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BUREAU OF FORESTRY

August 31, 2016

**PNDI Number: PNDI-608628**

**Justin A. Zoladz**

**Ecology and Environment, Inc.**

368 Pleasant View Drive

Lancaster, PA 14086

Email: [jzoladz@ene.com](mailto:jzoladz@ene.com), CC: Greg Netti, [gnetti@ene.com](mailto:gnetti@ene.com) (hard copy not to follow)

**Re: Atlantic Sunrise Project (Update–August 31, 2016)**

Multiple Townships, Lebanon and Lancaster Counties

Dear Mr. Netti,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Number **PNDI-608628** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources of concern under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

**\*No Impact Anticipated for CPL South Alternative 22 and 24D routes**

**\*\*No Impact Anticipated per botanical survey/habitat assessment and mitigation plan for areas not surveyed (details below) (UPDATE)**

\* PNDI records do not indicate species or resources under DCNR's jurisdiction located in the vicinity of the project. Therefore, based on the information you submitted concerning the nature of the project, immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for CPL South Alternative 22 and 24D routes.

\*\*PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. As ongoing botanical surveys continue for the Atlantic Sunrise project, Eric Burkhart of WHM, Inc. conducted a botanical survey for *Ilex opaca* (American holly), and a habitat survey for *Gentiana villosa* (striped gentian) within the Lancaster 2 survey area in Lancaster County. A population of *I. opaca* was found, but the population is a naturalized population, and therefore, no conservation recommendations are needed. No suitable habitat was found for *G. villosa* within the proposed project area. Botanical surveys for *Tipularia discolor* (crane fly orchid) will occur in late fall when the plant species is most identifiable. In addition, two additional parcels, Lancaster Survey Area 4, and Lebanon Survey Area 1, have not been given permission for access. Transco is continuing to pursue access for the parcels in Lancaster Survey Area 4 and Lebanon Survey Area 1. However, access may not be granted until after FERC issues a Certificate for the Project. In this event, Transco has developed a mitigation plan as outlined in the May 24, 2016 DCNR letter to ensure that potential impacts to state-listed plant species are addressed.

In summary, Transco will continue to follow the approved mitigation plans, transplanting the *T. discolor* (crane fly orchid) and *Aplectrum hyemale* (puttyroot) at multiple locations, and also completing pre-construction surveys as identified in the May 24, 2016 from DCNR.

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Frederick Sechler, Jr., Ecological Information Specialist, by phone (717-705-2819) or via email ([c-frsechle@pa.gov](mailto:c-frsechle@pa.gov)).

Sincerely,

A handwritten signature in black ink that reads "Greg Podnieszinski". The signature is written in a cursive style and is centered within a light gray rectangular box.

Greg Podnieszinski, Section Chief  
Natural Heritage Section, DCNR Bureau of Forestry

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BUREAU OF FORESTRY

May 24, 2016

PNDI Large Project Number: 022297

**Greg Netti**  
**Ecology and Environment, Inc.**  
368 Pleasant View Drive  
Lancaster, PA 14086  
Email: [gnetti@ene.com](mailto:gnetti@ene.com) (hard copy not to follow)

Re: **Atlantic Sunrise Project (Update—May 24, 2016)**  
Multiple Townships, Lebanon and Lancaster Counties

Dear Mr. Netti,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Large Project Number **022297** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources of concern under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

**No Impact Anticipated per botanical survey/habitat assessment and mitigation plan for areas not surveyed (details below)**

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. As ongoing botanical surveys continue for the Atlantic Sunrise project, Eric Burkhart of WHM, Inc. conducted a botanical survey for *Ilex opaca* (American holly), and a habitat survey for *Gentiana villosa* (striped gentian) within the Lancaster 2 survey area in Lancaster County. A population of *I. opaca* was found, but the population is a naturalized population, and therefore, no conservation recommendations are needed. No suitable habitat was found for *G. villosa* within the proposed project area. Botanical surveys for *Tipularia discolor* (crane fly orchid) will occur in late fall when the plant species is most identifiable. In addition, two additional parcels, Lancaster Survey Area 4, and Lebanon Survey Area 1, have not been given permission for access. Transco is continuing to pursue access for the parcels in Lancaster Survey Area 4 and Lebanon Survey Area 1. However, access may not be granted until after FERC issues a Certificate for the Project. In this event, Transco has developed the following mitigation plan to ensure that potential impacts to state-listed plant species are addressed. The mitigation plan considers the following two possible scenarios related to survey access and timing:

**1. Transco is granted access in time to complete surveys during the appropriate survey window and prior to the scheduled start of construction:**

- a. If the species is not found within the LOD, survey findings will be reported to DCNR and construction will proceed immediately;
- b. If the species is identified within the LOD, Transco will transplant individuals to areas with suitable habitat adjacent to the LOD prior to construction.

**2. Transco is not granted access in time to complete surveys during the appropriate survey window prior to the scheduled start of construction. In this case, Transco will conduct a habitat assessment.**

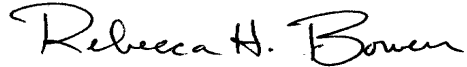
- a. If suitable habitat is not present within the LOD, survey findings will be reported to DCNR and construction will proceed immediately;
- b. If suitable habitat is present within the LOD, Transco will assume presence, purchase plants or seeds, and plant the species in suitable habitat adjacent to the LOD during post-construction.

Therefore, based on botanical surveys and habitat assessment for the areas that have been conducted in May 2016, the botanical survey to be conducted in Fall of 2016 for *T. discolor*, and the mitigation plan for the parcels not yet surveyed and given permission to access (as explained above), the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for these areas of the project that have been surveyed in 2016, and for the mitigation described in the plan above. However, if botanical surveys are able to be conducted via granted access, DCNR requests a botanical report for these areas.

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

**Should you have any questions or concerns, please contact Frederick Sechler, Jr., Ecological Information Specialist, by phone (717-705-2819) or via email ([c-frsechle@pa.gov](mailto:c-frsechle@pa.gov)).**

Sincerely,



Rebecca H. Bowen, Section Chief  
Pennsylvania Natural Heritage Program  
Bureau of Forestry, Ecological Services Section

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BUREAU OF FORESTRY

February 23, 2016

**PNDI Large Project Number: 022446**

**Greg Netti**  
**Ecology and Environment, Inc.**  
368 Pleasant View Drive  
Lancaster, PA 14086  
Email: [gnetti@ene.com](mailto:gnetti@ene.com) (hard copy not to follow)

Re: Atlantic Sunrise Project (Botanical surveys June 2015 – January 2016)  
Multiple Townships, Clinton, Columbia, Lancaster, Lebanon, Luzerne, Lycoming, Schuylkill, Susquehanna, and Wyoming Counties

Dear Mr. Netti,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Environmental Review Large Project Number **022446** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources of concern under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

**No Impact Anticipated per avoidance and mitigation**

PNDI records indicate species or resources under DCNR's jurisdiction located in the vicinity of the project. WHM Consulting, Inc. conducted botanical surveys between June 16, 2015 and January 18, 2016, within the proposed project area. Populations of *Scirpus ancistrochaetus* (northeastern bulrush), *Tipularia discolor* (crane-fly orchid), and *Aplectrum hyemale* (puttyroot) were found within the project study area. The populations of *S. ancistrochaetus* and *T. discolor* will be avoided impacts. However, the population of *A. hyemale* was found within the limit of disturbance, but will be trans-located on-site outside of the limit of disturbance prior to construction (possibly spring of 2016). A one-year monitoring effort will be conducted to determine the survivorship of the trans-located *A. hyemale* plants. Therefore, based the information you submitted concerning the nature of the project, your agreement to avoid impacts to the populations of *S. ancistrochaetus* and *T. discolor*, and mitigate by trans-locating the population of *A. hyemale* and conducting a one-year monitoring effort, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. Please consult USFWS for further coordination on obtaining clearance with regards to the *S. ancistrochaetus* population.

DCNR recommends the following steps to help prevent the spread of invasive plant species and to encourage the use of native plants:

- Avoid using seed mixes that include invasive plant species if the project requires re-vegetating the area. Please also attempt to use weed-free straw or hay mixes when possible. A complete list of all Pennsylvania invasive plant species can be found here: <http://www.dcnr.state.pa.us/forestry/wildplant/invasivelist.aspx>.
- The area of disturbance should be minimized to the fullest extent that would allow for this bridge replacement project; this will help to lessen the area of indirect disturbance to adjacent natural habitat.

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

**Should you have any questions or concerns, please contact Frederick Sechler, Jr., Ecological Information Specialist, by phone (717-705-2819) or via email ([c-frsechle@pa.gov](mailto:c-frsechle@pa.gov)).**

Sincerely,

A handwritten signature in black ink that reads "Greg Podnieszinski". The signature is written in a cursive style and is centered within a light gray rectangular box.

Greg Podnieszinski, Section Chief  
Natural Heritage Section, DCNR Bureau of Forestry

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BUREAU OF FORESTRY

August 5, 2015

**PNDI Large Project Number: 022446**

Greg Netti  
Ecology & Environment, Inc.  
368 Pleasant View Drive  
Lancaster, NY 14086  
Email: [gnetti@ene.com](mailto:gnetti@ene.com) (hard copy not to follow)

Re: Atlantic Sunrise Expansion Project (Botanical interim report January – June 15 2015)  
Multiple Townships, Multiple Counties

Dear Mr. Netti,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Large Project Number **022446** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources of concern under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

**No Impact Anticipated per mitigation/monitoring**

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. Botanists Mallory Gilbert, Eric Burkhart, and Loree Speedy conducted botanical surveys between **January and June 15, 2015** within the proposed pipeline project area. Populations of both *Tipularia discolor* (crane fly orchid) and *Aplectrum hyemale* (puttyroot) were found within and outside the limit of disturbance of the project area. The populations found within the limit of disturbance will be impacted, and the potentially impacted individuals of *T. discolor* and *A. hyemale* will be relocated to areas of suitable habitat with already established populations of these species. A one-time monitoring effort is strongly recommended for the transplanted *T. discolor* and *A. hyemale* individuals to determine the survivorship of these plants. This relocation project will also give DCNR valuable data on transplanted individuals of these species, which is needed for future projects.

In addition, a large population of *Dodecatheon radicans* (jeweled shooting-star) was found outside the limits of disturbance of this project, and there will be no impacts to this population. Also, an additional separate occurrence of *T. discolor* was found outside the limit of disturbance of the project, and no impacts will occur to this population. Finally, a population of *Ilex opaca* (American holly) was found within the project area, but it was determined that this population was not of native origin. Therefore, based on the information you submitted concerning the nature of the project, your agreement to relocate and monitor *T. discolor* and *A. hyemale* individuals to suitable habitat outside the limit of disturbance with an already established *T. discolor/A. hyemale* population, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely per mitigation/monitoring.

**Please note that this PNDI no impact clearance letter is only valid for the areas of the Atlantic Sunrise Expansion Project where botanical surveys were conducted from January through June 15, 2015. Another PNDI determination letter will follow after the botanical report is submitted for botanical inventories remaining to be conducted for 2015.**

DCNR recommends the following steps to help prevent the spread of invasive plant species and to encourage the use of native plants:

- If possible, please clean all construction equipment and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site, this will remove invasive plant seeds from the equipment and undercarriages of the vehicles that may have been picked up at other sites.
- Avoid using seed mixes that include invasive plant species if the project requires re-vegetating the area. Please also attempt to use weed-free straw or hay mixes when possible. A complete list of all Pennsylvania invasive plant species can be found here: <http://www.dcnr.state.pa.us/forestry/wildplant/invasivelist.aspx>.
- The area of disturbance should be minimized to the fullest extent that would allow for the access road construction project; this will help to lessen the area of indirect disturbance to nearby woodlands.

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P.O. Box 8552, Harrisburg, PA 17015-8552 717-787-3444 (fax) 717-772-0271

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

**Should you have any questions or concerns, please contact Frederick Sechler, Jr., Ecological Information Specialist, by phone (717-705-2819) or via email ([c-frsechle@pa.gov](mailto:c-frsechle@pa.gov)).**

Sincerely,



Greg Podnieszinski, Section Chief  
Natural Heritage Section, DCNR Bureau of Forestry



BUREAU OF FORESTRY

May 28, 2015

**PNDI Large Project Number: 022446**

Justin A. Zoladz  
Ecology and Environment, Inc.  
368 Pleasant View Drive  
Lancaster, PA 14086  
Email: [jzoladz@ene.com](mailto:jzoladz@ene.com), CC: Ryan Nelson, [ryann@whmgroup.com](mailto:ryann@whmgroup.com) (hard copy not to follow)

Re: Atlantic Sunrise Expansion Project (reroute) and added Chapman Loop  
Multiple Townships, Clinton, Columbia, Lancaster, Lebanon, Luzerne, Lycoming, Schuylkill, Susquehanna, and Wyoming  
Counties

Dear Mr. Zoladz,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Large Project Number **022446** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources of concern under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

**No Impact Anticipated for Chapman Loop**

PNDI records indicate species or resources under DCNR's jurisdiction located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this portion of the Atlantic Sunrise Expansion project.

**Survey request for rerouting of Atlantic Sunrise Expansion Project**

**Potential Impact Anticipated**

PNDI records indicate species or resources of concern are located in the project vicinity. Based on a detailed PNDI review, DCNR determined potential impacts to the following threatened or endangered species or species of special concern. Please note our new survey protocols are available at <http://www.gis.dcnr.state.pa.us/hgis-er/Login.aspx>.

Scientific Name	Common Name	PA Current Status	PA Proposed Status
<i>Rudbeckia fulgida</i>	Eastern coneflower	Not listed	Threatened

**Survey Request** (one PA plant species of concern to be added to the already list of plant species in Lebanon County for survey)

DCNR requests a **targeted survey** for the following species:

- *Rudbeckia fulgida* (eastern coneflower)–habitat is moist fields and meadows–locally documented in a maintained grass access road with shoulders on diabase rock at Dinosaur Rock Natural Area, SGL # 145, Lebanon County–this plant species was found on August 31, 2014–**NOTE: Please search only nearby potential suitable habitats in South Londonderry Township, Lebanon County-**
- A survey for the above species should be conducted by a qualified botanist *at the appropriate time of year and then submitted to our office for review*. **Your botanist should carefully review the new DCNR Botanical Survey Protocols available at <http://www.gis.dcnr.state.pa.us/hgis-er/Login.aspx>. These protocols are recommended to ensure that the all necessary information is collected and that survey reports are prepared properly. It is the expectation of DCNR that these protocols will be followed when conducting surveys for species under our jurisdiction.**

- Your botanist should *fill out the field survey form while performing their survey*: [http://www.gis.dcnr.state.pa.us/hgis-er/hgis/Internet%20Field%20Survey%20Form\\_2007.pdf](http://www.gis.dcnr.state.pa.us/hgis-er/hgis/Internet%20Field%20Survey%20Form_2007.pdf). Contact our office prior to the survey for detailed information about the species, or for a list of qualified surveyors.
- Any target and non-target state-listed species found during the site visit should be reported to our office. Mitigation measures and monitoring may be requested if species or communities of special concern are found on or adjacent to site.
- If more information becomes available and/or a habitat assessment is conducted, and potential suitable habitat for the above species is not present in the project site or will not be impacted, then contact me at [c-frsechle@pa.gov](mailto:c-frsechle@pa.gov) or 717-705-2819 and I can reissue a no impact letter.
- If the land type(s) does not exist onsite a survey may not be necessary; please submit a habitat assessment report which describes the current land cover, habitat types and species found onsite.

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

***Please be advised that the following still applies to the Atlantic Sunrise Expansion Project:***

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. In May 2014, DCNR requested botanical surveys for PA T & E and plant species of concern by county. Botanists Eric Burkhart, Loree Speedy, and Mallory Gilbert conducted botanical surveys for target species of each county between June and December 2014. Botanists observed populations of *Scirpus ancistrochaetus* (northeastern bulrush), *Tipularia discolor* (crane fly orchid), and *Oxypolis rigidior* (stiff cowbane). The populations of these three plant species are located outside the limit of disturbance for the project and will not be impacted by this project. Therefore, based on botanical surveys for the areas that have been surveyed in 2014, and avoidance of the populations of *S. ancistrochaetus*, *T. discolor*, and *O. rigidior*, the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for these areas of the project that were surveyed in 2014. **As a reminder, this letter does not provide clearance for areas that were not surveyed in 2014, and DCNR will look forward to the 2015 botanical report for these areas.**

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

**Should you have any questions or concerns, please contact Frederick Sechler, Jr., Ecological Information Specialist, by phone (717-705-2819) or via email ([c-frsechle@pa.gov](mailto:c-frsechle@pa.gov)).**

Sincerely,



Greg Podnieszinski, Section Chief  
Natural Heritage Section  
DCNR Bureau of Forestry

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BUREAU OF FORESTRY

April 2, 2015

**PNDI Large Project Number: 022297**

Greg Netti  
Ecology and Environment, Inc.  
368 Pleasant View Drive  
Lancaster, PA 14086  
Email: [gnetti@ene.com](mailto:gnetti@ene.com) (hard copy not to follow)

Re: Atlantic Sunrise Project  
Multiple Townships, Clinton, Columbia, Lancaster, Lebanon, Luzerne, Lycoming, Schuylkill, Susquehanna, and Wyoming Counties

Dear Mr. Netti,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Large Project Number **022297** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources of concern under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

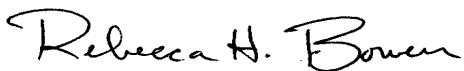
**No Impact Anticipated per botanical surveys of 2014 and per avoidance of habitats containing *Scirpus ancistrochaetus* (northeastern bulrush), *Oxypolis rigidior* (stiff cowbane), and *Tipularia discolor* (crane fly orchid)**

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. In May 2014, DCNR requested botanical surveys for PA T & E and plant species of concern by county. Botanists Eric Burkhart, Loree Speedy, and Mallory Gilbert conducted botanical surveys for target species of each county between June and December 2014. Botanists observed populations of *Scirpus ancistrochaetus* (northeastern bulrush), *Tipularia discolor* (crane fly orchid), and *Oxypolis rigidior* (stiff cowbane). The populations of these three plant species are located outside the limit of disturbance for the project and will not be impacted by this project. Therefore, based on botanical surveys for the areas that have been surveyed in 2014, and avoidance of the populations of *S. ancistrochaetus*, *T. discolor*, and *O. rigidior*, the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for these areas of the project that were surveyed in 2014. **As a reminder, this letter does not provide clearance for areas that were not surveyed in 2014, and DCNR will look forward to the 2015 botanical report for these areas.**

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

**Should you have any questions or concerns, please contact Frederick Sechler, Jr., Ecological Information Specialist, by phone (717-705-2819) or via email ([c-frsechle@pa.gov](mailto:c-frsechle@pa.gov)).**

Sincerely,



Rebecca H. Bowen, Section Chief  
Pennsylvania Natural Heritage Program  
Bureau of Forestry, Ecological Services Section