

**Summary of Agency Consultations and Communication for
Threatened and Endangered Species**

Date	Correspondence Type	Subject
NATIONAL MARINE FISHERIES SERVICE (NMFS)		
August 12, 2014	AECOM Consultation Request	Project Review for rare, candidate, threatened, and endangered species request
September 18, 2014	NMFS Consultation Response	Seasonal limitations for in-water work recommended from March 1 to June 30 to protect migratory fishes
January 14, 2015	AECOM Project Update	Route Update
March 30, 2015	AECOM Project Update	Route Update
July 24, 2015	AECOM Project Update	Route Update
December 8, 2015	Email Correspondence	NMFS confirmation of in-water work restrictions
December 17, 2015	AECOM Project Update	Route Update
February 23, 2016	AECOM Project Update	Route Update
September 26, 2016	AECOM Project Update	Route Update
PENNSYLVANIA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES (PADCNR)		
August 12, 2014	AECOM Consultation Request	Large Project Pennsylvania Natural Diversity Inventory (PNDI) review update request
September 17, 2014	PADCNR Consultation Response	Species determined by PFBC to occur within range of the project
October 24, 2014	AECOM Project Update	Route Update
January 14, 2015	AECOM Project Update	Route Update
February 20, 2015	PADCNR Consultation Response	Species determined by PADCNR to occur within range of the project; Updated to reflect updated route
March 30, 2015	AECOM Project Update	Route Update

Date	Correspondence Type	Subject
April 6, 2015	PADCNR Consultation Response	Species determined by PADCNR to occur within range of the project; Updated to reflect updated route
July 24, 2015	AECOM Project Update	Route Update
October 7, 2015	PADCNR Technical Reports	Provided RTE plant survey results
October 22, 2015	PADCNR Consultation Response	Species determined by PADCNR to occur within range of the project; updated to reflect updated route; no Impact determination
November 5, 2015	PADCNR Email Correspondence	Results of RTE plant surveys discussed
December 17, 2015	AECOM Project Update	Route Update
February 23, 2016	AECOM Project Update	Route Update
September 26, 2016	AECOM Project Update	Route Update
October 13, 2016	Technical Report	AECOM submitted a Botanical Survey report
October 31, 2016	AECOM Consultation Request	Route update and submission of Botanical Survey Report
January 10, 2017	PADCNR Consultation Response	Species determined by PADCNR to potentially occur within the Project area; surveys requested.
April 19, 2018	AECOM Consultation Update	AECOM submitted a Botanical Survey Report, rare plant mitigation plan, and a summary and kmz file of the updated consultation area.
May 22, 2018	PADCNR Consultation Response	PADCNR concurred with survey responses, requested modifications to rare plant mitigation plan
July 9, 2018	Rare Plant Report	Notification of incidental observation of a rare plant species
August 15, 2018	AECOM Consultation update	Rare plant survey report, rare plant mitigation plan
August 24, 2018	PADCNR Consultation Response	Final PNDI clearance received from PADCNR
October 4, 2019	AECOM Data Submission	Reported the incidental observation of a rare species, updated Rare Plant Mitigation Plan which incorporates new species.
October 11, 2019	AECOM Route Update	Provided mapping and preliminary environmental review for a minor workspace adjustment proposed in Pinchot State Forest at the request of PADCNR Right-of-Way Administration Office.

Date	Correspondence Type	Subject
October 17, 2019	PADCNR Consultation Response	The PADCNR confirmed that no new surveys will be requested for the Pinchot State Forest reroute.
January 23, 2020	AECOM Project Update	Provided mapping and description of the proposed Church Road Interconnects and requested agency review.
February 4, 2020	PADCNR Consultation Response	The PADCNR confirmed that no new surveys will be requested for the Church Road Interconnects, and no impacts are anticipated for species under the jurisdiction of the PADCNR.
PENNSYLVANIA FISH AND BOAT COMMISSION (PFBC)		
August 12, 2014	AECOM Consultation Request	Project Review for rare, candidate, threatened, and endangered species request
September 8, 2014	PFBC Consultation Response	Species determined by PFBC to occur within range of the project; Attached were guidelines for multiple species habitat assessments, available upon request
October 24, 2014	AECOM Project Update	Route Update
November 4, 2014	Meeting of multiple parties, including PFBC	Meeting Minutes
November 10, 2014	PFBC Consultation Response	Species determined by PFBC to occur within range of the project; Updated to reflect updated route
January 14, 2015	AECOM Project Update	Route Update
January 23, 2015	PFBC Consultation	Species determined by PFBC to occur within range of the project; Updated to reflect updated route
March 30, 2015	AECOM Project Update	Route Update
April 22, 2015	PFBC Consultation Response	Species determined by PFBC to occur within range of the project; Updated to reflect updated route
July 15, 2015	AECOM Record of Conversation	Discussion of T&E Species Surveys
July 16, 2015	PFBC Email Correspondence	T&E Species Surveys updates
July 24, 2015	AECOM Project Update	Route Update
August 10, 2015	AECOM Email Correspondence	Strategy question regarding timber rattlesnake dens in project area

Date	Correspondence Type	Subject
August 12, 2015	PFBC Consultation Response	Species determined by PFBC to occur within range of the project; Updated to reflect updated route
August 20, 2015	PFBC Consultation Response	Species determined by PFBC to occur within range of the project; Updated to reflect updated route
October 7, 2015	AECOM Technical Reports	Provided northern cricket frog and timber rattlesnake survey results
November 5, 2015	PFBC Consultation Response	Species determined by PFBC to occur within range of the project; Updated to reflect updated route, No impact clearance received for Northern Cricket Frog
November 10, 2015	AECOM Technical Reports	Provided technical reports supplements
December 10, 2015	PFBC Consultation Response	Species determined by PFBC to occur within range of the project; Updated to reflect updated route
December 17, 2015	AECOM Project Update	Route Update
January 5, 2016	PFBC Consultation Response	Species determined by PFBC to occur within range of the project; Updated to reflect updated route
February 23, 2016	AECOM Project Update	Route Update
June 13, 2016	AECOM Consultation Request	Request to identify impact by county
June 15, 2016	PFBC Consultation Response	Status update to specifically identify impact by county
August 01, 2016	AECOM Technical Reports	Timber Rattlesnake Phase II Survey Report
August 31, 2016	PFBC Consultation Response	PGBC provided a summary of impacts/recommendations related to Timber Rattlesnake
September 26, 2016	AECOM Project Update	Route Update
October 24, 2016	PFBC Consultation Response	Species determined by PFBC to occur within range of the project; Updated to reflect updated route
October 31, 2016	AECOM Consultation Request	Large Project Pennsylvania Natural Diversity Inventory (PNDI) review update request for staging areas, access roads, compressor station
April 19, 2018	AECOM Consultation Update	AECOM submitted an AT/PPL timber rattlesnake habitat assessment and presence/absence survey report (available on request), a figure illustrating avoidance of impacts to timber

Date	Correspondence Type	Subject
		rattlesnake denning habitat, and a summary and shapefile of the updated consultation area, including the newly proposed AT/PPL alternative and Blue Mountain Lateral.
May 17, 2018	PFBC Consultation Response	PFBC requested additional surveys for eastern redbelly turtle and northern cricket frog, additional information regarding access roads near timber rattlesnake habitat.
August 31, 2018	AECOM Data Transmission	AECOM provided memos and a cover letter addressing proposed trenched and trenchless crossing methodologies for bog turtle wetlands identified in Northampton and Carbon counties, respectively. This was concurrently provided to USFWS.
September 13, 2018	AECOM Consultation Update	AECOM submitted a northern cricket frog survey report, eastern redbelly turtle survey report, demonstrated access road plans near rattlesnake habitat, and reported incidental observation of a timber rattlesnake during wetland surveys.
October 11, 2018	PFBC Consultation Response	PFBC concurred with technical reports, and concluded that environmental review is complete for all species and areas except for bog turtles on the proposed Appalachian Trail PPL Realignment modification.
February 4, 2019	AECOM Email	AECOM informed the PFBC of their amendment application with FERC. AECOM reminded PFBC that the changes which had been filed with FERC were included in the consultation update letters previously provided on April 17, 2018 and September 13, 2018.
March 26, 2019	PFBC Meeting Request	PFBC requested to meet with PennEast representatives to review several points of interest related to the PADEP Chapter 105 JPA process
April 5, 2019	AECOM Data Response	AECOM resubmitted the crossing plans which had originally been submitted August 31, 2018 and which was included in the JPA application (Appendix G). AECOM also provided copies of clarifying emails sent to the USFWS. These were submitted to answer some of the questions in the PFBC's March 26, 2019 email.
April 9, 2019	Conference Call	Representatives of the PFBC, USFWS AECOM, and PennEast discussed bog turtle wetland crossings, construction schedules, and potential mitigation measures. USFWS then left the call, and

Date	Correspondence Type	Subject
		PFBC discussed their remaining questions regarding the PADEP application with the PennEast team.
April 11, 2019	PFBC Email	Follow up on the April 9, 2019 conference call; PFBC requested copies of survey documentation and reports generated for the Northampton bog turtle site.
April 12, 2019	PFBC Email	The PFBC confirmed AECOM's meeting minutes for the April 9, 2019 conference call. The PFBC also expressed confidence that the measures PennEast proposed for stabilizing steep slopes during construction would be "beneficial to the overall goal of avoiding and minimizing aquatic impacts."
April 15, 2019	AECOM Data Response	AECOM provided copies of survey reports pertaining to the Northampton County bog turtle population to the PFBC.
May 9, 2019	Site Visit	AECOM and PennEast joined PFBC and USFWS at the Project area to look at bog turtle wetlands in Northampton and Carbon County, and to discuss construction techniques, workspace requirements, and additional data requests.
May 20, 2019	PFBC Email	The PFBC requested that PennEast prepare a state-level Biological Assessment which addresses the Northampton County bog turtle site. This BA will be used to develop a site-specific Special Take Permit for activities which may impact the population.
June 10, 2019	Conference Call	Representatives of the PFBC, USFWS, AECOM, and PennEast discussed the need for a Special Take Permit, contents of the Biological Assessment, and mitigation options for the Northampton County site.
June 28, 2019	Conference Call	Representatives of the PFBC, USFWS, AECOM, PennEast, and Skelly & Loy discussed potential mitigation options at the Northampton County bog turtle site.
July 18, 2019	AECOM Data Submission	AECOM provided the PFBC their applicant-prepared, state-level Biological Assessment for the Northampton County bog turtle site. USFWS was included on this transmission to keep them informed of progress.
September 23, 2019	AECOM Data Submission	AECOM included the PFBC on their submission of 2019 bog turtle survey reports to the USFWS.

Date	Correspondence Type	Subject
October 11, 2019	AECOM Route Update	Provided mapping and preliminary environmental review for a minor workspace adjustment proposed in Pinchot State Forest at the request of PADCNR Right-of-Way Administration Office.
October 17, 2019	PFBC Consultation Response	The PFBC confirmed that they will not require additional surveys for the Pinchot State Forest reroute.
November 22, 2019	PFBC Permit Issuance	The PGC issued PennEast a Special Take Permit for potential bog turtle impacts in Northampton County, PA.
January 23, 2020	AECOM Project Update	Provided mapping and description of the proposed Church Road Interconnects and requested agency review.
January 30, 2020	PFBC Consultation Response	The PFBC confirmed that no new surveys will be requested for the Church Road Interconnects, and no impacts are anticipated to species under the jurisdiction of the PFBC.
PENNSYLVANIA GAME COMMISSION (PGC)		
August 12, 2014	AECOM Consultation Request	Project Review for rare, candidate, threatened, and endangered species request
September 22, 2014	PGC Consultation Response	Species determined by PGC to occur within range of the project
September 24, 2014	PGC Consultation Response	Species determined by PGC to occur within range of the project, updated to account for mistake in 1 st edition; included Allegheny woodrat biology and survey methods attachment
October 24, 2014	AECOM Project Update	Route Update
December 17, 2014	PGC Consultation Response	Species determined by PGC to occur within range of the project; revised to reflect route changes
January 14, 2015	AECOM Project Update	Route Update
January 28, 2015	PGC Consultation Response	Species determined by PGC to occur within range of the project; Revised to reflect route changes
March 30, 2015	AECOM Project Update	Route Update
May 5, 2015	PGC Consultation Response	Species determined by PGC to occur within range of the project; Revised to reflect route changes
May 15, 2015	PGC Consultation Response	Changes to Bat Survey Protocols in Pennsylvania; (Available upon request)

Date	Correspondence Type	Subject
July 24, 2015	AECOM Project Update	Route Update
August 13, 2015	PGC Consultation Response	Species determined by PGC to occur within range of the project; Revised to reflect route changes
October 7, 2015	AECOM Technical Reports	Provided Eastern small-footed bat and Allegheny Woodrat technical reports
October 26, 2015	PGC Consultation Response	Species determined by PGC to occur within range of the project; Revised to reflect route changes
November 10, 2015	AECOM Technical Reports	Provided technical report supplements
December 17, 2015	AECOM Project Update	Route Update
February 23, 2016	AECOM Project Update	Route Update
September 26, 2016	AECOM Project Update	Route Update
October 31, 2016	AECOM Consultation Request	Large Project Pennsylvania Natural Diversity Inventory (PNDI) review update request for staging areas, access roads, compressor station
November 03, 2016	PGC Consultation Response	Species determined by PGC to occur within range of the project; Updated to reflect updated route
April 19, 2018	AECOM Consultation Update	AECOM submitted a northern flying squirrel impact minimization plan, AT/PPL bat mist netting report, AT/PPL eastern small-footed bat habitat and emergence survey report, AT/PPL Allegheny woodrat habitat survey report, and a summary and shapefile of the updated consultation area, including the newly proposed AT/PPL alternative and Blue Mountain Lateral. Reports available on request.
June 25, 2018	PGC Consultation Response	PGC provided questions and comments regarding AECOM's April 19th update letter, and requested clarification prior to issuing an official PNDI response
September 5, 2018	PGC Meeting	AECOM, PennEast, and PGC met to review the PGC's questions and comments, committed to providing a response package with requested information and materials
October 19, 2018	AECOM Consultation Update	AECOM provided the materials and information requested by PGC at the September 5 th meeting, including several species survey

Date	Correspondence Type	Subject
		reports, digital maps, revised northern flying squirrel plan, and figures.
November 2, 2018	Email Correspondence	PGC requested clarification on some of the materials submitted October 19, 2018
November 9, 2018	Email Correspondence	AECOM provided answers to the PGC's November 2, 2018 questions as well as an updated copy of the revised northern flying squirrel plan
December 10, 2018	Email Correspondence	AECOM updated the PGC regarding survey permissions and PADEP permit application status, and asked whether the PGC had any questions or comments on the Northern Flying Squirrel Plan.
January 9, 2019	PGC Consultation Response	PGC provided their final recommendations and guidance in a clearance letter. This letter included two options for remaining eastern small-footed bat habitat – either complete Phase 2 Surveys, or assume presence and mitigate following PGC guidelines.
June 10, 2019	Email Correspondence	AECOM provided a study plan to PGC for Phase 2 emergence surveys on remaining eastern small-footed bat habitat.
June 11, 2019	Email Correspondence	PGC approved AECOM's study plan.
September 23, 2019	AECOM Data Submission	AECOM submitted their 2019 eastern small-footed bat phase 2 survey report.
October 11, 2019	AECOM Route Update	Provided mapping and preliminary environmental review for a minor workspace adjustment proposed in Pinchot State Forest at the request of PADCNR Right-of-Way Administration Office.
October 29, 2019	PGC Consultation Response	The PGC confirmed that no new surveys were needed based on the proposed workspace adjustment in Pinchot State Forest. The PGC also requested information about PennEast's proposed conservation measures for bats.
October 29, 2019	PGC Email	The PGC requested confirmation regarding blasting within ¼ mile of bat hibernacula.
November 6, 2019	AECOM Email Response	Provided the PGC with a list of commitments regarding tree clearing seasons and blasting (no blasting within ¼ mile of the hibernacula in question).
January 23, 2020	AECOM Project Update	Provided mapping and description of the proposed Church Road Interconnects and requested agency review.

Date	Correspondence Type	Subject
February 27, 2020	PGC Consultation Response	The PGC confirmed that no new surveys will be requested for the Church Road Interconnects, and no impacts are anticipated to species under PGC jurisdiction.
March 3, 2020	AECOM Email Correspondence	Requested updated PNDI letter to address the 2019 eastern small-footed bat phase 2 survey report and the Church Road Interconnects.
March 10, 2020	PGC Consultation Response	The PGC provided an updated PNDI letter which included the 2019 eastern small-footed bat survey results and the Church Road Interconnects.
U.S. FISH AND WILDLIFE SERVICE – PENNSYLVANIA OFFICE		
August 12, 2014	AECOM Consultation Request	Project Review for rare, candidate, threatened, and endangered species request
September 30, 2014	USFWS Consultation Response	Species determined by USFWS to occur within range of the project
October 24, 2014	AECOM Project Update	Route Update
January 14, 2015	AECOM Project Update	Route Update
March 30, 2015	AECOM Project Update	Route Update
July 1, 2015	USFW Consultation Response	Species information following listing of northern long-eared bat as federally threatened
July 24, 2015	AECOM Project Update	Route Update
October 7, 2015	AECOM Project Update	Route Update, technical reports for bats, northeastern bulrush, and bog turtle
December 17, 2015	AECOM Project Update	Route Update
February 23, 2016	AECOM Project Update	Route Update
September 26, 2016	AECOM Project Update	Route Update
October 31, 2016	AECOM Project Update	Route Update, additional consultation
October 31, 2017	AECOM Project Update	Technical reports – northeastern bulrush

Date	Correspondence Type	Subject
November 3, 2017	AECOM Project Update	Technical report – fall portal bat survey (winter hibernacula)
November 28, 2017	USFWS Opinion	USFWS issued a Biological Opinion for the Project
April 19, 2018	AECOM Consultation Update	Route update and technical report – bat surveys
August 31, 2018	AECOM Data Submission	AECOM submitted plans to USFWS for the proposed crossing methodologies at bog turtle wetlands
October 10, 2018	Email Correspondence	USFWS concurred that AECOM’s plans for crossing bog turtle wetlands are consistent with the November 2017 Opinion
October 31, 2018	Email Correspondence	Update regarding schedule of potential re-initiation and permit applications
February 12, 2019	Email and Hardcopy Correspondence	PennEast provided the USFWS with an update on survey progress and results for federally-listed species, including survey reports, tracking spreadsheets, and copies of the Amendment Application and Initial Implementation Plans sent to FERC.
April 4, 2019	Email Correspondence	AECOM provided the USFWS with requested shapefiles of the revised ROW and centerline.
April 15, 2019	Email Correspondence	AECOM provided data to the PFBC regarding population data for the Northampton County bog turtle site and included USFWS in the discussion to determine whether any other historic data was available.
May 9, 2019	Site Visit	AECOM and PennEast joined PFBC and USFWS at the Project area to look at bog turtle wetlands in Northampton and Carbon County, and to discuss construction techniques, workspace requirements, and additional data requests.
May 10, 2019	AECOM Data Submission	AECOM provided the USFWS with shapefiles to facilitate their review of mist net survey coverage to respond to a FERC data request
May 21, 2019	AECOM Data Submission	AECOM provided the USFWS with additional mapping to facilitate their review of mist net survey coverage.
May 22, 2019	Email Correspondence	USFWS confirmed that the proposed Amendments had been adequately surveyed with mist net sites, providing documentation for the FERC data request.

Date	Correspondence Type	Subject
June 10, 2019	Conference Call	Representatives of the PFBC, USFWS, AECOM, and PennEast discussed the need for a Special Take Permit, contents of the Biological Assessment, and mitigation options for the Northampton County site.
June 28, 2019	Conference Call	Representatives of the PFBC, USFWS, AECOM, PennEast, and Skelly & Loy discussed potential mitigation options at the Northampton County bog turtle site.
July 18, 2019	AECOM Data Submission	AECOM provided the PFBC their applicant-prepared, state-level Biological Assessment for the Northampton County bog turtle site. USFWS was included on this transmission to keep them informed of progress.
July 29, 2019	USFWS Opinion	The USFWS issued an amended Biological Opinion along with a cover letter addressing informal consultation on a number of species.
September 23, 2019	AECOM Data Submission	AECOM provided the USFWS with copies of their 2019 bog turtle and northeastern bulrush survey reports for Pennsylvania.
October 11, 2019	AECOM Route Update	Provided mapping and preliminary environmental review for a minor workspace adjustment proposed in Pinchot State Forest at the request of PADCNR Right-of-Way Administration Office.
January 23, 2020	AECOM Project Update	Provided mapping and description of the proposed Church Road Interconnects and requested agency review.
March 5, 2020	USFWS Consultation Response	The USFWS confirmed that no new impacts to federal species are anticipated beyond those already addressed in the BO.

Pennsylvania Department of Conservation and
Natural Resources

February 4, 2020

PNDI Number: 617219
Version: Manual_1

Brian Cooper
AECOM, Inc.
625 West Ridge Pike
Conshohocken, PA 19428
Email: brian.cooper@aecom.com (hard copy will not follow)

**Re: UPDATE - PennEast Pipeline Project – Church Road Interconnects Facility
Bethlehem Township, Northampton County, PA**

Dear Mr. Cooper,

Thank you for the submission of your field survey for Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 617219 (Manual_1) for review (formerly PNDI Number 22426). PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated per Survey

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. Numerous rare plant populations were documented during botanical surveys conducted within the proposed PennEast Pipeline project footprint and subsequent revisions. PennEast coordinated with DCNR to develop a suitable mitigation strategy which was approved by our office on August 24, 2018.

UPDATE: The recently proposed metering and regulation station (Church Road Interconnects) occurs almost entirely within the previously surveyed corridors. DCNR reviewed potential workspace extending outside the previous survey boundaries and determined that no impact is likely.

Additional Recommended Actions:

- Design the project to minimize the area of disturbance to the fullest extent that would allow for construction. This will help to lessen the area of soil and vegetation disturbance associated with this project.
- Clean boot treads, construction equipment, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other sites.
- Do not transport unsterilized leaves, mulch, compost, or soil to the site from another location.
- Do not use seed mixes that include invasive species. Please also use weed-free straw or hay mixes. More information about invasive species in Pennsylvania can be found at the following link:
<http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx>
- Use habitat appropriate seed mixes. For example, when reseeding along a waterway, utilize a riparian seed mix. The Bureau of Forestry Planting & Seeding Guidelines can be found here for recommendations:
http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf

- Report occurrences of invasive species to iMapInvasives at <https://www.imapinvasives.org/>. Focus on large infestations and species that are not yet well established in the region or in Pennsylvania (<https://www.paimapinvasives.org/be-on-the-lookout>).

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 and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes 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 Jason Ryndock, Ecological Information Specialist, by phone (717-705-2822) or via email (c-jryndock@pa.gov).

Sincerely



Greg Podnieszinski, Section Chief
Natural Heritage Section

January 23, 2020

PADCNR Reference
PNDI Large Project #022426

AECOM Reference
60414094

Jason Ryndock
Ecological Information Specialist
Pennsylvania Department of
Conservation and Natural
Resources
400 Market Street, P.O. Box 8552
Harrisburg, PA 17105

PennEast Pipeline Project - Newly proposed aboveground facility

Dear Mr. Ryndock,

On behalf of PennEast Pipeline Company, LLC (PennEast), AECOM Technical Services, Inc. (AECOM) is providing your office with the enclosed figure and electronic shapefiles (sent via email) showing a newly proposed aboveground facility associated with the PennEast Pipeline Project (Project).

The proposed Church Road Interconnects will be a metering and regulation (M&R) station at the Project's mainline pipeline intersection with Columbia Gas Transmission, LLC (TCO) and Adelpia Gateway, LLC (Adelpia) in Bethlehem Township, Northampton County, Pennsylvania. PennEast proposes to construct the M&R station on property owned by PennEast at milepost (MP) 68.2R3 (refer to enclosed figure). A pig launcher/receiver will be installed along the Project's mainline pipeline in the northern portion of the site to provide access for internal pipeline inspections during Project operations. Station piping, meter runs, flow control valves, heaters, and gas control/remote terminal unit (RTU) buildings will be installed south of the PPL easement in the southwestern portion of the site.

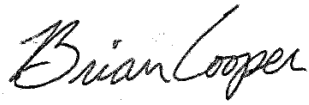
The purpose of the Church Road Interconnects facility is to allow PennEast to construct the Project in two phases. The Phase 1 facilities would include all Project facilities from MP 0.0R1 (northern terminus) to MP 68.2R3 and the Church Road Interconnects; Phase 2 facilities would include all Project facilities from MP 68.2R3 to MP 114.01R3 and the Transco Receiver Site (southern terminus).

The parcels which may be affected are almost entirely within the previously surveyed corridors for the 2016 Certificated Route and the Revised PA Route, for which PennEast has already completed consultations for both with your office; however, small portions of the potential workspace for the newly proposed M&R Station extend beyond the previously surveyed area. These areas are within a residential property owned by PennEast, and do not contain any wetlands, watercourses, or other surface waters. There are several trees on the perimeter of the affected properties, which PennEast plans to leave in place as a screen to limit the visual impacts of the facility.

PennEast has previously consulted with the Pennsylvania Department of Conservation and Natural Resources (PADCNR) regarding state-listed plant species within the Project study corridor. Based on those consultations, PennEast does not anticipate any adverse effects to state-listed plant species as a result of the new facility or the phasing of Project construction.

At this time, on behalf of PennEast, AECOM respectfully asks the PADCNR review the enclosed materials and provide any feedback relating to threatened or endangered species under the jurisdiction of the PADCNR. If you have any questions or require additional information, please feel free to contact me via email or telephone.

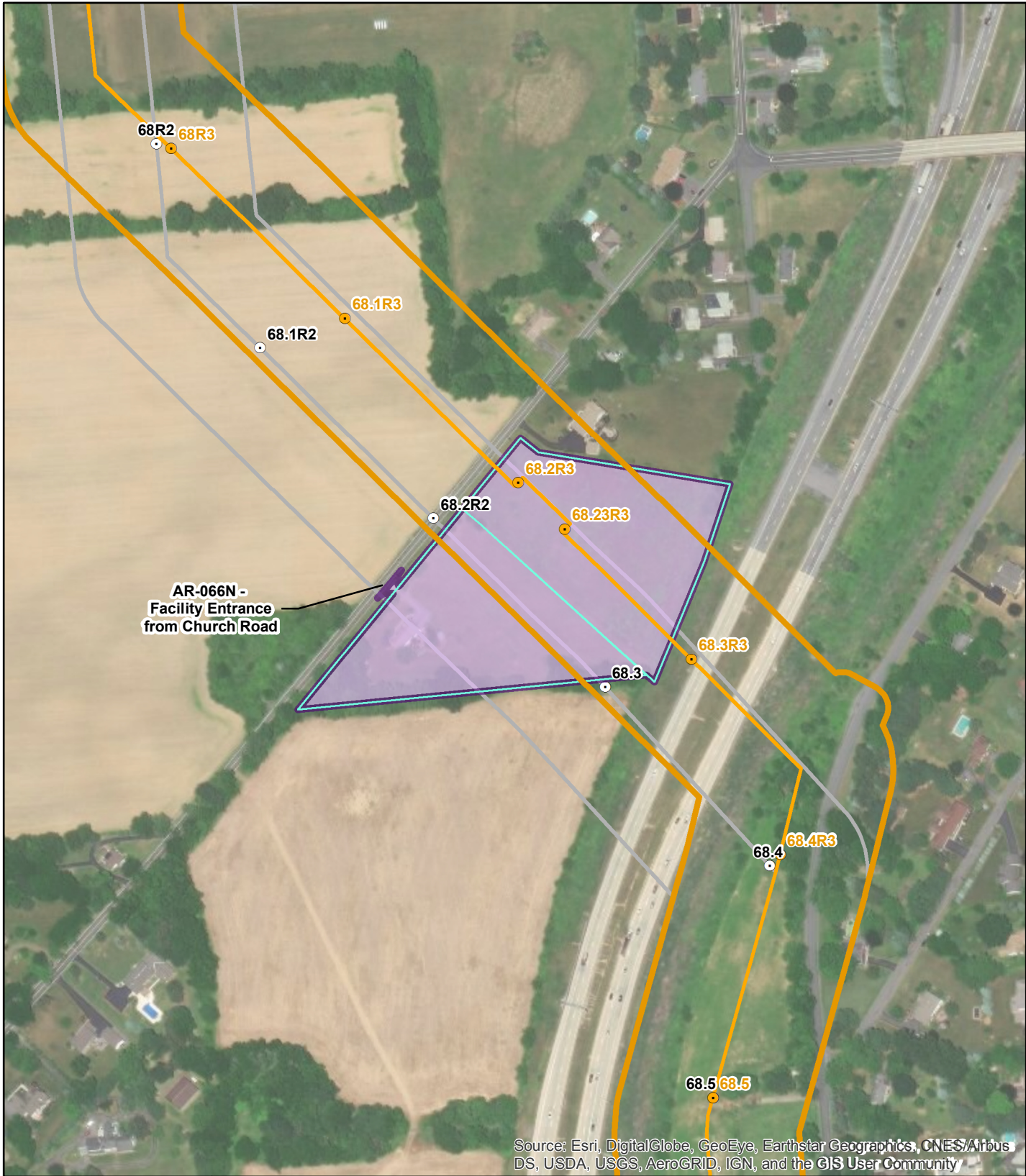
Kind regards,



Brian Cooper
Senior Environmental Scientist
AECOM
T: 610-832-3500
E: brian.cooper@aecom.com

enclosures: Figure (1)
Electronic shapefile (via email)

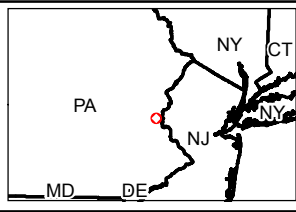
cc: Amber Holly, PennEast
Casey Monagan, PennEsat
Sarah Binckley, AECOM



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	Legend			
	<ul style="list-style-type: none"> ● Revised PA Route Milepost — Revised PA Route Centerline 	<ul style="list-style-type: none"> ▭ Revised PA Route Study Corridor ○ Certificated Route Milepost 	<ul style="list-style-type: none"> — Certificated Route Centerline ▭ Certificated Route Study Corridor 	<ul style="list-style-type: none"> ▭ Parcels Owned by PennEast ▭ Consultation Area

TITLE: PennEast Pipeline Project T&E Consultation Figure			
LOC:		REV.:	
CKD. BY: BH	ENG.:	Date: 1/9/2020	W.O.:
DRN. BY: NB	SCALE: SEE GRAPHIC SCALE	DWG. NO.:	SHEET:



Pennsylvania Fish and Boat Commission



Pennsylvania Fish & Boat Commission

Division of Environmental Services

Natural Gas Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823

November 26, 2019

IN REPLY REFER TO
SIR# 44756

AECOM
Brian Cooper
625 West Ridge Pike
Conshohocken, PA 19428

RE: Species Impact Review – SIR#44756
Biological Opinion, Threatened and Endangered Species Special Permit
PennEast Pipeline Project
Moore Township, Northampton County, Pennsylvania

Dear Brian Cooper:

The Pennsylvania Fish and Boat Commission (PFBC) has reviewed the project plans and supporting biological survey documents for the PennEast Pipeline Project proposed by PennEast Pipeline Company, LLC. The enclosed document represents the PFBC's biological opinion about the effects of the proposed activity on state listed species, and a Special Permit that authorizes their incidental take.

Pursuant to the authority under the Fish and Boat Code, 30 Pa.C.S. § 2102 and 2305, the PFBC hereby grants PennEast Pipeline Company, LLC a Special Permit, as per 58 PA Code 75.4 (1)(iii) to take threatened and endangered species for purposes of installing the PennEast Pipeline Project. This permit authorizes take, which was determined by the enclosed PFBC Biological Opinion to include the state endangered and federally threatened Bog Turtle (2). **The permit conditions outlined in the PFBC Special Permit are mandatory.** This Special Permit is valid through the completion of the project, and expires on November 30, 2024. If the project is not completed by November 30, 2024, PennEast Pipeline Company, LLC shall reinitiate consultation with the PFBC to re-evaluate project impacts on the state listed species, and to determine the appropriateness of the Special Permit and its conditions contained in the Biological Opinion.

If you have any questions regarding this Biological Opinion and/or Special Permit, please contact me at 814-359-5113, curban@pa.gov or Gregory Lech at 610-847-8772, glech@pa.gov. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent initial "C".

Christopher A. Urban, Chief
Natural Diversity Section

JRA/GPL/dn

cc: Pamela Shellenberger, USFWS

Enclosure

January 23, 2020

PFBC Reference
SIR #44756

AECOM Reference
60414094

Gregory Lech
Pennsylvania Fish and Boat
Commission
Natural Gas Section
450 Robinson Lane
Bellefonte, PA 16823

PennEast Pipeline Project - Newly proposed aboveground facility

Dear Mr. Lech,

On behalf of PennEast Pipeline Company, LLC (PennEast), AECOM Technical Services, Inc. (AECOM) is providing your office with the enclosed figure and electronic shapefiles (sent via email) showing a newly proposed aboveground facility associated with the PennEast Pipeline Project (Project).

The proposed Church Road Interconnects will be a metering and regulation (M&R) station at the Project's mainline pipeline intersection with Columbia Gas Transmission, LLC (TCO) and Adelpia Gateway, LLC (Adelpia) in Bethlehem Township, Northampton County, Pennsylvania. PennEast proposes to construct the M&R station on property owned by PennEast at milepost (MP) 68.2R3 (refer to enclosed figure). A pig launcher/receiver will be installed along the Project's mainline pipeline in the northern portion of the site to provide access for internal pipeline inspections during Project operations. Station piping, meter runs, flow control valves, heaters, and gas control/remote terminal unit (RTU) buildings will be installed south of the PPL easement in the southwestern portion of the site.

The purpose of the Church Road Interconnects facility is to allow PennEast to construct the Project in two phases. The Phase 1 facilities would include all Project facilities from MP 0.0R1 (northern terminus) to MP 68.2R3 and the Church Road Interconnects; Phase 2 facilities would include all Project facilities from MP 68.2R3 to MP 114.01R3 and the Transco Receiver Site (southern terminus).

The parcels which may be affected are almost entirely within the previously surveyed corridors for the 2016 Certificated Route and the Revised PA Route, for which PennEast has already completed consultations for both with your office; however, small portions of the potential workspace for the newly proposed M&R Station extend beyond the previously surveyed area. These areas are within a residential property owned by PennEast, and do not contain any wetlands, watercourses, or other surface waters. There are several trees on the perimeter of the affected properties, which PennEast plans to leave in place as a screen to limit the visual impacts of the facility.

PennEast has previously consulted with the Pennsylvania Fish and Boat Commission (PFBC) regarding state-listed species within the Project study corridor. Based on these consultations, and because no impacts to streams, wetlands, or other surface waters are planned at or near this site, PennEast does not anticipate any adverse effects to state-listed species as a result of the new facility or the phasing of Project construction.

At this time, on behalf of PennEast, AECOM respectfully asks that the PFBC review the enclosed materials and provide any relating to threatened or endangered species under the jurisdiction of the PFBC. If you have any questions or require additional information, please feel free to contact me via email or telephone.

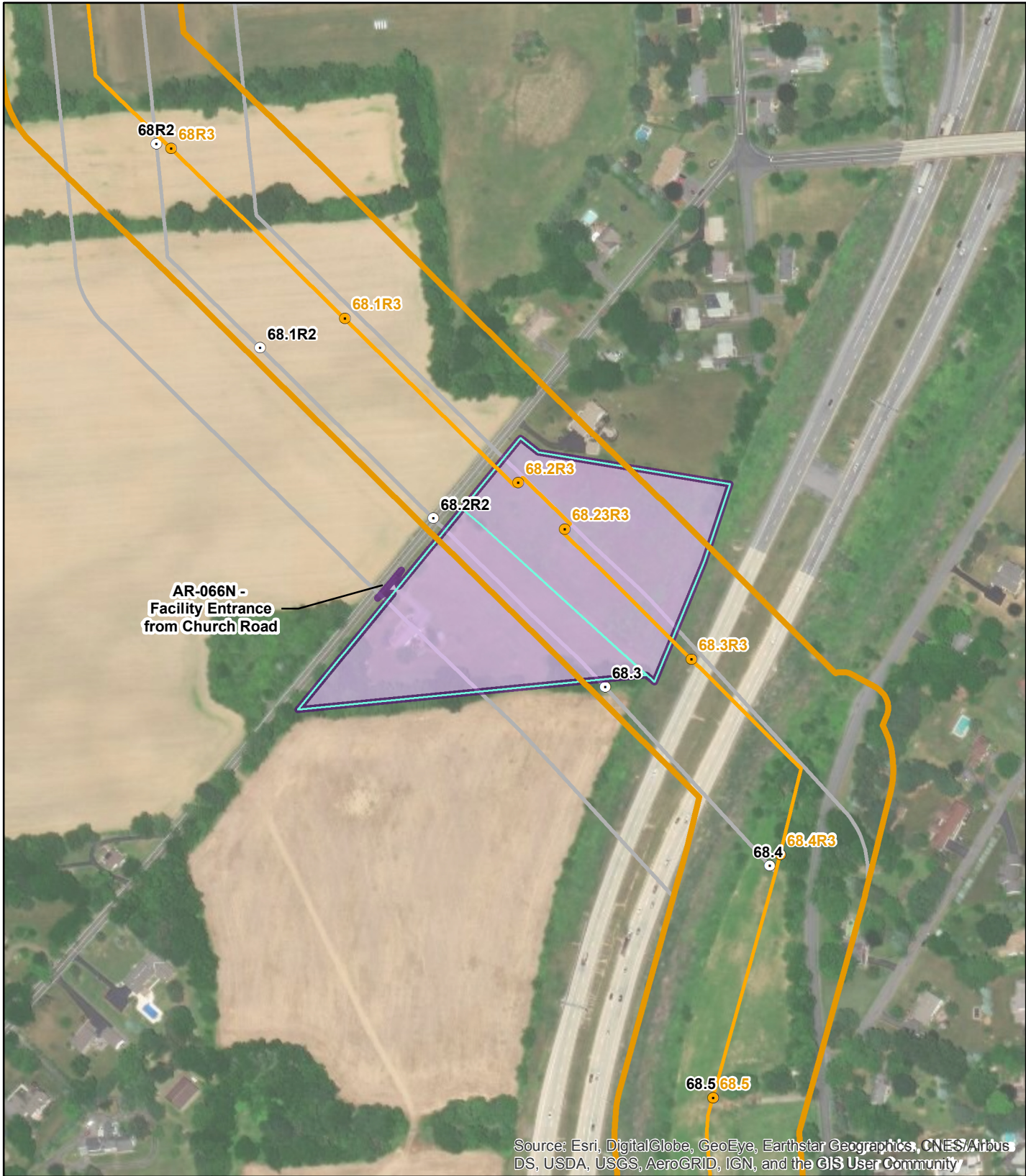
Kind regards,



Brian Cooper
Senior Environmental Scientist
AECOM
T: 610-832-3500
E: brian.cooper@aecom.com

enclosures: Figure (1)
Electronic shapefile (via email)

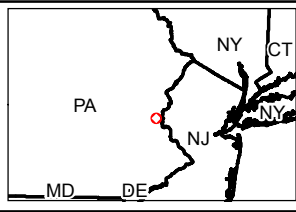
cc: Amber Holly (PennEast)
Casey Monagan (PennEast)
Sarah Binckley (AECOM)



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	Legend			
	<ul style="list-style-type: none"> Revised PA Route Milepost Revised PA Route Centerline 	<ul style="list-style-type: none"> Revised PA Route Study Corridor Certificated Route Milepost 	<ul style="list-style-type: none"> Certificated Route Centerline Certificated Route Study Corridor 	<ul style="list-style-type: none"> Parcels Owned by PennEast Consultation Area

TITLE: PennEast Pipeline Project T&E Consultation Figure			
LOC:		REV.:	
CKD. BY: BH	ENG.:	Date: 1/9/2020	W.O.:
DRN. BY: NB	SCALE: SEE GRAPHIC SCALE	DWG. NO.:	SHEET:





Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Gas Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823

January 30, 2020

IN REPLY REFER TO
SIR# 44756

AECOM
Brian Cooper
625 W. Ridge Pike
Conshohocken, Pennsylvania 19428

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No.
PennEast Pipeline Project – Newly proposed aboveground facility
NORTHAMPTON County:**

Dear Brian Cooper:


This responds to your updated Species Impact Review #44756 submitted by e-mail on January 23, 2020. This review is limited to the referenced “Newly proposed aboveground facility” near Church Road in Bethlehem Township, Northampton County.

Except for occasional transient species, rare, candidate, threatened or endangered species under our jurisdiction are not known to exist in the vicinity of the project area. Therefore, no biological assessment or further consultation regarding rare species is needed with the Commission. Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered.

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 Greg Lech at 610-847-8772 and refer to the SIR # 44756. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg Lech". The signature is written in a cursive, somewhat stylized font.

Greg Lech
Natural Gas Section

GPL/dn

Pennsylvania Game Commission

Cooper, Brian

From: Librandi Mumma, Tracey <tlibrandi@pa.gov>
Sent: Tuesday, October 29, 2019 10:34 AM
To: Cooper, Brian
Cc: Amber Holly; Casey Monagan; Binckley, Sarah
Subject: RE: PennEast Pipeline - Pinchot State Forest Workspace Adjustment

Categories: Green Category

Hi Brian,

The PGC has no comments regarding state listed threatened or endangered species on the revised workspace in Pinchot State Forest. The draft receipt you provided had a PGC conservation measure deferring to USFWS for federally listed species yet USFWS stated there are no impacts to federally listed species anticipated. These conflicting responses are a result of inconsistent answers to the tree removal questions. For Q1 you answered there would be 1 -39 acres of tree removal but then for Q2 answered yes, to will there be more than 40 acres of tree removal. If you make the responses match then you will get a consistent answer (for example, if it is truly less than 40 acres of tree removal then Q2 should be no instead of yes, and that would eliminate the PGC conservation measure language).

However, the PGC does have questions regarding seasonal timber restrictions for bats within the entire PennEast Pipeline project area. Is PennEast implementing a seasonal timber restriction for the entire pipeline for bats or only certain sections? The EA refers to timing restrictions for tree clearing but doesn't explicitly outline/illustrate where these restrictions will be implemented. Please provide information illustrating where seasonal tree clearing restrictions will be implemented.

I ask the above as both little brown and tri-colored bats are now state listed endangered species (this didn't occur until after the previous 1/9/19PGC PNDI response letter was issued). The PennEast pipeline project has captured both of these species at various locations within the project area and thus I was trying to piece together where seasonal timber restrictions were going to be implemented within the project area so I could see how these lined up with where both little brown and tri-colored bats were captured.

Please provide me with information regarding where the seasonal tree removal will be implemented at your earliest convenience.

Thanks!

Tracey Librandi Mumma

Wildlife Biologist / Habitat Protection Section Chief
Environmental Planning & Habitat Protection Division
Bureau of Wildlife Habitat Management
Pennsylvania Game Commission
2001 Elmerton Avenue
Harrisburg, PA 17110
717-787-4250 ext 73614
Fax 717-787-6957
tlibrandi@pa.gov

From: Cooper, Brian <Brian.Cooper@aecom.com>
Sent: Friday, October 11, 2019 1:36 PM
To: Librandi Mumma, Tracey <tlibrandi@pa.gov>
Cc: Amber Holly <aholly@ugies.com>; Casey Monagan <cmonagan@ugies.com>; Binckley, Sarah

<sarah.binckley@aecom.com>

Subject: [External] PennEast Pipeline - Pinchot State Forest Workspace Adjustment

ATTENTION: *This email message is from an external sender. Do not open links or attachments from unknown sources. To report suspicious email, forward the message as an attachment to CWOPA_SPAM@pa.gov.*

Hi Tracey,

Please find attached to this email information regarding a workspace adjustment proposed within Pinchot State Forest in Luzerne County, Pennsylvania. This minor adjustment is being considered at the request of the Pennsylvania Department of Conservation and Natural Resources Right-of-Way Administration Office.

At this time, we respectfully request that your agency review the proposed route adjustment and provide any input regarding additional survey requests in this area. If you have any questions or require additional information for your review, please feel free to contact me at your convenience.

Thanks,
Brian

Brian Cooper, AECOM
Environmental Scientist, USFWS Qualified Bat Surveyor
Impact Assessment & Permitting
D +1-610-832-2457
M +1-717-304-0578
brian.cooper@aecom.com

AECOM
625 West Ridge Pike
Suite E-100
Conshohocken, PA 19428, United States of America
T +1-610-832-3500
aecom.com

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Cooper, Brian

From: Librandi Mumma, Tracey <tlibrandi@pa.gov>
Sent: Tuesday, October 29, 2019 11:00 AM
To: Cooper, Brian
Cc: Amber Holly; Casey Monagan; Binckley, Sarah
Subject: RE: PennEast Pipeline - Pinchot State Forest Workspace Adjustment

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Green Category

Sorry, I had one addition question related to the MYLU hibernaculum PE-MF-23 in Luzerne County. What if any blasting will occur within ¼ mile of this MYLU hibernaculum?

Thanks!

Tracey Librandi Mumma

Wildlife Biologist / Habitat Protection Section Chief
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717-787-4250 ext 73614
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tlibrandi@pa.gov

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Cc: Amber Holly <aholly@ugies.com>; Casey Monagan <cmonagan@ugies.com>; Binckley, Sarah <sarah.binckley@aecom.com>
Subject: RE: PennEast Pipeline - Pinchot State Forest Workspace Adjustment

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Please provide me with information regarding where the seasonal tree removal will be implemented at your earliest convenience.

Thanks!

Tracey Librandi Mumma

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Thanks,
Brian

Brian Cooper, AECOM
Environmental Scientist, USFWS Qualified Bat Surveyor
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M +1-717-304-0578
brian.cooper@aecom.com

AECOM
625 West Ridge Pike

Suite E-100
Conshohocken, PA 19428, United States of America
T +1-610-832-3500
aecom.com

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Cooper, Brian

From: Cooper, Brian
Sent: Wednesday, November 06, 2019 9:23 AM
To: Librandi Mumma, Tracey
Cc: Amber Holly; Casey Monagan; Binckley, Sarah
Subject: RE: PennEast Pipeline - Pinchot State Forest Workspace Adjustment

Categories: Green Category

Hi Tracey,

Thanks for providing feedback on the Pinchot Reroute. This reroute includes less than 40 acres of tree clearing, so Q2 ("Will there be more than 40 acres of tree removal?") should have been answered "No." That's my bad. To answer your other questions:

1. Seasonal tree felling restrictions for bats (commitments from USFWS BO):
 - a. PennEast has committed to felling all trees ≥ 5 " dbh (Project-wide, PA and NJ) between November 1 and March 31.
 - b. PennEast will conduct all tree removal (regardless of dbh) between November 1 and March 31 within 150 ft of known maternity roosts of northern long-eared bats (MP 38.7 and 42.2R2).
 - c. PennEast will only clear trees ≥ 3 " dbh between November 15 and March 31 within northern long-eared bat swarming habitat (MP 4.6R2-16 and 65.7-82.7).
2. Blasting near hibernacula (commitments from USFWS BO and PGC Consultation):
 - a. PennEast will not blast within 0.25 miles of known northern long-eared bat hibernacula
 - b. PennEast will not blast within 0.25 miles of hibernacula PE-MF-023 in Luzerne County, Pennsylvania

I hope these answer your questions. Feel free to give me a call or send me an email if you need any more information.

Thanks,
Brian

Brian Cooper, AECOM
Senior Environmental Scientist
Impact Assessment & Permitting
D +1-610-832-2457
M +1-717-304-0578
brian.cooper@aecom.com

AECOM
625 West Ridge Pike
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Conshohocken, PA 19428, United States of America
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From: Librandi Mumma, Tracey <tlibrandi@pa.gov>
Sent: Tuesday, October 29, 2019 11:00 AM
To: Cooper, Brian <Brian.Cooper@aecom.com>

Cc: Amber Holly <aholly@ugies.com>; Casey Monagan <cmonagan@ugies.com>; Binckley, Sarah <sarah.binckley@aecom.com>

Subject: RE: PennEast Pipeline - Pinchot State Forest Workspace Adjustment

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Thanks!

Tracey Librandi Mumma

Wildlife Biologist / Habitat Protection Section Chief
Environmental Planning & Habitat Protection Division
Bureau of Wildlife Habitat Management
Pennsylvania Game Commission
2001 Elmerton Avenue
Harrisburg, PA 17110
717-787-4250 ext 73614
Fax 717-787-6957
tlibrandi@pa.gov

From: Librandi Mumma, Tracey

Sent: Tuesday, October 29, 2019 10:34 AM

To: Cooper, Brian <Brian.Cooper@aecom.com>

Cc: Amber Holly <aholly@ugies.com>; Casey Monagan <cmonagan@ugies.com>; Binckley, Sarah <sarah.binckley@aecom.com>

Subject: RE: PennEast Pipeline - Pinchot State Forest Workspace Adjustment

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Subject: [External] PennEast Pipeline - Pinchot State Forest Workspace Adjustment

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Thanks,
Brian

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Environmental Scientist, USFWS Qualified Bat Surveyor
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AECOM
625 West Ridge Pike
Suite E-100
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T +1-610-832-3500
aecom.com

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January 23, 2020

PGC Reference
PGC ID #20140819001 Revision

AECOM Reference
60414094

Tracey Librandi Mumma
Pennsylvania Game Commission
2001 Elmerton Avenue
Harrisburgh, PA 17110

PennEast Pipeline Project - Newly proposed aboveground facility

Dear Ms. Librandi Mumma,

On behalf of PennEast Pipeline Company, LLC (PennEast), AECOM Technical Services, Inc. (AECOM) is providing your office with the enclosed figure and electronic shapefiles (sent via email) showing a newly proposed aboveground facility associated with the PennEast Pipeline Project (Project).

The proposed Church Road Interconnects will be a metering and regulation (M&R) station at the Project's mainline pipeline intersection with Columbia Gas Transmission, LLC (TCO) and Adelpia Gateway, LLC (Adelpia) in Bethlehem Township, Northampton County, Pennsylvania. PennEast proposes to construct the M&R station on property owned by PennEast at milepost (MP) 68.2R3 (refer to enclosed figure). A pig launcher/receiver will be installed along the Project's mainline pipeline in the northern portion of the site to provide access for internal pipeline inspections during Project operations. Station piping, meter runs, flow control valves, heaters, and gas control/remote terminal unit (RTU) buildings will be installed south of the PPL easement in the southwestern portion of the site.

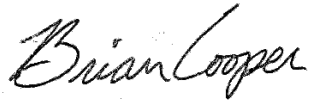
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The parcels which may be affected are almost entirely within the previously surveyed corridors for the 2016 Certificated Route and the Revised PA Route, for which PennEast has already completed consultations for both with your office; however, small portions of the potential workspace for the newly proposed M&R Station extend beyond the previously surveyed area. These areas are within a residential property owned by PennEast, and do not contain any wetlands, watercourses, or other surface waters. There are several trees on the perimeter of the affected properties, which PennEast plans to leave in place as a screen to limit the visual impacts of the facility.

PennEast has previously consulted with the Pennsylvania Game Commission (PGC) regarding state-listed wildlife species within the Project study corridor. Based on those consultations, and because no impacts to wetlands, streams, or forested areas are planned at this site, PennEast does not anticipate any adverse effects to any state-listed species as a result of the new facility or the phasing of Project construction.

At this time, on behalf of PennEast, AECOM respectfully asks that the PGC review the enclosed materials and provide relating to threatened or endangered species under the jurisdiction of the PGC. If you have any questions or require additional information, please feel free to contact me via email or telephone.

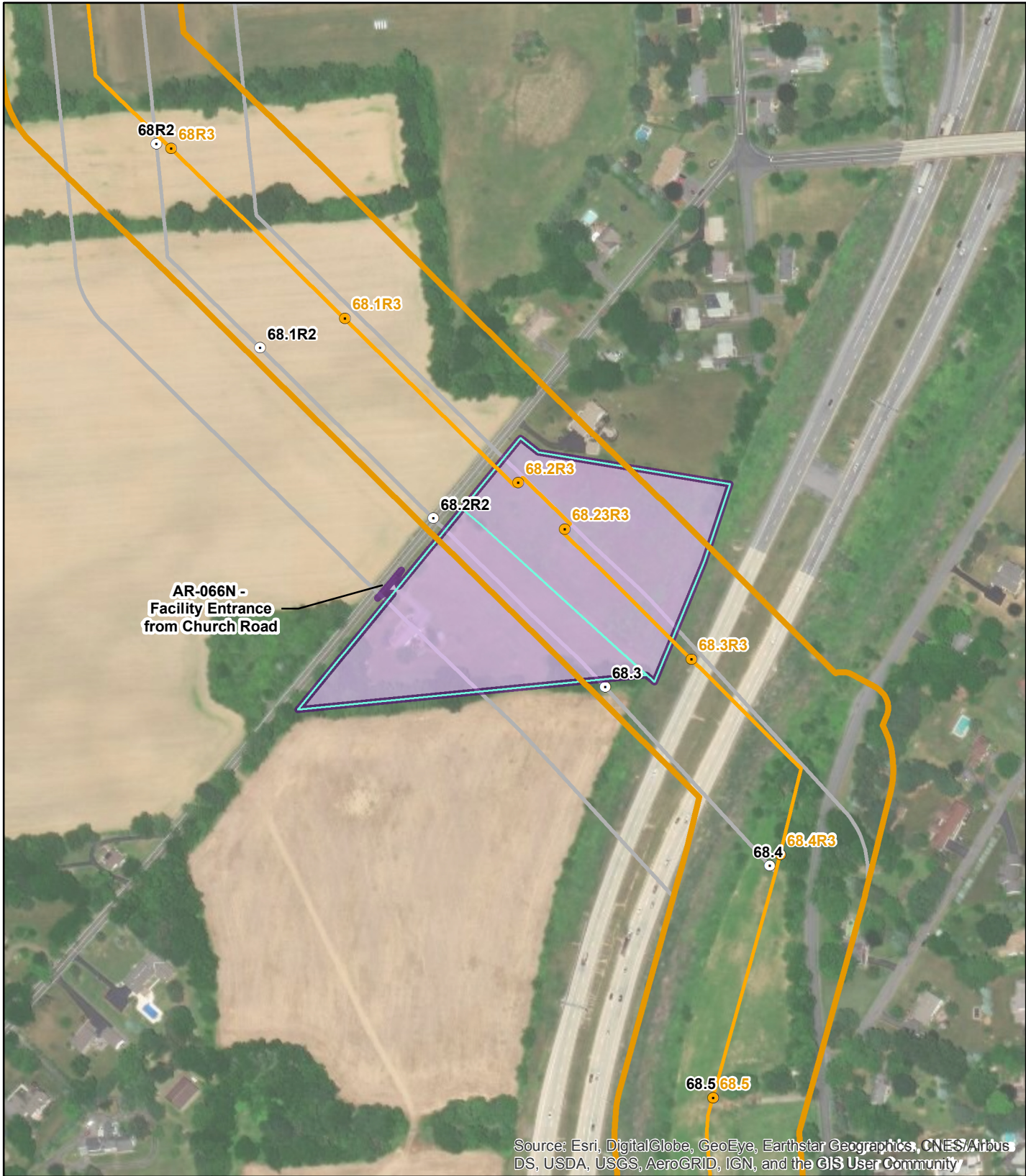
Kind regards,



Brian Cooper
Senior Environmental Scientist
AECOM
T: 610-832-3500
E: brian.cooper@aecom.com

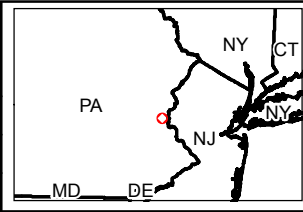
enclosures: Figure (1)
Electronic shapefile (via email)

cc: Amber Holly (PennEast)
Casey Monagan (PennEast)
Sarah Binckley (AECOM)



	Legend			
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TITLE: PennEast Pipeline Project T&E Consultation Figure			
LOC:		REV.:	
CKD. BY: BH	ENG.:	Date: 1/9/2020	W.O.:
DRN. BY: NB	SCALE: SEE GRAPHIC SCALE	DWG. NO.:	SHEET:



PennEast Pipeline Company, LLC

Cooper, Brian

From: Librandi Mumma, Tracey <tlibrandi@pa.gov>
Sent: Thursday, February 27, 2020 11:06 AM
To: Cooper, Brian
Cc: Binckley, Sarah; Casey Monagan; Amber Holly
Subject: RE: [External] PennEast Pipeline Project - New Facility Update

Categories: Green Category

Hi Brian,

I'm sorry I didn't get back to you sooner. The PGC does not anticipate any impacts to species or resources under our jurisdiction from the new proposed Church Road Interconnects metering and regulation station. Do you need something more than this email from the PGC stating this or will this email suffice?

Also, is there anything else AECOM needs from the PGC at this time regarding this project?

Thanks!

Tracey Librandi Mumma

Wildlife Biologist / Habitat Protection Section Chief
Environmental Planning & Habitat Protection Division
Bureau of Wildlife Habitat Management
Pennsylvania Game Commission
2001 Elmerton Avenue
Harrisburg, PA 17110
717-787-4250 ext 73614
Fax 717-787-6957
tlibrandi@pa.gov

From: Cooper, Brian <Brian.Cooper@aecom.com>
Sent: Thursday, January 23, 2020 4:19 PM
To: Librandi Mumma, Tracey <tlibrandi@pa.gov>
Cc: Binckley, Sarah <sarah.binckley@aecom.com>; Casey Monagan <cmonagan@ugies.com>; Amber Holly <aholly@ugies.com>
Subject: [External] PennEast Pipeline Project - New Facility Update

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Hi Tracey,

Please find attached a letter (with figure) and electronic shapefile (.kmz format) which addresses the newly proposed Church Road Interconnects facility. If you have any questions about this facility or the PennEast Pipeline Project, please feel free to contact me at your convenience.

Thanks,

Brian Cooper
Senior Environmental Scientist

Impact Assessment & Permitting

D +1-610-832-2457

M +1-717-304-0578

brian.cooper@aecom.com

AECOM

625 West Ridge Pike

Suite E-100

Conshohocken, PA 19428, United States of America

T +1-610-832-3500

aecom.com

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Cooper, Brian

From: Cooper, Brian
Sent: Tuesday, March 03, 2020 2:07 PM
To: Librandi Mumma, Tracey
Cc: Binckley, Sarah; Casey Monagan; Amber Holly
Subject: RE: [External] PennEast Pipeline Project - New Facility Update
Attachments: PGC_2019_01_09_PNDI Response Letter.pdf

Hi Tracey,

Thanks for getting back to me on this. If you wouldn't mind, it would be helpful to get an updated PNDI response letter which addresses the MYLE Phase 2 report that we submitted on September 23, 2019 and the proposed Church Road Interconnect. I've attached a copy of the last PNDI response we received from the PGC, which outlined the two options for MYSE roosting habitat – we opted to do Phase 2 surveys, as previously mentioned.

Please let me know if you need anything else from me.

Thanks,

Please note new office phone numbers effective 2/6/20

Brian Cooper

Senior Environmental Scientist
Impact Assessment & Permitting

D +1-610-234-0398

M +1-717-304-0578

brian.cooper@aecom.com

AECOM

625 West Ridge Pike
Suite E-100
Conshohocken, PA 19428, United States of America

T +1-610-234-5402

aecom.com

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From: Librandi Mumma, Tracey <tlibrandi@pa.gov>
Sent: Thursday, February 27, 2020 11:06 AM
To: Cooper, Brian <Brian.Cooper@aecom.com>
Cc: Binckley, Sarah <sarah.binckley@aecom.com>; Casey Monagan <cmonagan@ugies.com>; Amber Holly <aholly@ugies.com>
Subject: RE: [External] PennEast Pipeline Project - New Facility Update

Hi Brian,

I'm sorry I didn't get back to you sooner. The PGC does not anticipate any impacts to species or resources under our jurisdiction from the new proposed Church Road Interconnects metering and regulation station. Do you need something more than this email from the PGC stating this or will this email suffice?

Also, is there anything else AECOM needs from the PGC at this time regarding this project?

Thanks!

Tracey Librandi Mumma

Wildlife Biologist / Habitat Protection Section Chief
Environmental Planning & Habitat Protection Division
Bureau of Wildlife Habitat Management
Pennsylvania Game Commission
2001 Elmerton Avenue
Harrisburg, PA 17110
717-787-4250 ext 73614
Fax 717-787-6957
tlibrandi@pa.gov

From: Cooper, Brian <Brian.Cooper@aecom.com>
Sent: Thursday, January 23, 2020 4:19 PM
To: Librandi Mumma, Tracey <tlibrandi@pa.gov>
Cc: Binckley, Sarah <sarah.binckley@aecom.com>; Casey Monagan <cmonagan@ugies.com>; Amber Holly <aholly@ugies.com>
Subject: [External] PennEast Pipeline Project - New Facility Update

ATTENTION: *This email message is from an external sender. Do not open links or attachments from unknown sources. To report suspicious email, forward the message as an attachment to CWOPA_SPAM@pa.gov.*

Hi Tracey,

Please find attached a letter (with figure) and electronic shapefile (.kmz format) which addresses the newly proposed Church Road Interconnects facility. If you have any questions about this facility or the PennEast Pipeline Project, please feel free to contact me at your convenience.

Thanks,

Brian Cooper
Senior Environmental Scientist
Impact Assessment & Permitting
D +1-610-832-2457
M +1-717-304-0578
brian.cooper@aecom.com

AECOM
625 West Ridge Pike
Suite E-100
Conshohocken, PA 19428, United States of America
T +1-610-832-3500
aecom.com

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COMMONWEALTH OF PENNSYLVANIA PENNSYLVANIA GAME COMMISSION

2001 Elmerton Avenue
Harrisburg, PA 17110-9797

Wildlife Habitat Management
717-787-6818

March 10, 2020

PGC ID Number: 201408190001 Revision

Mr. Brian Cooper
AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428
Brian.Cooper@aecom.com

Re: PennEast Pipeline Company, LLC – PennEast Pipeline Project (*Revision*)
Manual Project PNDI Review - State Game Lands Nos. 40, 91, 129, and 168
Luzerne, Carbon, Northampton, and Bucks Counties, PA

Dear Mr. Cooper,

Thank you for submitting your Pennsylvania Natural Diversity Inventory (PNDI) Large Project Environmental Review request. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only. This is an update to the PNDI letter that was issued on January 9, 2019 based on the additional information that was provided to the PGC since that date.

Potential Impact Anticipated

PNDI records indicate species or resources of concern are located in the vicinity of the project. The PGC has received and thoroughly reviewed the information that you provided to this office as well as PNDI data, and has determined that potential impacts to threatened, endangered, and species of special concern may be associated with your project. Therefore, additional measures are necessary to avoid potential impacts to the species listed below:

Scientific Name	Common Name	PA Status	Federal Status
<i>Myotis sodalis</i>	Indiana Bat	ENDANGERED	ENDANGERED
<i>Myotis septentrionalis</i>	Northern Long-eared Bat	ENDANGERED	THREATENED
<i>Glaucomys sabrinus macrotis</i>	Northern Flying Squirrel	ENDANGERED	N/A
<i>Myotis lucifugus</i>	Little Brown Bat	ENDANGERED	N/A
<i>Perimyotis subflavus</i>	Tri-colored Bat	ENDANGERED	N/A
<i>Neotoma magister</i>	Allegheny Woodrat	THREATENED	N/A
<i>Myotis leibii</i>	Eastern Small-footed Bat	THREATENED	N/A
N/A	Winter Bat Colony	SPECIAL CONCERN	N/A

Next Steps

Indiana Bats and Northern Long-eared Bats

Indiana and northern long-eared bats are both federally listed species under the jurisdiction of the U.S. Fish and Wildlife Service. As a result, our agency defers comments on potential impacts to Indiana and northern long-eared bats to the U.S. Fish and Wildlife Service.

Northern Flying Squirrel

Northern flying squirrels have been documented and habitat exists within the project area specifically between MP 37.6R2 and 32.2R2. As such PennEast has committed to implementing the following measures to avoid, minimize, and mitigate for unavoidable impacts to northern flying squirrels and are outlined in the *PennEast Pipeline Project Northern Flying Squirrel Impact Minimization Plan*, dated November 2018:

- Avoidance Measures:
 - Avoid forest clearing between MP 27.1R2 and MP 37.6R2 by using horizontal directional drill under I-80 and an adjacent forested wetland.
 - Avoid tree removal between MP 27.1R2 and 32.1R2 from April 15th and June 15th, when northern flying squirrel young are expected to be confined to their nests.
- Minimization Measures:
 - Co-locate their pipeline with an existing pipeline right-of-way from approximately MP 27.6R2 to MP 32.2R2 to minimize habitat fragmentation.
 - Utilize existing roads to access the pipeline to the greatest extent possible
 - Reduce total tree clearing necessary to facilitate the project to the greatest extent possible by reducing the minimum width of the construction corridor from 100 to 75 feet within Hickory Run State Park and from 100 feet to 75 feet between MP 30.06R2 and 30.20R2 and between MP 30.35.20R2 and 30.55R2 on SGL #129.
 - Reduce blasting impacts in areas where shallow bedrock necessitates blasting for construction to proceed by:
 - Confining the charge, either through covering with fill or covering with blasting mats.
 - Using the minimum charge weight practical to fracture the rock.
- Mitigation:
 - Replanting and reforestation will occur in wetland and riparian areas, as outlined in the PennEast Pipeline Wetland and Riparian Reforestation Plan.
 - Tree species to be planted will include white pine, balsam fire, eastern hemlock and black spruce which are used by northern flying squirrel.
 - Trees will be planted in temporary workspaces in non-rocky areas at a spacing of 10 feet on the center.
 - Protection and survival measures will include 24" coco mats and spiral tree wraps.
 - Monitoring of the tree plantings will be done by PennEast and they have guaranteed survivorship of 75% at the end of the second growing season.
 - Any plantings on State Game Lands #129 will be coordinated with and approved by the PGC Northeast Region Office.
 - Eleven timber reserve areas (TRAs) have been incorporated into the project design. These TRAs are to reduce the total glide distance required for northern flying squirrels

to cross the open corridor. Two of the eleven TRAs are located on SGL #129 and the other 9 are located on Hickory Run State Park.

- All of the TRAs are located within the 2.2 mile of northern flying squirrel habitat.
- At each TRA, only the 30-foot maintain right-of-way and approximately 5-10 feet of temporary workspace will be cleared for 25 linear feet, leaving a 25-foot by 40-foot area of mature trees abutting the maintained right-of-way.

Little Brown and Tri-colored Bats: Little brown bats were captured during mist net survey in both 2015 and 2017 and one tri-colored bat was captured during mist net surveys in 2015. In addition, one known little brown bat hibernacula (PE-MF-23, Luzerne County) is located in close proximity to the project area. The following measures are to be implemented to avoidance and minimization impacts to both little brown and tri-colored bats:

- Tree removal will be avoided to the greatest extent possible throughout the project area. Any tree or dead snags, greater than 3 inches in diameter at breast height, that need to be harvested to facilitate this project will be removed between August 1st and May 31st to avoid impacting nonvolant juvenile bats. Please note, additional tree removal restrictions may need to be implemented in areas around bat hibernacula.
- No blasting will occur within ¼ miles of the PE-MF-23 hibernaculum.
- No tree removal will occur within 300 feet of any of the entrances associated with the PE-MF-23 hibernaculum.
- Tree removal will be avoided to the greatest extent possible between 300 and 1000 feet of entrances associated with the PE-MF-23 hibernaculum. Any tree or dead snags, greater than 3 inches in diameter at breast height, that need to be harvested between 300-1000 feet of any of the PE-MF-23hibernaculum entrances, will be cut between November 1st and March 31st.

Allegheny Woodrat

The PGC has identified portions with the proposed project where potential Allegheny woodrat habitat may exist and could be impacted by the proposed project. Habitat assessments were conducted, which revealed that habitat suitable for woodrats was present. However, no evidence was documented verifying woodrat presence in these areas. Therefore, no potential impacts to Allegheny woodrats are anticipated from the construction of this project.

Eastern Small-footed Bat

- Mist nest surveys were completed between 2015 and 2018. A total of 11 eastern small-footed bats were captured in the project area, of which three were transmitted and telemetry was conducted. All three bats were documented roosting off the project area.
- Summer roost habitat assessments surveys were conducted between 2015 and 2018. Potential roost habitat was identified, and emergence counts were conducted at all but 5 potential roost habitat areas. Bats were only documented at one of the potential roost habitat areas at which emergence counts were conducted. This location (SA3-ESFB-4) is now 1.4 miles off the route as the route has since been realigned, therefore no impact to this roost location are anticipated.

- In addition, one potential roost is located outside the survey corridor (SEI-WR-2) that may be impacted by blasting, if done along the pipeline corridor. As such, PennEast has determined that blasting will not be required at this location and that manual excavation of rock will be conducted.
- Emergence counts were conducted during the summer of 2019 for five small areas of exposed rock that had been previously identified as potential roost habitat areas (SA1-ESFB-1, SA1-ESFB-2, SA1-ESFB-3, SA1-ESFB-5, and SEI-MYLE-01) located in Luzerne County. At the time of the emergence count surveys, one (SA1-ESFB-2) of the five potential roost habitats was deemed no longer suitable habitat as there were no longer any larger, exposed rock with fissures or interstices. As such, no emergence counts were conducted at this location. At the remaining four potential roost habitat areas (SA1-ESFB-1, SA1-ESFB-3, SA1-ESFB-5, and SEI-MYLE-01), no bats were observed roosting or emerging from any of the rock structures during emergence count surveys. Since eastern small-footed bats are not using these four habitat areas, no avoidance, minimization or mitigation measures are necessary for these four sites.

Potential Bat Hibernacula

Bat hibernacula investigations were conducted throughout the project area and eight portals were identified and bat use documented at each. There are also three additional known bat hibernacula located within approximately ¼ mile of the project. The following avoidance and minimization measures will be implemented at all 11 bat hibernacula (PE-ME-17, PE-ME-18, PE-ME-21, PE-ME-23, PE-ME-24, PE-ME-25, PE-ME-26, PE-ME-27, Tunnel 34, Durham Cave 1, and Durham Cave 2):

- No blasting will occur within ¼ miles of any hibernacula.
- No tree removal will occur within 300 feet of any hibernacula entrance.
- Tree removal will be avoided to the greatest extent possible between 300 and 1000 feet of all hibernacula entrances. Any tree or dead snags, greater than 5 inches in diameter at breast height, that need to be harvested between 300-1000 feet of any hibernacula entrance, will be cut between November 1st and March 31st.
- PennEast has committed to using manual excavation of bedrock instead of blasting between MP 10.6R2 and 11.6R2 to avoid impacts to a nearby hibernacula.

State Game Lands

Portions of the proposed project are located on State Game Lands Nos. 40, 91, 129, and 168. Please contact Mr. Michael Beahm, Northeast Land Management Supervisor, at 570-675-1143 to discuss and coordinate the project on SGL's 40, 91, and 129, and Mr. Kevin Clouser, Southeast Region Land Management Supervisor, at 610-926-3136 to discuss and coordinate the project on SGL 168.

Conservation Measures

National Wetland Inventory Mapping (NWI) and/or aerial photos suggest that wetlands are located within the requested review throughout the proposed project. The PGC is requesting that the final project avoid, or at least minimize to the greatest practical extent, any adverse impacts to these resources and their associated wildlife habitat.

In addition, portions of the project located in Luzerne and Carbon County are within areas where the abundance and species richness of various area-sensitive forest bird species are among the highest in the state. Area-sensitive forest bird species are those species that require a large expanse of relatively contiguous (un-fragmented) forest to maintain their populations. The species found in these areas are listed as species of greatest conservation need in Pennsylvania's Wildlife Action Plan (WAP). The WAP was designed to proactively manage and safeguard the state's declining fish and wildlife resources, and sets a framework to conserve Pennsylvania's diverse wildlife, maintain their role in ecological processes, and protect and enhance species of conservation concern (not just imperiled species). Although these area-sensitive forest bird species are not currently listed as threatened or endangered, and do not produce potential conflicts for projects reviewed using the on-line PNDI Environmental Review Tool, their populations and requisite habitat are either in decline, or are vulnerable to decline in the state.

As a result, the PGC is recommending the following conservation measures be implemented, to the greatest extent practicable, to minimize impacts to these area-sensitive forest bird species and minimize additional fragmentation of forested tracts throughout the project area:

- Co-locate the pipeline and associated facilities with existing roads and other disturbed areas.
- Minimize the width of the temporary construction right-of-way (ROW) and avoid grubbing where possible to encourage the re-establishment of woody vegetation.
- Minimize the width of the permanent, maintained ROW to only that which is absolutely necessary to maintain the integrity of the pipeline.
- Maximize the rotation of mowing and/or clearing along that maintained ROW to allow for the establishment of more beneficial wildlife habitat.
- Perform initial tree clearing for the project between August 15th and April 15th.
- Perform any future mowing and/or clearing along the maintained ROW between August 15th and April 15th.
- Use the following seed mixes, or similar herbaceous seed mixes that will minimize competition with volunteer woody plant species, while offering additional wildlife habitat and food sources along the reclaimed ROW:

Steep Slopes	Other Areas
<i>1 bushel/acre Annual Cereal Grain (oats in spring, grain rye or wheat in fall)</i>	<i>1.5 lbs/acre Big Bluestem</i>
<i>10 lbs/acre Timothy</i>	<i>1 lbs/acre Little Bluestem</i>
<i>3 lbs/acre Birdsfoot Trefoil</i>	<i>1 lbs/acre Indiangrass</i>
<i>4 lbs/acre Little Bluestem</i>	<i>0.5 lbs/acre Switchgrass</i>
<i>3 lbs/acre Alsike Clover</i>	<i>1 lbs/acre Deertongue</i>
<i>3 lbs/acre Ladino Clover</i>	<i>4 lbs/acre Partridge Pea</i>
<i>Straw Mulch, NO HAY</i>	<i>2 lbs/acre Showy Tick Trefoil</i>
	<i>0.5 lbs/acre Common Milkweed</i>

	<i>0.5 lbs/acre Wild Bergamot</i>
	<i>0.5 lbs/acre Black-eyed Susan</i>
	<i>0.5 lbs/acre New England Aster</i>
	<i>0.5 lbs/acre Tall White Beard-tongue</i>
	<i>30 lbs/acre Cover crop (oats in spring and winter wheat in fall)</i>
	<i>Straw Mulch, NO HAY</i>

This response represents the most up-to-date summary of the PNDI data files and is valid for two (2) years from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this 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). If the proposed work has not changed and no additional information concerning listed species is found, the project will be cleared for PNDI requirements under this agency for two additional years.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural Resources, and/or the PA Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at www.naturalheritage.state.pa.us.

Sincerely,



Tracey Librandi Mumma
 Division of Environmental Planning & Habitat Protection
 Bureau of Wildlife Habitat Management
 Phone: 717-787-4250, Extension 3614
 Fax: 717-787-6957
 E-mail: tlibrandi@pa.gov

A PNHP Partner



TLM/tlm

cc: Figured
Beahm
Wenner
Metz
Clouser
Morgan
Schnupp
Brauning
Turner
DiMatteo
Havens
Ms. Melinda Turner, U.S. Fish & Wildlife Service
Mr. David Mong, Pennsylvania Department of Natural Resources
Ms. Rebecca Bowen, Pennsylvania Department of Natural Resources
Ms. Heather Bollinger, Pennsylvania Department of Natural Resources

U.S. Fish and Wildlife Service

January 23, 2020

USFWS Reference
USFWS Project #2014-1013 (PAFO)
and 05E2NJ00-2014-F-0543 (NJFO)

AECOM Reference
60414094

Pamela Shellenberger
United States Fish & Wildlife Service
Pennsylvania Field Office
110 Radnor Road, Suite 101
State College, PA 16801

PennEast Pipeline Project - Newly proposed aboveground facility

Dear Ms. Shellenberger,

On behalf of PennEast Pipeline Company, LLC (PennEast), AECOM Technical Services, Inc. (AECOM) is providing your office with the enclosed figure and electronic shapefiles (sent via email) showing a newly proposed aboveground facility associated with the PennEast Pipeline Project (Project).

The proposed Church Road Interconnects will be a metering and regulation (M&R) station at the Project's mainline pipeline intersection with Columbia Gas Transmission, LLC (TCO) and Adelpia Gateway, LLC (Adelpia) in Bethlehem Township, Northampton County, Pennsylvania. PennEast proposes to construct the M&R station on property owned by PennEast at milepost (MP) 68.2R3 (refer to enclosed figure). A pig launcher/receiver will be installed along the Project's mainline pipeline in the northern portion of the site to provide access for internal pipeline inspections during Project operations. Station piping, meter runs, flow control valves, heaters, and gas control/remote terminal unit (RTU) buildings will be installed south of the PPL easement in the southwestern portion of the site.

The purpose of the Church Road Interconnects facility is to allow PennEast to construct the Project in two phases. The Phase 1 facilities would include all Project facilities from MP 0.0R1 (northern terminus) to MP 68.2R3 and the Church Road Interconnects; Phase 2 facilities would include all Project facilities from MP 68.2R3 to MP 114.01R3 and the Transco Receiver Site (southern terminus).

The parcels which may be affected are almost entirely within the previously surveyed corridors for the 2016 Certificated Route and the Revised PA Route, for which PennEast has already completed consultations for both with your office; however, small portions of the potential workspace for the newly proposed M&R Station extend beyond the previously surveyed area. These areas are within a residential property owned by PennEast, and do not contain any wetlands, watercourses, or other surface waters. There are several trees on the perimeter of the affected properties, which PennEast plans to leave in place as a screen to limit the visual impacts of the facility.

PennEast has previously consulted with the United States Fish and Wildlife Service (USFWS) regarding federally-listed species within the Project study corridor. Based on those consultations, and because no impacts to wetlands, streams, or forested areas are planned at this site, PennEast does not anticipate any adverse effects to federally listed species as a result of the new facility or the phasing of Project construction.

At this time, on behalf of PennEast, AECOM respectfully asks that the USFWS review the enclosed materials and provide any feedback relating to threatened or endangered species under the jurisdiction of the USFWS. AECOM also respectfully requests the USFWS' confirmation that the construction of the Church Road Interconnects would be compliant with the existing Biological Opinion for this Project, issued on November 28, 2017, and amended July 29, 2019. If you have any questions or require additional information, please feel free to contact me via email or telephone.

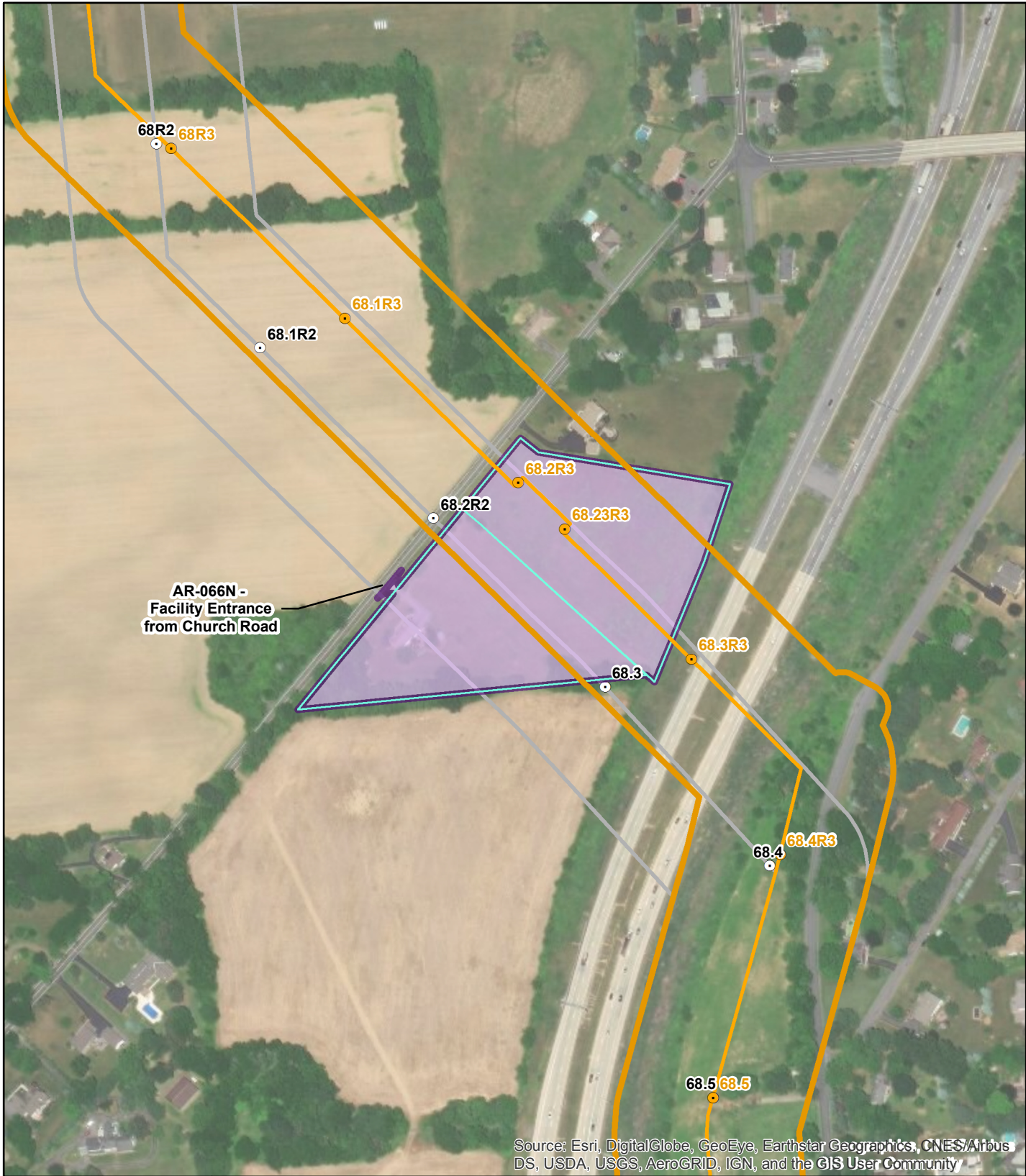
Kind regards,



Brian Cooper
Senior Environmental Scientist
AECOM
T: 610-832-3500
E: brian.cooper@aecom.com

enclosures: Figure (1)
Electronic Shapefile (provided via email)

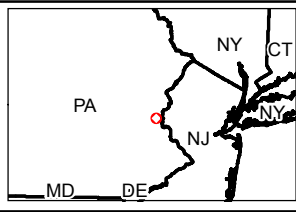
cc: Amber Holly (PennEast)
Casey Monagan (PennEast)
Sarah Binckley (AECOM)



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	Legend			
	<ul style="list-style-type: none"> Revised PA Route Milepost Revised PA Route Centerline 	<ul style="list-style-type: none"> Revised PA Route Study Corridor Certificated Route Milepost 	<ul style="list-style-type: none"> Certificated Route Centerline Certificated Route Study Corridor 	<ul style="list-style-type: none"> Parcels Owned by PennEast Consultation Area

TITLE: PennEast Pipeline Project T&E Consultation Figure			
LOC:		REV.:	
CKD. BY: BH	ENG.:	Date: 1/9/2020	W.O.:
DRN. BY: NB	SCALE: SEE GRAPHIC SCALE	DWG. NO.:	SHEET:



Cooper, Brian

From: Shellenberger, Pamela <pamela_shellenberger@fws.gov>
Sent: Thursday, March 05, 2020 3:55 PM
To: Cooper, Brian
Cc: Binckley, Sarah; Amber Holly; Casey Monagan
Subject: Re: PennEast Pipeline Project - New Facility Update

Brian,

Thank you for your letter dated January 23, 2020, which describes the addition of a new above-ground facility associated with the Penneast Pipeline. The proposed Church Road Interconnects will be a metering and regulation (M&R) station located in Bethlehem Township, Northampton County, PA. The area where the M&R station is proposed is within the area considered part of the action area in the amended July 29, 2019 Biological Opinion (Opinion). Additionally, there are no wetlands or watercourses in the area, and no trees are proposed to be removed. Therefore, the Service has determined that the project will not result in affects above what was analyzed in the July 2019, Opinion.

Please let me know if you have any questions.
Thank you,

Pamela Shellenberger

U.S. Fish and Wildlife Service
Pennsylvania Field Office
110 Radnor Road, Suite 101
State College, PA 16801
814-234-4090 x7459
<http://www.fws.gov/northeast/pafo/>

Working with others to conserve, protect, and enhance fish, wildlife, plants, and their habitats for the continuing benefit of the American people.

From: Cooper, Brian <Brian.Cooper@aecom.com>
Sent: Thursday, January 23, 2020 4:13 PM
To: Shellenberger, Pamela <pamela_shellenberger@fws.gov>
Cc: Binckley, Sarah <sarah.binckley@aecom.com>; Amber Holly <aholly@ugies.com>; Casey Monagan <cmonagan@ugies.com>
Subject: [EXTERNAL] PennEast Pipeline Project - New Facility Update

Hi Pam,

Please find attached a letter (with figure) and electronic shapefile (.shp and .kmz format provided) which addresses the newly proposed Church Road Interconnects facility. If you have any questions about this facility or the PennEast Pipeline Project, please feel free to contact me at your convenience.

Thanks,

Brian Cooper

Senior Environmental Scientist
Impact Assessment & Permitting

D +1-610-832-2457

M +1-717-304-0578

brian.cooper@aecom.com

AECOM

625 West Ridge Pike

Suite E-100

Conshohocken, PA 19428, United States of America

T +1-610-832-3500

aecom.com

Built to deliver a better world