Plan**

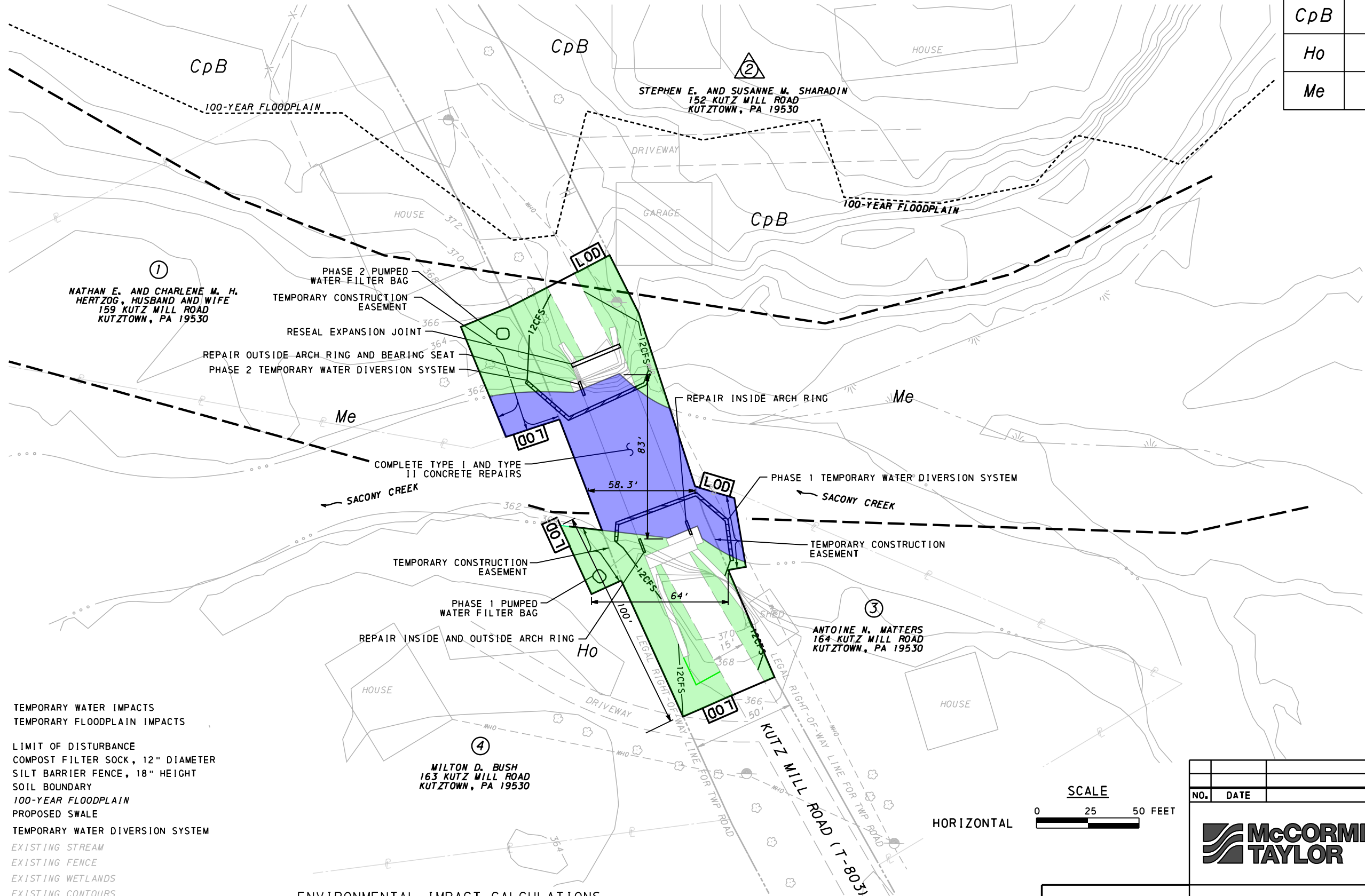
\\EXFES\Public\Berks County\Guide Rail 2023-4\Microstation\Plan Set\46E\Impact Map.dgn  
6/17/2025



LEGEND OF SOIL TYPES	
SYMBOL	NAME
CpB	COMLY SILT LOAM, 3 TO 8 PERCENT SLOPES
Ho	HOLLY SILT LOAM
Me	MIDDLEBURY SILT LOAM

LEGEND

	TEMPORARY WATER IMPACTS
	TEMPORARY FLOODPLAIN IMPACTS
	LIMIT OF DISTURBANCE
	COMPOST FILTER SOCK, 12" DIAMETER
	SILT BARRIER FENCE, 18" HEIGHT
	SOIL BOUNDARY
	100-YEAR FLOODPLAIN
	PROPOSED SWALE
	TEMPORARY WATER DIVERSION SYSTEM
	EXISTING STREAM
	EXISTING FENCE
	EXISTING WETLANDS
	EXISTING CONTOURS
	LEGAL RIGHT-OF-WAY LINE
	PROPERTY LINE
	EXISTING TREE
	EXISTING UTILITY POLE
	PARCEL IDENTIFICATION NUMBER
	PARCEL IDENTIFICATION NUMBER - NO TAKE

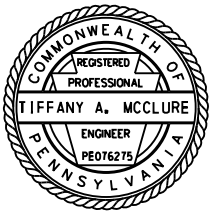


ENVIRONMENTAL IMPACT CALCULATIONS

TYPE:	TEMPORARY (SF)	TEMPORARY (AC)	TEMPORARY (LF)	PERMANENT (SF)	PERMANENT (AC)	PERMANENT (LF)
WATERS	4843.69	0.111	83.0 x 58.3	0.0000	0.000	0.000
100 YEAR FLOODPLAIN	6384.75	0.146	100.0 x 64.0	0.0000	0.000	0.000
WETLANDS	0.0000	0.0000	0.000	0.0000	0.000	0.000

AREA OF DISTURBANCE FOR THIS PROJECT IS 0.32 ACRES

SCALE



Eagleview Corporate Center  
600 Eagleview Boulevard  
2nd Floor  
Exton, PA 19341  
(610) 640-3500

BERKS COUNTY BRIDGE No. 46E

KUTZ MILL ROAD OVER SACONY CREEK  
GREENWICH TOWNSHIP  
BERKS COUNTY, PENNSYLVANIA

AQUATIC RESOURCE IMPACT MAP

JOB NO.:	05368.001	DRWN:	MAK	DATE:	6/17/2025
SCALE:	AS STATED	CHKD:	TAM	SHEET:	1 OF 1

TOTAL acres of waters impacted

**Appendix 4- Updated PNDI, PFBC letter and USFWS letter and Negative Phase I  
Bog Turtle Habitat Assessment**

## 1. PROJECT INFORMATION

Project Name: **Berks County Bridge 46E Kutz Mill Maintenance Project**

Date of Review: **2/9/2024 08:03:22 AM**

Project Category: **Transportation, Structures and Bridges, Bridge Preservation, Restoration and/or Rehabilitation**

Project Area: **0.21 acres**

County(s): **Berks**

Township/Municipality(s): **GREENWICH TOWNSHIP**

ZIP Code:

Quadrangle Name(s): **KUTZTOWN**

Watersheds HUC 8: **Schuylkill**

Watersheds HUC 12: **Saony Creek**

Decimal Degrees: **40.533625, -75.805404**

Degrees Minutes Seconds: **40° 32' 1.495" N, 75° 48' 19.4536" W**

## 2. SEARCH RESULTS



Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	<b>Potential Impact</b>	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
U.S. Fish and Wildlife Service	<b>Potential Impact</b>	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.



## Berks County Bridge 46E Kutz Mill Maintenance Project

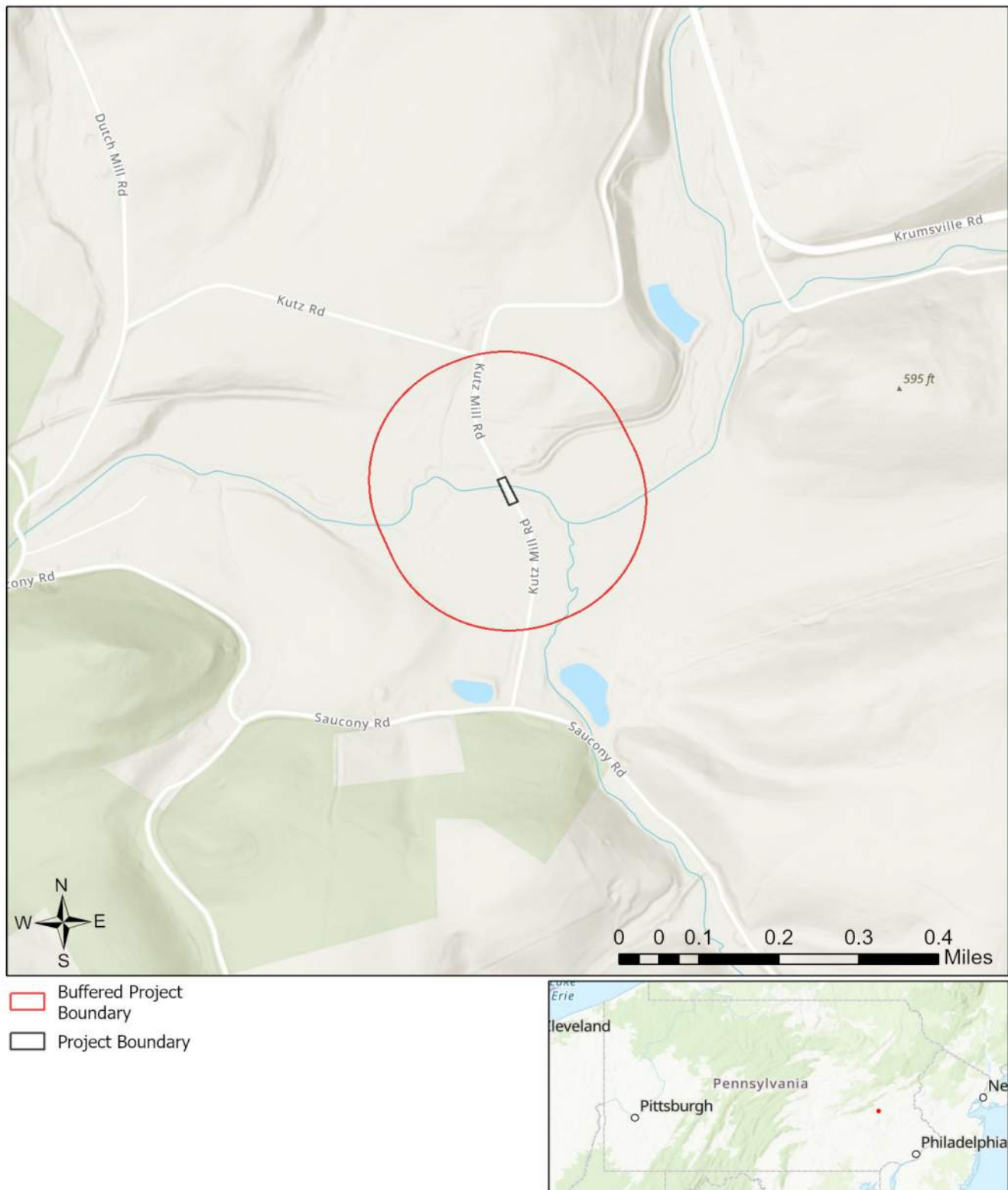


-  Buffered Project Boundary
-  Project Boundary



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

## Berks County Bridge 46E Kutz Mill Maintenance Project



## RESPONSE TO QUESTION(S) ASKED

**Q1:** Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting ONE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

**Your answer is:** Someone qualified to identify and delineate wetlands (holding a natural resource degree or equivalent work experience) has investigated the site, and determined that wetlands ARE located in or within 300 feet of the project area. (A written report from the wetland specialist, and detailed project maps should document this.)

**Q2:** Is tree removal, tree cutting or forest clearing necessary to implement all aspects of this project?

**Your answer is:** No

**Q3:** How many acres of woodland, forest, forested fencerows and trees will be cut, cleared, removed, disturbed or flooded (inundated) as a result of carrying out all aspects or phases of this project? [Round acreages UP to the nearest acre (e.g., 0.2 acres = 1 acre).]

**Your answer is:** zero acres

### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

##### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Department of Conservation and Natural Resources

##### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Fish and Boat Commission

##### RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

**PFBC Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)



Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

## U.S. Fish and Wildlife Service

### RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload\* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

\*If information was requested by USFWS, applicants must email, or mail, project information to [IR1\\_ESPenn@fws.gov](mailto:IR1_ESPenn@fws.gov) to initiate a review. USFWS will not accept uploaded project materials.

### Check-list of Minimum Materials to be submitted:

\_\_\_\_ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

\_\_\_\_ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

### In addition to the materials listed above, USFWS REQUIRES the following

\_\_\_\_ **SIGNED** copy of a Final Project Environmental Review Receipt

### The inclusion of the following information may expedite the review process.

\_\_\_\_ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

\_\_\_\_ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

## 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

## 6. AGENCY CONTACT INFORMATION

### PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section  
400 Market Street, PO Box 8552  
Harrisburg, PA 17105-8552  
Email: [RA-HeritageReview@pa.gov](mailto:RA-HeritageReview@pa.gov)

### PA Fish and Boat Commission

Division of Environmental Services  
595 E. Rolling Ridge Dr., Bellefonte, PA 16823  
Email: [RA-FBPACENOTIFY@pa.gov](mailto:RA-FBPACENOTIFY@pa.gov)

### U.S. Fish and Wildlife Service

Pennsylvania Field Office  
Endangered Species Section  
110 Radnor Rd; Suite 101  
State College, PA 16801  
Email: [IR1\\_ESPenn@fws.gov](mailto:IR1_ESPenn@fws.gov)  
NO Faxes Please

### PA Game Commission

Bureau of Wildlife Management  
Division of Environmental Review  
2001 Elmerton Avenue, Harrisburg, PA 17110-9797  
Email: [RA-PGC\\_PNDI@pa.gov](mailto:RA-PGC_PNDI@pa.gov)  
NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

Name: Christopher Heil  
Company/Business Name: McCormick Taylor  
Address: 600 Eagleview Blvd, 2nd Floor  
City, State, Zip: Exton, PA, 19341  
Phone: ( 484 ) 252-2840 Fax: ( )  
Email: cjespersen@mccormicktaylor.com

## 8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Christopher Heil  
applicant/project proponent signature

2/12/2024  
date

**U.S. FISH AND WILDLIFE SERVICE**  
110 Radnor Road, Suite 101, State College, PA 16801

This responds to your inquiry about a PNDI Internet Database search that resulted in a potential conflict with a federally listed, proposed or candidate species.

**PROJECT LOCATION INFORMATION**County: BerksTownship: GreenwichUSFWS COMMENTS ☒ EMAILED ☐ MAILEDTo: Christopher Heil**MISC INFORMATION**Date received by FWS: February 23, 2024Email: cjheil@mccormicktaylor.comAffiliation: McCormick Taylor, Inc.**SPECIFIC PROJECT:** Berks County Bridge 46E Kutz Mill Maintenance Project**FISH AND WILDLIFE SERVICE COMMENT(s):**☐ **NO EFFECT**

Except for occasional transient species, no federally listed, proposed or candidate species under our jurisdiction are known or likely to exist in the project area. Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered.

☒ **NOT LIKELY TO ADVERSELY AFFECT**

The federally listed bog turtle, northern long-eared bat, tricolored bat occurs or may occur in or near the project area. However, based on our review of the information provided, including the project description and location ( A Phase 1 survey by a Qualified Bog Turtle Surveyor found no presence of potential bog turtle habitat within 300 feet of the proposed bridge maintenance project. No tree cutting or removal is proposed. ),

no adverse effects to this species are likely to occur. If there is any change in the location, scale, scope, layout or design of the project, further consultation or coordination with the Service will be necessary.

The above determination is valid for two years from the date of this letter. In addition, this response relates only to federally listed, proposed, and candidate species under our jurisdiction, based on an office review of the proposed project's location and anticipated impacts. No field inspection of the project area has been conducted by this office. *Please reference the above PNDI # and USFWS Project # in any future correspondence regarding this project.*

This review was conducted by the biologist listed below. He/she can be contacted at 814-206-(Extension).

☐ Pamela Shellenberger (x7459)  
☐ Melinda Turner (x7449)☐ Nicole Ranalli (x7455)  
☐ Jennifer Kagel (x7451)☐ Richard Novak (x7477)  
☒ Sze Wing Yu (x7461)

SIGNATURE:

---

Supervisor, Pennsylvania Field Office



June 30, 2025

**IN REPLY REFER TO**

SIR# 59317

McCormick Taylor, Inc.  
Heather Martin  
1818 Market Street  
Philadelphia, Pennsylvania 19103

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species  
PNDI Search No. 797192\_1  
Berks County Bridge 46E Kutz Mill Maintenance Project  
Greenwich Township: BERKS County**

Dear Heather Martin:

Per my request, you supplied additional information and photographs of the project site. According to the additional information, the project will not impact waterways, wetlands or soils on the project site that are consistent with those known to support the Bog Turtle (*Glyptemys muhlenbergii*) or Northern Red-bellied Cooter (*Pseudemys rubriventris*). Therefore, I do not foresee the proposed project resulting in adverse impacts to the Bog Turtle or Northern Red-bellied Cooter.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

**If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 or c-kgipe@pa.gov and refer to the SIR # 59317.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink, reading "Christopher A. Urban".

Christopher A. Urban, Chief  
Natural Diversity Section

CAU/KDG/dn



315 W. James Street, Suite 205, Lancaster, PA 17603 717-517-5000 Fax 717-517-5004 www.libertyenviro.com

**NEGATIVE PHASE I BOG TURTLE HABITAT ASSESSMENT  
COURTESY COPY FOR USFWS RECORDS**

February 12, 2024

US Fish and Wildlife Service  
Endangered Species Biologist  
110 Radnor Road, Suite 101  
State College, Pennsylvania 16801

**Re: Regulated Waters Delineation and Phase I Bog Turtle Habitat Assessment  
Kutz Mill Bridge 46E  
Greenwich Township, Berks County, Pennsylvania  
Liberty Project No. 230662  
PNDI Search ID: #797192**

Dear Biologist:

Liberty Environmental, Inc. (Liberty) is pleased to provide this letter report summarizing a Regulated Waters Delineation (RWD) and a Phase I Bog Turtle Habitat Assessment (BTHA) recently completed at the Kutz Mill Bridge 46E project site located at 152 Kutz Mill Road in Greenwich Township, Berks County, Pennsylvania. This work was performed in preparation for a bridge maintenance project. The investigation area is approximately 6.5 acres in size and consists of a forested riparian corridor, residential areas, agricultural areas, two wetlands (Wetlands B and C) and one watercourse (Watercourse A). A Site Location Map is provided as Attachment 1.

**METHODOLOGY**

The study area was investigated for wetlands and other regulated waters on January 30, 2024, as defined by the *1987 Corps of Engineers Wetland Delineation Manual* (1987 Manual), the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Regional Supplement), and subsequent guidance. The 1987 Manual and Regional Supplement are the current Federal delineation manuals used in the Clean Water Act Section 404 regulatory program for the identification and delineation of wetlands. The approach requires positive evidence of hydrophytic vegetation, hydric soils, and wetland hydrology for the determination that an area qualifies as a wetland.

Wetlands and watercourses are regulated within the Commonwealth of Pennsylvania by the United States Army Corps of Engineers (USACE) and the Department of Environmental Protection (DEP). Both USACE and DEP define wetlands as those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

The DEP, in PA Code Title 25 Chapter 87, defines an intermittent watercourse as a body of water flowing



in a channel or bed composed primarily of substrates associated with flowing water, which, during periods of the year, is below the local water table and obtains its flow from both surface runoff and groundwater discharges. Chapter 87 further defines perennial watercourses as a body of water flowing in a channel or bed composed primarily of substrates associated with flowing waters and is capable, in the absence of pollution or other manmade stream disturbances, of supporting a benthic macroinvertebrate community which is composed of two or more recognizable taxonomic groups of organisms that live at least part of their life cycles within or upon available substrates in a body of water or water transport system.

A bog turtle (*Glyptemys muhlenbergii*) habitat screening is required for permit activities which will impact regulated waters within Berks County, one of the 15 counties in Pennsylvania known to support populations of bog turtles. A Pennsylvania Natural Diversity Inventory (PNDI) search on October 12, 2023 (Project Search ID: #797192) indicated a federally listed species of concern may be present within the project area. The PNDI Project Environmental Review Receipt is provided as Attachment 2. The investigation area was evaluated for potential bog turtle habitat on January 30, 2024, in accordance with the United States Fish and Wildlife Service *Guidelines for Bog Turtle Surveys for the Northern Population Range*, revised April 2020. The approach requires positive evidence of bog turtle habitat, which include suitable hydrology, suitable soils, and suitable vegetation.

## FIELD OBSERVATIONS

The investigation area consists of an approximate 6.5-acre area located in Greenwich Township, Berks County, Pennsylvania. The investigation area contained two wetlands (Wetlands A and B) and one watercourse (Watercourse A). A Regulated Waters Location Map is provided as Attachment 3. Photographs of the investigation area are included as Attachment 4. Regulated Wetland Delineation Data Forms are included as Attachment 5. Phase I Bog Turtle Habitat Survey Data forms are included as Attachment 6. The United States Department of Agriculture's (USDA) Natural Resource Conservation Series (NRCS) WebSoil Survey Information, which was used as a reference to cross-verify observed soil types, is provided as Attachment 7. The resume for the site investigator is provided as Attachment 8. Waters within the investigation area drain to Sacony Creek which is listed within the PA DEP Chapter 93 *Water Quality Standards* for protection of Trout Stocking Fish and Migratory Fish (TSF, MF).

Watercourse A (Sacony Creek) is a high flow perennial channel that enters the investigation area from the southeast and flows out of the investigation area to the west. Watercourse A was flagged along the south bank with 12 flags (C-A1 at bridge to C-A6 open and C-A101 at bridge to C-A106 open) and on the north bank with six flags (C-A201 at bridge to C-A206 open and C-A301 at bridge to C-A306 open). Watercourse A is approximately one to four feet deep and 50 to 70 feet wide with a cobble and boulder substrate.

Wetland B is a palustrine emergent (PEM) and palustrine scrub/shrub (PSS) wetland greater than one acre in size and located in the northeastern portion of the investigation area. Wetland B was delineated with seven flags (W-B1 open joins C-A203 to W-B7 open). Vegetation within Wetland B consists of reed canary grass (*Phalaris arundinacea*, FACW). Soils within Wetland B are dark grayish brown (10YR 4/2) sandy loam with yellowish brown (10YR 5/8) mottles from zero to 18 inches. Indicators of hydrology within Wetland B include oxidized rhizospheres on living roots, sparsely vegetated concave surface, and drainage patterns. Hydrology is provided to Wetland B from groundwater and surface water. **Bog turtle habitat is not present within Wetland B due to the absence of the appropriate soils and hydrology associated with the species.**



Wetland C was not delineated due to its location outside of the 100-foot RWD investigation area. However, it is located within 300 feet of the project area, therefore a bog turtle habitat assessment was performed within Wetland C. The vegetation within Wetland C consists of tall buttercup (*Ranunculus acris*), lamp rush (*Juncus effusus*), bladder sedge (*Carex intumescens*), and rambler rose (*Rosa multiflora*). The soil within Wetland C consists of firm silt loam with no organic muck present. Hydrology is provided to Wetland C from surface water. No moving or standing water was observed within Wetland C. **Bog turtle habitat is not present within Wetland C due to the absence of the appropriate soils and hydrology associated with the species.**

## CONCLUSIONS

Liberty Environmental, Inc. investigated for regulated waters within the approximate 6.5-acre area located at the Kutz Mill Bridge 46E project site in Greenwich Township, Berks County, Pennsylvania. One wetland (Wetland B) and one watercourse (Watercourse A) were delineated within the investigation area as defined by the *1987 Corps of Engineers Wetland Delineation Manual* (1987 Manual) and subsequent guidance. One wetland (Wetland C) was located outside of the regulated wetland delineation boundary and was examined for the presence of bog turtle habitat. **Bog turtle habitat is not present on the site due to the absence of the appropriate soils, and hydrology associated with the species.**

We are providing this Regulated Waters Delineation and Phase I Bog Turtle Habitat Assessment Report for the Kutz Mill Bridge 46E site for your records. If you have any questions regarding this report, please feel free to contact us at (717) 517-5000, extension 2220.

Sincerely,

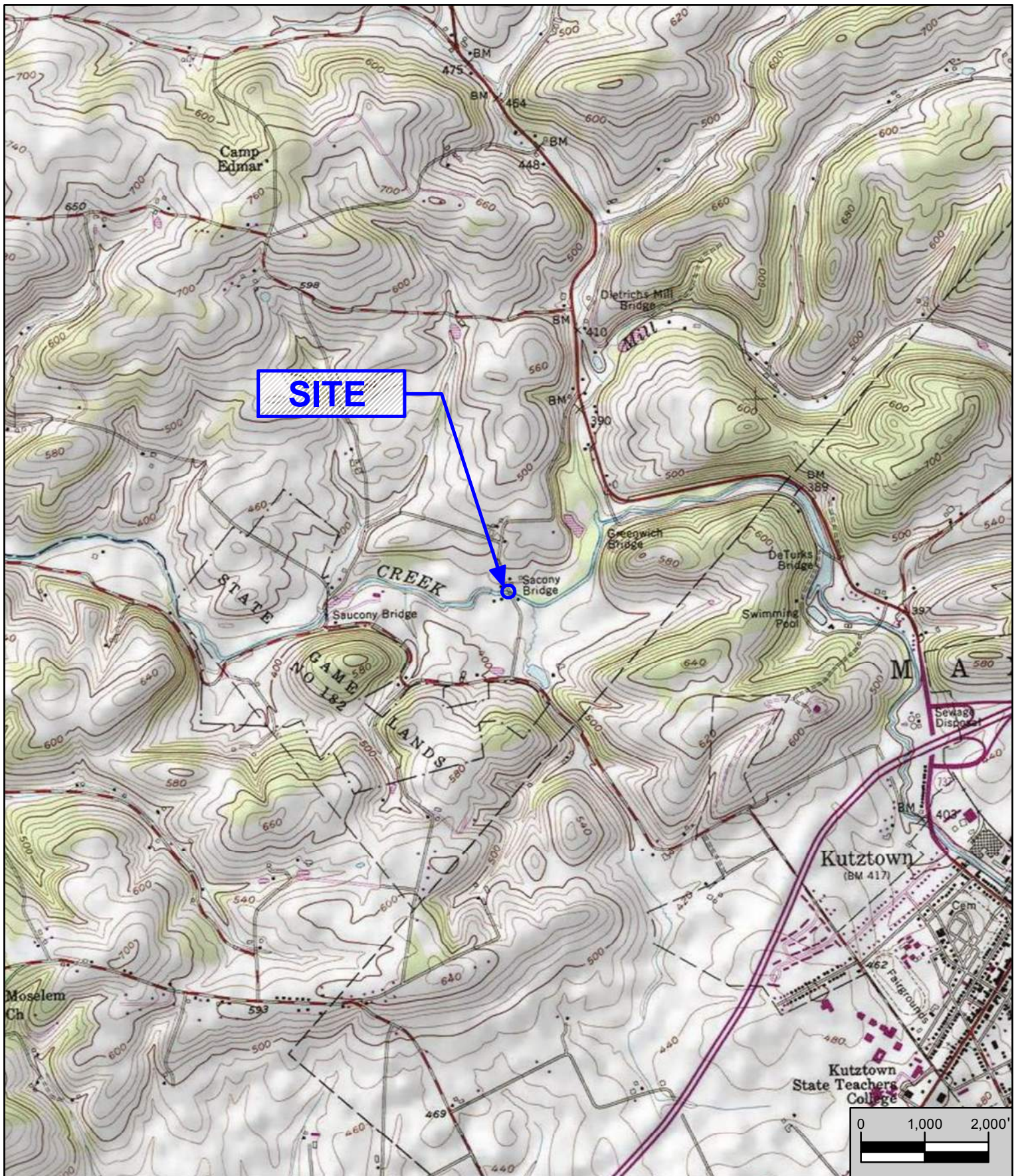
**Liberty Environmental, Inc.**

Teresa M. Amitrone  
Project Manager  
Qualified Bog Turtle Surveyor

*Attachment 1: Site Location Map*  
*Attachment 2: PNDI Search Receipt*  
*Attachment 3: Regulated Waters Location Map*  
*Attachment 4: Site Photographic Log*  
*Attachment 5: Regulated Wetland Delineation Data Forms*  
*Attachment 6: Phase I Bog Turtle Habitat Survey Data Forms*  
*Attachment 7: WebSoil Survey Information*  
*Attachment 8: Investigator Resume*

**ATTACHMENT 1  
SITE LOCATION MAP**





**Liberty**  
Environmental, Inc.

315 West James Street,  
Suite 205  
Lancaster, PA 17603  
Phone: 717-517-5000  
Fax: 717-517-5004  
www.libertyenviro.com



#### ATTACHMENT 1 - SITE LOCATION MAP

KUTZ MILL BRIDGE 46E RWD & PH I BTHA

GREENWICH TOWNSHIP, BERKS COUNTY, PENNSYLVANIA

PROJECT NO. 230662

REV: 0

PREPARED BY: JRY

DATE: FEBRUARY 2, 2024

SCALE: 1" = 2,000'

APPROVED BY: TMA



**ATTACHMENT 2**  
**PNDI SEARCH RECEIPT**

## 1. PROJECT INFORMATION

Project Name: **Berks County Bridge 46E Kutz Mill Maintenance Project**

Date of Review: **2/9/2024 08:03:22 AM**

Project Category: **Transportation, Structures and Bridges, Bridge Preservation, Restoration and/or Rehabilitation**

Project Area: **0.21 acres**

County(s): **Berks**

Township/Municipality(s): **GREENWICH TOWNSHIP**

ZIP Code:

Quadrangle Name(s): **KUTZTOWN**

Watersheds HUC 8: **Schuylkill**

Watersheds HUC 12: **Saony Creek**

Decimal Degrees: **40.533625, -75.805404**

Degrees Minutes Seconds: **40° 32' 1.495" N, 75° 48' 19.4536" W**

## 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	<b>Potential Impact</b>	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
U.S. Fish and Wildlife Service	<b>Potential Impact</b>	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

## Berks County Bridge 46E Kutz Mill Maintenance Project

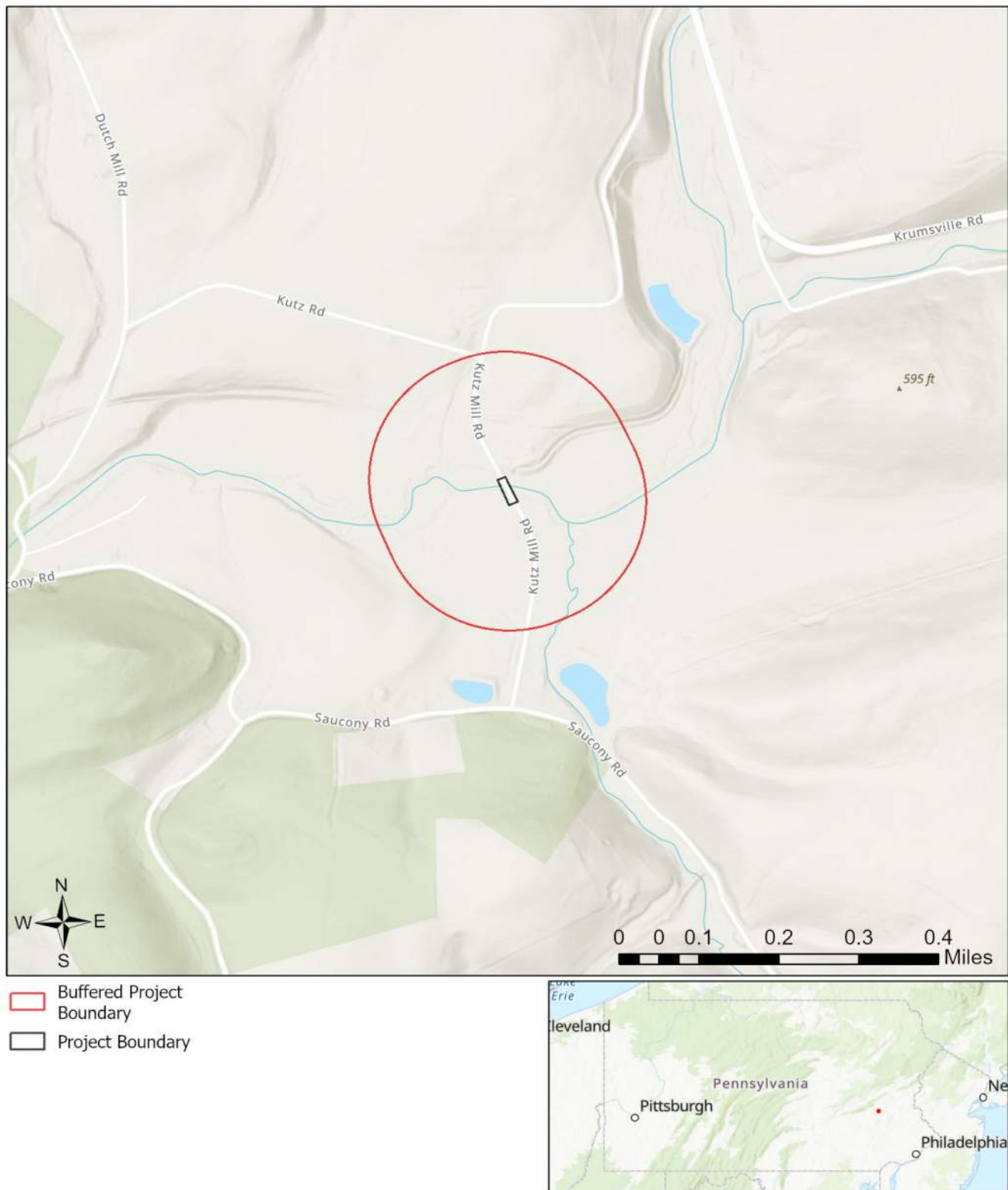


- Buffered Project Boundary
- Project Boundary



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

## Berks County Bridge 46E Kutz Mill Maintenance Project



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community



## RESPONSE TO QUESTION(S) ASKED

**Q1:** Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting ONE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

**Your answer is:** Someone qualified to identify and delineate wetlands (holding a natural resource degree or equivalent work experience) has investigated the site, and determined that wetlands ARE located in or within 300 feet of the project area. (A written report from the wetland specialist, and detailed project maps should document this.)

**Q2:** Is tree removal, tree cutting or forest clearing necessary to implement all aspects of this project?

**Your answer is:** No

**Q3:** How many acres of woodland, forest, forested fencerows and trees will be cut, cleared, removed, disturbed or flooded (inundated) as a result of carrying out all aspects or phases of this project? [Round acreages UP to the nearest acre (e.g., 0.2 acres = 1 acre).]

**Your answer is:** zero acres

### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

##### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Department of Conservation and Natural Resources

##### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Fish and Boat Commission

##### RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

**PFBC Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

## U.S. Fish and Wildlife Service

### RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload\* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

\*If information was requested by USFWS, applicants must email, or mail, project information to [IR1\\_ESPenn@fws.gov](mailto:IR1_ESPenn@fws.gov) to initiate a review. USFWS will not accept uploaded project materials.

### Check-list of Minimum Materials to be submitted:

\_\_\_\_ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

\_\_\_\_ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

### In addition to the materials listed above, USFWS REQUIRES the following

\_\_\_\_ **SIGNED** copy of a Final Project Environmental Review Receipt

### The inclusion of the following information may expedite the review process.

\_\_\_\_ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

\_\_\_\_ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

## 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

## 6. AGENCY CONTACT INFORMATION

### PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section  
400 Market Street, PO Box 8552  
Harrisburg, PA 17105-8552  
Email: [RA-HeritageReview@pa.gov](mailto:RA-HeritageReview@pa.gov)

### PA Fish and Boat Commission

Division of Environmental Services  
595 E. Rolling Ridge Dr., Bellefonte, PA 16823  
Email: [RA-FBPACENOTIFY@pa.gov](mailto:RA-FBPACENOTIFY@pa.gov)

### U.S. Fish and Wildlife Service

Pennsylvania Field Office  
Endangered Species Section  
110 Radnor Rd; Suite 101  
State College, PA 16801  
Email: [IR1\\_ESPenn@fws.gov](mailto:IR1_ESPenn@fws.gov)  
NO Faxes Please

### PA Game Commission

Bureau of Wildlife Management  
Division of Environmental Review  
2001 Elmerton Avenue, Harrisburg, PA 17110-9797  
Email: [RA-PGC\\_PNDI@pa.gov](mailto:RA-PGC_PNDI@pa.gov)  
NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

Name: Christopher Heil  
Company/Business Name: McCormick Taylor  
Address: 600 Eagleview Blvd, 2nd Floor  
City, State, Zip: Exton, PA, 19341  
Phone: ( 484 ) 252-2840 Fax: ( )  
Email: cjespersen@mccormicktaylor.com

## 8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Christopher Heil  
applicant/project proponent signature

2/12/2024  
date

**ATTACHMENT 3**  
**REGULATED WATERS LOCATION MAP**



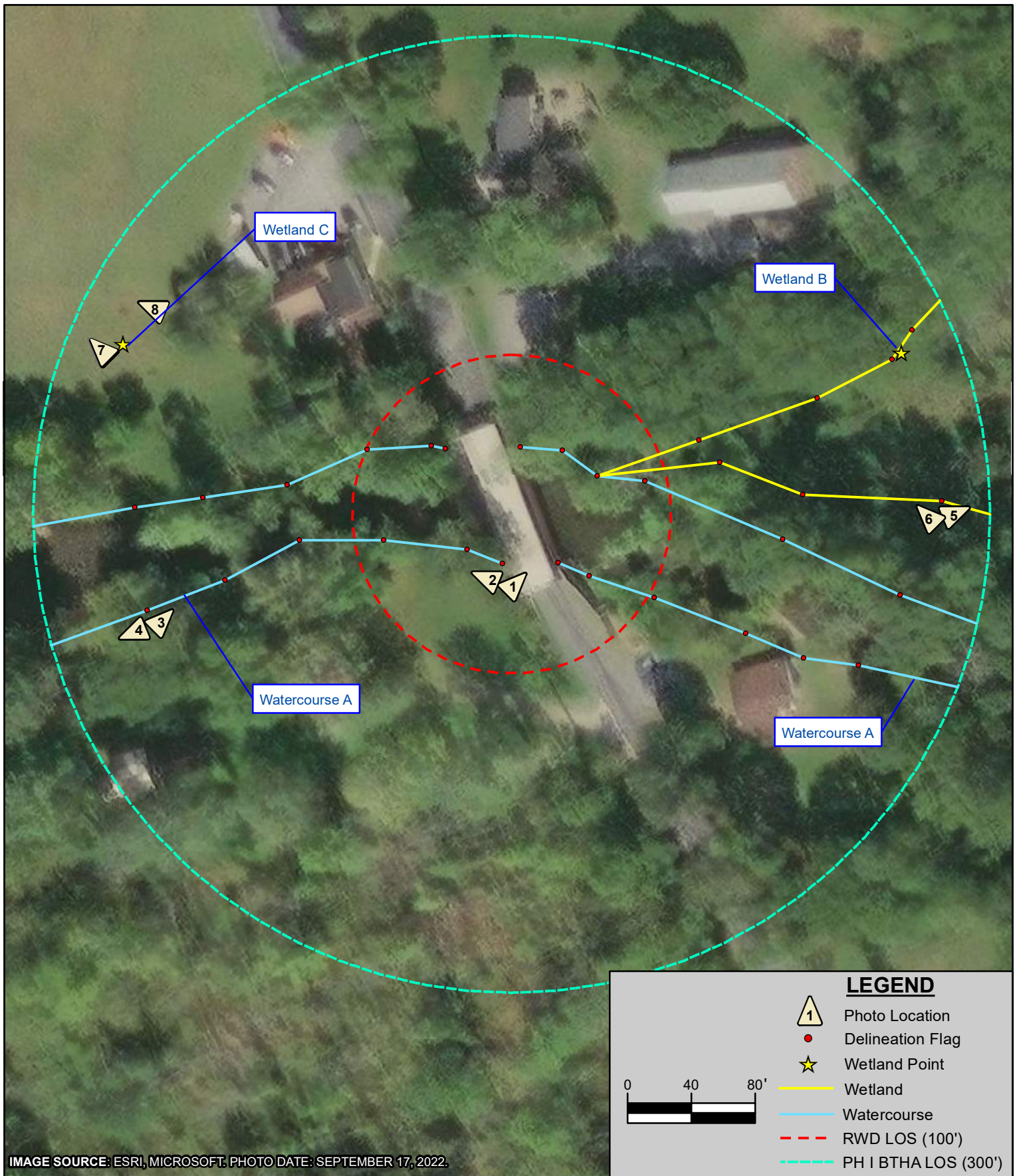


IMAGE SOURCE: ESRI, MICROSOFT. PHOTO DATE: SEPTEMBER 17, 2022.



315 West James Street,  
Suite 205  
Lancaster, PA 17603  
Phone: 717-517-5000  
Fax: 717-517-5004  
www.libertyenviro.com



# ATTACHMENT 3 - PRELIMINARY REGULATED WATERS LOCATION MAP

KUTZ MILL BRIDGE 46E RWD & PH I BTHA

GREENWICH TOWNSHIP, BERKS COUNTY, PENNSYLVANIA

PROJECT NO. 230662

REV: 0

PREPARED BY: JRY

DATE: FEBRUARY 2, 2024

SCALE: 1" = 80'


APPROVED BY: TMA



**ATTACHMENT 4**  
**SITE PHOTOGRAPHIC LOG**



## PHOTOGRAPHIC LOG

<b>Client Name:</b> Berks County Facilities and Operations		<b>Site Location:</b> Greenwich Township, Berks County, Pennsylvania	<b>Project No.</b> 230662
<b>Photo No.</b> 1	<b>Date:</b> 1-30-24		
<b>Direction Photo Taken:</b>  Northeast			
<b>Description:</b>  View of Watercourse A from C-A1 at bridge.			

<b>Photo No.</b> 2	<b>Date:</b> 1-30-24	
<b>Direction Photo Taken:</b>  West-northwest		
<b>Description:</b>  View of Watercourse A from C-A1 at bridge.		





## PHOTOGRAPHIC LOG


<b>Client Name:</b> Berks County Facilities and Operations		<b>Site Location:</b> Greenwich Township, Berks County, Pennsylvania	<b>Project No.</b> 230662
<b>Photo No.</b> 3	<b>Date:</b> 1-30-24		
<b>Direction Photo Taken:</b>  Northeast			
<b>Description:</b>  View of Watercourse A from C-A6 open.			

<b>Photo No.</b> 4	<b>Date:</b> 1-30-24	
<b>Direction Photo Taken:</b>  West-southwest		
<b>Description:</b>  View of Watercourse A from C-A6 open.		





## PHOTOGRAPHIC LOG


<b>Client Name:</b> Berks County Facilities and Operations		<b>Site Location:</b> Greenwich Township, Berks County, Pennsylvania	<b>Project No.</b> 230662
<b>Photo No.</b> 5	<b>Date:</b> 1-30-24		
<b>Direction Photo Taken:</b>  East-northeast			
<b>Description:</b>  View of Wetland B from W-B1.			

<b>Photo No.</b> 6	<b>Date:</b> 1-30-24	
<b>Direction Photo Taken:</b>  Northwest		
<b>Description:</b>  View of Wetland B from W-B1.		





## PHOTOGRAPHIC LOG

<b>Client Name:</b> Berks County Facilities and Operations		<b>Site Location:</b> Greenwich Township, Berks County, Pennsylvania	<b>Project No.</b> 230662
<b>Photo No.</b> 7	<b>Date:</b> 1-30-24		
<b>Direction Photo Taken:</b>  Northwest			
<b>Description:</b>  View of Wetland C from the southeast corner of the wetland.			

<b>Photo No.</b> 8	<b>Date:</b> 1-30-24	
<b>Direction Photo Taken:</b>  West-northwest		
<b>Description:</b>  View of Wetland C from the southeast corner of the wetland.		



**ATTACHMENT 5**  
**REGULATED WETLAND DELINEATION DATA FORMS**

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region</b> See ERDC/EL TR-12-9; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	---

Project/Site: Kutz Mill Bridge City/County: Berks County Sampling Date: 1-30-24

Applicant/Owner: Berks County Facilities and Operations State: PA Sampling Point: SP-1

Investigator(s): Teresa Amitrone & Olivia Welker Section, Township, Range: Tinicum Township

Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 0-8

Subregion (LRR or MLRA): LRR S, MLRA 148 Lat: 40.53395 Long: -75.80547 Datum: NAD 83

Soil Map Unit Name: Middlebury silt loam (Me) NWI classification: PEM, PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes        No   X   (If no, explain in Remarks.)

Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   X   No       

Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>  X  </u> No <u>      </u> Hydric Soil Present? Yes <u>  X  </u> No <u>      </u> Wetland Hydrology Present? Yes <u>  X  </u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>  X  </u> No <u>      </u>
Remarks:	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <u>  X  </u> Surface Water (A1)  <u>  X  </u> High Water Table (A2)  <u>      </u> Saturation (A3)  <u>      </u> Water Marks (B1)  <u>      </u> Sediment Deposits (B2)  <u>      </u> Drift Deposits (B3)  <u>      </u> Algal Mat or Crust (B4)  <u>      </u> Iron Deposits (B5)  <u>      </u> Inundation Visible on Aerial Imagery (B7)  <u>      </u> Water-Stained Leaves (B9)  <u>      </u> Aquatic Fauna (B13)           </div> <div style="width: 48%;"> <u>      </u> True Aquatic Plants (B14)  <u>      </u> Hydrogen Sulfide Odor (C1)  <u>  X  </u> Oxidized Rhizospheres on Living Roots (C3)  <u>      </u> Presence of Reduced Iron (C4)  <u>      </u> Recent Iron Reduction in Tilled Soils (C6)  <u>      </u> Thin Muck Surface (C7)  <u>      </u> Other (Explain in Remarks)           </div> </div>		<u>Secondary Indicators (minimum of two required)</u> <u>      </u> Surface Soil Cracks (B6) <u>  X  </u> Sparsely Vegetated Concave Surface (B8) <u>  X  </u> Drainage Patterns (B10) <u>      </u> Moss Trim Lines (B16) <u>      </u> Dry-Season Water Table (C2) <u>      </u> Crayfish Burrows (C8) <u>      </u> Saturation Visible on Aerial Imagery (C9) <u>      </u> Stunted or Stressed Plants (D1) <u>      </u> Geomorphic Position (D2) <u>      </u> Shallow Aquitard (D3) <u>      </u> Microtopographic Relief (D4) <u>  X  </u> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <u>  X  </u> No <u>      </u> Depth (inches): <u>  2  </u> Water Table Present? Yes <u>  X  </u> No <u>      </u> Depth (inches): <u>  0  </u> Saturation Present? Yes <u>  X  </u> No <u>      </u> Depth (inches): <u>  0  </u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>  X  </u> No <u>      </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

**VEGETATION (Four Strata) – Use scientific names of plants.**

 Sampling Point: SP-1

Tree Stratum (Plot size: <u>25</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

50% of total cover: \_\_\_\_\_ 20% of total cover: \_\_\_\_\_

Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Cornus sericea</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>
2. <u>Rosa multiflora</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

 50% of total cover: 5 20% of total cover: 2

Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Phalaris arundinacea</u>	<u>80</u>	<u>Yes</u>	<u>FACW</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

 50% of total cover: 40 20% of total cover: 16

Woody Vine Stratum (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

50% of total cover: \_\_\_\_\_ 20% of total cover: \_\_\_\_\_

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>85</u>	x 2 = <u>170</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>5</u>	x 4 = <u>20</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>90</u> (A)	<u>190</u> (B)
Prevalence Index = B/A = <u>2.11</u>	

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is  $\leq 3.0$ <sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

   Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody Vine** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation**

Present? Yes X No   

Remarks: (Include photo numbers here or on a separate sheet.)

**VEGETATION (Five Strata)** – Use scientific names of plants.

Sampling Point: SP-1

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
_____ = Total Cover			
50% of total cover: _____	20% of total cover: _____		

Sapling Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
_____ = Total Cover			
50% of total cover: _____	20% of total cover: _____		

Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
_____ = Total Cover			
50% of total cover: _____	20% of total cover: _____		

Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
_____ = Total Cover			
50% of total cover: _____	20% of total cover: _____		

Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
_____ = Total Cover			
50% of total cover: _____	20% of total cover: _____		

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A)

Total Number of Dominant Species Across All Strata: \_\_\_\_\_ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)
Prevalence Index = B/A = _____	

**Hydrophytic Vegetation Indicators:**

\_\_\_\_ 1 - Rapid Test for Hydrophytic Vegetation

\_\_\_\_ 2 - Dominance Test is >50%

\_\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Five Vegetation Strata:**

**Tree** – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

**Sapling** – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

**Shrub** - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

**Herb** – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

**Woody Vine** – All woody vines, regardless of height.

**Hydrophytic Vegetation**

Present? Yes \_\_\_\_\_ No \_\_\_\_\_

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: SP-1**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/2	90	10YR 5/8	10	C	M	Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.<sup>2</sup>Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) <b>(MLRA 147, 148)</b>
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) <b>(MLRA 147, 148)</b>
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) <b>(MLRA 136)</b>
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 2 cm Muck (A10) <b>(LRR N)</b>	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Iron-Manganese Masses (F12) <b>(LRR N, MLRA 136)</b>
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Umbric Surface (F13) <b>(MLRA 122, 136)</b>
<input checked="" type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) <b>(MLRA 148)</b>
<input checked="" type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21) <b>(MLRA 127, 147, 148)</b>
<input type="checkbox"/> Dark Surface (S7)	

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

<input type="checkbox"/> 2 cm Muck (A10) <b>(MLRA 147)</b>
<input checked="" type="checkbox"/> Coast Prairie Redox (A16) <b>(MLRA 147, 148)</b>
<input type="checkbox"/> Piedmont Floodplain Soils (F19) <b>(MLRA 136, 147)</b>
<input type="checkbox"/> Red Parent Material (F21) <b>(outside MLRA 127, 147, 148)</b>
<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_Hydric Soil Present? Yes ☒ No ☐

Remarks:



**ATTACHMENT 6  
PHASE I BOG TURTLE HABITAT  
SURVEY DATA FORMS**

**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020) Please do not edit document.

Wetland ID: B

PNDI # (for PA): 797192

General Info

Property/Project Name Kutz Mill Bridge  
Coordinates 40.53395, -75.80457 Project Type Bridge maintenance  
Entity Requesting Phase 1 Survey Berks County  
County/Township/Municipality Greenwich Twp., Berks Co. PA  
Lead Surveyor Teresa Amitone Affiliation Liberty Environmental  
Other Assistants Present Olivia Welker

Date/Condition

Date of Survey 1-30-24 Time In 10:45 Time Out 11:30 Air Temp. 39(F)°C  
Last Precipitation < 24 hours ☒ 1-7 days ☐ > 1 week ☐ unknown Drought conditions? ☐ Yes ☒ No ☐ Unknown  
Drought Index\*<sup>1</sup> (Circle): none D0 D1 D2 D3 D4 Wetland Photos Taken ☒ Yes ☐ No (Provide photo location map)  
Notes (e.g., details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):

Wetland Info

Wetland Size \_\_\_\_\_ acres, if known # Wetlands w/in Project Area<sup>2</sup> 2  
Estimate wetland size (acres) ☐ < 0.1 ☐ 0.1 - 0.5 ☐ 0.5 - 1 ☐ 1 - 2 ☐ 2 - 4 ☒ 5+ ☐ 10+  
Estimate % Canopy Cover\*<sup>3</sup> ☐ 0% ☐ ≤ 5 ☒ 6-20 ☐ 21-40 ☐ 41-60 ☐ > 60  
Hydrology and Soils (check all that apply): use additional pages to further discuss pertinent general wetland information  
☐ Springs/Seeps ☐ Springhouse ☒ Trib/Stream ☐ Pond ☒ Stormwater ☐ Iron Bacteria ☐ Watercress  
☒ Water Visible on Surface Evidence of Flooding ☒ Yes ☐ No If yes, (☐ Seasonal Flooding<sup>4</sup> ☒ Routine Flooding<sup>5</sup>)  
☐ Rivulets (\_\_\_\_ inches deep) ☐ Subsurface Tunnel/Rivulets ☐ Tire Ruts (\_\_\_\_ inches deep)  
☒ Small Puddles/Depressions 2-4 inches deep ☒ Saturated soils present? If yes, year-round? ☒ Likely ☐ Unlikely ☐ Unk  
☐ Yes ☒ No Are there any signs of disturbance to hydrology (e.g., drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?

Estimate time period (in years) of disturbance\*: ☐ ≤ 5 ☐ 6-10 ☐ 11-20 ☐ > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:

<sup>1</sup> (\*) Denotes reference to the Supplemental Information document that provides more details on this particular question.

<sup>2</sup> Each wetland must have a separate Phase 1 habitat assessment data form completed.

<sup>3</sup> Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.

<sup>4</sup> Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.

<sup>5</sup> Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Wetland ID: B

   Yes ✓ No Are there any signs of disturbance to vegetation (e.g., mowing, pasturing, burning)? If yes, describe:

Rate (scale of 1-4) level of vegetation disturbance\* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed<sup>6</sup> 3. Moderate to high grazing or mowing 4. Mowing occurs during bog turtle active season

Soil types present\*: sandy loam

How much suitable habitat is in this wetland? Estimate acreage or percentage: 0 - this wetland floods frequently

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	<u>80</u>	<u>10</u>	<u>2</u> in.	<u>4</u> in.
PSS Portion of Wetland:	<u>20</u>	<u>10</u>	<u>2</u> in.	<u>4</u> in.
PFO Portion of Wetland:			in.	in.
POW/PUB Portion of Wetland:			in.	in.

CIRCLE all vegetation\* from list below that is dominant ( $\geq 20\%$  for each wetland type listed above) and add other species you observe that are not listed in table in the "notes" space provided below or in the extra table cells.

Alder Spp. <i>Alnus</i> spp.	Common Reed <i>Phragmites australis</i>	Jewelweed <i>Impatiens capensis</i>	Rice Cutgrass <i>Leersia oryzoides</i>	Spicebush <i>Lindera benzoin</i>	Willow spp. <i>Salix</i> spp.
Alder-leaved Buckthorn <i>Rhamnus alnifolia</i>	<u>Dogwood Spp. <i>Cornus</i> spp.</u>	Mile-A-Minute <i>Persicaria perfoliata</i>	Rough-leaved Goldenrod <i>Solidago patula</i>	Spike-Rush <i>Eleocharis palustris</i>	Woolly-fruited Sedge <i>Carex lasiocarpa</i>
American Elm <i>Ulmus americana</i>	Duck Potato <i>Sagittaria latifolia</i>	<u>Multiflora Rose <i>Rosa multiflora</i></u>	Sensitive Fern <i>Onoclea sensibilis</i>	Swamp Rose <i>Rosa palustris</i>	Woolly Bulrush or Woolgrass <i>Scirpus cyperinus</i>
Arrowhead <i>Sagittaria latifolia</i>	Eastern Red Cedar <i>Juniperus virginiana</i>	Poison Sumac <i>Toxicodendron vernix</i>	Shrubby Cinquefoil <i>Dasiphora fruticosa</i>	Sweetflag <i>Acorus calamus</i>	Yellow-Green Sedge <i>Cyperus esculentus</i>
Carpetgrass <i>Axonopus fissifolius</i>	Eastern Tamarack <i>Larix laricina</i>	Porcupine Sedge <i>Carex hystericina</i>	Skunk Cabbage <i>Symplocarpus foetidus</i>	Tearthumb Spp. <i>Polygonum</i> spp.	
Cattail <i>Typha</i> spp.	Grass-of-Parnassus <i>Parnassia glauca</i>	Purple Loosestrife <i>Lythrum salicaria</i>	Smooth Sawgrass <i>Cladium mariscoides</i>	Tussock Sedge <i>Carex stricta</i>	
Cinnamon Fern <i>Osmundastrum cinnamomeum</i>	Inland sedge <i>Carex interior</i>	Red Maple <i>Acer rubrum</i>	Soft Rush or Common Rush <i>Juncus effusus</i>	Viburnum Spp. <i>Viburnum</i> spp.	
Common Boneset <i>Eupatorium perfoliatum</i>	Japanese Stiltgrass <i>Microstegium vimineum</i>	<u>Reed Canary Grass <i>Phalaris arundinacea</i></u>	Sphagnum Moss <i>Sphagnum</i> spp.	White turtlehead <i>Chelone glabra</i>	

Notes on additional plant species (e.g., sedge, rush, grass, shrub, tree species):

<sup>6</sup> No grazing, mowing, or burning is given a "2" rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Wetland ID: B

Describe surrounding landscape (e.g., wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Forested riparian corridor, light residential areas, and agricultural fields

Landscape Info

How much of this wetland is located **off-site** (i.e., outside the property boundaries or right-of-way)?

☐ None of it – the entire wetland is within the property boundaries

☒ Some of it – 40 Acres or 40% of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

☐ None of it ☐ All of it ☒ Part of it (2 acres or     % of the off-site portion)

Is there potential bog turtle habitat **within 300 feet\***? ☐ Yes ☒ No ☐ Unk Habitat **off-site**? ☐ Yes ☐ No ☒ Unk

If yes, how did you conclude this?

Species

Were any bog turtles observed? ☐ Yes ☒ No If yes, how many?     

Other herps observed? ☐ Yes ☒ No If yes, which ones?     

\*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

\*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

Lead Surveyor Opinion

☐ Yes ☒ No ☐ Unsure The **hydrology** criterion for bog turtle habitat is met.

☒ Yes ☐ No ☐ Unsure The **soils** criterion for bog turtle habitat is met.

☒ Yes ☐ No ☐ Unsure The **vegetation** criterion for bog turtle habitat is met.

☐ Yes ☒ No ☐ Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).

☐ Yes ☒ No ☐ Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).

☒ This wetland does **NOT** have potential bog turtle habitat. ☐ **UNSURE** if suitable habitat is present.

Notes (How did you reach this opinion?):

Wetland B floods frequently. It is located within the immediate ~~flood plain~~ floodplain of Sacony Creek

Lead Surveyor – please sign below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.

Print Name Teresa Amitrone Signature Teresa M. Amitrone

Date 1-30-24

Contact Information tamitrone@libertyenviro.com

**\*\*Important\*\*** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020)

Wetland ID: \_\_\_\_\_

B

**Additional space for notes, color photos, or maps/sketch of wetland** (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.

see attached report



**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020) Please do not edit document.

Wetland ID: C  
PNDI # (for PA): 797192

General Info

Property/Project Name Kurtz Mill Bridge  
Coordinates 40.53390, -75.80641 Project Type Bridge maintenance  
Entity Requesting Phase 1 Survey Berks County  
County/Township/Municipality Greenwich Twp, Berks Co., PA  
Lead Surveyor Teresa Amitone Affiliation Liberty Environmental  
Other Assistants Present Olivia Welker

Date/Condition

Date of Survey 1-30-24 Time In 13:30 Time Out 14:00 Air Temp. 40 (F) °C  
Last Precipitation < 24 hours ☒ 1-7 days ☐ > 1 week ☐ unknown Drought conditions? ☐ Yes ☒ No ☐ Unknown  
Drought Index\*<sup>1</sup> (Circle): (none) D0 D1 D2 D3 D4 Wetland Photos Taken ☒ Yes ☐ No (Provide photo location map)  
Notes (e.g., details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):

Wetland Info

Wetland Size \_\_\_\_\_ acres, if known # Wetlands w/in Project Area<sup>2</sup> 2  
Estimate wetland size (acres) ☐ < 0.1 ☒ 0.1 - 0.5 ☐ 0.5 - 1 ☐ 1 - 2 ☐ 2 - 4 ☐ 5+ ☐ 10+  
Estimate % Canopy Cover\*<sup>3</sup> ☒ 0% ☐ ≤ 5 ☐ 6-20 ☐ 21-40 ☐ 41-60 ☐ > 60  
Hydrology and Soils (check all that apply): use additional pages to further discuss pertinent general wetland information  
☐ Springs/Seeps ☐ Springhouse ☐ Trib/Stream ☐ Pond ☐ Stormwater ☐ Iron Bacteria ☐ Watercress  
☐ Water Visible on Surface Evidence of Flooding ☐ Yes ☒ No If yes, (☐ Seasonal Flooding<sup>4</sup> ☐ Routine Flooding<sup>5</sup>)  
☐ Rivulets (\_\_\_\_ inches deep) ☐ Subsurface Tunnel/Rivulets ☐ Tire Ruts (\_\_\_\_ inches deep)  
☐ Small Puddles/Depressions (\_\_\_\_ inches deep) ☐ Saturated soils present? If yes, year-round? ☐ Likely ☐ Unlikely ☐ Unk  
☐ Yes ☒ No Are there any signs of disturbance to hydrology (e.g., drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?

Estimate time period (in years) of disturbance\*: ☐ ≤ 5 ☐ 6-10 ☐ 11-20 ☐ > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:

<sup>1</sup> (\*) Denotes reference to the Supplemental Information document that provides more details on this particular question.

<sup>2</sup> Each wetland must have a separate Phase 1 habitat assessment data form completed.

<sup>3</sup> Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.

<sup>4</sup> Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.

<sup>5</sup> Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Wetland ID: e

☒ Yes ☐ No Are there any signs of disturbance to vegetation (e.g., mowing, pasturing, burning)? If yes, describe:

Pasturing + possible mowing

Wetland Info

Rate (scale of 1-4) level of vegetation disturbance\* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed<sup>6</sup> 3. Moderate to high grazing or mowing (4) Mowing occurs during bog turtle active season

Soil types present\*: Silt loam

How much suitable habitat is in this wetland? Estimate acreage or percentage: 0

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	<u>98%</u>	<u>0</u>	<u>in.</u>	<u>in.</u>
PSS Portion of Wetland:	<u>2%</u>	<u>0</u>	<u>in.</u>	<u>in.</u>
PFO Portion of Wetland:	<u>        </u>	<u>        </u>	<u>in.</u>	<u>in.</u>
POW/PUB Portion of Wetland:	<u>        </u>	<u>        </u>	<u>in.</u>	<u>in.</u>

CIRCLE all vegetation\* from list below that is dominant ( $\geq 20\%$  for each wetland type listed above) and add other species you observe that are not listed in table in the "notes" space provided below or in the extra table cells.

Wetland Type/Vegetation

Alder Spp. <i>Alnus</i> spp.	Common Reed <i>Phragmites australis</i>	Jewelweed <i>Impatiens capensis</i>	Rice Cutgrass <i>Leersia oryzoides</i>	Spicebush <i>Lindera benzoin</i>	Willow spp. <i>Salix</i> spp.
Alder-leaved Buckthorn <i>Rhamnus alnifolia</i>	Dogwood Spp. <i>Cornus</i> spp.	Mile-A-Minute <i>Persicaria perfoliata</i>	Rough-leaved Goldenrod <i>Solidago patula</i>	Spike-Rush <i>Eleocharis palustris</i>	Woolly-fruited Sedge <i>Carex lasiocarpa</i>
American Elm <i>Ulmus americana</i>	Duck Potato <i>Sagittaria latifolia</i>	Multiflora Rose <i>Rosa multiflora</i>	Sensitive Fern <i>Onoclea sensibilis</i>	Swamp Rose <i>Rosa palustris</i>	Woolly Bulrush or Woolgrass <i>Scirpus cyperinus</i>
Arrowhead <i>Sagittaria latifolia</i>	Eastern Red Cedar <i>Juniperus virginiana</i>	Polson Sumac <i>Toxicodendron vernix</i>	Shrubby Cinquefoil <i>Dasiphora fruticosa</i>	Sweetflag <i>Acorus calamus</i>	Yellow-Green Sedge <i>Cyperus esculentus</i>
Carpetgrass <i>Axonopus fissifolius</i>	Eastern Tamarack <i>Larix laricina</i>	Porcupine Sedge <i>Carex hystericina</i>	Skunk Cabbage <i>Symplocarpus foetidus</i>	Tearthumb Spp. <i>Polygonum</i> spp.	
Cattail <i>Typha</i> spp.	Grass-of-Parnassus <i>Parnassia glauca</i>	Purple Loosestrife <i>Lythrum salicaria</i>	Smooth Sawgrass <i>Cladium mariscoides</i>	Tussock Sedge <i>Carex stricta</i>	
Cinnamon Fern <i>Osmundastrum cinnamomeum</i>	Inland sedge <i>Carex interior</i>	Red Maple <i>Acer rubrum</i>	<u>Soft Rush or Common Rush <i>Juncus effusus</i></u>	Viburnum Spp. <i>Viburnum</i> spp.	
Common Boneset <i>Eupatorium perfoliatum</i>	Japanese Stiltgrass <i>Microstegium vimineum</i>	Reed Canary Grass <i>Phalaris arundinacea</i>	Sphagnum Moss <i>Sphagnum</i> spp.	White turtlehead <i>Chelone glabra</i>	

Notes on additional plant species (e.g., sedge, rush, grass, shrub, tree species):

Tall buttercup - 60%

<sup>6</sup> No grazing, mowing, or burning is given a "2" rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Wetland ID: C

Describe surrounding landscape (e.g., wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Forested riparian corridor, light residential area, and agricultural fields. Wetland C is located in a fenced-in pasture

Landscape Info

How much of this wetland is located **off-site** (i.e., outside the property boundaries or right-of-way)?

- ☒ None of it – the entire wetland is within the property boundaries  
☐ Some of it – \_\_\_\_\_ Acres or \_\_\_\_\_% of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

- ☐ None of it ☐ All of it ☐ Part of it (\_\_\_\_\_ acres or \_\_\_\_\_% of the off-site portion)

Is there potential bog turtle habitat **within 300 feet\***? ☐ Yes ☒ No ☐ Unk Habitat **off-site**? ☐ Yes ☐ No ☒ Unk

If yes, how did you conclude this?

Species

Were any bog turtles observed? ☐ Yes ☒ No If yes, how many? \_\_\_\_\_  
Other herps observed? ☐ Yes ☒ No If yes, which ones?

\*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

\*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

- ☐ Yes ☒ No ☐ Unsure The **hydrology** criterion for bog turtle habitat is met.  
☐ Yes ☒ No ☐ Unsure The **soils** criterion for bog turtle habitat is met.  
☒ Yes ☐ No ☐ Unsure The **vegetation** criterion for bog turtle habitat is met.  
☐ Yes ☒ No ☐ Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).  
☐ Yes ☒ No ☐ Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).  
☒ This wetland does **NOT** have potential bog turtle habitat. ☐ **UNSURE** if suitable habitat is present.

Lead Surveyor Opinion

Notes (How did you reach this opinion?):

Wetland C does not contain the hydrology or soils associated with wetlands known to support populations of bog turtles

Lead Surveyor – please sign below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.

Print Name Teresa Amicone Signature [Signature]

Date 1-30-24

Contact Information tamicone@libertyenviro.com

**\*\*Important\*\*** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020)

Wetland ID: \_\_\_\_\_

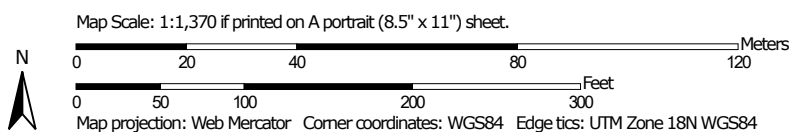
C

**Additional space for notes, color photos, or maps/sketch of wetland** (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.

see attached report.

**ATTACHMENT 7**  
**WEBSOIL SURVEY INFORMATION**

# Soil Map—Berks County, Pennsylvania (Kutz Mill Bridge)





Soil Map—Berks County, Pennsylvania  
(Kutz Mill Bridge)

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Berks County, Pennsylvania

Survey Area Data: Version 21, Sep 4, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 3, 2022—Jul 20, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BtA	Brinkerton-Comly silt loams, 0 to 3 percent slopes	0.0	0.4%
CpB	Comly silt loam, 3 to 8 percent slopes	0.9	15.2%
Ho	Holly silt loam	3.8	63.8%
Me	Middlebury silt loam	1.2	20.6%
<b>Totals for Area of Interest</b>		<b>6.0</b>	<b>100.0%</b>

## Berks County, Pennsylvania

### Me—Middlebury silt loam

#### Map Unit Setting

*National map unit symbol:* 172p

*Elevation:* 130 to 1,950 feet

*Mean annual precipitation:* 30 to 40 inches

*Mean annual air temperature:* 45 to 54 degrees F

*Frost-free period:* 120 to 187 days

*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Middlebury and similar soils:* 95 percent

*Minor components:* 5 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Middlebury

##### Setting

*Landform:* Flood plains

*Landform position (two-dimensional):* Footslope

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Concave, linear

*Across-slope shape:* Linear, concave

*Parent material:* Post glacial alluvium derived from sandstone and shale

##### Typical profile

*Ap - 0 to 8 inches:* silt loam

*Bw - 8 to 26 inches:* silt loam

*C - 26 to 63 inches:* stratified sand to gravelly sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 60 to 99 inches to lithic bedrock

*Drainage class:* Moderately well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* About 6 to 24 inches

*Frequency of flooding:* Occasional

*Frequency of ponding:* None

*Available water supply, 0 to 60 inches:* Moderate (about 6.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 2w

*Hydrologic Soil Group:* B/D

*Ecological site:* F147XY009PA - Loamy Mixed Floodplain,  
F148XY029PA - Moist, High Base-Saturation, Riparian Zone,  
Ecotonal Meadow-Shrub-Forest  
*Hydric soil rating:* No

### **Minor Components**

#### **Holly**

*Percent of map unit:* 5 percent  
*Landform:* Flood plains  
*Landform position (two-dimensional):* Toeslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Hydric soil rating:* Yes

## **Data Source Information**

Soil Survey Area: Berks County, Pennsylvania  
Survey Area Data: Version 21, Sep 4, 2023

## Berks County, Pennsylvania

### CpB—Comly silt loam, 3 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1714

*Elevation:* 300 to 1,400 feet

*Mean annual precipitation:* 35 to 50 inches

*Mean annual air temperature:* 46 to 55 degrees F

*Frost-free period:* 120 to 214 days

*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Comly and similar soils:* 90 percent

*Minor components:* 5 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Comly

##### Setting

*Landform:* Valleys

*Landform position (two-dimensional):* Footslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Concave, linear

*Across-slope shape:* Linear, concave

*Parent material:* Acid fine-loamy colluvium derived from shale and siltstone

##### Typical profile

*H1 - 0 to 10 inches:* silt loam

*H2 - 10 to 25 inches:* channery silty clay loam

*H3 - 25 to 52 inches:* channery loam

*H4 - 52 to 61 inches:* very channery silt loam

*H5 - 61 to 80 inches:* bedrock

##### Properties and qualities

*Slope:* 3 to 8 percent

*Depth to restrictive feature:* 20 to 35 inches to fragipan; 60 to 96 inches to lithic bedrock

*Drainage class:* Moderately well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to moderately high (0.06 to 0.60 in/hr)

*Depth to water table:* About 12 to 36 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water supply, 0 to 60 inches:* Low (about 3.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 2e

*Hydrologic Soil Group:* C  
*Ecological site:* F147XY002PA - Mixed Sedimentary Upland  
*Hydric soil rating:* No

### **Minor Components**

#### **Brinkerton**

*Percent of map unit:* 5 percent  
*Landform:* Depressions  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Head slope  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Hydric soil rating:* Yes

## **Data Source Information**

Soil Survey Area: Berks County, Pennsylvania  
Survey Area Data: Version 21, Sep 4, 2023



## Berks County, Pennsylvania

### Ho—Holly silt loam

#### Map Unit Setting

*National map unit symbol:* 1721

*Elevation:* 100 to 1,300 feet

*Mean annual precipitation:* 30 to 50 inches

*Mean annual air temperature:* 46 to 55 degrees F

*Frost-free period:* 120 to 214 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Holly and similar soils:* 94 percent

*Minor components:* 6 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Holly

##### Setting

*Landform:* Flood plains

*Landform position (two-dimensional):* Toeslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Alluvium derived from sandstone and shale

##### Typical profile

*Ap - 0 to 7 inches:* silt loam

*Bg - 7 to 26 inches:* silty clay loam

*Cg - 26 to 44 inches:* silty clay loam

*2Cg - 44 to 62 inches:* gravelly loamy sand

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Poorly drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.20 to 2.00 in/hr)

*Depth to water table:* About 0 to 12 inches

*Frequency of flooding:* Frequent

*Frequency of ponding:* Occasional

*Calcium carbonate, maximum content:* 5 percent

*Available water supply, 0 to 60 inches:* High (about 9.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3w

*Hydrologic Soil Group:* B/D

*Ecological site:* F147XY011PA - Poorly Drained Fine Mixed  
Floodplain, F148XY031PA - Hydric, Triassic, Riparian Zone,  
Swamp Meadow-Shrub-Forest  
*Hydric soil rating:* Yes

### Minor Components

#### Brinkerton

*Percent of map unit:* 2 percent  
*Landform:* Depressions  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Hydric soil rating:* Yes

#### Linden

*Percent of map unit:* 2 percent  
*Landform:* Flood plains  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Concave, linear  
*Across-slope shape:* Concave, linear  
*Hydric soil rating:* No

#### Gibraltar

*Percent of map unit:* 2 percent  
*Landform:* Flood plains  
*Landform position (two-dimensional):* Toeslope, footslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, convex  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Berks County, Pennsylvania  
Survey Area Data: Version 21, Sep 4, 2023

## Berks County, Pennsylvania

### BtA—Brinkerton-Comly silt loams, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 170s

*Elevation:* 300 to 1,400 feet

*Mean annual precipitation:* 35 to 50 inches

*Mean annual air temperature:* 46 to 55 degrees F

*Frost-free period:* 120 to 214 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Brinkerton and similar soils:* 75 percent

*Comly and similar soils:* 20 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Brinkerton

##### Setting

*Landform:* Hills

*Landform position (two-dimensional):* Footslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Concave, linear

*Across-slope shape:* Linear, concave

*Parent material:* Fine-silty colluvium derived from shale and siltstone

##### Typical profile

*H1 - 0 to 9 inches:* silt loam

*H2 - 9 to 16 inches:* silty clay loam

*H3 - 16 to 42 inches:* channery clay loam

*H4 - 42 to 61 inches:* channery loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 11 to 30 inches to fragipan; 60 to 99 inches to lithic bedrock

*Drainage class:* Poorly drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)

*Depth to water table:* About 0 to 6 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water supply, 0 to 60 inches:* Low (about 3.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4w

*Hydrologic Soil Group:* D

*Ecological site:* F147XY005PA - Poorly Drained Mixed  
Sedimentary Toeslope  
*Hydric soil rating:* Yes

## Description of Comly

### Setting

*Landform:* Hills  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Concave, linear  
*Across-slope shape:* Linear, concave  
*Parent material:* Acid fine-loamy colluvium derived from shale and  
siltstone

### Typical profile

*H1 - 0 to 10 inches:* silt loam  
*H2 - 10 to 25 inches:* channery silty clay loam  
*H3 - 25 to 52 inches:* channery loam  
*H4 - 52 to 61 inches:* very channery silt loam  
*H5 - 61 to 72 inches:* bedrock

### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 20 to 35 inches to fragipan; 60 to 96  
inches to lithic bedrock  
*Drainage class:* Moderately well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water*  
*(Ksat):* Moderately low to moderately high (0.06 to 0.60 in/hr)  
*Depth to water table:* About 12 to 36 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* Low (about 3.9 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 2w  
*Hydrologic Soil Group:* C  
*Ecological site:* F147XY005PA - Poorly Drained Mixed  
Sedimentary Toeslope  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Berks County, Pennsylvania  
Survey Area Data: Version 21, Sep 4, 2023

**ATTACHMENT 8**  
**INVESTIGATOR'S RESUME**

**Project Manager/Senior Environmental Scientist****Qualifications Summary**

- Twenty-three years of experience in environmental consulting
- Qualified Bog Turtle Surveyor
- Extensive experience with wetland delineation and endangered species surveys
- Successfully secured many PA DEP 105 Permit and US ACOE Section 404 Joint Permits
- Specializes in complex permitting for distribution/logistics center development
- Proficient in conducting migrating passerine and raptor surveys
- Strong threatened and endangered species regulatory background

**Fields of Competence**

Ms. Amitrone is a Senior Biologist with over 23 years of experience in the environmental field. She is highly regarded for her work in wetland identification, delineation, and mitigation. She was one of the first in the state to develop an Environmental Assessment and mitigation plan using the Pennsylvania Function-Based Aquatic Resource Compensation Protocol, which has led to the successful acquisition of numerous PA Department of Environmental Protection Chapter 105 Permits and US Army Corps of Engineers Section 404 Joint Permits. Ms. Amitrone is also recognized as a Qualified Bog Turtle Surveyor by the US Fish and Wildlife Service and the PA Fish and Boat Commission. She has served as the lead coordinator for projects involving a variety of threatened and endangered species. She is experienced in evaluating and documenting potential habitats for species of concern and in preparing Biological Assessments to evaluate potential project impacts. She conducts agency coordination with the United States Fish and Wildlife Service, the Pennsylvania Department of Conservation and Natural Resources, the Pennsylvania Fish and Boat Commission, and the Pennsylvania Game Commission regarding a variety of projects with the potential to affect species of concern. She has completed over 400 Phase I Bog Turtle habitat surveys, more than 60 Phase II and Phase III Bog Turtle presence/absence surveys, and three radio-tracking Bog Turtle studies. Ms. Amitrone is skilled in implementing widely used assessment protocols, including the Pennsylvania Game Commission's *Protocols to Monitor Bird Populations at Industrial Wind Turbine Sites*. She has conducted breeding bird surveys, raptor surveys, and point count surveys. Ms. Amitrone has conducted native and species of concern plant surveys within Pennsylvania and New Jersey. Her additional strength is in wetland identification, delineations, and Jurisdictional Determinations. She is also experienced in the Pennsylvania Department of Environmental Protection General Permit and U.S. Army Corp of Engineers permit processes. Ms. Amitrone's past duties have included studies and evaluations of terrestrial and aquatic ecosystems, the development of protocols currently used for habitat assessments, and the development and implementation of habitat management plans.

**Credentials**

A.S. Wildlife Technology, Pennsylvania State University

Qualified Bog Turtle Surveyor



**Project Manager/Senior Environmental Scientist****Training**

Maryland Department of Transportations' Green and Yellow Card  
Training for Erosion and Sediment Structure Design and Monitoring

Pennsylvania Department of Transportations' Threatened and Endangered Species Instructor Training

OSHA 40-Hour Hazardous Waste Site Training (2015)

8-hour HAZWOPER Certification (2020)

**Key Projects*****Wetland Delineation, Mitigation and Environmental Permitting***

*Delineation of wetlands and watercourses using U.S. Army Corps of Engineers methodology. Developed and monitored wetland mitigation areas established for compensatory purposes. Prepared Environmental Assessments for Joint Permit and Nationwide Permit applications.*

**Joint Permit Application Assistance for Residential Development, Upper Dublin Township, Montgomery County, PA:** This 80-acre tract, featuring three wetlands, is under construction as a 74-lot residential subdivision. Prepared environmental evaluations and narrative reporting, represented the client at agency meetings, and provided other general consulting services in support of obtaining a Pennsylvania Department of Environmental Protection Chapter 105 Permit and US Army Corps of Engineers Section 404 Joint Permit. Also completed a Phase I and Phase II bog turtle survey for the project and obtained threatened and endangered species clearances.

**Goodman Logistics Center, Newberry Township, York County, PA:** As part of an ACOE and PA DEP Joint Permit for a nearly 160-acre site featuring twenty wetlands and sixteen watercourses, served as lead scientist performing the regulated waters delineation and preparing the Jurisdictional Determination. Assisted the client in developing and Environmental Assessment and mitigation plan using the Pennsylvania Function Based Aquatic Compensation Protocol which led to the successful acquisition of the Joint Permit. The logistics campus featuring two buildings totaling more than 1.8 million square feet is now under construction.

**Hamburg Logistics Project, Perry Township, Berks County, PA:** As part of an ACOE and PA DEP Joint Permit for a 1.4 million square-foot distribution center, served as the lead scientist performing the regulated waters delineation and Jurisdictional Determination. Assisted the client in developing an Environmental Assessment and mitigation plan which led to the successful acquisition of the Joint Permit.

**Hamburg Commerce Park Project, Windsor and Perry Townships, Berks County, PA:** As part of an ACOE and PA DEP Joint Permit for a new 170-acre multi-use business park, lead scientist performing the regulated waters delineation and Jurisdictional Determination. Assisted the client in developing an Environmental Assessment and mitigation plan using the Pennsylvania Function Based Aquatic Compensation Protocol which led to the successful acquisition of the Joint Permit. The construction of three warehouse and distribution centers totaling 2.25 million square feet is completed at this former golf course site.

**Project Manager/Senior Environmental Scientist**

**Mitigation Monitoring – Montgomery and Monroe Counties, PA:** Performed mitigation monitoring on behalf of PennDOT, Engineering District 5-0 at two mitigation sites and provided the associated reports on a bi-yearly basis as part of a multi-year monitoring effort.

**Mitigation Monitoring – Berk and York Counties, PA:** Performed mitigation monitoring on behalf of private sector clients as part of Joint Permits for large-scale logistics projects.

**Natural Gas Well Locations – Susquehanna, Sullivan, Bradford, and Wyoming Counties, PA:** Performed regulated waters delineations at numerous proposed natural gas well sites within the Marcellus Shale formation in northeast and northcentral Pennsylvania.

**Bridge Replacements and Rehabilitations on Behalf of Berks County, PA:** Performed regulated waters delineations and Phase I Bog Turtle Habitat Assessments at numerous proposed bridge replacement and rehabilitation projects.

**Bridge Replacements and Rehabilitations on Behalf of Montgomery County, PA:** Performed regulated waters delineations and Phase I Bog Turtle Habitat Assessments at numerous proposed bridge projects.

**Bridge Replacements and Rehabilitations on Behalf of Delaware County, PA:** Performed regulated waters delineations and Phase I Bog Turtle Habitat Assessments at numerous proposed bridge replacement and rehabilitation projects.

**Bridge Replacements and Rehabilitations in Bucks County, PA:** Performed regulated waters delineations and Phase I Bog Turtle Habitat Assessments at numerous proposed bridge replacement and rehabilitation projects.

**Bridge Replacements and Rehabilitations in Chester County, PA:** Performed regulated waters delineations and Phase I Bog Turtle Habitat Assessments at numerous proposed bridge replacement and rehabilitation projects.

***Threatened and Endangered Species Surveys***

*Manage all threatened and endangered species surveys for the firm, with particular expertise in turtle, avian, and botanical T&E species. Listed as a Pennsylvania Fish and Boat Commission (PFBC) and United States Fish and Wildlife Service (USFWS) qualified recognized bog turtle (*Glyptemys muhlenbergii*) surveyor since May of 2000. Conducted hundreds of Phase I bog turtle habitat assessments, Phase II surveys, and Phase III trappings. Pennsylvania Fish and Boat Commission (PFBC) Scientific Collector's Permit (Type III) holder for the bog turtle.*

**Proposed Pipeline Right-of-Way, Ross Township, Monroe County, PA:** Conducted Bog Turtle Phase II Surveys and Phase III Trapping within large contiguous wetland complex to determine seasonal movements of the species. The data collected will assist the pipeline company in determining the best location to cross the wetland while minimizing disturbances to the protected species.

**Proposed Pipeline Right-of-Way, York and Adams Counties, PA:** Conducted Phase I Bog Turtle Surveys on all wetlands located within 300-feet of the proposed alignment for an approximately 64-mile section of the alignment.

**Proposed Transmission Line Tower Replacements, Bucks County, PA:** Conducted Phase I and Phase II Bog Turtle Surveys on all wetlands located within an approximately nine-mile corridor.

**Project Manager/Senior Environmental Scientist**

**PennDOT Engineering District 5-0, Lehigh, Monroe, Berks, and Lehigh Counties, PA:** State Routes 073; 4036; 082; 0419; 3036 – On behalf of the PennDOT Engineering District 5-0, conducted more than 30 Phase I habitat assessments for the bog turtle and more than 50 Phase II and Phase III Bog Turtle Surveys. Responsible for all agency coordination during these projects and obtained Pennsylvania Department of Environmental Protection General Permits for various forms of maintenance procedures.

**Development of Construction Monitoring Protocols:** On behalf of PennDOT Engineering Districts 5-0, 6-0, and 8-0, assisted with the development of Construction Monitoring Protocols used during routine maintenance and construction procedures on several State Routes located within the 14 counties known to contain bog turtles. These protocols are used to enable the Districts to conduct maintenance and construction procedures rapidly and efficiently and have been accepted by the United States Fish and Wildlife Service and Pennsylvania Fish and Boat Commission as vehicles to avoid and minimize impacts to the species.

**Programmatic Agreement for Bog Turtle Procedures, Statewide, PA:** On behalf of the PennDOT Environmental Quality Assurance Department, assisted the Districts in the development of a Programmatic Agreement with the United States Fish and Wildlife Service and Pennsylvania Fish and Boat Commission to obtain clearance for certain maintenance projects within the 14 counties where known bog turtle populations exist. This agreement provides a vehicle by which regulatory compliance is fulfilled during routine maintenance procedures. The agreement has also been used by local municipalities and private individuals to allow them to proceed with projects that may have indirect or direct impacts to bog turtles.

**Amtrak Atglen to Safe Harbor Rails-to-Trails, Lancaster County, PA:** Conducted Phase I Bog Turtle Habitat Assessments on all wetlands located within 300-feet of the proposed alignment for an approximately eight-mile section of the alignment.

**Berks County Bridge Repair/Replacement Projects, Berks County, PA:** On behalf of the County of Berks, completed Regulated Waters Delineations and Phase I Bog Turtle Habitat Assessments at the Berks County Bridges 24A, 30C, 32D, 35A, 35B, 36A, 37A, 39B, 40C, 43D, 46A, 46E, 46G, 48A, 54B, 55B, 55A, 55B, 58A, and 73B as part of the PA DEP General Permits for each project.

**Montgomery County Bridge Repair/Replacement Projects, Montgomery Township, PA:** On behalf of the County of Montgomery, completed Regulated Waters Delineations and Phase I Bog Turtle Habitat Assessments at the Montgomery County Bridges 74, 296, and 231 as part of the PA DEP General Permits for each project.

**Delaware County Bridge Repair/Replacement Projects, Delaware County, PA:** On behalf of the County of Delaware, completed Regulated Waters Delineations and Phase I Bog Turtle Habitat Assessments at the Delaware County Bridges 112, 143, 174, and 243 as part of the PA DEP General Permits for each project.

**Leidy Southeast Pipeline Expansion Project, Tobyhanna and Tunkhannock Townships, Monroe County, PA:** Performed Phase I Bog Turtle Habitat Assessments within 33 wetlands located along a proposed pipeline alignment as part of the PA DEP General Permitting for the project.

**Project Manager/Senior Environmental Scientist**

**Atlantic Access Pipeline, Adams and York Counties, PA:** Performed Phase I Bog Turtle Habitat Assessments within 36 wetlands located along a proposed 65-mile pipeline alignment as part of the PA DEP General Permitting for the project.

**Transco Northeast Supply Link – Palmerton Loop, Ross Township, Monroe County, PA:** Performed Bog Turtle Phase II Surveys, Phase III Trapping, and construction monitoring for an approximately 0.25-mile directional drill as part of the placement of a new petroleum pipeline.

**Lancaster County Solid Waste Management Authority, Lancaster County, PA:** Conducted agency coordination and migrating raptor surveys for two consecutive survey seasons in preparation for a wind turbine project which was successfully completed.

**Bear Creek Wind Farm, Luzerne County, PA:** Conducted bald eagle nest and migrating passerine surveys for a 12-turbine, 24-Megawatt project.

**State Route 0222 Bypass Extension and Expansion, Berks County, PA:** Assisted in the development of a Biological Opinion and Biological Assessment for a large-scale roadway construction project. Coordinated and conducted Phase II surveys for the federally threatened, Pennsylvania state endangered bog turtle for the U.S. Route 0222 Warren Street Expansion/ Extension Project. Additionally, conducted a radio telemetry study to determine what impacts, if any, the roadway expansion might have on a known population of bog turtles. Responsible for the design of a specialized containment fence to prevent the species from moving into the construction site. Developed and executed an Invasive Management Plan and Construction Monitoring Plan for the action areas of the project.

**Publications & Presentations**

Breeding Birds in a Mitigated Wetland in Northcentral Pennsylvania, USA, Millennium Wetland Event, Quebec, 2000 and the Pennsylvania Academy of Science, 2000.

The Preservation of Bog Turtle (*Glyptemys muhlenbergii*) Metapopulation Dynamics during a Roadway Improvement Project, International Conference on Transportation and the Environment (ICOET), 2003.

**Affiliations**

Past President, Vice President, and Secretary of the Pennsylvania Chapter of the Wildlife Society; and 2004 Meeting Chair, Pennsylvania Chapter of the Wildlife Society Conference

Pennsylvania Association of Environmental Professionals

Penn State Wildlife Technology Advisory Council Member (2008-present)

Muhlenberg Botanical Society

Ned Smith Center for Nature and Art, Member and Volunteer

Pennsylvania Chamber of Business and Industry

**GENERAL PERMIT 11  
MAINTENANCE, TESTING, REPAIR, REHABILITATION, OR  
REPLACEMENT OF WATER OBSTRUCTIONS AND ENCROACHMENTS**

**BERKS COUNTY BRIDGE 32A - MAINTENANCE**

**IN  
ALBANY TOWNSHIP  
BERKS COUNTY  
PENNSYLVANIA**

**MAY 2012**

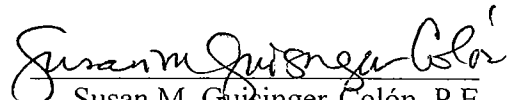
Prepared For: Berks County, Pennsylvania

Prepared By: McCormick Taylor, Inc.  
Exton, PA



**PROFESSIONAL ENGINEER CERTIFICATION**

I, Susan M. Guisinger-Colón, do hereby certify pursuant to the penalties of 18 Pa. C.S.A. Sec 4904 to the best of my knowledge, information and belief, that the information contained in the accompanying plans, specifications and reports has been prepared in accordance with accepted engineering practice, is true and correct, and is in conformance with Chapter 105 of the rules and regulations of the Department of Environmental Protection.

  
Susan M. Guisinger-Colón, P.E.  
PE - 060942

**General Permit 11 – Maintenance, Testing, Repair, Rehabilitation, or Replacement  
of Water Obstructions and Encroachments  
For  
The Pennsylvania Department of Environmental Protection**

Table of Contents

1. Completed Permit Registration Form and Project Screening Form
2. Copies and Proof of Notification of the Municipalities
3. Location Map
4. Completed Copy of a PNDI Search Form
5. Wetland Information Data Sheets
6. Color Photographs
7. Erosion and Sediment Control Plan

1. Completed Permit Registration Form and Project Screening Form



- ☐ Category I  
☐ Category II  
☐ Category III

Applicant / Project Name: Berks Co. Bridge 32A - Maintenance County(s): Berks

#### PASPGP-4 CUMULATIVE IMPACTS PROJECT SCREENING FORM

The following questionnaire must be completed and submitted to determine the appropriate Pennsylvania State Programmatic General Permit-4 (PASPGP-4) review procedure. Incomplete submissions will be returned. An "Overall Project," as defined for this form, includes all regulated activities that are reasonably related and necessary to accomplish the "Overall Project" purpose. An "Overall Project" must have a clear purpose, be able to function, and have independent utility. All regulated activities, including the direct and indirect impacts occurring as a result of the regulated activities, which are associated with the "Overall Project", should be considered cumulatively when completing this form. For linear projects, all impacts to waters and wetlands associated with the "Overall Project" should be added together and cumulatively viewed as impacts associated with the "Overall Project", which must have a defined beginning and end point. For linear projects, the application shall include a plan that depicts the location of the beginning and end points of the overall project, and all proposed crossings. See the PASPGP-4 permit document at: [www.nab.usace.army.mil/Wetlands%20Permits](http://www.nab.usace.army.mil/Wetlands%20Permits) and Part II, for the definition of Independent Utility and Single and Complete Project (discussion of "Overall Project").

The PASPGP-4 authorizes the discharge of dredged or fill materials and/or the placement of structures, for a single and complete project, including all attendant features, both temporary and/or permanent, which individually or cumulatively results in impacts to 1.0 acre or less of waters of the United States including jurisdictional wetlands. These discharges and placement of structures must comply with all the terms, conditions, and processing procedures identified in this PASPGP-4. Refer to the definitions and sketches in PASPGP-4, Part II for calculating the 1.0-acre eligibility threshold for linear projects.

Determination of PASPGP-4 eligibility – For Category I and II Activities, PADEP/County Conservation Districts will review the applications, if applicable, and verify if work is authorized by PASPGP-4. For Category III Activities, the Corps reviews applications and makes a case by case determination that work is eligible for authorization under PASPGP-4.

Applications for activities that individually or cumulatively impact more than 1.0 acre of waters of the United States, including jurisdictional wetlands, including all attendant features, both temporary and permanent, for a single and complete project; or that impact greater than 250 linear feet of streams, rivers, or other watercourses, except fish habitat enhancement structures authorized under PADEP GP-1 and bank rehabilitation and protection, authorized under PADEP GP-3 that affect 500 linear feet or less, are sent to the Corps as a Category III Activity, under PASPGP-4, Part IV, C, 2. The 1.0 acre area measurement includes the sum total of all waters of the United States including both jurisdictional wetlands and streams, rivers, other watercourses.

- For linear projects, the 250 linear foot Category III Activity threshold for stream impacts is applied to the total cumulative impacts of all crossings associated with the overall linear project, regardless of the type of PADEP authorization or combination of authorizations used to approve the overall project.
- Overall linear projects that have cumulative permanent and temporary impacts to waters of the United States, including jurisdictional wetlands, which exceed 1.0 acre, may still be eligible for PASPGP-4 authorization through a Category III review, provided no single and complete project exceeds the 1 acre threshold (see PASPGP-4, Part II for definition of single and complete project and acreage calculations). This verification of eligibility will be made by the Corps of Engineers.
- For phased projects, including phased linear projects, an overall project plan depicting all previously authorized or proposed impacts to waters and/or wetland is required as part of the application. A plan depicting phase I of the overall project would be submitted with any applications associated with phase I. At a later date, when applications associated with phase II are submitted, an overall plan that depicts the impacts for phase I and phase II is required. For example, if a utility line was previously authorized to run from point A to point B, and the permittee now wants to expand the utility line to point C, the plan will depict from point A to point C. In such a case, the overall project has been expanded to extend from point A to point C; the portion from point A to point B is needed for the section from point B to point C to function and meet the overall project purpose. If plan is not submitted as part of application, the application for the purposes of PASPGP-4 will be considered incomplete and the application may be sent to the Corps as a Category III Activity.

#### **SECTION A: PROPOSED IMPACTS**

Provide the size of impacts to waters and/or wetlands associated with your application, including temporary and/or permanent impacts, and direct and indirect impacts.

Included in this calculation are the areas directly and indirectly affected by the regulated activities, including the area of waters and/or wetlands filled, drained and/or flooded as a result of the regulated activities. See PASPGP-4, Part II, Definitions, for calculation of linear footage of stream impact, and Part IV, C, 2 for thresholds which require a Corps review of application (Category III Activity).

PADEP GP-11 allows for the registration of multiple overall projects as one time through submission of a project/work site table that identifies each of the separate overall projects. For work associated with PADEP GP-11 registrations, impacts associated with each project/work site should be list separately. This can be done through a separate PASPGP-4 Project Screening Form for each project/work site, or submission of a separate document/table that identifies each separate project/work site, the proposed work and impact information, as required by this section.

		square feet	linear feet
Permanent Impacts	to waters:	250	25
	to wetlands:	0	
Temporary Impacts	to waters:	4000	75
	to wetlands:	0	

#### **SECTION B: OTHER CHAPTER 105/SECTION 10/404 AUTHORIZATIONS**

YES NO

- ☐ ☒ 1. If known, has any work associated with the Overall Project been previously authorized by the Corps or DEP? If YES, please complete the table below. If additional space is needed, please attach the applicable information. Include the type of authorization or permit, permit or authorization number(s), date(s) of issuance, and permitted impacts (including square feet and/or linear footage), if applicable, with your application/registration form(s). Types of authorizations or permits may be abbreviated and include: Corps Nationwide Permit, Corps Individual Permit, Corps PASPGP, DEP General Permit, DEP Individual Permit (Dam and/or Encroachment) or DEP Environmental Assessment. See PASPGP-4, Part IV, C, 3 for applications which require a Corps review (Category III Activity).

EXAMPLES:

- If application is associated with the expansion of a residential development, i.e., construction of phase II, the authorizations and impacts, if applicable, associated with construction of phase I are to be identified and listed.
- If application is associated with a linear project, i.e., sewer line, waterline, utility line, etc., and the proposed work is an extension or additional phase being added to a previous segment, the authorizations, and impacts, if applicable, associated with construction of the previous segment(s) are to be identified and listed. For example, if a utility line is constructed from point A to point B, and a year later an extension of the line to point C is proposed, the authorizations and impacts associated with construction of point A to point B should be listed/identified. In this case, the overall project is from point A to point C, as the portion from point A to point B is needed for the section from point B to point C to function and meet the overall project purpose.

Authorization Type	Authorization Number	Date (mm/dd/yyyy)	Permitted Impacts	
			wetlands	waters

YES NO

- ☐ ☒ 2. Are additional Corps and/or DEP authorizations required for your proposed work to function and have independent utility? If YES, please complete the table below. If additional space is needed, please attach the applicable information.

EXAMPLES:

- Development of a residential subdivision may require the filling of waters and/or wetlands for the construction of access roads, utility line crossings, and/or lot development. In such a case, if application is only for the utility lines, the work and impacts associated with the road crossings and lot development need to be identified. For the overall development to function, the road crossings and lot development are needed, not just utilities.
- If widening of a road for construction of a turn lane is needed to facilitate an industrial development, applications associated for the industrial development to construct utility lines and lot development need to include the work and impacts associated with the construction of the turn lane. The construction of the turn lane is needed for the industrial develop to function; the two projects are not separate independent projects.



- c. If the application is associated with a linear project, such as an underground electric line or waterline, and additional permits are need to for the utility lines to function, i.e., convey electricity or water from source to user, the additional work and impacts need to be identified. For the overall utility line to function, the entire line needs to be constructed; a segment that will not function does not have independent utility.

Authorization Type	Date (if known)	Anticipated Impacts	
		wetlands	waters

#### SECTION C: ACTIVITIES RELATED TO RESIDENTIAL, COMMERCIAL AND INSTITUTIONAL DEVELOPMENTS

The term "Subdivision", for the purposes of this form, is defined as the division or redivision of a lot, tract or parcel of land into two or more lots, tracts, parcels or other divisions of land including changes to existing lot lines.

YES NO

- ☐ ☒ 1. Does the Overall Project involve the construction or expansion of a residential, commercial or institutional subdivision or development? If YES, proceed to question 2. If NO, leave questions 2 and 3 blank.
- ☐ ☐ 2. Does greater than 0.25 acres of wetlands exist within the property boundary (not including those being directly impacted as part of this application)? If YES, provide wetland acreage: \_\_\_\_\_ acres. If NO, leave question 3 blank.
- ☐ ☐ 3. Are you proposing to protect the wetland area(s) through a deed restriction or conservation easement that follows the Corps' Model Conservation Instruments? If YES, attach a copy of the proposed deed restriction or conservation easement to this form and submit with your application/registration form. Model Conservation Instruments are available at [www.nab.usace.army.mil/Wetlands%20Permits/](http://www.nab.usace.army.mil/Wetlands%20Permits/). Failure to submit a proposed deed restriction or conservation easement with permit application/registration form requires a Category III review under PASPGP-4, Part IV, C, 24.

#### SECTION D: CERTIFICATION

I certify that the information provided on this form is true and correct to the best of my knowledge and information. If any of the information and/or plans is found to be in error, falsified, and/or incomplete, your Chapter 105/PASPGP-4 authorization/verification may be subject to modification, suspension, or revocation in accordance with applicable regulations.

  
Signature of Applicant

6 January 2012  
Date

Ryan Hunter, Facilities Director  
Name Typed or Printed



**pennsylvania**

DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATERSHED MANAGEMENT  
WATER OBSTRUCTION AND ENCROACHMENT

DEP USE ONLY

Acknowledged Date \_\_\_\_\_

GP \_\_\_\_\_

PASPGP-4 Authorization included:

☐ YES ☐ NO

Transfer Date \_\_\_\_\_

**BWM-GP-11 GENERAL PERMIT REGISTRATION**  
**Maintenance, Testing, Repair, Rehabilitation, or**  
**Replacement of Water Obstructions and Encroachments**

**SECTION A. APPLICANT INFORMATION**

Check One: ☒ New Permit ☐ Transfer of Existing Permit – complete Sections A, C & G and transfer form - 3930-PM-WM0016

Existing Permit(s) Number for Project(s) with a Submerged Lands License Agreement or an annual fee (if applicable):

Applicant Name \_\_\_\_\_ Employer ID# (EIN) \_\_\_\_\_

County of Berks

Contact Person Last Name	First Name	MI	Telephone
Hunter	Ryan		(610) 478-6201

Mailing Address	City	State	Zip + 4
Berks County Services Center, Facilities & Operations - 16th Floor	Reading	PA	19601

Email Address facilities@countyofberks.com

**SECTION B. CONSULTANT (if applicable)**

Consultant - Last Name	First Name	MI
Guisinger-Colón	Susan	M.

Consulting Firm  
McCormick Taylor, Inc.

Mailing Address	City	State	Zip + 4
222 Valley Creek Boulevard, Suite 130	Exton	PA	19341

Telephone	FAX	Email
(610) 640-3500	(610)640-3503	SMGuisingerColon@MTmail.biz

### SECTION C. INSTRUCTIONS

If you have any questions concerning whether your project qualifies for GP-11 please contact your regional office (Exhibit B).

1. Prepare a project location map using the appropriate portion of the USGS 7½ Minute Quadrangle Map or other suitable mapping with the project site(s) identified. Number each activity making sure it corresponds with the activity number found in the Project Inventory Chart (Section D1).
2. **Project Description:** Describe the project in enough detail to allow Department to determine that the proposed work complies with both the terms and environmental and engineering conditions of the General Permit. (A project can be one structure or a series of structures that are related to one another located in one county.)

This project includes the repair of the existing stone masonry substructure and the installation of grout bag underpinning and rock protection to prevent scour at the bridge pier. This work will not alter the hydraulic opening of the bridge. The contractor will construct a cofferdam and dewater the work area to provide access for construction equipment. Any sediment-laden runoff caused by construction or earth disturbance activities related to scour prevention shall be contained within the dewatered work area. All repair work to the substructure that may cause earth disturbance and/or sediments shall be protected by compost filter socks. All work shall be conducted in accordance with Department Standards.

(attach additional sheets if necessary)

3. Using the Project Inventory Chart (Section D1), list each water obstruction and/or encroachment that requires maintenance. Please fill out the row for each activity in its entirety. Please make sure the activity number corresponds with the area identified on the site location map.
4. If you are proposing a bridge or culvert replacement or the proposed work will change the waterway opening, please complete and provide the chart in Section D2. If the project consists of similar work (replacement or change in waterway opening) on more than one structure, submit the data requested in Section D2 for each structure included in this registration.
5. For bridges and culverts across a watercourse which are to be used by the general public such as an access to an industrial, commercial, or residential development, etc., plans, specifications and hydrologic and hydraulic reports shall be prepared and submitted by a registered professional engineer and shall be affixed with their seal and certification.
6. For bridge or culvert replacements, activities that reduce the size of the waterway opening, or work on a structure that poses a threat to human life or a substantial potential risk to property, plans, specifications and hydrologic and hydraulic reports shall be prepared and submitted by a registered professional engineer and shall be affixed with their seal and certification.
7. Submit 2 complete copies of the permit registration form and plans including all Erosion and Sediment Controls to the appropriate Regional Office.

SECTION D1. PROJECT INVENTORY For _____ County*								
	Existing Permit Number and Type of Water Obstruction (Bridge, Culvert, Utility Stream Crossing, Utility Wetland Crossing)	Activity Type (Maintenance, testing, repair, rehabilitation, or replacement)	Earth Disturbance (sq. ft.)	Name of USGS Quadrangle Map	Municipality Where Project is Located	Name of Stream	Chapter 93 Stream Designation	Special PFBC Designation (Wild Trout, Stocked Trout, Migratory Fishes)
1	Berks Co. Bridge 32A Greenawalt Bridge	Maintenance	4000	Kutztown	Albany	Maiden Creek	TSF, MF	Stocked Trout
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

\*For multiple structures attach additional sheets that provide the same information requested in the chart.

\*\*The number used for a particular water obstruction from Section D1 should match the number in Section D2 for the same water obstruction.

SECTION D2. BRIDGE AND/OR CULVERT REPLACEMENT PROJECTS OR PROJECTS THAT CHANGE THE WATERWAY OPENING*										
Activity Number**	Bridge/Culvert Existing					Bridge/Culvert Proposed				
	Waterway Opening (sq. ft.) (cross section/area)	Span (ft.)	Underclearance (ft.)	Length (ft.) (upstream to downstream)	Material Type (RCP, CMP, etc.)	Waterway Opening (sq. ft.) (cross section/area)	Span (ft.)	Underclearance (ft.)	Length (ft.) (upstream to downstream)	Material Type (RCP, CMP, etc.)
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

\*For multiple structures attach additional sheets that provide the same information requested in the chart.  
\*\*The number used for a particular water obstruction from Section D1 should match the number in Section D2 for the same water obstruction.



## SECTION E. COMPLIANCE REVIEW

Yes No

☐ ☒ Is the applicant (owner and/or operator) currently in violation of any permits issued by the Department?

If yes, please provide:

1. Permit Number: \_\_\_\_\_

2. Nature of the violation (if any): \_\_\_\_\_

3. Status of violation (i.e., schedule for compliance, etc.): \_\_\_\_\_

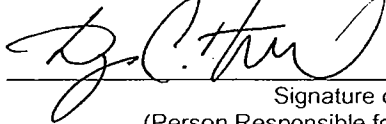
## SECTION F. OTHER PERMITS

Yes No

☐ ☒ Are any other Chapter 105 permits required for this project, excluding GP-8?

## SECTION G. CERTIFICATION

I certify that the information provided in this permit registration is true and correct to the best of my knowledge and information.



Signature of Permittee  
(Person Responsible for Installation, Operation  
and Maintenance of Authorized Activity)

6 January 2012  
Date

Ryan Hunter, Facilities Director

Type or Print Name

AN ACKNOWLEDGED COPY OF THIS GENERAL PERMIT AND THE EROSION AND SEDIMENT CONTROL PLAN REVIEWED BY THE DEP REGIONAL OFFICE MUST BE AVAILABLE AT THE PROJECT SITE DURING CONSTRUCTION.

**SECTION H. REGISTRATION CHECKLIST**

In order to register use of this General Permit, confirm the following:

N/A

- ☐ ☒ I/we have notified the Municipality and County.
- ☒ ☐ I/we hereby notify the Department that BDWM-GP-8, Temporary Road Crossing will also be utilized during the maintenance activity.

Please Submit:

- ☐ ☒ Completed Permit Registration Form.
- ☐ ☒ Completed Cumulative Impact Project Screening Form.
- ☐ ☒ LOCATION MAP. An 8 ½" by 11" photocopy of a portion of the U.S.G.S. 7 ½ Minute Quadrangle Map or suitable mapping with the project site(s) identified. Quadrangle Name: Kutztown
- ☐ ☒ Wetland Information Data Sheets, Field Notes, or Photos of the wetland area.
- ☐ ☒ Engineering plan or sketch drawing that provides the necessary information.
- ☒ ☐ Project cross-section drawing.
- ☐ ☒ Completed copy of a PNDI Search Form with Search Receipt.
- ☒ ☐ For bridge or culvert replacements, activities that reduce the size of the waterway opening, or work on a structure that poses a threat to human life or a substantial potential risk to property, plans, specifications and hydrologic and hydraulics report shall be prepared and submitted by a registered professional engineer and shall be affixed with their seal and certification.
- ☐ ☒ Erosion and Sediment Control Plan for earth disturbance activities
- ☒ ☐ Any existing Submerged Lands License Agreements

Please submit where required:

- ☐ ☒ Photographs – For projects involving a waterway opening, photos upstream and downstream of the existing structure are required.
- ☒ ☐ Bog Turtle Habitat Screening Form (where required). This screening is required for General Permits 5, 6, 7, 8, 9, and 11 which may impact wetlands in the following counties: Adams, Berks, Bucks, Carbon (Aquashicola Creek Watershed only), Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill (Swatara Creek Watershed only), and York.

**SECTION 11. DRAWINGS/PLANS**

1) Engineering drawings prepared and sealed by a Professional Engineer are required for the following types of projects:

- a) bridge and culvert replacements
- b) activities that reduce the size of the waterway opening
- c) bridges or culverts across a watercourse which are to be used by the general public
- d) work on a structure that poses a threat to human life or a substantial potential risk to property

2) Prepared plans or sketch plans maybe submitted for activities not listed in 1 a) through d).

\*Please make sure the information below is provided on all engineering plans, drawings, and other prepared plans or sketch plan required for registration.

**SECTION 12. DRAWINGS/PLANS CHECKLIST**

YES	N/A		YES	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Permanent Waters Impacts with Dimensions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stream Name <u>Maiden Creek</u>
		Total Length <u>25</u>			
		Total sq. ft. <u>250</u>	<input checked="" type="checkbox"/>		Chapter 93 Stream Designation <u>TSF, MF</u>
		# of impacts <u>1</u>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temporary Stream Impacts <u>4000</u> sq. ft.	<input type="checkbox"/>		Location of Property Lines Relative to the Project
		# of impacts <u>1</u>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Wetland Acreage Onsite _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Existing Utilities
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Permanent Wetland Impacts _____ sq. ft.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Proposed Utilities
		# of impacts _____			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Temporary Wetland Impacts _____ sq. ft.			
		# of impacts _____			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stream Limits and Flow Direction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Existing Buildings, Roadways, Other Structures
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Floodway Limits (if known)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Proposed Buildings, Roadways, Other Structures
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Limits of Earth Disturbance Associated with this Activity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Waters on project site (i.e. pond, lakes)
			<input checked="" type="checkbox"/>		Please indicate North
			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Please indicate photo locations

Use the next sheet for sketch if applicable

**SKETCH PLAN**  
(if applicable)

\_\_\_\_\_  
Applicant Name

\_\_\_\_\_  
Scale 1" = \_\_\_\_\_ ft

\_\_\_\_\_  
Applicant Name

**PROJECT CROSS SECTIONS**

Provide a cross section of the project if not included on the Engineering Drawings, showing the dimensions of the waterway opening, area of fill materials used, and other pertinent information necessary to accurately depict the scope of your project, and allow the Department to determine that the project complies with the terms and conditions of this General Permit.

## 2. Copies and Proof of Notification of the Municipalities



December 15, 2011

Ryan Hunter, Facilities Director  
Berks County Services Center  
Facilities & Operations Department  
633 Court Street, 16<sup>th</sup> Floor  
Reading, Pennsylvania 19601

REFERENCE: Notification of General Permit  
Berks County Bridges 32A  
Albany Township, Berks County

Dear Mr. Hunter:

On behalf of Berks County, McCormick Taylor, Inc. is preparing a General Permit Registration package for a Pennsylvania Department of Environmental Protection (DEP) Maintenance, Testing, Repair, Rehabilitation, or Replacement of Water Obstructions and Encroachments Permit (GP-11) for Berks County Bridge 32A, carrying Little Round Top Road over Maiden Creek, located in the Township of Albany, Berks County, Pennsylvania.

This permit will serve as authorization to conduct general maintenance on the structure and stream channel. General maintenance is required to provide a bridge that is safe for the traveling public and ensure adequate hydraulic capacity. Once authorized the County will perform regular maintenance to repair and prevent scour at bridge pier and abutments and remove accumulated debris and sediment deposits from the waterway opening. All work shall be conducted in accordance with Department Standards.

Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a DEP permit must give written notice to the municipalities and the county in which the permitted activity is located. The written notices shall be received by the municipalities and county at least 30 days before the Department may issue or deny the permit.

Acts 67 and 68, which amended the Municipalities Planning Code to support sound land use practices and planning efforts, direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 719.2 and 1105 of the Municipalities Planning Code. Enclosed is a General Information Form (GIF) we have completed for this project. DEP invites you to review the attached GIF and comment on the land use aspects of this project; please be specific to DEP when identifying any areas of conflict. If you wish to submit comments for DEP to consider in a land use review of this project, you must respond within 30 days to the DEP

regional office listed below. If there are no land use comments received by the end of the comment period, DEP will assume that there are no substantive land use conflicts and proceed with the normal application review process.

Department of Environmental Protection – Southcentral Regional Office  
909 Elmerton Avenue, 2<sup>nd</sup> Floor  
Harrisburg, Pennsylvania 17110  
(717) 705-4800

Please accept this letter as written notification that Berks County is preparing a GP-11 General Permit Registration package for the above referenced bridge. The certified mail receipt will be used as proof of your receipt of this notification as required by the Commonwealth of the State of Pennsylvania.

Sincerely,



Jen S. Payne-McAleer  
Project Manager

pc: McCormick Taylor  
Susan Guisinger-Colón, P.E.

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <div style="display: flex; align-items: center;"> <span style="font-size: 2em; margin-right: 10px;">X</span> <div style="margin-left: 10px;"> <input checked="" type="checkbox"/> Agent  <input type="checkbox"/> Addressee </div> </div> </p> <p>B. Received by (Printed Name)  <u>Amy E. Fernandez</u> </p> <p>C. Date of Delivery  <u>DEC 1</u> </p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  If YES, enter delivery address below: <input type="checkbox"/> No </p>
<p>1. Article Addressed to:</p> <p style="margin-top: 20px;">Ryan Hunter, Facilities Director  Berks County Services Center  Facilities &amp; Operation Dept.  633 Court Street, 16<sup>th</sup> Floor  Reading, PA 19601</p>	<p>3. Service Type</p> <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Certified Mail  <input type="checkbox"/> Registered  <input type="checkbox"/> Insured Mail </div> <div> <input type="checkbox"/> Express Mail  <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> C.O.D. </div> </div> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number  (Transfer from service label) <u>7009 1410 0002 4729 5238</u></p>	

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

7009 1410 0002 4729 5238

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

OFFICIAL USE

Postage	\$	<u>.64</u>	Postmark Here
Certified Fee		<u>2.85</u>	
Return Receipt Fee <small>(Endorsement Required)</small>		<u>2.30</u>	
Restricted Delivery Fee <small>(Endorsement Required)</small>			
Total Postage & Fees	\$	<u>5.99</u>	

**Sent To** Ryan Hunter, Facilities Director

**Street, Apt. No., or PO Box No.** Berks County Services Center

**City, State, ZIP+4** Facilities & Operation Dept.  
633 Court Street, 16<sup>th</sup> Floor  
Reading, PA 19601

PS Form 3800, At

VS

December 15, 2011

Monica Rabert, Appt. Municipal Secretary/Treasurer  
Albany Township  
P.O. Box 197  
Kempton, Pennsylvania 19529

REFERENCE: Notification of General Permit  
Berks County Bridge 32A  
Albany Townships, Berks County

Dear Mrs. Rabert:

On behalf of Berks County, McCormick Taylor, Inc. is preparing a General Permit Registration package for a Pennsylvania Department of Environmental Protection (DEP) Maintenance, Testing, Repair, Rehabilitation, or Replacement of Water Obstructions and Encroachments Permit (GP-11) for Berks County Bridge 32A, carrying Little Round Top Road over Maiden Creek, located in the Township of Albany, Berks County, Pennsylvania.

This permit will serve as authorization to conduct general maintenance on the structure and stream channel. General maintenance is required to provide a bridge that is safe for the traveling public and ensure adequate hydraulic capacity. Once authorized the County will perform regular maintenance to repair and prevent scour at bridge pier and abutments and remove accumulated debris and sediment deposits from the waterway opening. All work shall be conducted in accordance with Department Standards.

Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a DEP permit must give written notice to the municipalities and the county in which the permitted activity is located. The written notices shall be received by the municipalities and county at least 30 days before the Department may issue or deny the permit.

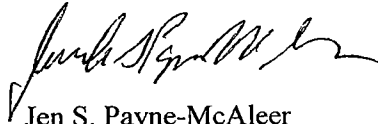
Acts 67 and 68, which amended the Municipalities Planning Code to support sound land use practices and planning efforts, direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 719.2 and 1105 of the Municipalities Planning Code. Enclosed is a General Information Form (GIF) we have completed for this project. DEP invites you to review the attached GIF and comment on the land use aspects of this project; please be specific to DEP when identifying any areas of conflict. If you wish to submit comments for DEP to consider in a land use review of this project, you must respond within 30 days to the DEP regional office listed below. If there are no land use comments received by the end of the

comment period, DEP will assume that there are no substantive land use conflicts and proceed with the normal application review process.

Department of Environmental Protection – Southcentral Regional Office  
909 Elmerton Avenue, 2<sup>nd</sup> Floor  
Harrisburg, Pennsylvania 17110  
(717) 705-4800

Please accept this letter as written notification that Berks County is preparing a GP-11 General Permit Registration package for the above referenced bridge. The certified mail receipt will be used as proof of your receipt of this notification as required by the Commonwealth of the State of Pennsylvania.

Sincerely,



Jen S. Payne-McAleer  
Project Manager

pc: McCormick Taylor  
Susan Guisinger-Colón, P.E.

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY						
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <i>x Monica K Rabert</i>    <input checked="" type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)    C. Date of Delivery  <i>Monica K Rabert</i>    <i>12/28/11</i></p> <p>D. Is delivery address different from item 1?    <input type="checkbox"/> Yes  If YES, enter delivery address below:    <input type="checkbox"/> No</p>						
<p>1. Article Addressed to:</p>  <p>Monica Rabert  Albany Township  P.O. Box 197  Kempton, PA 19529</p>	<p>3. Service Type</p> <table style="width: 100%; border: none;"> <tr> <td><input checked="" type="checkbox"/> Certified Mail</td> <td><input type="checkbox"/> Express Mail</td> </tr> <tr> <td><input type="checkbox"/> Registered</td> <td><input checked="" type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td><input type="checkbox"/> C.O.D.</td> </tr> </table> <p>4. Restricted Delivery? (Extra Fee)    <input type="checkbox"/> Yes</p>	<input checked="" type="checkbox"/> Certified Mail	<input type="checkbox"/> Express Mail	<input type="checkbox"/> Registered	<input checked="" type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Insured Mail	<input type="checkbox"/> C.O.D.
<input checked="" type="checkbox"/> Certified Mail	<input type="checkbox"/> Express Mail						
<input type="checkbox"/> Registered	<input checked="" type="checkbox"/> Return Receipt for Merchandise						
<input type="checkbox"/> Insured Mail	<input type="checkbox"/> C.O.D.						
<p>2. Article Number  (Transfer from service label)    <span style="float: right;">7009 1410 0002 4729 5245</span></p>							
<p>PS Form 3811, February 2004    Domestic Return Receipt    102595-02-M-1540</p>							

7009 1410 0002 4729 5245

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

OFFICIAL USE

Postage	\$	.64
Certified Fee		2.05
Return Receipt Fee (Endorsement Required)		2.30
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	5.79

Sent To

Street, Apt. No.,  
or PO Box No.

City, State, ZIP+4

Monica Rabert  
Albany Township  
P.O. Box 197  
Kempton, PA 19529

Postmark  
Here

KSP

PS Form 3800, Au



Form



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

## GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the Department.

<b>Related ID#s (If Known)</b> Client ID# _____ APS ID# _____ Site ID# _____ Auth ID# _____ Facility ID# _____		<b>DEP USE ONLY</b> Date Received & General Notes
---	--	--

### CLIENT INFORMATION

<b>DEP Client ID#</b>		<b>Client Type / Code</b> CNTY		
<b>Organization Name or Registered Fictitious Name</b> County of Berks		<b>Employer ID# (EIN)</b>		<b>Dun &amp; Bradstreet ID#</b>
<b>Individual Last Name</b> Hunter	<b>First Name</b> Ryan	<b>MI</b>	<b>Suffix</b>	<b>SSN</b>
<b>Additional Individual Last Name</b>	<b>First Name</b>	<b>MI</b>	<b>Suffix</b>	<b>SSN</b>
<b>Mailing Address Line 1</b> Berks County Services Center, Facilities & Operations - 16 <sup>th</sup> Floor		<b>Mailing Address Line 2</b> 633 Court Street		
<b>Address Last Line – City</b> Reading		<b>State</b> PA	<b>ZIP+4</b> 19601	<b>Country</b> USA
<b>Client Contact Last Name</b> Hunter	<b>First Name</b> Ryan	<b>MI</b>	<b>Suffix</b>	
<b>Client Contact Title</b> Facilities Director		<b>Phone</b> (610) 478-6201		<b>Ext</b>
<b>Email Address</b> facilities@countyofberks.com		<b>FAX</b> (610) 478-3378		

### SITE INFORMATION

<b>DEP Site ID#</b>	<b>Site Name</b> Berks County Bridge 32A - Greenawalt Bridge			
<b>EPA ID#</b>	<b>Estimated Number of Employees to be Present at Site</b>			1 - 6
<b>Description of Site</b> Rural stream crossing, local/rural road				
<b>County Name</b> Berks	<b>Municipality</b> Albany	<b>City</b> <input type="checkbox"/>	<b>Boro</b> <input type="checkbox"/>	<b>Twp</b> <input checked="" type="checkbox"/>
<b>County Name</b>	<b>Municipality</b>	<b>City</b> <input type="checkbox"/>	<b>Boro</b> <input type="checkbox"/>	<b>Twp</b> <input type="checkbox"/>
<b>Site Location Line 1</b> Little Round Top Road over Maiden Creek		<b>Site Location Line 2</b>		
<b>Site Location Last Line – City</b> Kempton		<b>State</b> PA	<b>ZIP+4</b> 19529	
<b>Detailed Written Directions to Site</b> From I-78, take exit for SR-143, travel north for approximately 2.6 miles and turn right onto Little Round Top Road. Berks County Bridge 32A is located approx. 250 feet from the intersection of Little Round Top Road and SR-143.				
<b>Site Contact Last Name</b> Payne-McAleer	<b>First Name</b> Jen	<b>MI</b> S.	<b>Suffix</b>	
<b>Site Contact Title</b> Project Manager		<b>Site Contact Firm</b> McCormick Taylor, Inc.		
<b>Mailing Address Line 1</b> 222 Valley Creek Boulevard		<b>Mailing Address Line 2</b> Suite 130		

<b>Mailing Address Last Line – City</b> Exton			<b>State</b> PA	<b>ZIP+4</b> 19341
<b>Phone</b> (610) 640-3500	<b>Ext</b>	<b>FAX</b> (610) 640-3503	<b>Email Address</b> JPayne-McAleer@MTmail.biz	
<b>NAICS Codes</b> (Two- & Three-Digit Codes – List All That Apply) 23, 237			<b>6-Digit Code</b> (Optional) 237310	
<b>Client to Site Relationship</b> OWN				

### FACILITY INFORMATION

<b>Modification of Existing Facility</b>				<b>Yes</b>	<b>No</b>
1. Will this project modify an existing facility, system, or activity?				<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Will this project involve an addition to an existing facility, system, or activity?				<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>If "Yes", check all relevant facility types and provide DEP facility identification numbers below.</i>					
<b>Facility Type</b>	<b>DEP Fac ID#</b>	<b>Facility Type</b>	<b>DEP Fac ID#</b>		
<input type="checkbox"/> Air Emission Plant		<input type="checkbox"/> Industrial Minerals Mining Operation			
<input type="checkbox"/> Beneficial Use (water)		<input type="checkbox"/> Laboratory Location			
<input type="checkbox"/> Blasting Operation		<input type="checkbox"/> Land Recycling Cleanup Location			
<input type="checkbox"/> Captive Hazardous Waste Operation		<input type="checkbox"/> MineDrainageTrmt/LandRecyProjLocation			
<input type="checkbox"/> Coal Ash Beneficial Use Operation		<input type="checkbox"/> Municipal Waste Operation			
<input type="checkbox"/> Coal Mining Operation		<input type="checkbox"/> Oil & Gas Encroachment Location			
<input type="checkbox"/> Coal Pillar Location		<input type="checkbox"/> Oil & Gas Location			
<input type="checkbox"/> Commercial Hazardous Waste Operation		<input type="checkbox"/> Oil & Gas Water Poll Control Facility			
<input type="checkbox"/> Dam Location		<input type="checkbox"/> Public Water Supply System			
<input type="checkbox"/> Deep Mine Safety Operation -Anthracite		<input type="checkbox"/> Radiation Facility			
<input type="checkbox"/> Deep Mine Safety Operation -Bituminous		<input type="checkbox"/> Residual Waste Operation			
<input type="checkbox"/> Deep Mine Safety Operation -Ind Minerals		<input type="checkbox"/> Storage Tank Location			
<input type="checkbox"/> Encroachment Location (water, wetland)		<input type="checkbox"/> Water Pollution Control Facility			
<input type="checkbox"/> Erosion & Sediment Control Facility		<input type="checkbox"/> Water Resource			
<input type="checkbox"/> Explosive Storage Location		<input type="checkbox"/> Other:			
<b>Latitude/Longitude</b>	<b>Latitude</b>			<b>Longitude</b>	
<b>Point of Origin</b>	<b>Degrees</b>	<b>Minutes</b>	<b>Seconds</b>	<b>Degrees</b>	<b>Minutes</b>
--	40	36	13	-75	52
<b>Horizontal Accuracy Measure</b>	<b>Feet</b>	--	--or--	<b>Meters</b>	--
<b>Horizontal Reference Datum Code</b>	<input type="checkbox"/> North American Datum of 1927 <input type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984				
<b>Horizontal Collection Method Code</b>	--				
<b>Reference Point Code</b>	--				
<b>Altitude</b>	<b>Feet</b>	--	--or--	<b>Meters</b>	--
<b>Altitude Datum Name</b>	<input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88)				
<b>Altitude (Vertical) Location Datum Collection Method Code</b>	--				
<b>Geometric Type Code</b>	--				
<b>Data Collection Date</b>	--				
<b>Source Map Scale Number</b>	--	<b>Inch(es)</b>	=	--	<b>Feet</b>
	--or--	<b>Centimeter(s)</b>	=	--	<b>Meters</b>

### PROJECT INFORMATION

<b>Project Name</b> Berks County Bridge 32A - Greenawalt Bridge			
<b>Project Description</b> Two-span, 104-foot long steel I-beam bridge that requires regular structural and channel maintenance			
<b>Project Consultant Last Name</b> Payne-McAleer	<b>First Name</b> Jen	<b>MI</b> S	<b>Suffix</b>
<b>Project Consultant Title</b> Project Manager		<b>Consulting Firm</b> McCormick Taylor, Inc.	
<b>Mailing Address Line 1</b> 222 Valley Creek Boulevard		<b>Mailing Address Line 2</b> Suite 130	

<b>Address Last Line – City</b> Exton		<b>State</b> PA	<b>ZIP+4</b> 19341
<b>Phone</b> (610) 640-3500	<b>Ext</b>	<b>FAX</b> (610) 640-3503	<b>Email Address</b> JPayne-McAleer@MTmail.biz
<b>Time Schedules</b> No work in Trout Stocked stream from February 15 to July 31	<b>Project Milestone (Optional)</b>		

1.	Have you informed the surrounding community and addressed any concerns prior to submitting the application to the Department?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.	Is your project funded by state or federal grants?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
<b>Note:</b> If "Yes", specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date. Aspect of Project Related to Grant _____ Grant Source: _____ Grant Contact Person: _____ Grant Expiration Date: _____					
3.	Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions)	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
<b>Note:</b> If "No" to Question 3, the application is not subject to the Land Use Policy. If "Yes" to Question 3, the application is subject to this policy and the Applicant should answer the additional questions in the Land Use Information section.					

**LAND USE INFORMATION**

**Note:** Applicants are encouraged to submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

1.	Is there an adopted county or multi-county comprehensive plan?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.	Is there an adopted municipal or multi-municipal comprehensive plan?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.	Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>Note:</b> If the Applicant answers "No" to either Questions 1, 2 or 3, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 4 and 5 below. If the Applicant answers "Yes" to questions 1, 2 and 3, the Applicant should respond to questions 4 and 5 below.					
4.	Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval? If zoning approval has been received, attach documentation.	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.	Have you attached Municipal and County Land Use Letters for the project?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

## COORDINATION INFORMATION

**Note:** The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 and the accompanying Cultural Resource Notice Form.

**If the activity will be a mining project** (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

**If the activity will not be a mining project**, skip questions 1.0 through 2.5 and begin with question 3.0.

1.0	Is this a coal mining project? If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
1.1	Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.2	Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.3	Will this coal mining project involve coal preparation/ processing activities in which thermal coal dryers or pneumatic coal cleaners will be used?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.4	For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.5	Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.6	Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.0	Is this a non-coal (industrial minerals) mining project? If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
2.1	Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.2	Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.3	Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.4	For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.5	Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

3.0	Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
3.1	Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.2	Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> .	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.3	Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
4.0	Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage. 4.0.1 Total Disturbed Acreage 0.21	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.0	Does the project involve any of the following? If "Yes", respond to 5.1-5.3. If "No", skip to Question 6.0.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.1	Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.2	Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
5.3	Floodplain Projects by the commonwealth, a Political Subdivision of the commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
6.0	Will the project involve discharge of stormwater or wastewater from an industrial activity to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
7.0	Will the project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
8.0	Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable. 8.0.1 Estimated Proposed Flow (gal/day)	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
9.0	Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system? 9.0.1 Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
10.0	Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year). 10.0.1 Gallons Per Year (residential septage) 10.0.2 Dry Tons Per Year (biosolids)	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
11.0	Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam. 11.0.1 Dam Name	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

12.0	Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
12.0.1	Dam Name				
13.0	Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify each type of emission followed by the amount of that emission.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
13.0.1	Enter all types & amounts of emissions; separate each set with semicolons.				
14.0	Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
14.0.1	Number of Persons Served				
14.0.2	Number of Employee/Guests				
14.0.3	Number of Connections				
14.0.4	Sub-Fac: Distribution System	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.5	Sub-Fac: Water Treatment Plant	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.6	Sub-Fac: Source	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.7	Sub-Fac: Pump Station	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.8	Sub Fac: Transmission Main	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.9	Sub-Fac: Storage Facility	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
15.0	Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0	Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0.1	Supplier's Name				
16.0.2	Letter of Approval from Supplier is Attached	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
17.0	Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", should reference both Water Supply and Watershed Management.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
17.0.1	Stream Name				
18.0	Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
18.0.1	Type & Amount				
19.0	Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0	Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. <b>Note:</b> Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0.1	Enter all substances & capacity of each; separate each set with semicolons.				
21.0	Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. <b>Note:</b> Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
21.0.1	Enter all substances & capacity of each; separate each set with semicolons.				

- 22.0 Does your project involve installation of a tank greater than 1,100 gallons which will contain a highly hazardous substance as defined in DEP's Regulated Substances List, 2570-BK-DEP2724? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. ☐ Yes ☒ No  
 22.0.1 Enter all substances & capacity of each; separate each set with semicolons.
- 23.0 Does your project involve installation of a storage tank at a new facility with a total AST capacity greater than 21,000 gallons? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. ☐ Yes ☒ No  
 23.0.1 Enter all substances & capacity of each; separate each set with semicolons.
- 24.0 Will the intended activity involve the use of a radiation source? ☐ Yes ☒ No

### CERTIFICATION

I certify that I have the authority to submit this application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information.

Type or Print Name Jen S. Payne-McAleer

  
 Signature

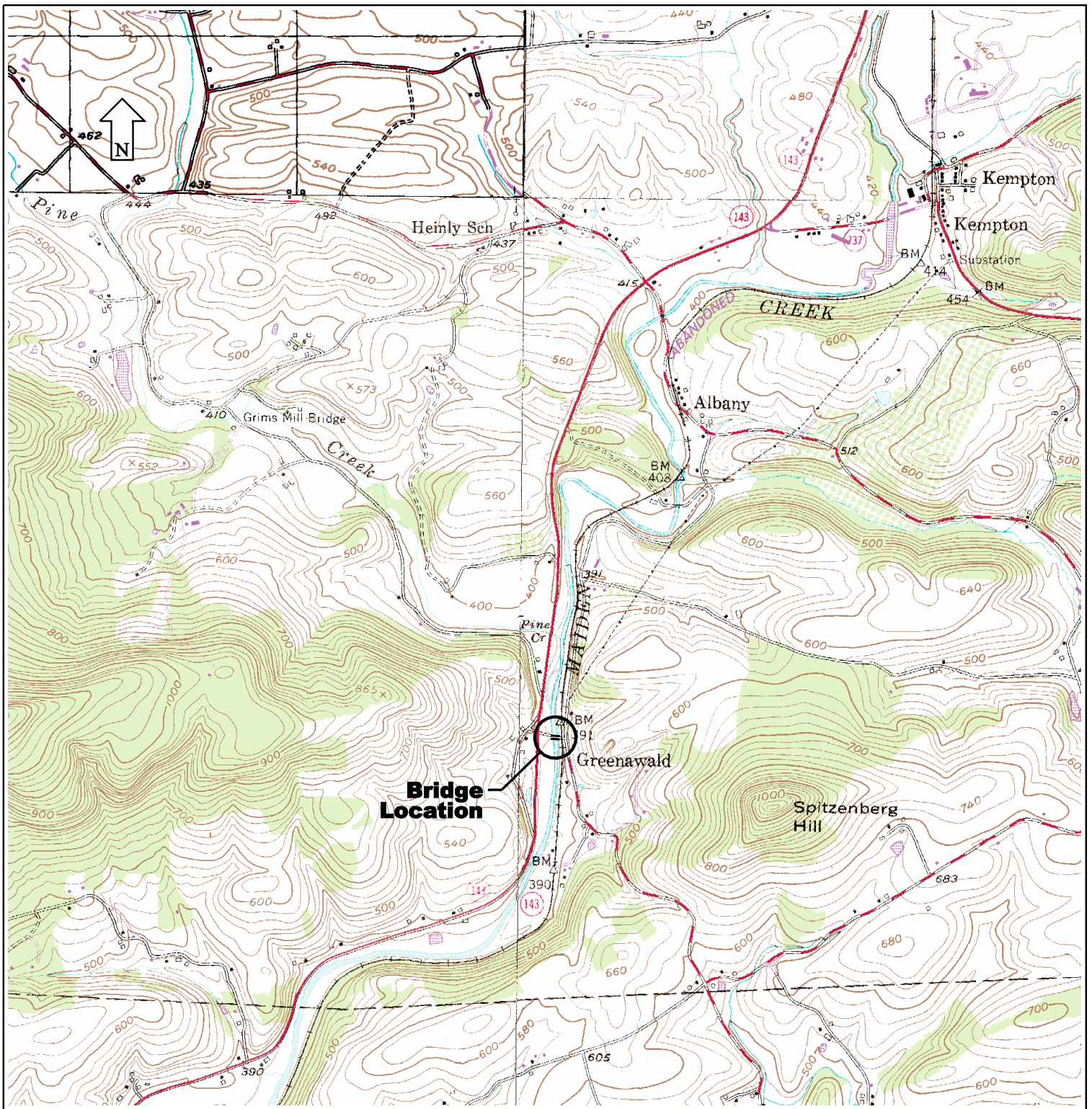
Project Manager

Title

12/15/11  
 Date



### 3. Location Map

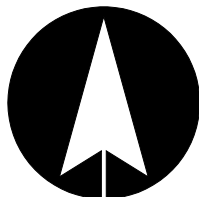


## Project Location Map

Hamburg, Kutztown, New Ringgold,  
and New Tripoli USGS Quadrangle Maps

## Berks County Bridge No. 32A

Little Round Top Road over Maiden Creek  
Albany Township, Berks County



Scale: 1 in. = 2,000 ft.

#### 4. Completed Copy of a PNDI Search Form

## 1. PROJECT INFORMATION

Project Name: **Berks County Bridge No. 32A**

Date of review: **10/12/2011 8:34:29 AM**

Project Category: **Transportation, Bridge - demolition and/or construction (replacement) on existing alignment (Boring, piers, abutments, causeways, temporary stream crossings)**

Project Area: **1.0 acres**

County: **Berks** Township/Municipality: **Albany**

Quadrangle Name: **KUTZTOWN** ~ ZIP Code: **19529**

Decimal Degrees: **40.604439 N, -75.874028 W**

Degrees Minutes Seconds: **40° 36' 16" N, -75° 52' 26.5" W**



## 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Department of Conservation and Natural Resources

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Fish and Boat Commission

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### U.S. Fish and Wildlife Service

**RESPONSE:** No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

### 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special

concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

## 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a **preliminary** screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

## 6. AGENCY CONTACT INFORMATION

### PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section  
400 Market Street, PO Box 8552, Harrisburg, PA.  
17105-8552  
Fax:(717) 772-0271

### U.S. Fish and Wildlife Service

Endangered Species Section  
315 South Allen Street, Suite 322, State College, PA.  
16801-4851  
NO Faxes Please.

### PA Fish and Boat Commission

Division of Environmental Services  
450 Robinson Lane, Bellefonte, PA. 16823-7437  
NO Faxes Please

### PA Game Commission

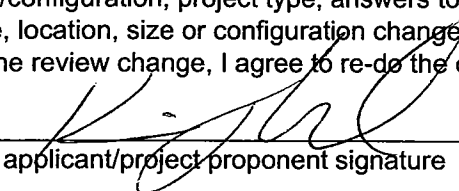
Bureau of Wildlife Habitat Management  
Division of Environmental Planning and Habitat Protection  
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797  
Fax:(717) 787-6957

## 7. PROJECT CONTACT INFORMATION

Name: KEVIN J. POAD, E.I.  
Company/Business Name: McCORMICK TAYLOR, INC.  
Address: VALLEY CREEK CORPORATE CENTER, 222 VALLEY CREEK BLVD., SUITE 130  
City, State, Zip: EXTON, PA 19341  
Phone: (610) 640-3500 Fax: (610) 640-3503  
Email: kjpod@mtmail.biz

## 8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

  
applicant/project proponent signature

Oct. 12, 2011  
date



## 5. Wetland Information Data Sheets

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: 32A Little Round Top Road City/County: Berks Sampling Date: 12/9/11  
Applicant/Owner: Berks County State: PA Sampling Point: NE & SE Quad  
Investigator(s): CLH/EEC Section, Township, Range: Albany  
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): \_\_\_\_\_ Slope (%): \_\_\_\_\_  
Subregion (LRR or MLRA): \_\_\_\_\_ Lat: 40.60349 Long: -75.87253 Datum: \_\_\_\_\_  
Soil Map Unit Name: \_\_\_\_\_ NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No ☒ (If no, explain in Remarks.)  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks:  Experienced wetter than average year. Rainfall occurred within 48 hours of field investigation. Area is floodplain of Maiden Creek.	

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		____ Surface Soil Cracks (B6)
____ Surface Water (A1)	____ True Aquatic Plants (B14)	____ Sparsely Vegetated Concave Surface (B8)
____ High Water Table (A2)	____ Hydrogen Sulfide Odor (C1)	____ Drainage Patterns (B10)
____ Saturation (A3)	____ Oxidized Rhizospheres on Living Roots (C3)	____ Moss Trim Lines (B16)
____ Water Marks (B1)	____ Presence of Reduced Iron (C4)	____ Dry-Season Water Table (C2)
____ Sediment Deposits (B2)	____ Recent Iron Reduction in Tilled Soils (C6)	____ Crayfish Burrows (C8)
____ Drift Deposits (B3)	____ Thin Muck Surface (C7)	____ Saturation Visible on Aerial Imagery (C9)
____ Algal Mat or Crust (B4)	____ Other (Explain in Remarks)	____ Stunted or Stressed Plants (D1)
____ Iron Deposits (B5)		____ Geomorphic Position (D2)
____ Inundation Visible on Aerial Imagery (B7)		____ Shallow Aquitard (D3)
____ Water-Stained Leaves (B9)		____ Microtopographic Relief (D4)
____ Aquatic Fauna (B13)		____ FAC-Neutral Test (D5)
Field Observations:		Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____		
Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____		
Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:  Rainfall 1-2 days prior to field investigation.		

# VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: NE & SE Quad

Tree Stratum (Plot size: _____ )				Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Juglans nigra</i>			85	Yes	FACU
2.						
3.						
4.						
5.						
6.						
7.						
8.						
				85	= Total Cover	
Sapling/Shrub Stratum (Plot size: _____ )						
1.	<i>Multiflora rose</i>			15	No	FACU
2.	<i>Cornus amomum</i>			15	No	FACW
3.	<i>Lindera benzoin</i>			75	Yes	FACW
4.						
5.						
6.						
7.						
8.						
9.						
10.						
				105	= Total Cover	
Herb Stratum (Plot size: _____ )						
1.	<i>Allium canadense</i>			10	Yes	FACU
2.	<i>Claytonia virginica</i>			5	Yes	FAC
3.	<i>Rumex crispus</i>			2	No	FACU
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
				17	= Total Cover	
Woody Vine Stratum (Plot size: _____ )						
1.						
2.						
3.						
4.						
5.						
6.						
					= Total Cover	

**Dominance Test worksheet:**  
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
  
Total Number of Dominant Species Across All Strata: 4 (B)  
  
Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species _____ x 1 = _____	
FACW species 90 x 2 = 180	
FAC species 5 x 3 = 15	
FACU species 112 x 4 = 448	
UPL species _____ x 5 = _____	
Column Totals: 207 (A)	643 (B)

  
Prevalence Index = B/A = 3.1

**Hydrophytic Vegetation Indicators:**  
\_\_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
\_\_\_\_ 2 - Dominance Test is >50%  
\_\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>  
\_\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Four Vegetation Strata:**  
  
**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
  
**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  
  
**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
  
**Woody vine** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)  
  
Floodplain of Maiden Creek.

## SOIL

Sampling Point: NE & SE Quad

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

### Hydric Soil Indicators:

### Indicators for Problematic Hydric Soils<sup>3</sup>:

- \_\_\_ Histosol (A1)
- \_\_\_ Histic Epipedon (A2)
- \_\_\_ Black Histic (A3)
- \_\_\_ Hydrogen Sulfide (A4)
- \_\_\_ Stratified Layers (A5)
- \_\_\_ 2 cm Muck (A10) (**LRR N**)
- \_\_\_ Depleted Below Dark Surface (A11)
- \_\_\_ Thick Dark Surface (A12)
- \_\_\_ Sandy Mucky Mineral (S1) (**LRR N, MLRA 147, 148**)
- \_\_\_ Sandy Gleyed Matrix (S4)
- \_\_\_ Sandy Redox (S5)
- \_\_\_ Stripped Matrix (S6)

- \_\_\_ Dark Surface (S7)
- \_\_\_ Polyvalue Below Surface (S8) (**MLRA 147, 148**)
- \_\_\_ Thin Dark Surface (S9) (**MLRA 147, 148**)
- \_\_\_ Loamy Gleyed Matrix (F2)
- \_\_\_ Depleted Matrix (F3)
- \_\_\_ Redox Dark Surface (F6)
- \_\_\_ Depleted Dark Surface (F7)
- \_\_\_ Redox Depressions (F8)
- \_\_\_ Iron-Manganese Masses (F12) (**LRR N, MLRA 136**)
- \_\_\_ Umbric Surface (F13) (**MLRA 136, 122**)
- \_\_\_ Piedmont Floodplain Soils (F19) (**MLRA 148**)

- ☐ 2 cm Muck (A10) **(MLRA 147)**  
☐ Coast Prairie Redox (A16)  
**(MLRA 147, 148)**  
☐ Piedmont Floodplain Soils (F19)  
**(MLRA 136, 147)**  
☐ Red Parent Material (TF2)  
☐ Very Shallow Dark Surface (TF12)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if observed):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No ☒

Remarks:

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: 32A Little Round Top Road City/County: Berks Sampling Date: 12/9/11  
 Applicant/Owner: Berks County State: PA Sampling Point: NW Quad  
 Investigator(s): CLH/EEC Section, Township, Range: Albany  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): \_\_\_\_\_ Slope (%): \_\_\_\_\_  
 Subregion (LRR or MLRA): \_\_\_\_\_ Lat: 40.60389 Long: -75.87327 Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No ✓ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>✓</u>
Hydric Soil Present? Yes _____ No <u>✓</u>	
Wetland Hydrology Present? Yes _____ No <u>✓</u>	
Remarks: Experienced wetter than average year. Rainfall occurred within 48 hours of field investigation.	

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>	
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b> Surface Water Present? Yes _____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes _____ No <u>✓</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Rainfall 1-2 days prior to field investigation.			

# VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: NW Quad

Tree Stratum (Plot size: _____ )		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Juglans nigra</i>	20	Yes	FACU
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
		20	= Total Cover	
Sapling/Shrub Stratum (Plot size: _____ )				
1.	<i>Multiflora rose</i>	10	Yes	FACU
2.	<i>Rubus sp.</i>	7	Yes	---
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
		_____	= Total Cover	
Herb Stratum (Plot size: _____ )				
1.	<i>Glechoma hederacea</i>	20	Yes	FACU
2.	<i>Plantago major</i>	17	Yes	FACU
3.	<i>Allium canadense</i>	15	No	FACU
4.	<i>Solidago sp.</i>	15	No	---
5.	<i>Carex sp.</i>	5	No	---
6.	<i>Claytonia virginica</i>	5	No	FAC
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
		_____	= Total Cover	
Woody Vine Stratum (Plot size: _____ )				
1.	<i>Japanese honeysuckle</i>	7	Yes	FAC
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
		7	= Total Cover	

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20 (A/B)

**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

\_\_\_ 1 - Rapid Test for Hydrophytic Vegetation

\_\_\_ 2 - Dominance Test is >50%

\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No ✓

Remarks: (Include photo numbers here or on a separate sheet.)

Maintained lawn.

## SOIL

Sampling Point: NW Quad

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

### Hydric Soil Indicators:

### Indicators for Problematic Hydric Soils<sup>3</sup>:

- \_\_\_ Histosol (A1)
- \_\_\_ Histic Epipedon (A2)
- \_\_\_ Black Histic (A3)
- \_\_\_ Hydrogen Sulfide (A4)
- \_\_\_ Stratified Layers (A5)
- \_\_\_ 2 cm Muck (A10) (**LRR N**)
- \_\_\_ Depleted Below Dark Surface (A11)
- \_\_\_ Thick Dark Surface (A12)
- \_\_\_ Sandy Mucky Mineral (S1) (**LRR N, MLRA 147, 148**)
- \_\_\_ Sandy Gleyed Matrix (S4)
- \_\_\_ Sandy Redox (S5)
- \_\_\_ Stripped Matrix (S6)

- \_\_\_ Dark Surface (S7)
- \_\_\_ Polyvalue Below Surface (S8) (**MLRA 147, 148**)
- \_\_\_ Thin Dark Surface (S9) (**MLRA 147, 148**)
- \_\_\_ Loamy Gleyed Matrix (F2)
- \_\_\_ Depleted Matrix (F3)
- \_\_\_ Redox Dark Surface (F6)
- \_\_\_ Depleted Dark Surface (F7)
- \_\_\_ Redox Depressions (F8)
- \_\_\_ Iron-Manganese Masses (F12) (**LRR N, MLRA 136**)
- \_\_\_ Umbric Surface (F13) (**MLRA 136, 122**)
- \_\_\_ Piedmont Floodplain Soils (F19) (**MLRA 148**)

- ☐ 2 cm Muck (A10) **(MLRA 147)**  
☐ Coast Prairie Redox (A16)  
**(MLRA 147, 148)**  
☐ Piedmont Floodplain Soils (F19)  
**(MLRA 136, 147)**  
☐ Red Parent Material (TF2)  
☐ Very Shallow Dark Surface (TF12)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if observed):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No ☒

Remarks:



# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: 32A Little Round Top Road City/County: Berks Sampling Date: 12/9/11  
Applicant/Owner: Berks County State: PA Sampling Point: SW Quad  
Investigator(s): CLH/EEC Section, Township, Range: Albany  
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): \_\_\_\_\_ Slope (%): \_\_\_\_\_  
Subregion (LRR or MLRA): \_\_\_\_\_ Lat: 40.60357 Long: -75.87303 Datum: \_\_\_\_\_  
Soil Map Unit Name: \_\_\_\_\_ NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No ☒ (If no, explain in Remarks.)  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks:  Experienced wetter than average year. Rainfall occurred within 48 hours of field investigation. Area is floodplain of Maiden Creek.	

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>	
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		____ Surface Soil Cracks (B6)	
____ Surface Water (A1)	____ True Aquatic Plants (B14)	____ Sparsely Vegetated Concave Surface (B8)	
____ High Water Table (A2)	____ Hydrogen Sulfide Odor (C1)	____ Drainage Patterns (B10)	
____ Saturation (A3)	____ Oxidized Rhizospheres on Living Roots (C3)	____ Moss Trim Lines (B16)	
____ Water Marks (B1)	____ Presence of Reduced Iron (C4)	____ Dry-Season Water Table (C2)	
____ Sediment Deposits (B2)	____ Recent Iron Reduction in Tilled Soils (C6)	____ Crayfish Burrows (C8)	
____ Drift Deposits (B3)	____ Thin Muck Surface (C7)	____ Saturation Visible on Aerial Imagery (C9)	
____ Algal Mat or Crust (B4)	____ Other (Explain in Remarks)	____ Stunted or Stressed Plants (D1)	
____ Iron Deposits (B5)		____ Geomorphic Position (D2)	
____ Inundation Visible on Aerial Imagery (B7)		____ Shallow Aquitard (D3)	
____ Water-Stained Leaves (B9)		____ Microtopographic Relief (D4)	
____ Aquatic Fauna (B13)		____ FAC-Neutral Test (D5)	
<b>Field Observations:</b>		Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____			
Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____			
Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:  Rainfall 1-2 days prior to field investigation.			

**VEGETATION (Four Strata) – Use scientific names of plants.**

 Sampling Point: SW Quad

Tree Stratum (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <i>Juglans nigra</i>	30	Yes	FACU	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
		30	= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
		105	= Total Cover	<b>Hydrophytic Vegetation Indicators:</b> ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Herb Stratum</b> (Plot size: _____ )				
1. <i>Microstegium vimineum</i>	100	Yes	FAC	
2. <i>Solidago altissima</i>	30	Yes	FACU	
3. <i>Setaria pumila</i>	7	No	FAC	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
		137	= Total Cover	<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
<b>Woody Vine Stratum</b> (Plot size: _____ )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
		_____	= Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)  <b>Floodplain of Maiden Creek.</b>				

**Hydrophytic Vegetation Present?**      Yes \_\_\_\_\_ No ✓

## SOIL

Sampling Point: SW Quad

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

### Hydric Soil Indicators:

### Indicators for Problematic Hydric Soils<sup>3</sup>:

- \_\_\_ Histosol (A1)
- \_\_\_ Histic Epipedon (A2)
- \_\_\_ Black Histic (A3)
- \_\_\_ Hydrogen Sulfide (A4)
- \_\_\_ Stratified Layers (A5)
- \_\_\_ 2 cm Muck (A10) (**LRR N**)
- \_\_\_ Depleted Below Dark Surface (A11)
- \_\_\_ Thick Dark Surface (A12)
- \_\_\_ Sandy Mucky Mineral (S1) (**LRR N, MLRA 147, 148**)
- \_\_\_ Sandy Gleyed Matrix (S4)
- \_\_\_ Sandy Redox (S5)
- \_\_\_ Stripped Matrix (S6)

- \_\_\_ Dark Surface (S7)
- \_\_\_ Polyvalue Below Surface (S8) (**MLRA 147, 148**)
- \_\_\_ Thin Dark Surface (S9) (**MLRA 147, 148**)
- \_\_\_ Loamy Gleyed Matrix (F2)
- \_\_\_ Depleted Matrix (F3)
- \_\_\_ Redox Dark Surface (F6)
- \_\_\_ Depleted Dark Surface (F7)
- \_\_\_ Redox Depressions (F8)
- \_\_\_ Iron-Manganese Masses (F12) (**LRR N, MLRA 136**)
- \_\_\_ Umbric Surface (F13) (**MLRA 136, 122**)
- \_\_\_ Piedmont Floodplain Soils (F19) (**MLRA 148**)

- ☐ 2 cm Muck (A10) **(MLRA 147)**  
☐ Coast Prairie Redox (A16)  
**(MLRA 147, 148)**  
☐ Piedmont Floodplain Soils (F19)  
**(MLRA 136, 147)**  
☐ Red Parent Material (TF2)  
☐ Very Shallow Dark Surface (TF12)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if observed):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No ☒

Remarks:

## 6. Color Photographs



Berks County Bridge 32A – Greenawalt Bridge  
Looking east from Little Round Top Road  
Albany Township, Berks County



Berks County Bridge 32A – Greenawalt Bridge  
Looking upstream from Maiden Creek  
Albany Township, Berks County

## 7. Erosion and Sediment Control Plan

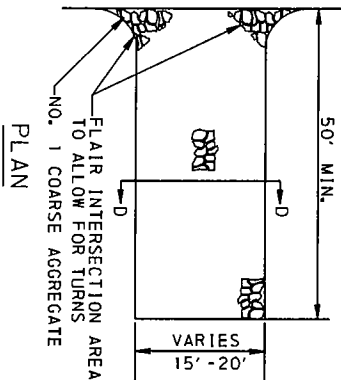




NOTE: A COPY OF THIS PLAN IS REQUIRED, BY LAW, TO BE ON-SITE AT ALL TIMES DURING CONSTRUCTION.

ROCK CONSTRUCTION ENTRANCE NOTES:

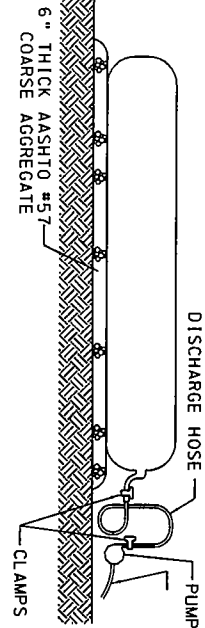
1. PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING OF STONES.
2. SURFACE WATER: PIPE ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
3. MAINTENANCE: MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONES AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. REMOVE ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY IMMEDIATELY. SEDIMENT MAY NOT BE WASHED FROM STREET.
4. PROVIDE PERIODIC INSPECTION AND NEEDED MAINTENANCE AFTER EACH RAINFALL.



ESTIMATED QUANTITIES ROCK CONSTRUCTION ENTRANCE (INFORMATION ONLY)			
DESCRIPTION	UNIT	TOTAL	
GEOTEXTILE, CLASS 2, TYPE B	SY	150	
NO. 1 COARSE AGGREGATE	CY	35	

ROCK CONSTRUCTION ENTRANCE

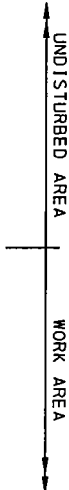
NOT TO SCALE



ESTIMATED QUANTITIES SEDIMENT FILTER BAG (INFORMATION ONLY)		
DESCRIPTION	UNIT	TOTAL
NO. 57 COARSE AGGREGATE	2 CY	
FILTER BAGS	1 EACH	

PUMPED WATER FILTER BAG

NOT TO SCALE



SANDBAGS

IMPERVIOUS  
MEMBRANE

EXISTING  
STREAMBED

COFFERDAM

NOT TO SCALE

NO.	DATE	REVISION

**McCormick  
Taylor**

Engineers & Planners  
Since 1946

Valley Creek Corporate Center  
322 Valley Creek Boulevard  
Exton, PA 19341  
Tel: (610) 640-3500  
Fax: (610) 640-3503

BERKS COUNTY BRIDGE 32A

ALBANY TOWNSHIP  
BERKS COUNTY, PENNSYLVANIA

EROSION AND SEDIMENT CONTROL PLAN

JOB NO. 1  
SCALE: N.T.S.  
DATE: 5/10/2012  
SHEET: 2 OF 2

PUMPED WATER FILTER BAG NOTES:

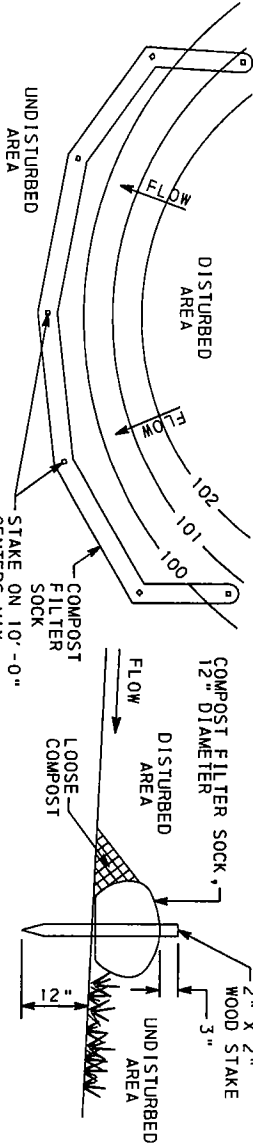
1. THE SEDIMENT FILTER BAG FOR PUMPED WATER IS A NON-MOVEN GEOTEXTILE FILTER BAG WHICH RETAINS ALL SEDIMENT PARTICLES LARGER THAN SIEVE SIZE #100.
2. PLACE THE FILTER BAG ON 6 INCH THICK BLANKET OF NO. 57 COARSE AGGREGATE ON STABLE OR WELL VEGETATED AREA. FLATTER THAN 20:1 OR AN AREA WHICH WILL NOT ERODE WHEN SUBJECTED TO BAG DISCHARGES.
3. CLAMP PUMP DISCHARGE HOSE SECURELY INTO FILTER BAG.
4. LIMIT THE PUMPING RATE TO 1/2 THE MANUFACTURER'S MAXIMUM PUMPING RATE.
5. IMMEDIATELY REMOVE THE FILTER BAG FROM SERVICE OR REPLACE WHEN SEDIMENTS FILL 1/2 THE VOLUME OF THE BAG. PROPERLY DISPOSE OF SPENT BAGS WITH THEIR SEDIMENTS.
6. DO NOT ALLOW THE DISCHARGE FROM THE FILTER BAG TO PASS THROUGH AN UNSTABILIZED DISTURBED AREA OR CAUSE AN EROSION PROBLEM DOWN SLOPE.
7. KEEP THE SEDIMENT CONTROL DEVICES IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED.

COFFERDAM NOTES:

1. THE PURPOSE OF A COFFERDAM IS TO SEPARATE WORK AREAS IN OR ADJACENT TO WATERWAYS AND PREVENT CONSTRUCTION DEBRIS AND SEDIMENT FROM ENTERING OR CONTAMINATING THE WATERWAY.
2. THE COFFERDAM SHALL NOT OBSTRUCT A FLOWING WATERWAY.
3. CONCENTRATED FLOW OUTLETS SUCH AS CULVERT OUTLETS, SWALES, ETC. SHALL NOT BE LOCATED BEHIND THE COFFERDAM.
4. THE COFFERDAM SHALL BE INSTALLED FROM UPSTREAM TO DOWNSTREAM AND PLACED AS CLOSE TO THE WORK AREA AS POSSIBLE WITHOUT INTERFERING WITH CONSTRUCTION OPERATIONS.
5. THE CONTRACTOR SHALL CONTINUALLY MONITOR THE INSTALLATION, TAKING INTO ACCOUNT WEATHER PATTERNS AND RAINFALLS THAT MAY AFFECT WATER LEVELS AND VELOCITY AND SUBSEQUENTLY THE COFFERDAM.

COMPOST FILTER SOCK NOTES:

1. REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE THIRD THE HEIGHT OF THE EXPOSED COMPOST FILTER BERM OR ONE HALF OF THE EXPOSED COMPOSTED FILTER SOCK.
2. PLACE COMPOST FILTER SOCK/BERM ON LEVEL GRADE. EXTEND BOTH ENDS OF THE COMPOST FILTER SOCK/BERM AT LEAST 8'-0" UPSLOPE AT 45° TO THE MAIN ALIGNMENT.
3. REPLACE THE BIODEGRADABLE FILTER SOCK AFTER 6 MONTHS; PHOTODEGRADABLE AFTER 12 MONTHS.
4. ANY SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A TEMPORARY ROCK FILTER OUTLET (SEE DETAIL ABOVE).

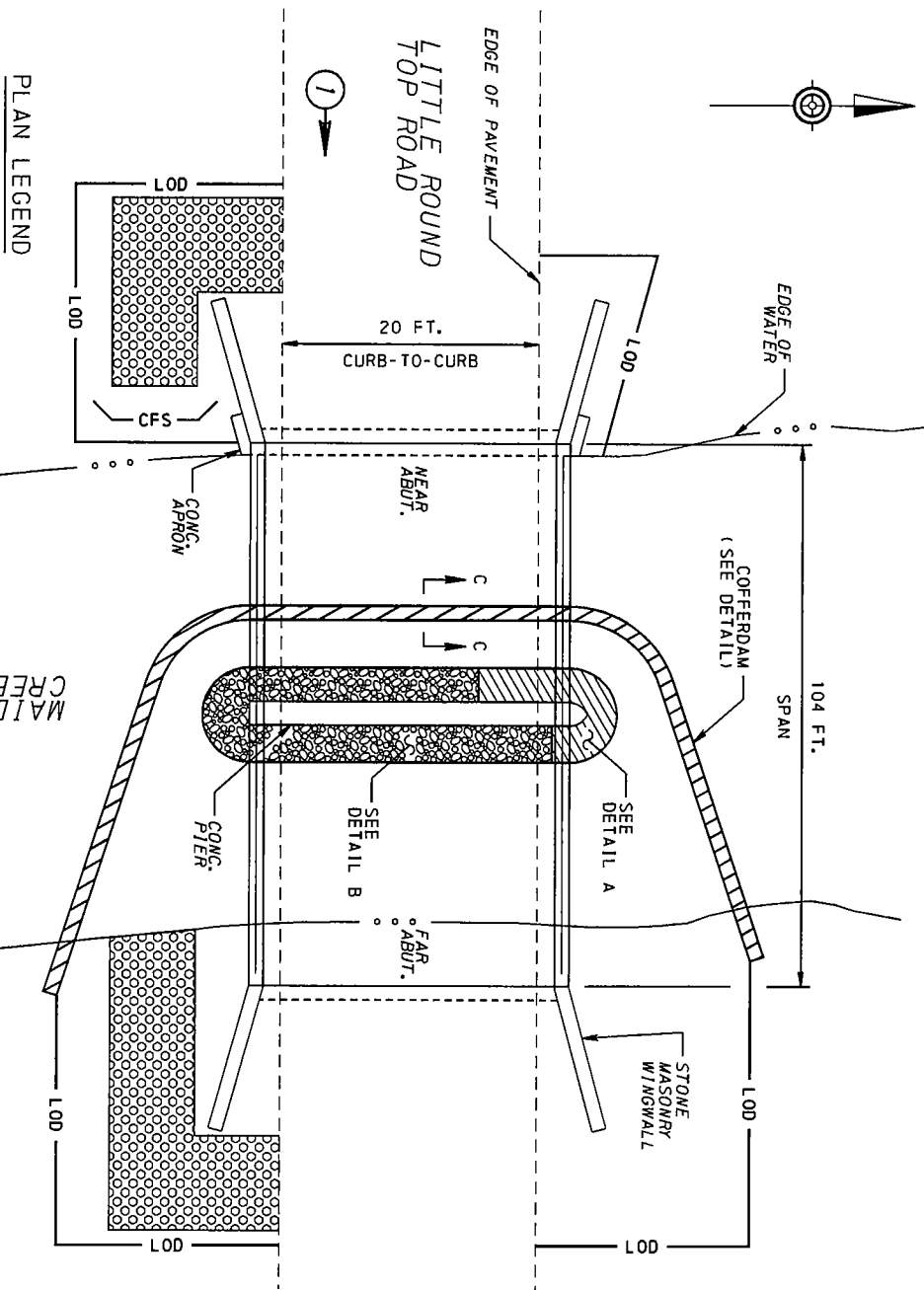


PLAN VIEW

SECTION VIEW

COMPOST FILTER SOCK, 12" DIAMETER

NOT TO SCALE



PLAN LEGEND

- GROUT BAG UNDERPINNING (SEE DETAIL A)
- R-6 ROCK PROTECTION (SEE DETAIL B)
- ROCK CONSTRUCTION ENTRANCE (SEE DETAIL)
- COFFERDAM (SEE DETAIL)
- COMPOST FILTER SOCK, 12" DIA.
- LIMIT OF DISTURBANCE
- STREAM
- PHOTO LOCATION

PLAN

NOT TO SCALE

DETAIL A

NOT TO SCALE

DETAIL B

NOT TO SCALE