

**EROSION & SEDIMENT CONTROL AND
POST-CONSTRUCTION STORMWATER MANAGEMENT
PLAN NARRATIVE**

FOR

BIRDSBORO POWER, LLC.

MAJOR MODIFICATION - WATER MAIN

**BIRDSBORO BOROUGH & ROBESON TOWNSHIP
BERKS COUNTY, PENNSYLVANIA**

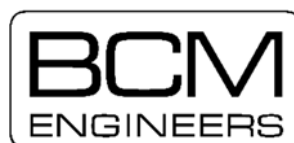
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BCM PROJECT NO. Z057000215



A Division of  **ATC**

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ATTACHMENT C	Experience of E&SC Plan Preparer
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Introduction

This Major Modification Erosion & Sedimentation (E&S) Control Plan and Post-Construction Stormwater Management (PCSM) Plan presents a narrative description of the temporary and permanent erosion control measures required for successful installation of approximately 13,000 linear feet (~2.5 miles) of water main and related appurtenances to service the Birdsboro Power LLC Natural Gas Combine Cycle electric generation facility. The erosion and sedimentation control plans for the project are designed to be consistent with the PCSM Plan.

It should be noted that this project meets the requirements of 25 Pa. Code Chapter 102, sub-section 102.8(n) for “pipelines”, and thus will address the PCSM requirements of sub-sections mentioned in 102.8(n). Since Section 102.8(d) is not one of those requirements, a PCSM/Restoration Plan is not required to be separate from the E&S plan.

As this major modification is a pipeline (linear) project without changes to the grading and impervious area, no permanent structural PCSM BMP's are proposed. All existing topography and ground cover will be returned to preconstruction conditions.

Project Description

Recently RAWA expanded its distribution system along PA Route 724 to the intersection with Cedar Hill Road. This was completed to service a development proposed in the area. In order to service the proposed power plant, a 16" water main will be extended easterly from this location, along PA Route 724 (Main Street) to Birdsboro Borough. Once in the Borough, it will follow Jackson Street and First Street. At the intersection of First Street and Jefferson Street a valve and tee will be installed for future emergency service connection for the Borough of Birdsboro. From here, the main will continue through the Borough of Birdsboro to the Power Plant. As this project is initially for the power plant use, it is being submitted as a major modification to the previously approved Birdsboro Power LLC NPDES Permit #PAG02 0006 15 032.

Most of the water main construction will be within the paved roads. The Route 724 alignment will also include some construction in the grassed shoulder. This portion also has 4 culvert crossings. The depth of the structures allows for the water main to be installed above the culverts. A drainage ditch along the side of the road has also been identified as a wetlands and Bog Turtle habitat. Every effort will be made to have the construction in this area completed between November and March. Should this be unavoidable, the following standard bog turtle avoidance measures will be used:

- Prior to performing any construction work in wetlands, streams, or uplands within 300 feet of the potential bog turtle habitat, all areas of expected disturbance will be surveyed by a Recognized Qualified Bog Turtle Surveyor for the presence of bog turtles immediately prior to construction;
- Prior to the survey, herbaceous vegetation will be cut to a height of 4 to 6 inches using a hand-held trimmer and carefully raked away by hand from searched areas;
- Immediately following the bog turtle survey, super silt fencing will be installed by and between the wetland and the construction zone, while the bog turtle surveyor

will be present to ensure that the fencing will be properly installed in the correct location;

- If bog turtles are located during the bog turtle survey, the USFWS and PFBC will be contacted immediately, and construction will not proceed until further consultation occurs; and
- All fencing will be removed immediately following construction.

As with all the construction associated with this project, all standard precautions and best management practices will be used to contain sediment.

General NOI Application Information

The fully completed, properly signed and notarized Notice of intent form is located on pages 1 to 14 of the Permit application.

The permit filing fee payable to the appropriate Clean Water Fund is attached to the application.

The disturbed acre fee payable to the Commonwealth of Pennsylvania Clean Water Fund is attached to the application.

Copies of the Municipal and County notification letters along with certified mail receipts or acknowledgement letters are provided in Attachment A.

Copies of the PNHP/PNDI Review receipt for the project area are provided in Attachment B.

Complete Erosion and Sediment Control (E&SC) Plans are included in the application submission.

Separate Post Construction Stormwater Management (PCSM) Plans are not required, therefore not included in the application. PCSM Plan information is included in the E&SC Plans.

A General Information Form (GIF) is not applicable and not included as the application is for a General Permit.

A PHMC is not applicable and not included as the application is for a General Permit.

Appendix A land use questions are included in the application.

E&S Plan Planning & Design 102.4(b)(4)

The Erosion and Sedimentation Control Plans for the project are labeled as “Construction, E&SC and PCSM (Restoration) Plan and Profile” and are the final construction plans. It should be noted that this project meets the requirements of 102.8(n) for “pipelines”, and thus the PCSM Plan is not required to be separate from the E&S plan.

Documentation that the E&SC Plan was prepared by a person trained and experienced in E&SC design methods and techniques applicable to the size and scope of the project are provided in Attachment C.

The temporary erosion control measures provided during the pipeline construction activities are designed to minimize soil loss, prevent water pollution of adjacent streams and rivers, protect adjacent properties, and maximize protection of existing drainage features and vegetation. The following measures and Best Management Practices (BMP's) shown in the design and details on the E&SC Plans must be incorporated throughout the pipeline portion of the project's construction by the contractor:

- Limiting areas of disturbance and preservation of existing vegetation wherever possible.
- Temporary seeding and mulching to be applied immediately to all disturbed areas.
- Silt fence and/or filter sock sediment barriers installation and maintenance
- Stabilized construction entrance installation and maintenance
- Pumped water filter bags installation and maintenance
- Erosion control matting along stream banks and steep slopes
- Filter bag inlet protection installation and maintenance
- Cofferdams within creeks and flooded areas

The above measures, shown throughout the E&S Plans will:

- ✓ Minimize the extent and duration of earth disturbance;
- ✓ Maximizes protection of existing site drainage features and vegetation;
- ✓ Minimizes soil compaction; and
- ✓ Controls/minimizes the generation of increased stormwater runoff.

Where the trenching is in paved areas, the width of disturbance is anticipated to be reduced, to about 10 feet. The pavement trench will be a standard six feet wide, with the additional width to accommodate the excavator's treads on each side. The width of full-depth pavement reconstruction is considered by PaDEP as the limit of disturbance in paved areas; milled areas are not considered by PaDEP to be part of the disturbed area.

Existing topographic features 102.4(b)(5)(i)

The topography of the project site is shown on the drawings by use of contours at one-foot intervals.

A USGS quadrangle location map is provided in Attachment D and plan cover sheet.

The pipeline restoration project drawings have incorporated both the construction and E&SC information on each sheet to aid the contractor in the construction process.

Soil types, depth, slope, locations and limitations 102.4(b)(5)(ii)

The maps of soil types and limits related to the project were identified using the NRCS Web Soil Survey website. The complete set of soil survey maps pertaining to the project are provided in Attachment E and shown on the drawings.

Soil use limitations and resolutions obtained from the USDA NRCS Web Soil Survey are provided in Attachment F and shown on the drawings.

Being a pipeline restoration project without much construction notations on the plans, it is requested that the Construction Plans be included in the E&SC and PCSM (Restoration) Plans. Every effort will be made to ensure the information shown is legible.

Past, Present, and Proposed land uses 102.4(b)(5)(iii)

The past uses for the project site for the prior fifty years, from review of available online historical mapping, indicate that the land uses have remained as mainly urban with some light industrial.

The present land uses for the past five years have not changed.

The proposed alteration/land uses are shown on the drawings. As this is a restoration project, the proposed alteration will retain the existing uses.

Volume and Rate of runoff from the project site 102.4(b)(5)(iv)

The plans do not propose construction of any channels, basins, or traps. As such, drainage area maps are not applicable.

The plans do not propose construction of any channels. As such, runoff calculations are not applicable.

Surface waters locations and classifications 102.4(b)(5)(v)

The surface waters are shown and labeled on the drawings.

The designated use of the receiving stream basin, Schuylkill River (which includes the Unnamed Tributaries to the Schuylkill River), per the PADEP Chapter 93 classification, is WWF (Warm Water Fishes) and MF (Migratory Fishes); it is neither a HQ nor an EV designated watershed. There is no existing use listed.

Narrative description of onsite BMPs 102.4(b)(5)(vi)

The temporary erosion control measures provided during construction activities are designed to minimize soil loss, prevent water pollution of adjacent streams and rivers, protect adjacent properties, and maximize protection of existing drainage features and vegetation. The following E&SC Best Management Practices (BMP's) are incorporated in the design and details of the project:

- Limiting areas of disturbance and preservation of existing vegetation wherever possible.
- Temporary seeding and mulching to be applied immediately to all disturbed areas.
- Silt fence and/or filter sock sediment barriers
- Stabilized construction entrances
- Pumped water filter bags
- Erosion control matting along stream banks and steep slopes
- Filter bag inlet protection
- Cofferdams within creeks and flooded areas
- Pipeline Trench Plugs

These measures and Best Management Practices (BMP's) are shown on the drawings along the entire length of the project and at all stream crossings

BMP installation and removal sequence 102.4(b)(5)(vii)

A general construction sequence for pipe and appurtenances installation including E&SC BMPs is shown on the drawings.

A specific construction sequence for each stream crossing including E&SC BMPs is shown on the drawings.

Supporting calculations and measurements 102.4(b)(5)(viii)

The plans do not propose construction of any channels, traps, or basins. As such, calculations are not applicable.

The plans do not propose construction of any channels, traps, or basins. As such, standard E&SC worksheets or equivalents are not applicable.

Plan Drawings 102.4(b)(5)(ix)

The drawings showing the proposed earthmoving are included in the application. The 2.0 acre limit of disturbance is shown on the plans. As a restoration project, the existing grading will be restored after the pipe construction is completed for each section. The existing contours will be unchanged. Therefore proposed contours are not applicable and not shown.

Details and/or typicals are shown on the drawings.

Maintenance program 102.4(b)(5)(x)

Erosion control and stormwater management measures included in this plan shall be maintained so that they individually and collectively perform the function for which they were designed. During construction, the contractor will assign one of their workers experienced in erosion control measures, to make inspections and reports weekly and after rainfall events to determine the maintenance and repair needs. As a result of these inspections, all preventative and remedial needs will be determined immediately and corrected accordingly.

Temporary features such as silt fences, temporary stream crossings, inlet protection, and erosion control matting shall be inspected and the needed maintenance or repair performed. Sediment and debris shall not be permitted to accumulate to a depth sufficient to limit the effectiveness of the proposed structures. After final site stabilization has been achieved, temporary erosion and sediment BMPs must be removed or converted to permanent post-construction stormwater management BMPs. Areas disturbed during removal or conversion of BMPs shall be stabilized immediately.

Maintenance of proposed BMPs is addressed in the notes on the drawings.

An inspection schedule for proposed BMPs is addressed in the notes on the drawings.

A written report documenting inspections and repairs is specified in the notes on the drawings.

Recycling and disposal of materials 102.4(b)(5)(xi)

Anticipated construction wastes are shown in the notes on the drawings.

Instructions are provided for proper recycling/disposal of materials in the notes on the drawings.

Geologic formations and soil conditions 102.4(b)(5)(xii)

There are no known Geologic or other soil conditions that have the potential to cause pollution.

As such, measures to avoid/minimize/or mitigate are not applicable.

Potential thermal impacts 102.4(b)(5)(xiii)

The restoration of the existing ground cover and conditions will not have the potential for thermal impacts. No new impervious surfaces are proposed.

As such, measures to avoid/minimize/or mitigate are not applicable.

E&S Plan consistent with PCSM Plan 102.4(b)(5)(xiv)

The pipeline construction and restoration project does not propose any structural PCSM BMPs. As such, none are shown on the plans.

The project site is not located within an exceptional value or high quality watershed. Therefore, the general requirements for mandatory riparian buffers are not applicable and the buffer was not mapped.

The pipeline construction and restoration project does not propose any infiltration BMPs. As such, none are shown on the plans.

Existing/proposed riparian forest buffers 102.4(b)(5)(xv)

The project site is not located within an exceptional value or high quality watershed. Therefore, the general requirements for mandatory riparian buffers are not applicable and the buffer was not shown on the drawings.

The project also meets the requirements for granting of a waiver listed in the following sections:

102.14(d)(2)(ii) – The project is a linear utility pipeline.

102.14(d)(2)(iv) – The project is construction of an underground pipeline causing a temporary surface disturbance which will be restored to its preexisting condition.

As there are no Riparian Forest Buffers associated with this project. Wetlands protection is shown on the drawings.

Antidegradation Analysis

The project is not within an exceptional value or high quality watershed, therefore an antidegradation analysis is not applicable and not provided.

PCSM Plan – General 102.8(b)

The Post Construction Stormwater Management Plans for the project are labeled as “Construction, E&SC and PCSM (Restoration) Plan and Profile” and are the final construction plans.

Being a restoration project without any change of use, subdivision, or land development, a Municipal or County Engineer consistency letter is not applicable and not provided.

The PaDEP approved Act 167 Plan, is not applicable due to Section 102.8(g)(ii)&(iii).

Documentation that the PCSM Plan was prepared by a person trained and experienced in PCSM design methods and techniques applicable to the size and scope of the project is provided in Attachment G.

The existing topography and ground cover of the project disturbance area will be restored at the completion of construction. This will preserve the integrity of stream channels and maintain and protect the physical, biological and chemical qualities of the receiving streams.

The existing topography and ground cover of the project disturbance area will be restored at the completion of construction. This will prevent an increase in the rate of stormwater runoff.

The existing topography and ground cover of the project disturbance area will be restored at the completion of construction. This will minimize (prevent) any increase in stormwater runoff volume.

No additional impervious area is proposed as shown on the drawings, thus minimizing the impervious areas.

The existing topography and ground cover of the project disturbance area will be restored at the completion of construction as shown on the drawings. The restorative process will maximize the protection of existing drainage features and existing vegetation.

The existing topography and ground cover of the project disturbance area will be restored at the completion of construction. The restorative process will minimize the land clearing and grading.

Construction equipment will not be allowed to travel on the surfaces being restored with native vegetation and ground cover, thereby minimizing soil compaction.

Although other structural and nonstructural BMPs are not incorporated in the design, the existing topography and ground cover of the project disturbance area will be restored at the completion of construction as shown on the drawings. This will minimize (prevent) any increase in stormwater runoff volume.

Existing topographic features 102.8(f)(1)

The topography of the project site is shown on the drawings by use of contours at 1 foot intervals.

A USGS quadrangle location map is provided on the drawings.

The types of cover are labeled throughout the drawings.

Soil types, depth, slope, locations and limitations 102.8(f)(2)

The maps of soil types and limits related to the project were identified using the NRCS Web Soil Survey website and are shown on the drawings.

Soil use limitations and resolutions obtained from the USDA NRCS Web Soil Survey are provided in Attachment F and shown on the drawings.

The site characterization of soil and geology (Soil Survey table) is provided in Attachment F and shown on the plans. As a pipeline construction and restoration project, the soil use limitations do not pertain to development use, only construction issues which may or may not be encountered.

The geologic features are not applicable to the pipeline project and not shown.

Past, Present, and Proposed land uses 102.8(f)(3)

The permit boundary, being the limit of disturbance, is shown on the drawings.

The limit of disturbance is shown on the drawings.

The total area of disturbance for the pipeline portion of the project is calculated to be about 2.0 acres (~80,000 SF), equal to the total project area.

As a restoration project, the existing grading will be restored after the pipe construction is completed for each section. The existing contours will be unchanged. Therefore proposed contours are not applicable and not shown on the drawings.

As a restoration project, the ground conditions will be restored after the pipe construction is completed for each section. No new improvements (i.e. roads, buildings, utilities, etc.) are proposed. Therefore proposed improvements are not applicable and not shown on the drawings.

The past uses for the project site for the prior fifty years, from review of available online historical mapping, indicate that the generally suburban residential, school, park and similar uses in the area existed in the 1960's.

The present land uses for the past five years have not changed.

The proposed land uses are shown on the drawings. As this is a restoration project, the proposed alteration will retain the existing uses.

The restoration project does not propose any waterways or stormwater management facilities. Therefore proposed waterways or stormwater management facilities are not applicable and not shown on the drawings.

No additional impervious area is proposed as shown on the drawings, thus minimizing the impervious areas.

Net Change of Volume and Rate of Runoff 102.8(f)(4)

The restoration project does not proposed any changes to the existing ground cover. Therefore Net Change of Volume and Rate of Runoff calculations are not required and not provided per Section 102.8(g)(2)(iv) and Section 102.8(g)(3)(iii).

Receiving surface waters 102.8(f)(5)

The streams, wetlands, floodways, and watercourses are shown and labeled on the drawings.

The designated use of the receiving stream basin, Schuylkill River (which includes the Unnamed Tributaries to the Schuylkill River), per the PADEP Chapter 93 classification, is WWF (Warm Water Fishes) and MF (Migratory Fishes); it is neither a HQ nor an EV designated watershed. There is no existing use listed.

The delineated wetland boundaries are shown on Drawing Nos. 201 & 204. A wetlands investigation report was prepared by AD Marble, Inc. for the area surrounding each stream crossing location. The wetlands report is provided as Attachment H.

Written description of the PCSM BMPs 102.8(f)(6)

Permanent pervious ground cover is essential for providing continued protection against soil loss and stormwater runoff, which can prevent pollution and reduce thermal impacts to adjacent water bodies. The design maintains and protects existing water quality and the designated use by maintaining the existing site characteristics and conditions. The project will comply with these items by replacement of the existing ground cover with the same type after construction, not increasing the impervious cover, and limiting the area to be disturbed at any one time, and by applying the E&SC BMP measures during construction.

The pipeline construction and restoration project does not propose any permanent PCSM BMPs. As such, a narrative is not applicable and not shown on the drawings.

The pipeline construction and restoration project does not propose any permanent PCSM BMPs. As such, specifications are not applicable and not shown on the drawings.

The pipeline construction and restoration project does not propose any proprietary BMPs. As such, none are shown on the drawings.

PCSM BMP implementation sequence 102.8(f)(7)

The pipeline construction and restoration project does not propose any PCSM BMPs. As such, a sequence of installation is not applicable and not shown on the drawings.

The pipeline construction and restoration project does not propose any structural PCSM BMPs. As such, none are listed in the construction sequence and not shown on the drawings.

The pipeline construction and restoration project does not propose any individual BMPs. As such, individual sequences are not applicable and not shown on the drawings.

The pipeline construction and restoration project does not propose any BMPs. As such, critical stages are not applicable and not shown on the drawings.

The pipeline construction and restoration project does not propose any infiltration BMPs. As such, providing protection is not applicable and not shown on the drawings.

Supporting calculations 102.8(f)(8)

The pipeline construction and restoration project did not utilize the Stormwater BMP Manual to meet design standards. As such, the worksheets are not applicable and not provided.

The pipeline construction and restoration project did not utilize the Stormwater BMP Manual to meet design standards. As such, the figures contained on the worksheets consistent with the NOI/Application are not applicable and not provided.

The pipeline construction and restoration project does not propose any permanent BMPs. As such, calculations are not applicable and not provided.

The pipeline construction and restoration project does not propose any permanent BMPs. As such, calculation methodology is not applicable and not provided per Section 102.8(g)(2)(iv) and Section 102.8(g)(3)(iii).

The pipeline construction and restoration project does not propose any BMPs. As such, a routing analysis is not applicable and not provided per Section 102.8(g)(2)(iv) and Section 102.8(g)(3)(iii).

Plan Drawings 102.8(f)(9)

The pipeline construction and restoration project does not propose any PCSM BMPs. As such, locations with tributary drainage areas are not applicable and not shown on the drawings.

The pipeline construction and restoration project does not propose any PCSM BMPs. As such, existing and proposed discharges and points of interest is not applicable and not shown on the drawings.

The PCSM Plan, being the same as the E&SC Plan is thereby consistent.

The pipeline construction and restoration project does not propose any PCSM BMPs. As such, construction details are not applicable and not shown on the drawings.

The pipeline construction and restoration project does not propose any PCSM BMPs. As such, dimensions and elevations consistent with supporting calculations are not applicable and not provided or shown on the drawings.

Long-term operation and maintenance schedule 102.8(f)(10)

The pipeline construction and restoration project does not propose any permanent BMPs. As such, inspection schedules are not applicable and not shown on the drawings.

The pipeline construction and restoration project does not propose any PCSM BMPs. As such, directions for maintenance and/or replacement are not applicable and not provided or shown on the drawings.

Recycling or disposal of materials 102.8(f)(11)

Anticipated project wastes, to be the same as the construction wastes, are shown in the notes on the drawings.

Instructions for proper recycling/disposal of materials are provided in the notes on the drawings.

Geologic formations and soil conditions 102.8(f)(12)

There are no known Geologic or other soil conditions that have the potential to cause pollution during construction.

Instructions for proper recycling/disposal of all materials (construction) which could cause pollution are provided in the notes on the drawings.

No typical details are required or provided other than instructions for proper recycling/disposal of materials which could cause pollution.

There are no specific materials, other than construction materials, which could cause pollution to be located on the drawings. The construction materials will be located within the limit of disturbance area as shown on the drawings.

Potential thermal impacts 102.8(f)(13)

Thermal impacts of stormwater runoff from the project site were avoided, minimized, and mitigated by restoring the disturbed areas to the conditions that existed prior to construction.

Riparian forest buffer management plan 102.8(f)(14)

The project site is not located within an exceptional value or high quality watershed. Therefore, the general requirements for mandatory riparian buffers are not applicable and the buffer was not shown on the drawings.

Although the project also meets the requirements for granting of a waiver listed in the following sections:

102.14(d)(2)(ii) – The project is a linear utility pipeline.

102.14(d)(2)(iv) – The project is construction of an underground pipeline causing a temporary surface disturbance which will be restored to its preexisting condition.

A waiver request is not necessary due to the non EV/HQ watershed status and exemption allowance.

As such, areas proposed to be waived are not applicable and not shown on the drawings.

Land Use Information – Appendix A

Zoning letter is not applicable due to the pipeline portion of the project being a utility line project.

ATTACHMENT A

**Municipal and County Notification Letters and Certified Mail Receipts or
Acknowledgement Letters**

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Robeson Township
8 Boone Road
Birdsboro, PA 19508

2. Article Number
(Transfer from service label)

7099 3400 0012 8134 4104

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent
Terri Senear ☐ Addressee
- B. Received by (Printed Name) ☐ Date of Delivery
Terri Senear *12/14/16*
- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.
4. Restricted Delivery? (Extra Fee) ☐ Yes ☐ No

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Borough of Birdsboro
202 E. Main Street
Birdsboro, PA 19508

2. Article Number
(Transfer from service label)

7099 3400 0012 8134 4128

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent
Kelly J. Yano ☐ Addressee
- B. Received by (Printed Name) ☐ Date of Delivery
Kelly J. Yano *12/14/16*
- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.
4. Restricted Delivery? (Extra Fee) ☐ Yes ☐ No

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

Article Sent To:

Robeson Twp

Postage \$

Certified Fee

Return Receipt Fee
(Endorsement Required)

Restricted Delivery Fee
(Endorsement Required)

Total Postage & Fees \$

Name (Please Print Clearly) (to be completed by mailer)

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

City, State, ZIP+4

Birdsboro, PA 19508

PS Form 3800, July 1999

See Reverse for Instructions

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

Article Sent To:

Borough of Birdsboro

Postage \$

Certified Fee

Return Receipt Fee
(Endorsement Required)

Restricted Delivery Fee
(Endorsement Required)

Total Postage & Fees \$

Name (Please Print Clearly) (to be completed by mailer)

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

City, State, ZIP+4

Birdsboro, PA 19508

PS Form 3800, July 1999

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Article Addressed to:</p> <p>City of Reading 815 Washington Street Reading, PA 19601</p>		<p>A. Signature <u>[Signature]</u> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>J. P. [Signature]</u> C. Date of Delivery <u>12/14/14</u></p> <p>D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>2. Article Number (Transfer from service label) 7099 3400 0012 8134 4135</p> <p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>		<p>3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
Article Sent To: <u>City of Reading</u>	
Postage \$	Certified Fee
Return Receipt Fee (Endorsement Required)	Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees \$	
Name (Please Print Clearly; to be completed by mailer) <u>815 Washington St.</u>	
Street, Apt. No., or P.O. Box <u>Reading, PA 19601</u>	
City, State, ZIP+4	
PS Form 3800, July 1999 See Reverse for Instructions	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Article Addressed to:</p> <p>Berks County Planning Comm. 633 Court Street, #14-A Reading, PA 19601</p>		<p>A. Signature <u>[Signature]</u> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>[Signature]</u> C. Date of Delivery <u>12/14/14</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>2. Article Number (Transfer from service label) 7099 3400 0012 8134 4111</p> <p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>		<p>3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
Article Sent To: <u>Berks County Planning Comm</u>	
Postage \$	Certified Fee
Return Receipt Fee (Endorsement Required)	Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees \$	
Name (Please Print Clearly; to be completed by mailer) <u>633 Court St. #14A</u>	
Street, Apt. No., or P.O. Box <u>Reading PA 19601</u>	
City, State, ZIP+4	
PS Form 3800, July 1999 See Reverse for Instructions	



920 Germantown Pike, Suite 200
Plymouth Meeting, PA 19462
Telephone 610-313-3100
Fax 610-313-3151
www.atcgroupservices.com

December 9, 2016

Certified Mail No. 7099 3400 0012 8134 4111

Berks County Planning Commission
633 Court Street, #14A
Reading, PA 19601

Subject: Reading Area Water Authority
RAWA/Birdsboro Power, LLC – Water Main Project
Act 14, 67, 68, and 127 Notifications
BCM Project No. Z057000215

To Whom It May Concern:

The purpose of this letter is to inform you that the Reading Area Water Authority is submitting a permit application package to the Pennsylvania Department of Environmental Protection (PADEP), South-Central Regional Office, to construct approximately 22,000 linear feet of Ductile Iron Water Main. Notification of Municipality and County is required by PA Act 14.

Permit Application Types: PA DEP Public Water Supply Permit
PA DEP Chapter 105 – General Permit
PA DEP Chapter 106 – Floodplain Management
PA DEP Chapter 102 – NPDES Permit

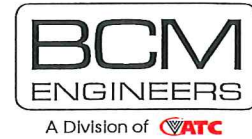
Applicant Contact: Mr. William Murray, Executive Director, RAWA

Project Location: Birdsboro Boro., City of Reading, & Robeson Twp.

Project Description: Installation of approximately 22,000 linear feet of 16”
Ductile Iron Water main.

Acts 67, 68, and 127 of 2000 amended the Municipalities Planning Code (MPC) to 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 619.2 and 1105 of the MPC.

Enclosed is a copy of the completed General Information Forms for each permit with specific information for the project as required by the PADEP. The PADEP invites you to



Berks County Planning Commission
Page 2
December 9, 2016

review the attached forms and provide comments on the accuracy of the information provided with respect to land use aspects of the project; please be specific to issues pertaining to comprehensive plans and zoning ordinances. If you wish to submit comments to PADEP to become part of a land use review of this project, you must respond within 30 days to the PADEP office referenced in this letter. If there are no land use comments received by the end of the comment period, PADEP will assume that there are no substantive land use conflicts and proceed with the normal application review process.

For more information about this land use review process please visit www.dep.state.pa.us. Thank you for your assistance, and please call this office if you require additional information about this project.

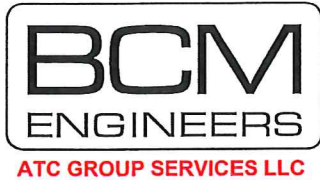
Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey E. Skinner", is written over the typed name and title. The signature is fluid and cursive, with a large, looping "S" at the end.

Jeffrey E. Skinner, P.E., P.L.S.
Project Engineer and Surveyor

JES/sws

S:\57FILESERVER\Engineering\Projects\RAWA\Emberclear\Permits\DEP General Permits



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December 9, 2016

Certified Mail No. 7099 3400 0012 8134 4135

City of Reading
815 Washington St.
Reading, PA 19601

Subject: Reading Area Water Authority
RAWA/Birdsboro Power, LLC – Water Main Project
Act 14, 67, 68, and 127 Notifications
BCM Project No. Z057000215

To Whom It May Concern:

The purpose of this letter is to inform you that the Reading Area Water Authority is submitting a permit application package to the Pennsylvania Department of Environmental Protection (PADEP), South-Central Regional Office, to construct approximately 22,000 linear feet of Ductile Iron Water Main. Notification of Municipality and County is required by PA Act 14.

Permit Application Types: PA DEP Public Water Supply Permit
PA DEP Chapter 105 – General Permit
PA DEP Chapter 106 – Floodplain Management
PA DEP Chapter 102 – NPDES Permit

Applicant Contact: Mr. William Murray, Executive Director, RAWA

Project Location: Birdsboro Boro., City of Reading, & Robeson Twp.

Project Description: Installation of approximately 22,000 linear feet of 16”
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City of Reading
Page 2
December 9, 2016

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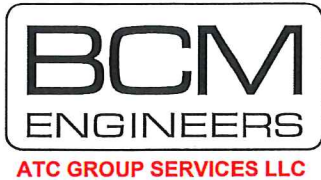
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Jeffrey E. Skinner, P.E., P.L.S.
Project Engineer and Surveyor

JES/sws
Enclosures

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December 9, 2016

Certified Mail No. 7099 3400 0012 8134 4128

Borough of Birdsboro
202 E. Main St.
Birdsboro, PA 19508

Subject: Reading Area Water Authority
RAWA/Birdsboro Power, LLC – Water Main Project
Act 14, 67, 68, and 127 Notifications
BCM Project No. Z057000215

To Whom It May Concern:

The purpose of this letter is to inform you that the Reading Area Water Authority is submitting a permit application package to the Pennsylvania Department of Environmental Protection (PADEP), South-Central Regional Office, to construct approximately 22,000 linear feet of Ductile Iron Water Main. Notification of Municipality and County is required by PA Act 14.

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PA DEP Chapter 105 – General Permit
PA DEP Chapter 106 – Floodplain Management
PA DEP Chapter 102 – NPDES Permit

Applicant Contact: Mr. William Murray, Executive Director, RAWA

Project Location: Birdsboro Boro., City of Reading, & Robeson Twp.

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Borough of Birdsboro
Page 2
December 9, 2016

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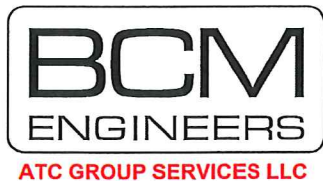
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Jeffrey E. Skinner, P.E., P.L.S.
Project Engineer and Surveyor

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Enclosures

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December 9, 2016

Certified Mail No. 7099 3400 0012 8134 4104

Robeson Township
8 Boonetown Rd.
Birdsboro, PA 19508

Subject: Reading Area Water Authority
RAWA/Birdsboro Power, LLC – Water Main Project
Act 14, 67, 68, and 127 Notifications
BCM Project No. Z057000215

To Whom It May Concern:

The purpose of this letter is to inform you that the Reading Area Water Authority is submitting a permit application package to the Pennsylvania Department of Environmental Protection (PADEP), South-Central Regional Office, to construct approximately 22,000 linear feet of Ductile Iron Water Main. Notification of Municipality and County is required by PA Act 14.

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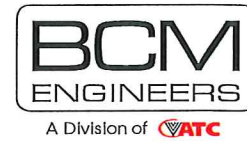
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Robeson Township
Page | 2
December 9, 2016

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Sincerely,

Jeffrey E. Skinner, P.E., P.L.S.
Project Engineer and Surveyor

JES/sws

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ATTACHMENT B
PNHP/PNDI Review Receipt

1. PROJECT INFORMATION

Project Name: **Birdsboro Power LLC PA Route 724 Water Main**

Date of Review: **12/15/2016 03:50:00 PM**

Project Category: **Water extraction/transfer, Water line construction**

Project Area: **19.35 acres**

County(s): **Berks**

Township/Municipality(s): **BIRDSBORO; ROBESON**

ZIP Code: **19508**

Quadrangle Name(s): **BIRDSBORO**

Watersheds HUC 8: **Schuylkill**

Watersheds HUC 12: **Angelica Creek-Schuylkill River; Hay Creek; Sixpenny Creek-Schuylkill River**

Decimal Degrees: **40.266356, -75.819603**

Degrees Minutes Seconds: **40° 15' 58.8805" N, 75° 49' 10.5702" W**

2. SEARCH RESULTS

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

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.

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.

Birdsboro Power LLC PA Route 724 Water Main

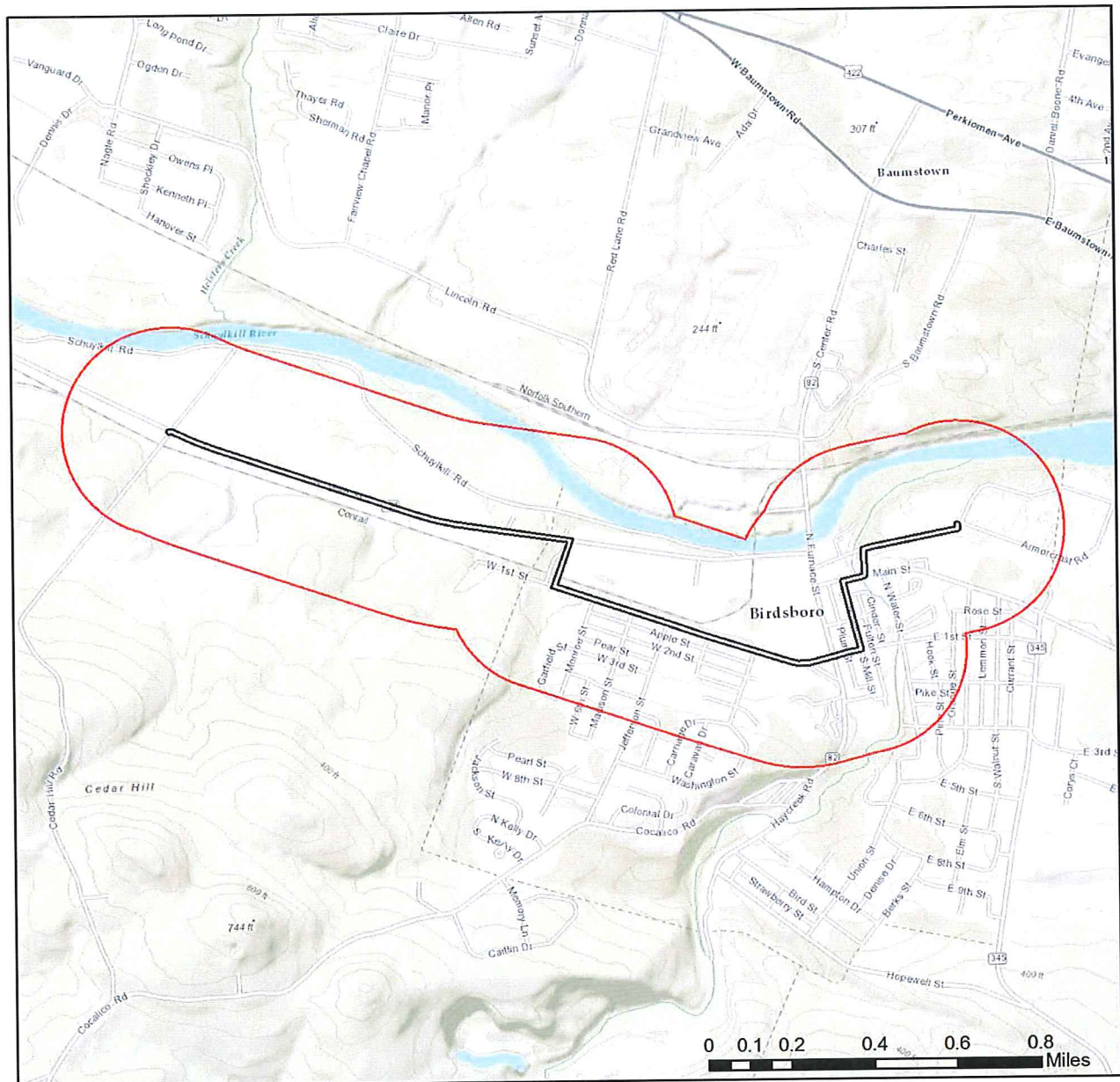




- ☐ Project Boundary
- ☐ Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user



Birdsboro Power LLC PA Route 724 Water Main



-  Project Boundary
-  Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



RESPONSE TO QUESTION(S) ASKED

Q1: Will this project or any project-related activities require any in-stream work, or a permanent or temporary crossing of a waterway (stream, river, creek, tributary)?

Your answer is: Yes

Q2: Will the entire project area (including any discharge), plus a 300 feet buffer around the project area, all occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, railroad bed, maintained (periodically mown) lawn, crop agriculture field or maintained orchard?

Your answer is: No

Q3: Accurately describe what is known about wetland presence in the project area or on the land parcel. "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 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.)

Q4: 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 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.)

Q5: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats?

Your answer is: Yes

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:

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).

DCNR 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. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: http://www.gis.dcnr.state.pa.us/hgis-er/PNDI_DCNR.aspx.)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
<i>Solidago speciosa</i> var. <i>speciosa</i>	Showy Goldenrod	Special Concern Species*	Threatened	Flowers late August - October

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:

Information Request: Conduct a Bog Turtle Habitat (Phase 1) Survey in accordance with USFWS Guidelines for Bog Turtle Surveys (April 2006). Evaluate all wetlands within 300 feet of the project area, which includes all areas that will be impacted by earth disturbance or project features (e.g., roads, structures, utility lines, lawns, detention basins, staging areas, etc.). IF THE PHASE 1 SURVEY IS DONE BY A QUALIFIED BOG TURTLE SURVEYOR (see <https://www.fws.gov/northeast/pafo/endangered/surveys.html>): 1) Send positive results to USFWS for concurrence, along with a project description documenting how impacts will be avoided. OR, conduct a Phase 2 survey and send Phase 1 and 2 results to USFWS for concurrence. 2) Send a courtesy copy of negative results to USFWS (label as "Negative Phase 1 Survey Results by Qualified Bog Turtle Surveyor: USFWS Courtesy Copy"). USFWS approval of negative results is not necessary when a qualified surveyor does the survey in full accordance with USFWS guidelines. IF THE PHASE 1 SURVEY IS NOT DONE BY A QUALIFIED SURVEYOR: Send ALL Phase 1 results to USFWS for concurrence, and if potential habitat is found, also send a project description documenting how impacts will be avoided. As a qualified bog turtle surveyor, I _____ (name) certify that I conducted a Phase 1 survey of all wetlands in and within 300 feet of the project area on _____ (date) and determined that bog turtle habitat is absent.

(Signature)

* 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). 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. Alternatively, applicants may email or mail their project materials (see AGENCY CONTACT INFORMATION).

***Note:** U.S.Fish and Wildlife Service requires applicants to mail project materials to the USFWS PA field office (see AGENCY CONTACT INFORMATION). USFWS will not accept project materials submitted electronically (by upload or email).

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>.