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TO **MR. JOHN TAUCHER**  
**PA GAME COMMISSION**  
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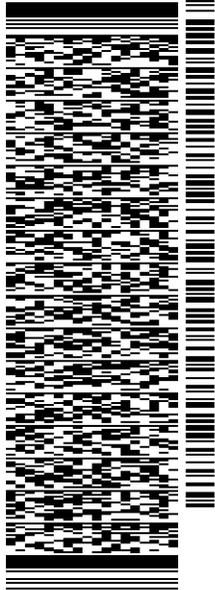
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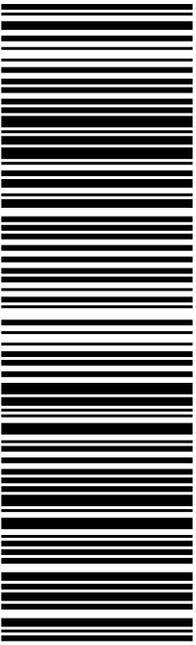
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AECOM  
Foster Plaza 6  
681 Andersen Drive  
Pittsburgh, Pennsylvania 15220  
www.aecom.com

412 503 4700 tel  
412 503 4701 fax

February 27, 2017

Mr. John Taucher  
Pennsylvania Game Commission  
Bureau of Wildlife Habitat Management  
Division of Environmental Planning and Habitat Protection  
2001 Elmerton Avenue  
Harrisburg, PA 17110-9797

**Re: Large Project PNDI, PGC ID Number: 201508270201  
Shell Pipeline Company, LP – Falcon Ethane Pipeline Project  
Greene, Shippingport, Independence, Raccoon, Center, and Potter Townships, Beaver  
County, Chartiers and Mount Pleasant Townships, Washington County, and Robinson,  
North Fayette, and Findlay Townships, Allegheny County, Pennsylvania**

Dear Mr. Taucher:

AECOM requested a Large Project Pennsylvania Natural Diversity Inventory (PNDI) review on August 25, 2015 for the Falcon Ethane Pipeline Project (Falcon) and requested an additional review on May 10, 2016. Since then, Shell has finalized the Falcon route. Based on the finalized route AECOM placed a 0.25-mile buffer centered on the proposed centerline — as was done in the initial correspondence — and mapped it along with the previously submitted buffer (Figures 2 and 3). The new, finalized route buffer goes outside of the buffer previously submitted to your office in approximately 15 locations.

AECOM and Shell request that PGC review these new areas for any rare, threatened, or endangered species under PGC jurisdiction. Please note that one of the reroutes added is located within the northern harrier/short-eared owl survey area. Given the number of northern harriers observed during the 2016 field survey, AECOM and Shell have elected to not conduct additional surveys on this area and to adhere to the breeding season construction restriction that PGC outlined in the December 30, 2016 response letter.

In the December 30, 2016 response letter, PGC recommended a seed mix to be planted within the northern harrier habitat areas. Shell intends to use a native seed mix when replanting the area, and is considering the use of the recommended seed mix. However, it should be noted that the PA Department of Conservation and Natural Resources (DCNR) lists side-oats grama (*Bouteloua curtipendula*) as Pennsylvania Threatened and sea-oats (*Chasmanthium latifolium*) as Pennsylvania Proposed Endangered. Shell will most likely not use these two species due to potential future issues with these species under DCNR jurisdiction.

At the request of U.S. Fish and Wildlife Service Pennsylvania Field Office, AECOM conducted a bat mist net survey within the project area during the 2016 survey season. No Indiana bats were captured as a result of the survey; however, 17 northern long-eared bats and two silver-haired bats were captured. Eleven of the northern long-eared bats were fitted with tracking devices and the females were tracked to their respective roost trees. None of the roost trees were located within 150 feet of the project and the project is not located within 0.25 mile of a known northern long-eared hibernaculum; therefore, the USFWS granted clearance without seasonal tree-clearing restrictions in correspondence dated January 13, 2017.



Shell and AECOM look forward to receiving your response. Please contact Natalie Shearer at 412-503-4595 or natalie.shearer@aecom.com if additional information is desired.

Sincerely,

**AECOM**

A handwritten signature in blue ink that reads "Natalie L. Shearer". The signature is fluid and cursive.

Natalie L. Shearer, M.S., QEP  
Natural Resources Lead–Pittsburgh

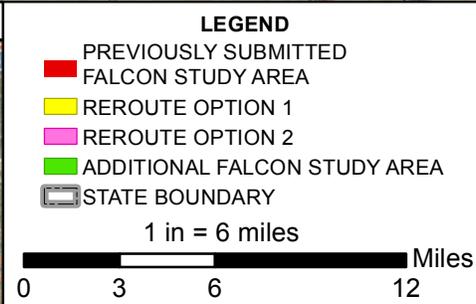
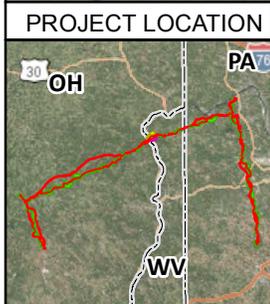
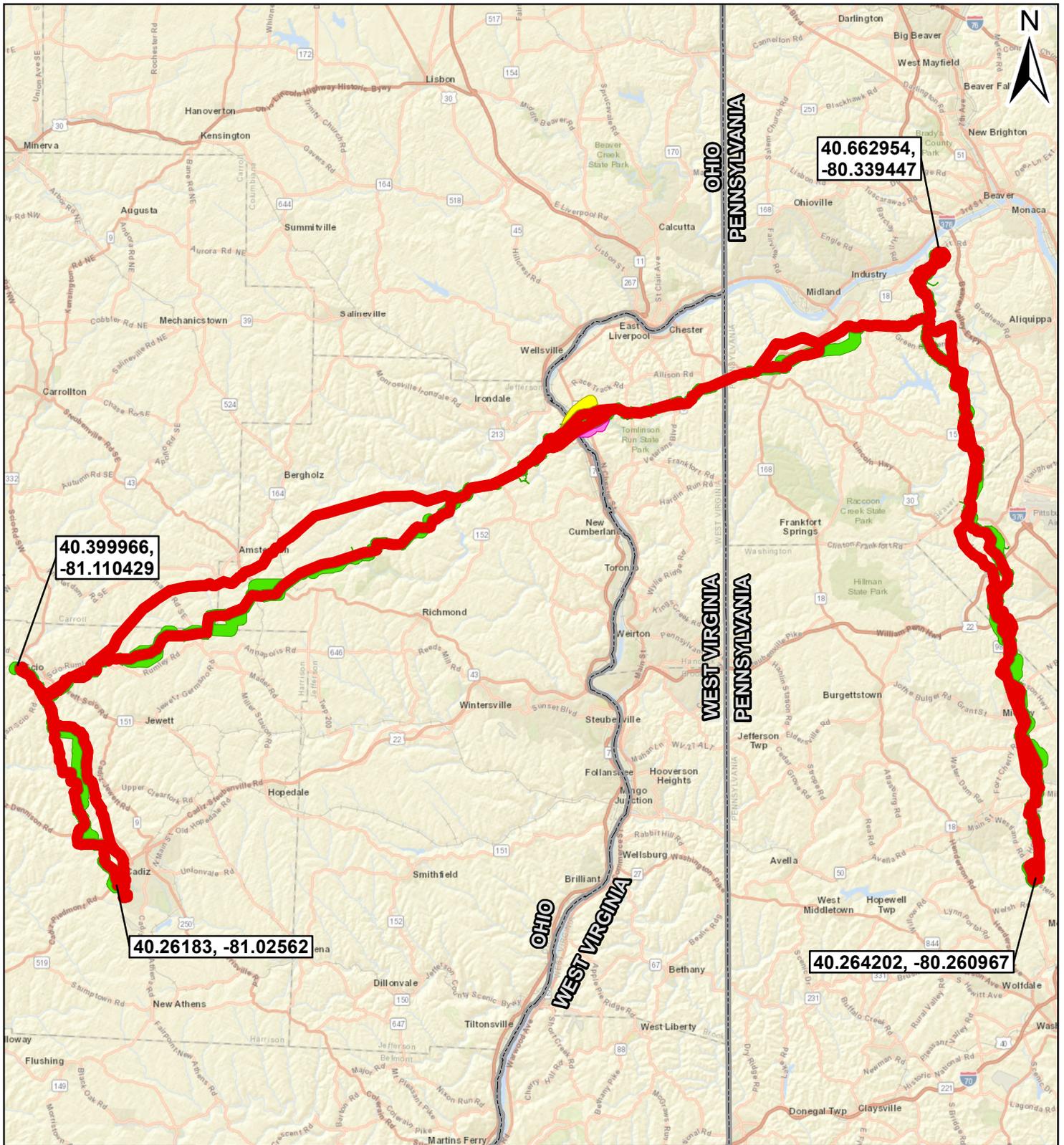
A handwritten signature in blue ink that reads "Brandon M. Walker". The signature is fluid and cursive.

Brandon M. Walker, PE, CPESC  
Project Manager

Enclosures (4)

- Figure 1: Overview Map
- Figure 2: Pennsylvania Topographic Map
- Figure 3: Pennsylvania Aerial Map
- CD containing project shapefiles

cc: Kyle L. Webster, Shell Pipeline Company, LP




SHELL PIPELINE COMPANY, LP  
910 LOUISIANA STREET,  
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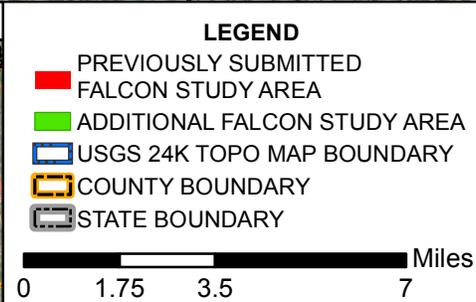
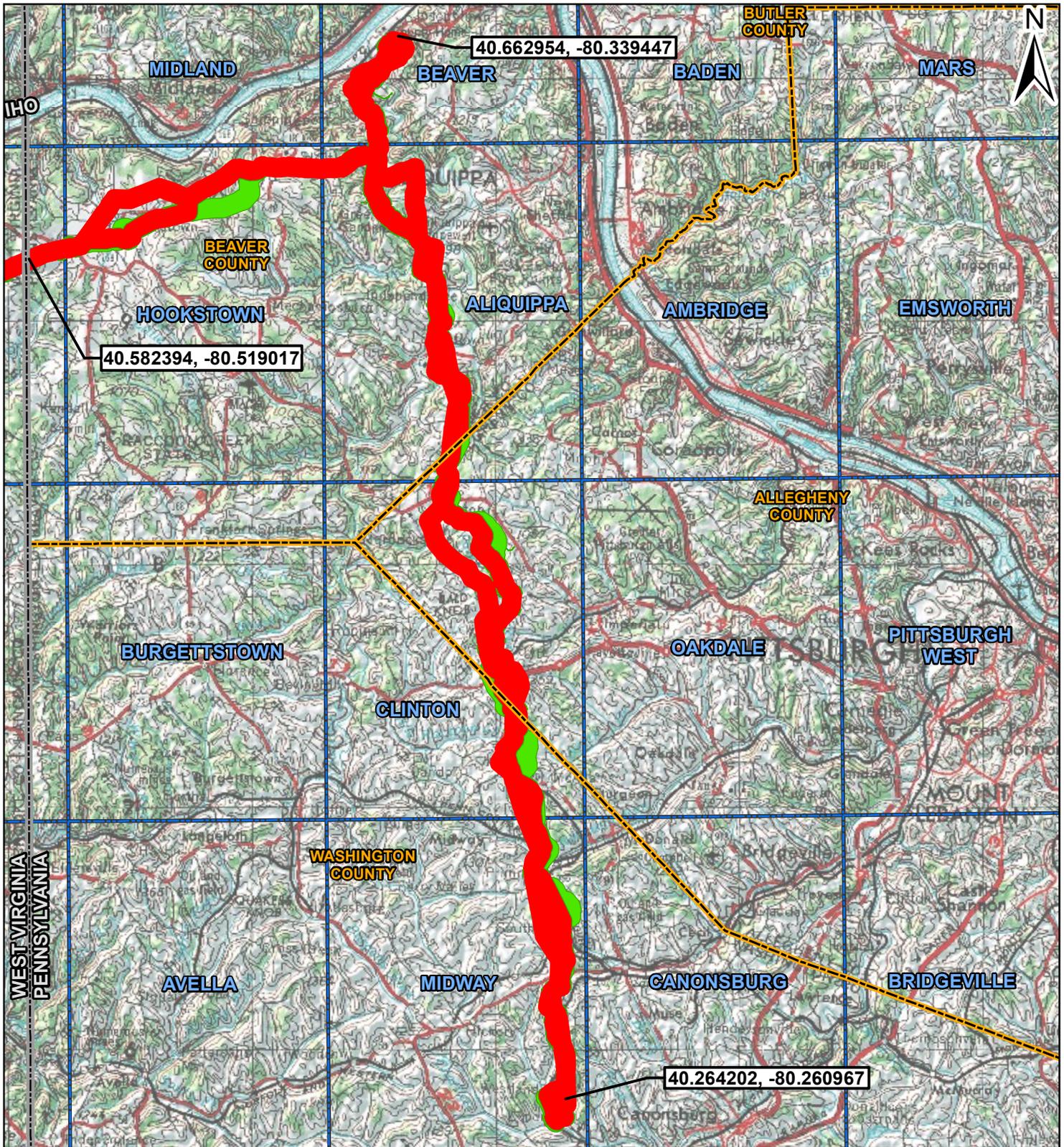
**FIGURE 1**

**OVERVIEW MAP**

**SHELL PIPELINE COMPANY, LP  
FALCON ETHANE  
PIPELINE PROJECT**

REFERENCE TOPOGRAPHIC LAYER - SOURCES: ESRI HERE, DELORME, USGS, INTERMAP, INCREMENT P CORP., NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI (THAILAND), MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY  
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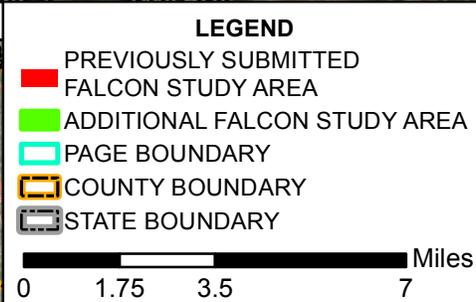
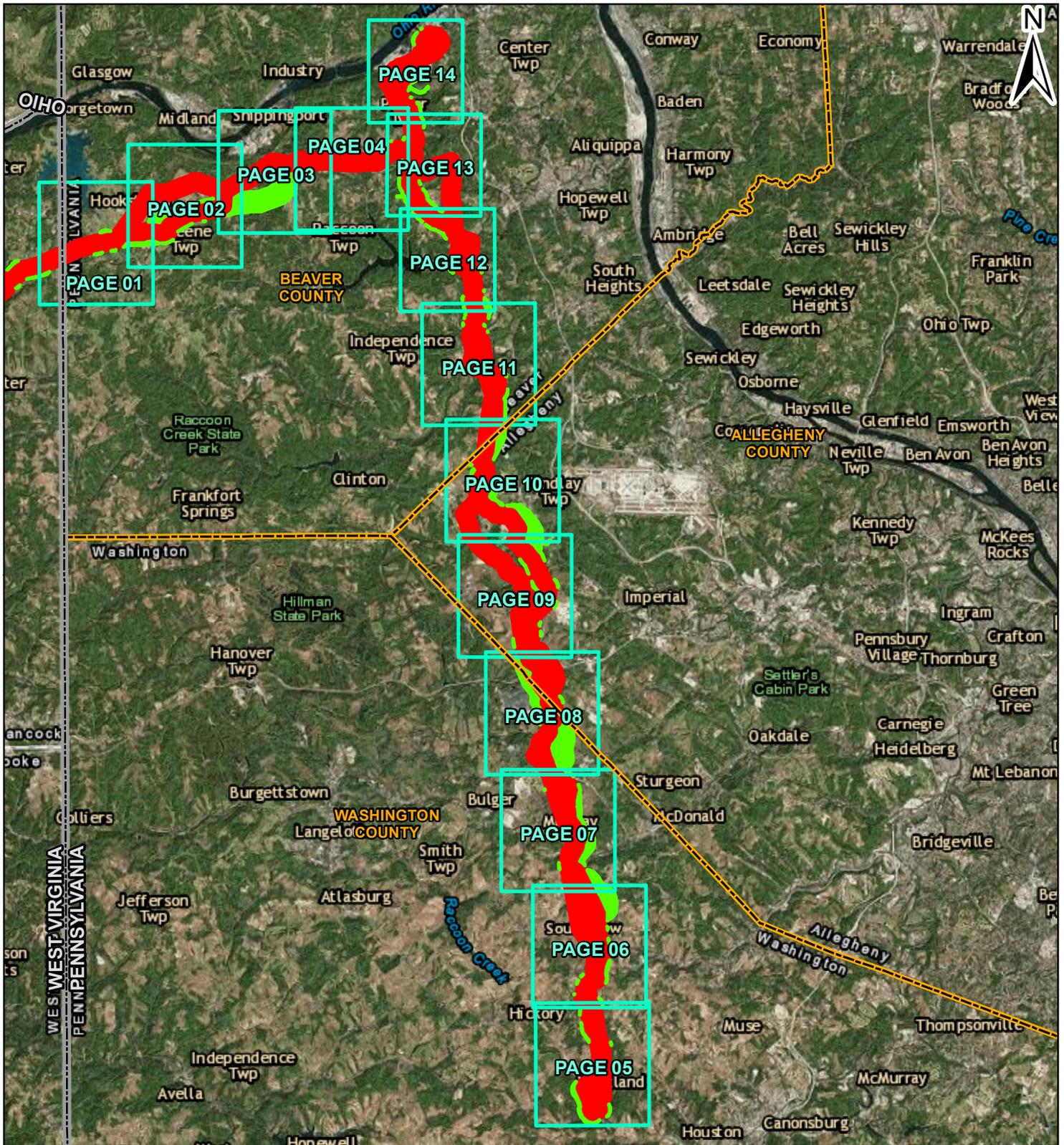
**FIGURE 2**

**PENNSYLVANIA TOPOGRAPHIC MAP**  
BEAVER, ALLEGHENY, AND WASHINGTON COUNTIES

**SHELL PIPELINE COMPANY, LP  
FALCON ETHANE PIPELINE PROJECT**

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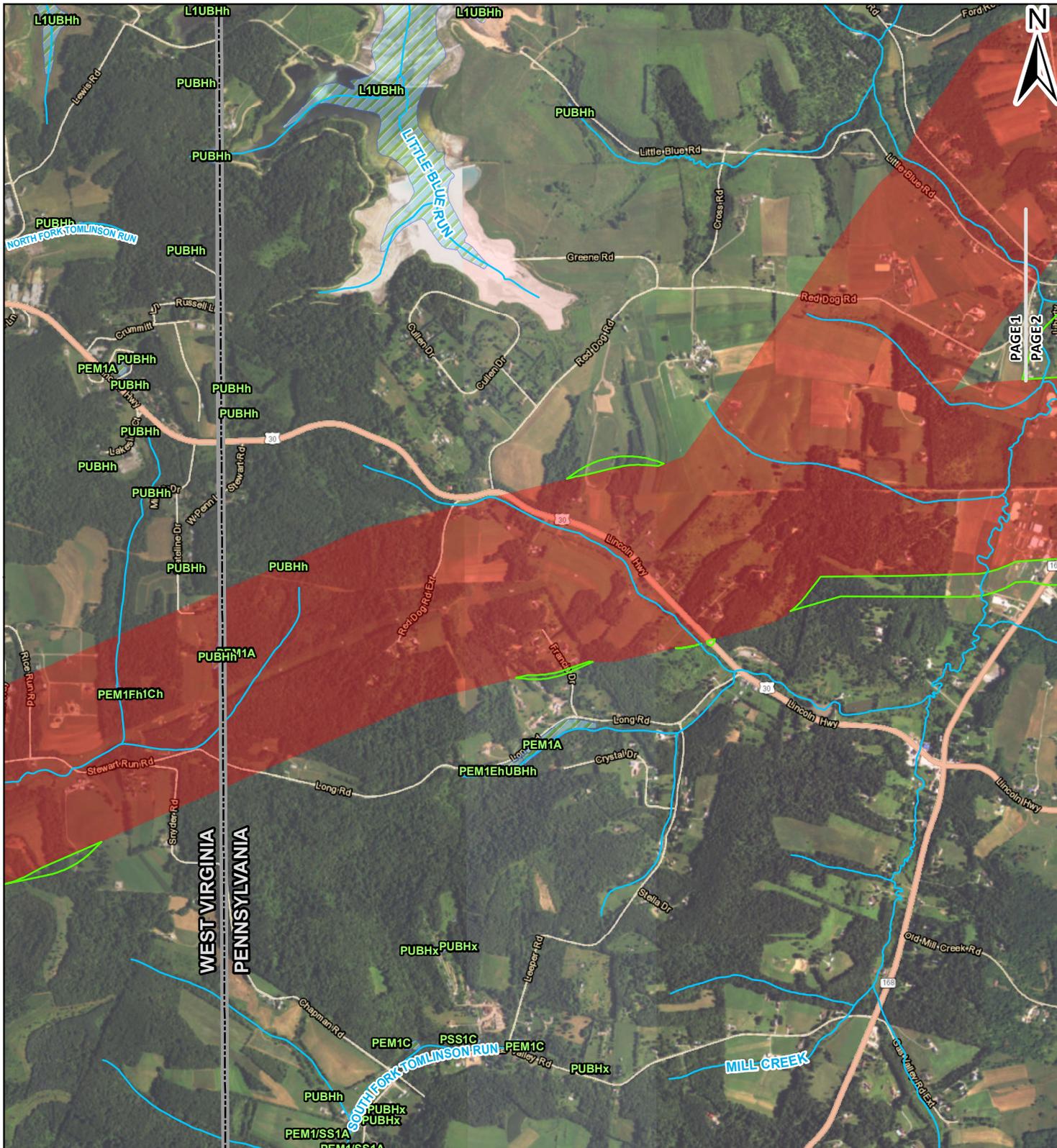
**FIGURE 3**

**PENNSYLVANIA  
AERIAL INDEX MAP**  
BEAVER, ALLEGHENY, AND  
WASHINGTON COUNTIES

**SHELL PIPELINE COMPANY, LP  
FALCON ETHANE  
PIPELINE PROJECT**

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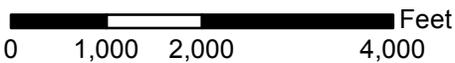
PAGE 1  
PAGE 2

**PROJECT LOCATION**



**LEGEND**

- NHD FLOWLINE
- ADDITIONAL FALCON STUDY AREA
- PREVIOUSLY SUBMITTED FALCON STUDY AREA
- NWI WETLAND
- COUNTY BOUNDARY
- STATE BOUNDARY



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910 LOUISIANA STREET,  
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FOSTER PLAZA 6  
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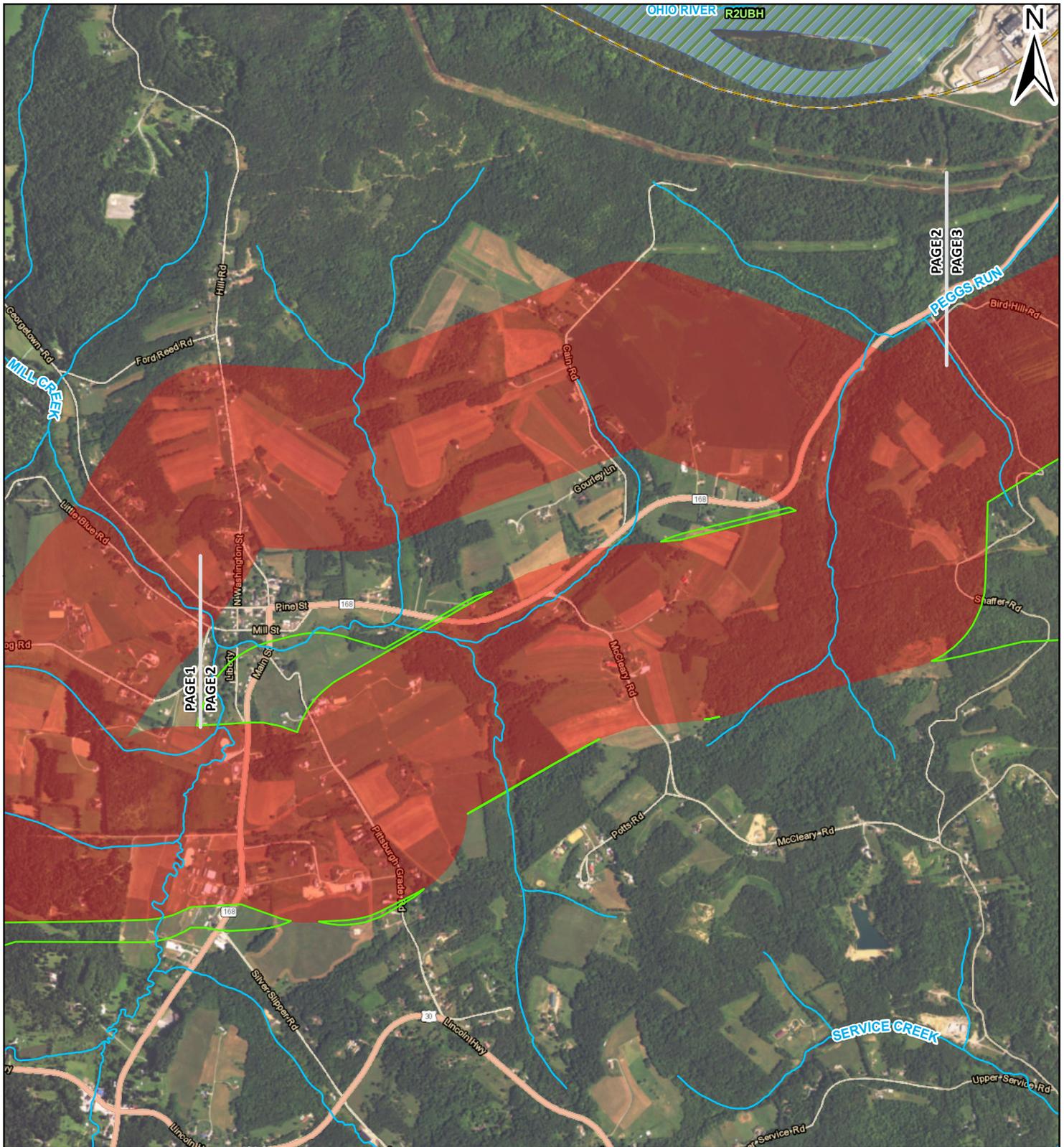
**FIGURE 3**

**PENNSYLVANIA  
AERIAL MAP  
ALLEGHENY, BEAVER AND  
WASHINGTON COUNTIES  
PAGE 1 OF 14**

**SHELL PIPELINE COMPANY, LP  
FALCON ETHANE  
PIPELINE PROJECT**

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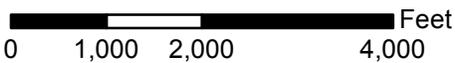


**PROJECT LOCATION**



**LEGEND**

- NHD FLOWLINE
- ADDITIONAL FALCON STUDY AREA
- PREVIOUSLY SUBMITTED FALCON STUDY AREA
- NWI WETLAND
- COUNTY BOUNDARY
- STATE BOUNDARY



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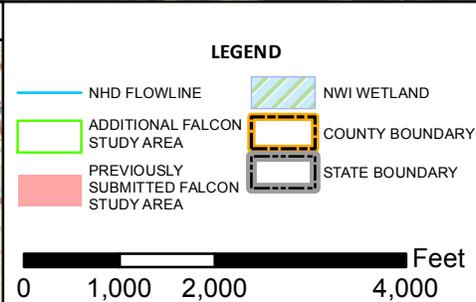
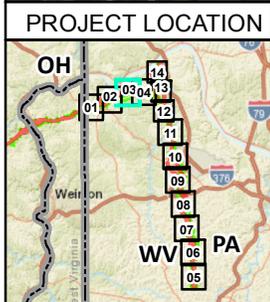
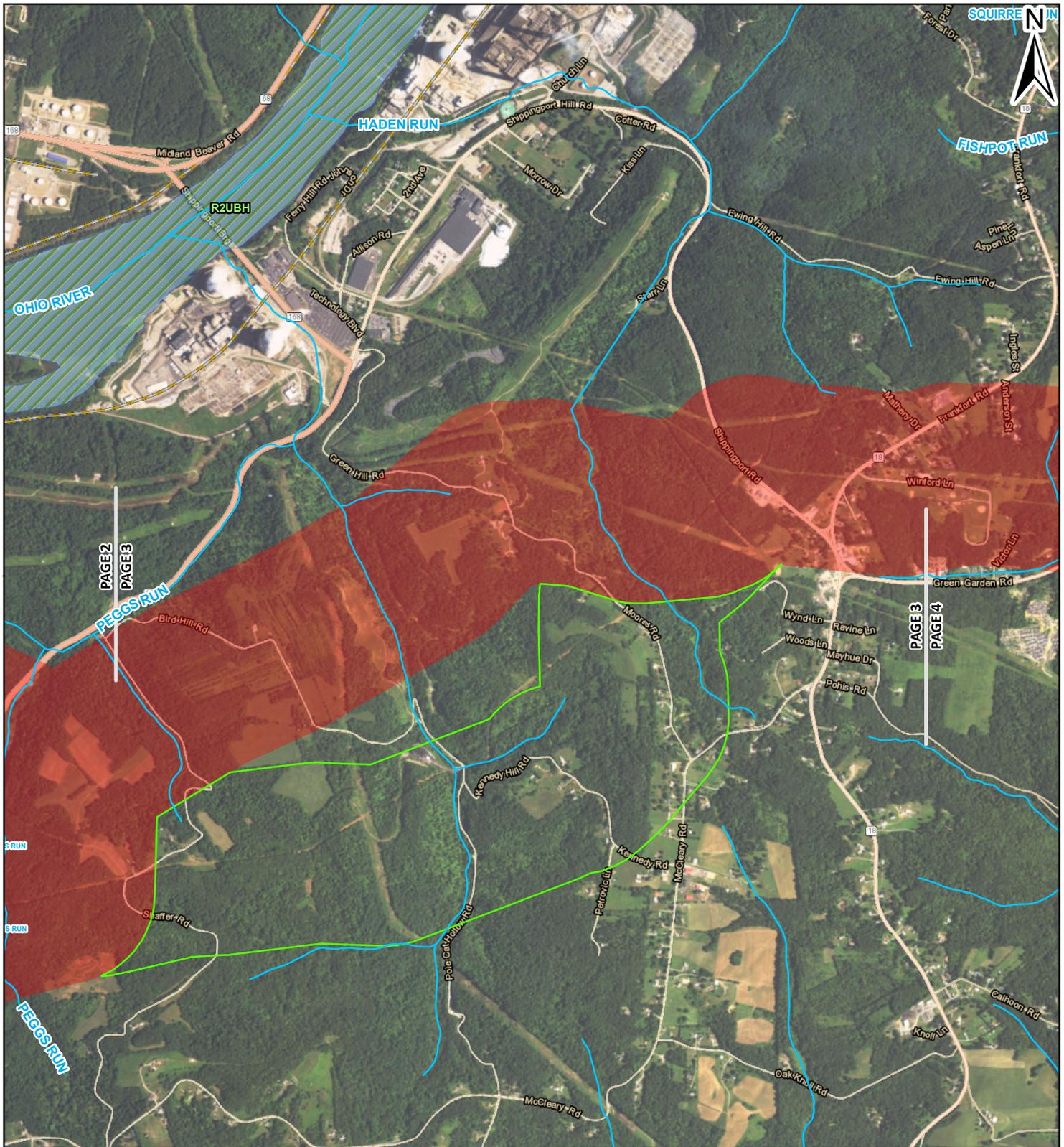
**FIGURE 3**

**PENNSYLVANIA  
 AERIAL MAP  
 ALLEGHENY, BEAVER AND  
 WASHINGTON COUNTIES  
 PAGE 2 OF 14**

**SHELL PIPELINE COMPANY, LP  
 FALCON ETHANE  
 PIPELINE PROJECT**

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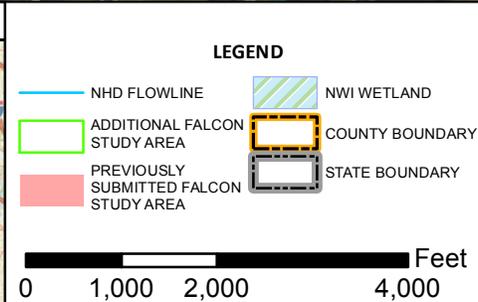
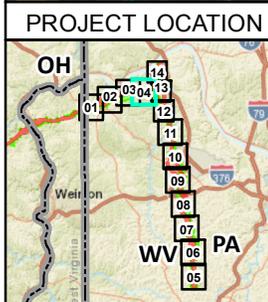
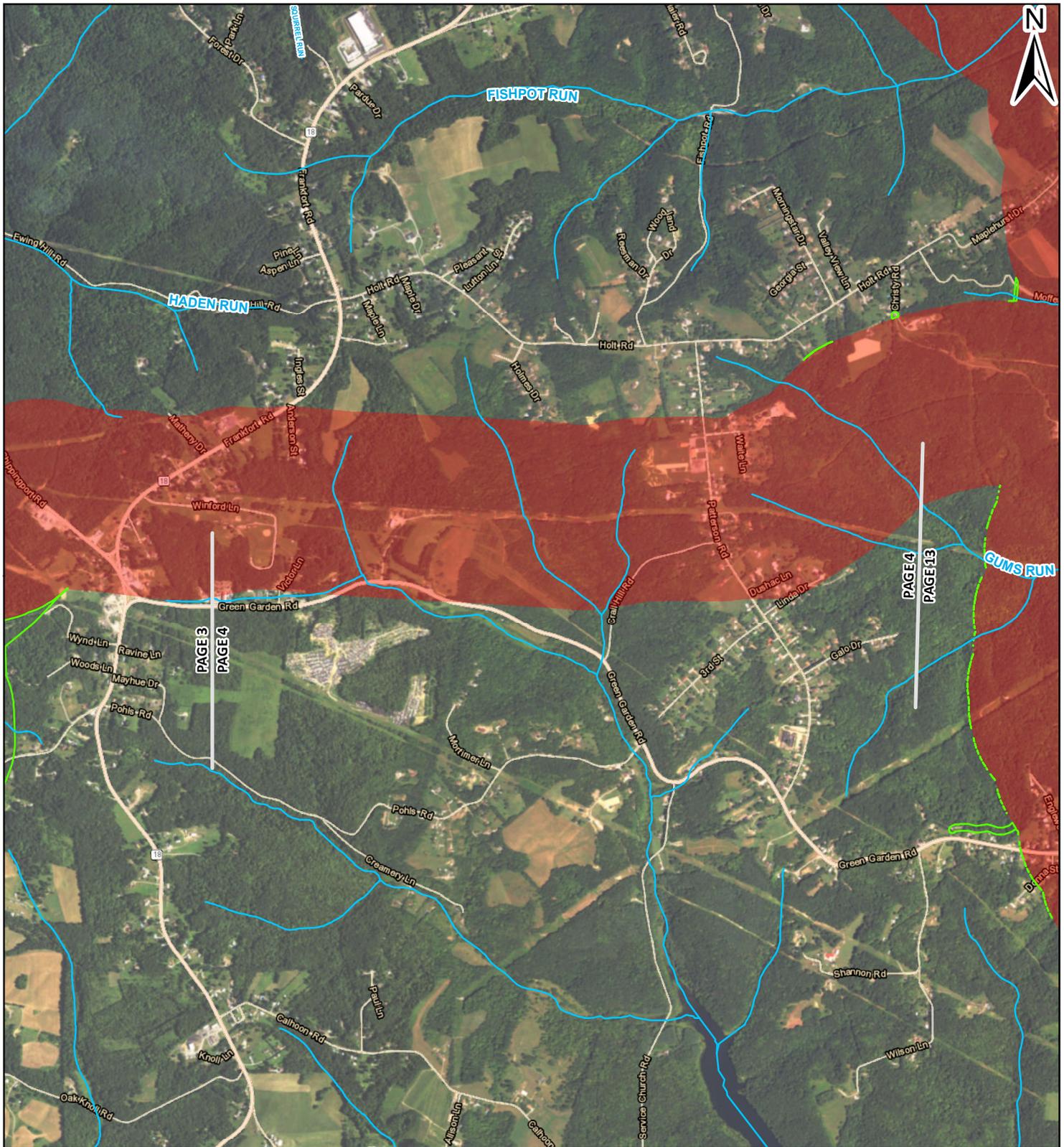
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**FIGURE 3**

**PENNSYLVANIA  
AERIAL MAP  
ALLEGHENY, BEAVER AND  
WASHINGTON COUNTIES  
PAGE 3 OF 14**

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FALCON ETHANE  
PIPELINE PROJECT**




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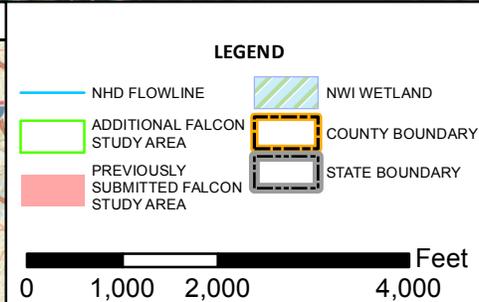
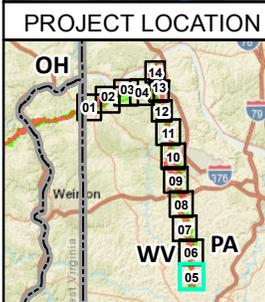
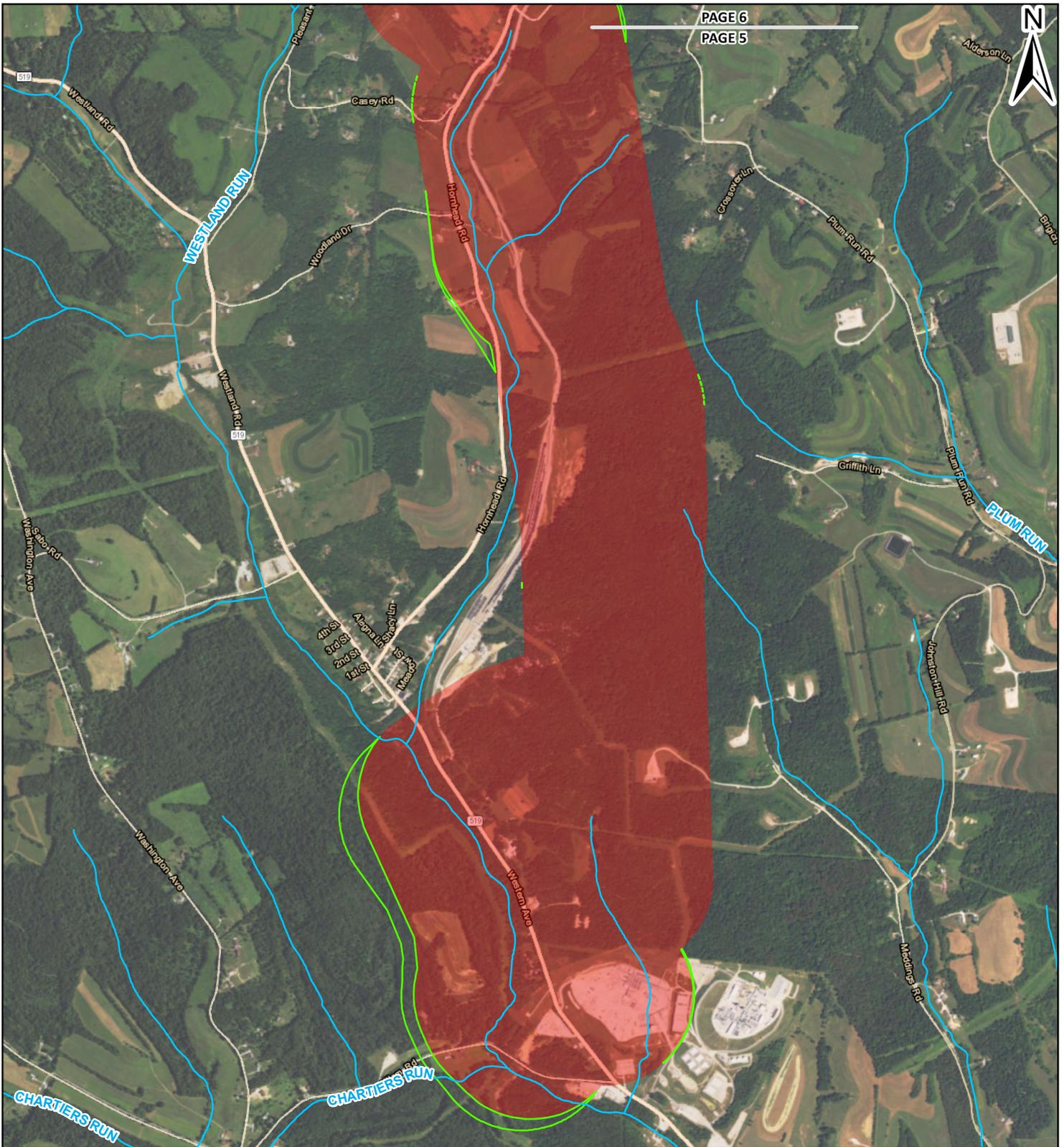
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**FIGURE 3**

**PENNSYLVANIA  
AERIAL MAP  
ALLEGHENY, BEAVER AND  
WASHINGTON COUNTIES  
PAGE 4 OF 14**

**SHELL PIPELINE COMPANY, LP  
FALCON ETHANE  
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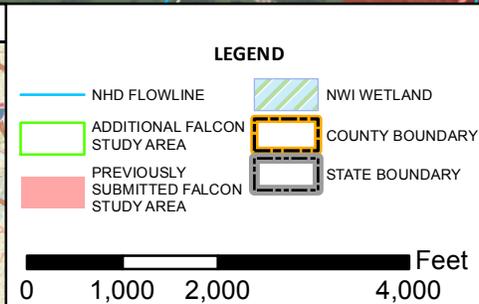
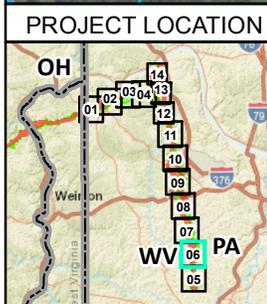
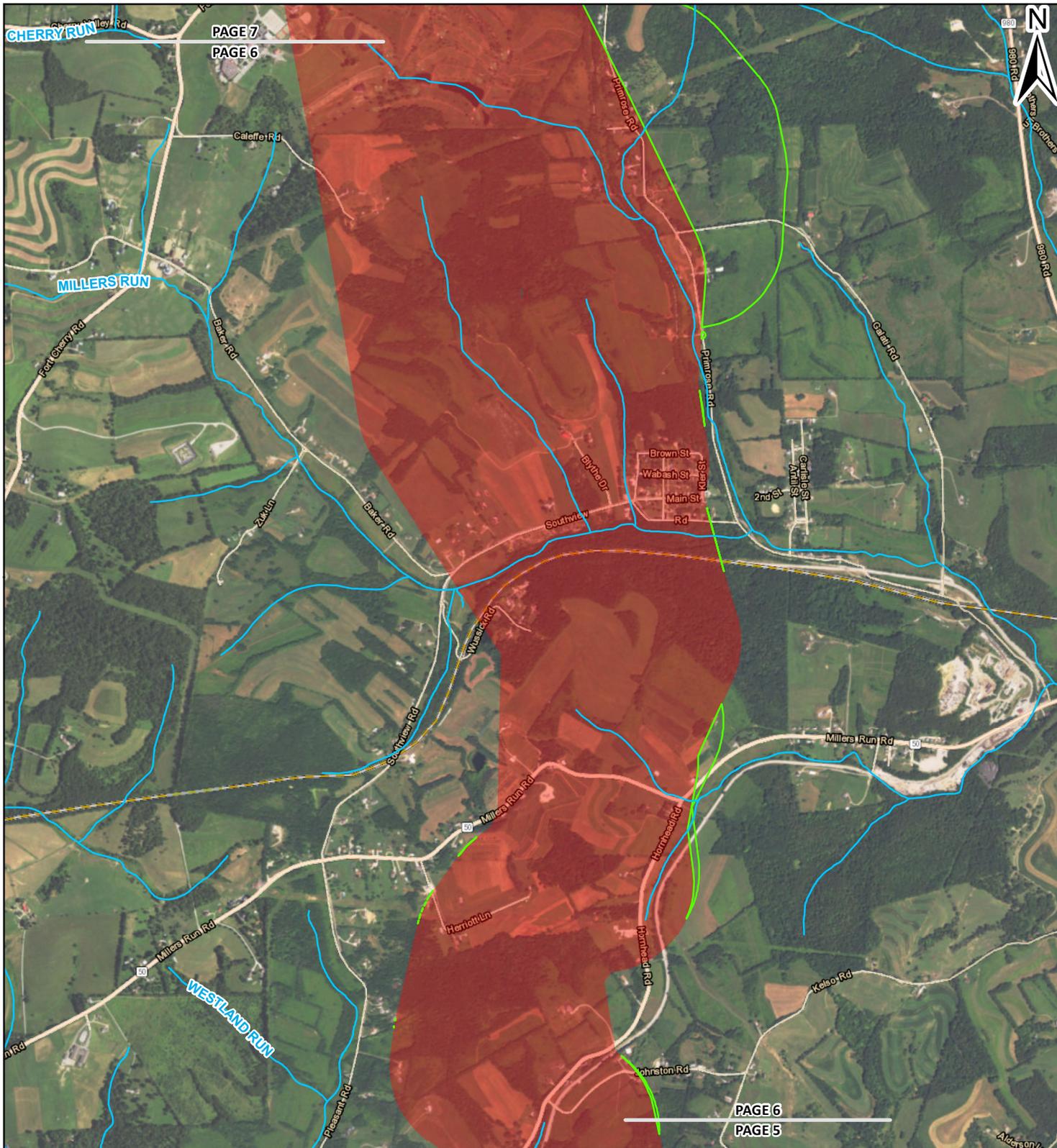
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**FIGURE 3**

**PENNSYLVANIA  
AERIAL MAP  
ALLEGHENY, BEAVER AND  
WASHINGTON COUNTIES  
PAGE 5 OF 14**

**SHELL PIPELINE COMPANY, LP  
FALCON ETHANE  
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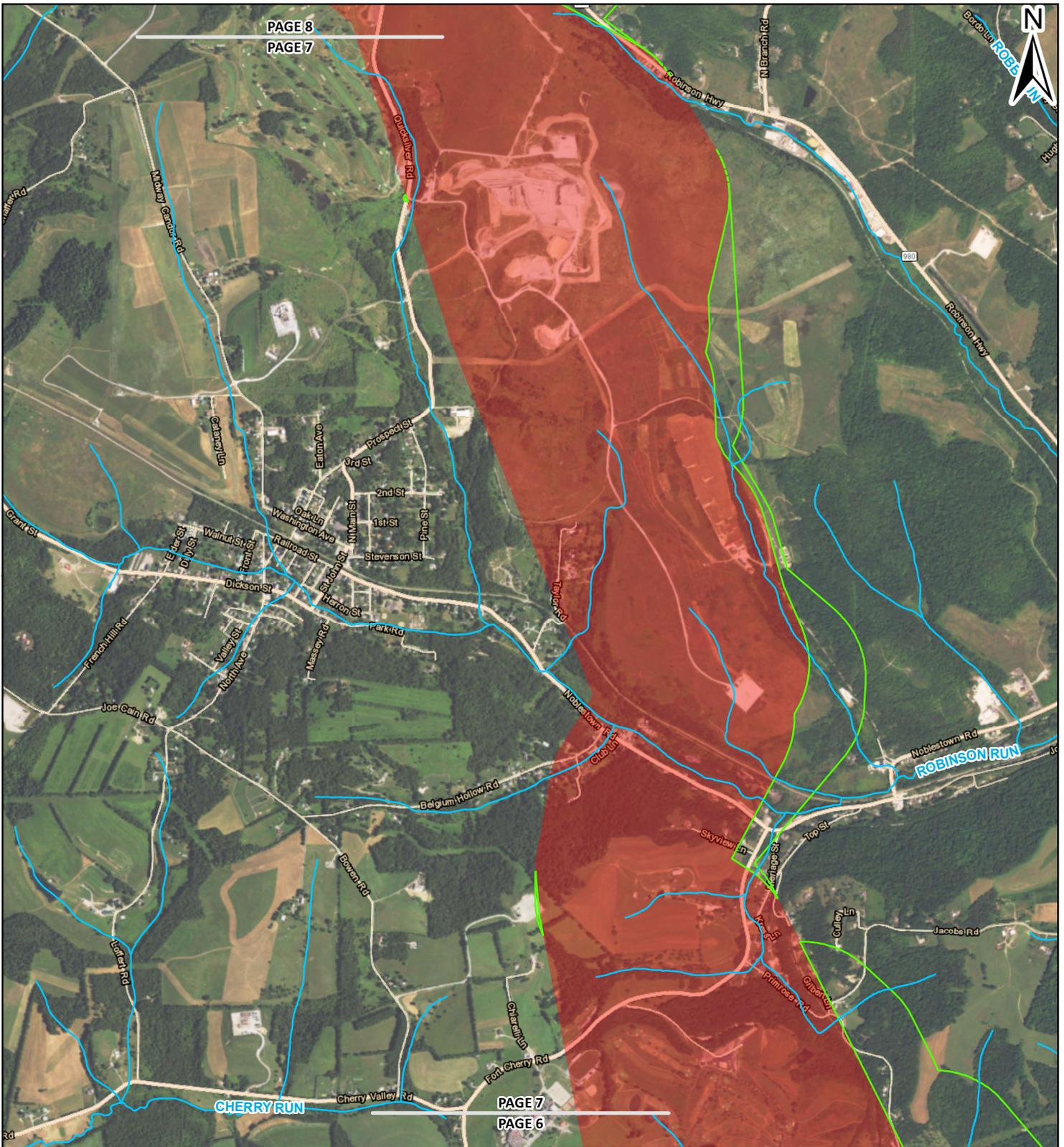
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**FIGURE 3**

**PENNSYLVANIA  
 AERIAL MAP  
 ALLEGHENY, BEAVER AND  
 WASHINGTON COUNTIES  
 PAGE 6 OF 14**

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 FALCON ETHANE  
 PIPELINE PROJECT**

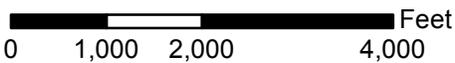


**PROJECT LOCATION**



**LEGEND**

- NHD FLOWLINE
- ADDITIONAL FALCON STUDY AREA
- PREVIOUSLY SUBMITTED FALCON STUDY AREA
- NWI WETLAND
- COUNTY BOUNDARY
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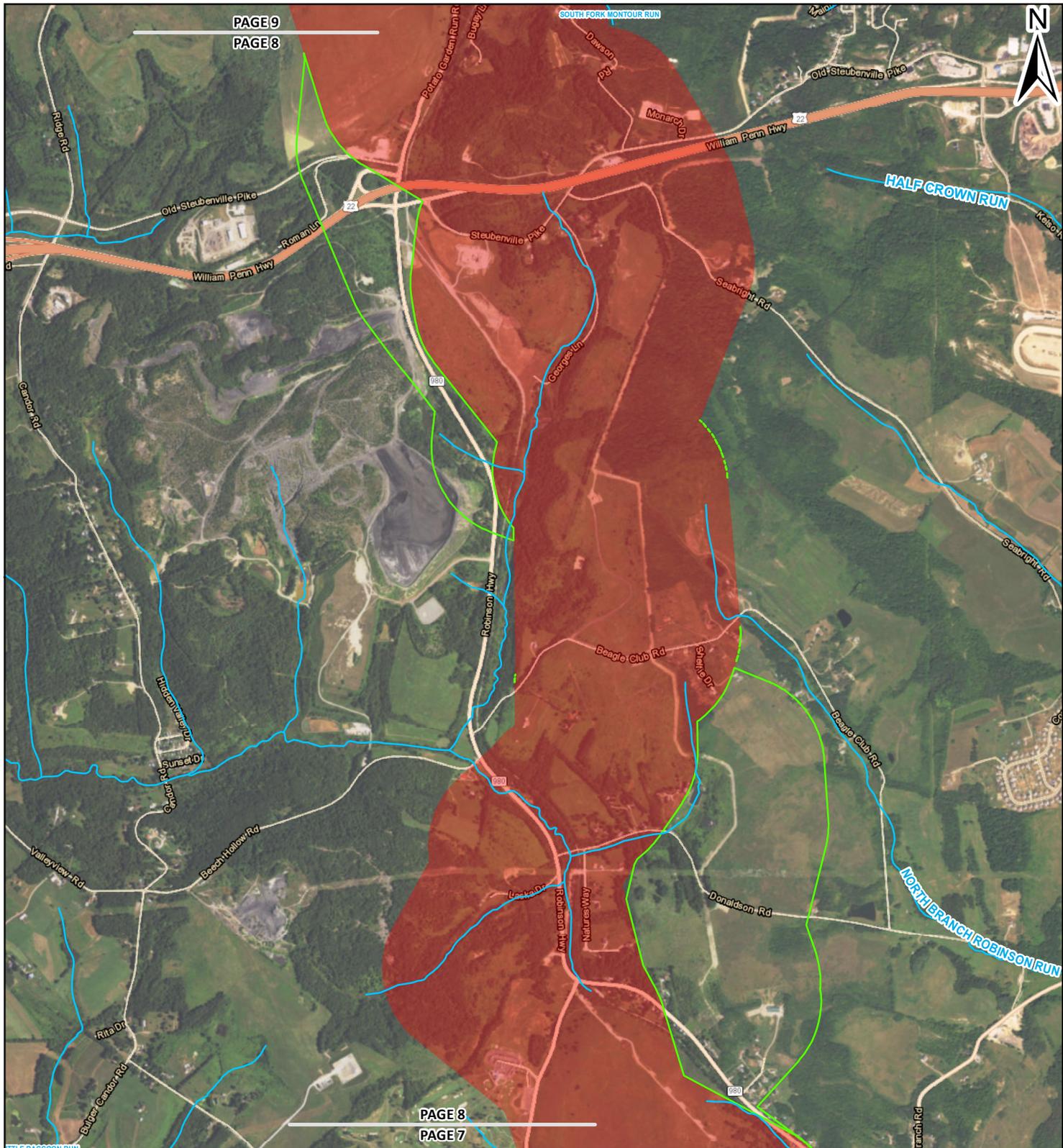
**FIGURE 3**

**PENNSYLVANIA  
AERIAL MAP  
ALLEGHENY, BEAVER AND  
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PAGE 7 OF 14**

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FALCON ETHANE  
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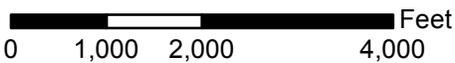


**PROJECT LOCATION**



**LEGEND**

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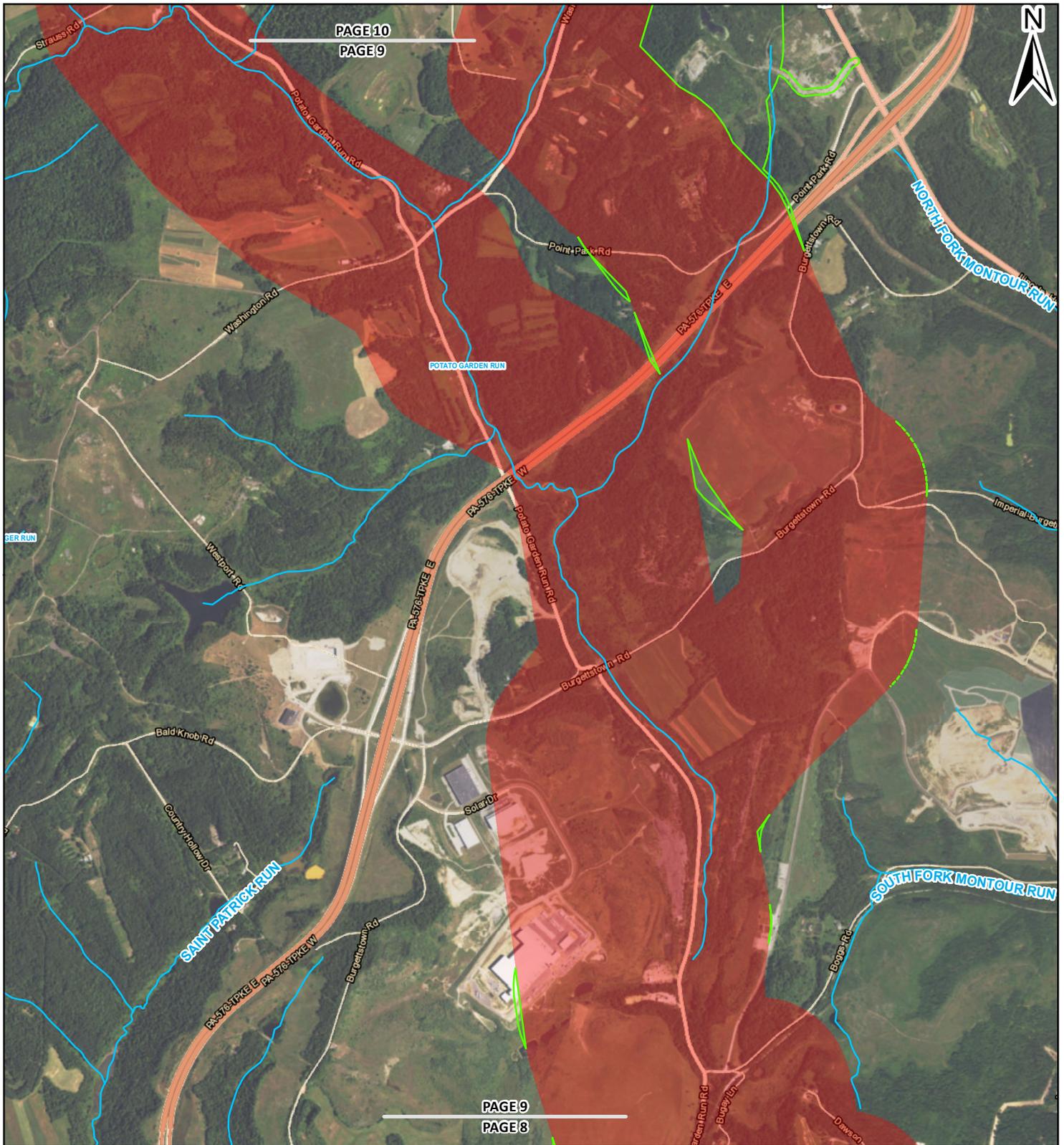
**FIGURE 3**

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ALLEGHENY, BEAVER AND  
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PAGE 8 OF 14**

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FALCON ETHANE  
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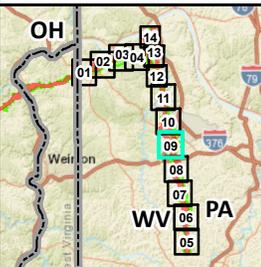
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PAGE 9

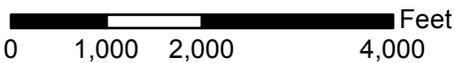
PAGE 9  
PAGE 8

**PROJECT LOCATION**



**LEGEND**

- NHD FLOWLINE
- ADDITIONAL FALCON STUDY AREA
- PREVIOUSLY SUBMITTED FALCON STUDY AREA
- NWI WETLAND
- COUNTY BOUNDARY
- STATE BOUNDARY



SHELL PIPELINE COMPANY, LP  
910 LOUISIANA STREET,  
ROOM 41082A  
HOUSTON, TEXAS 77002



FOSTER PLAZA 6  
681 ANDERSEN DRIVE  
4TH FLOOR  
PITTSBURGH, PA 15220  
412-503-4700

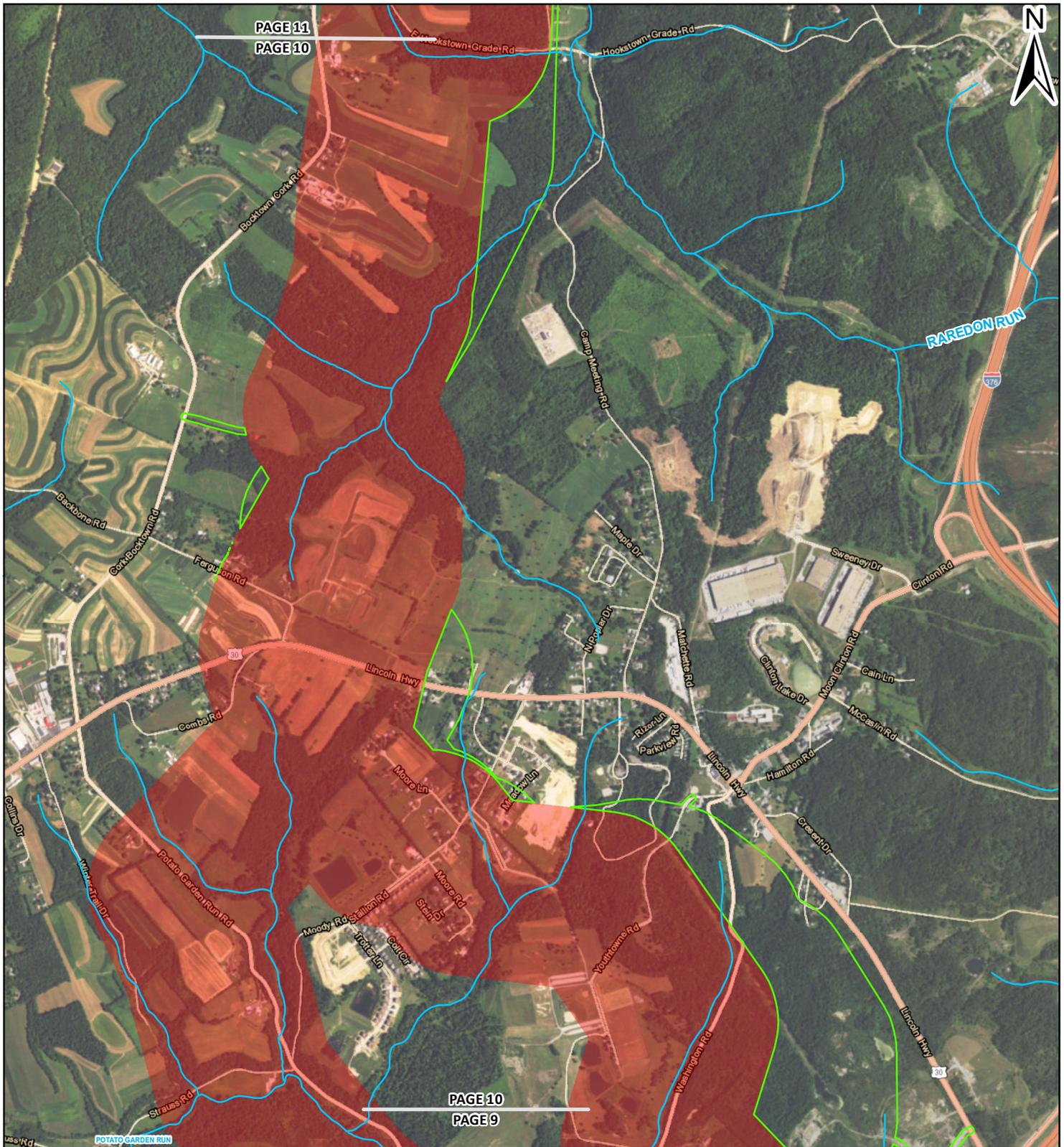
**FIGURE 3**

**PENNSYLVANIA  
AERIAL MAP  
ALLEGHENY, BEAVER AND  
WASHINGTON COUNTIES  
PAGE 9 OF 14**

**SHELL PIPELINE COMPANY, LP  
FALCON ETHANE  
PIPELINE PROJECT**

DRAWN BY: KFS      DATE: 2/23/2017  
APPROVED: BMW      PROJECT #: 60487539

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PROJECTION: TRANSVERSE MERCATOR, TRANSVERSE MERCATOR



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PAGE 10

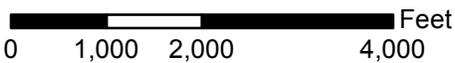
PAGE 10  
PAGE 9

**PROJECT LOCATION**



**LEGEND**

- NHD FLOWLINE
- ADDITIONAL FALCON STUDY AREA
- PREVIOUSLY SUBMITTED FALCON STUDY AREA
- NWI WETLAND
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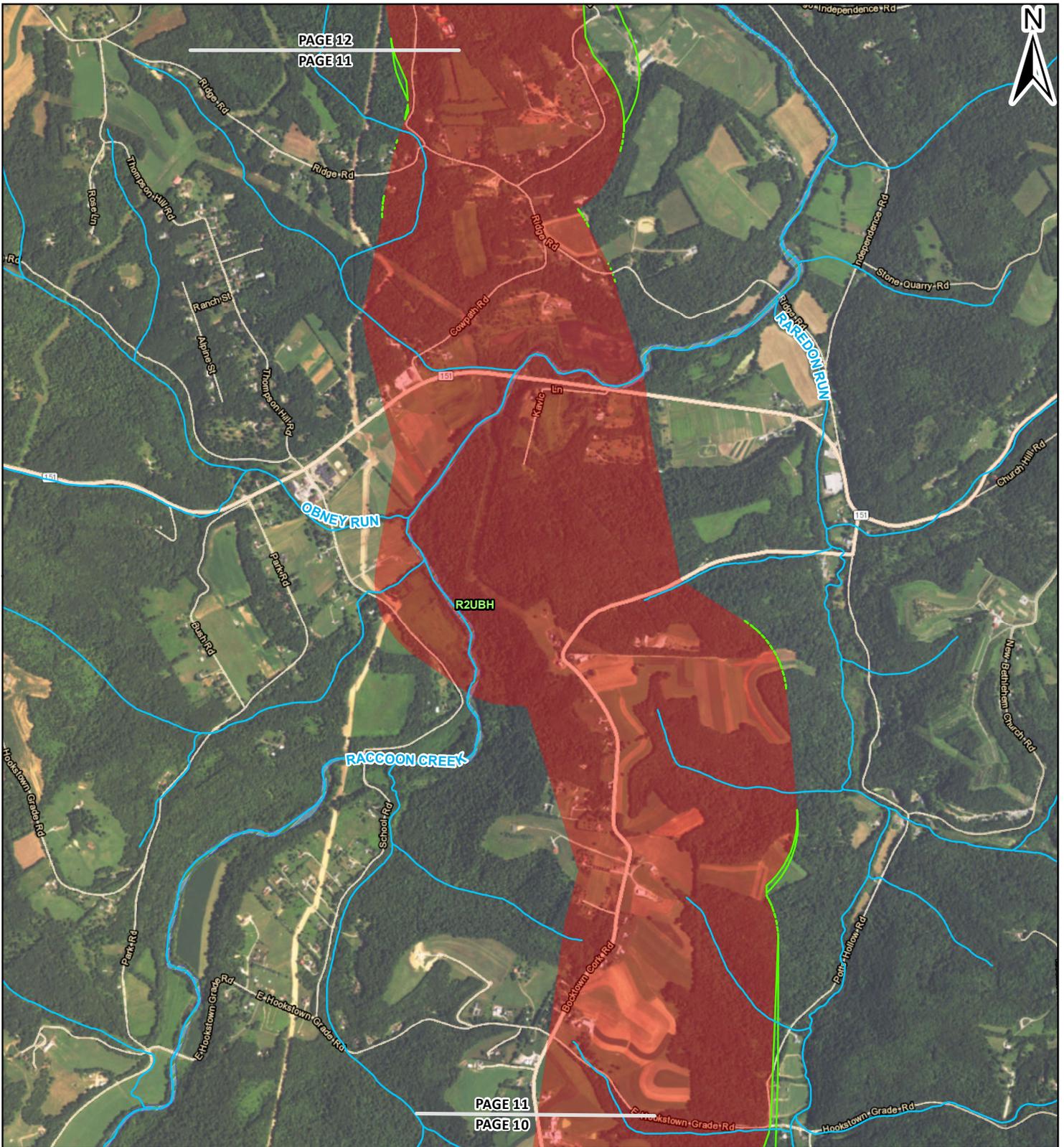
**FIGURE 3**

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ALLEGHENY, BEAVER AND  
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PAGE 10 OF 14**

**SHELL PIPELINE COMPANY, LP  
FALCON ETHANE  
PIPELINE PROJECT**

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PROJECTION: TRANSVERSE MERCATOR, TRANSVERSE MERCATOR

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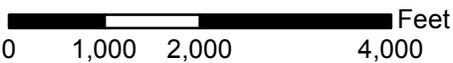


PROJECT LOCATION



LEGEND

-  NHD FLOWLINE
-  ADDITIONAL FALCON STUDY AREA
-  PREVIOUSLY SUBMITTED FALCON STUDY AREA
-  NWI WETLAND
-  COUNTY BOUNDARY
-  STATE BOUNDARY



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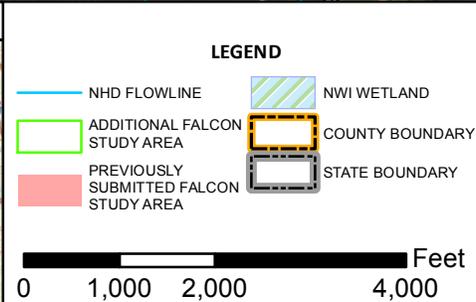
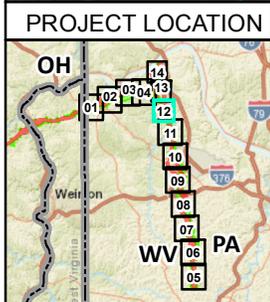
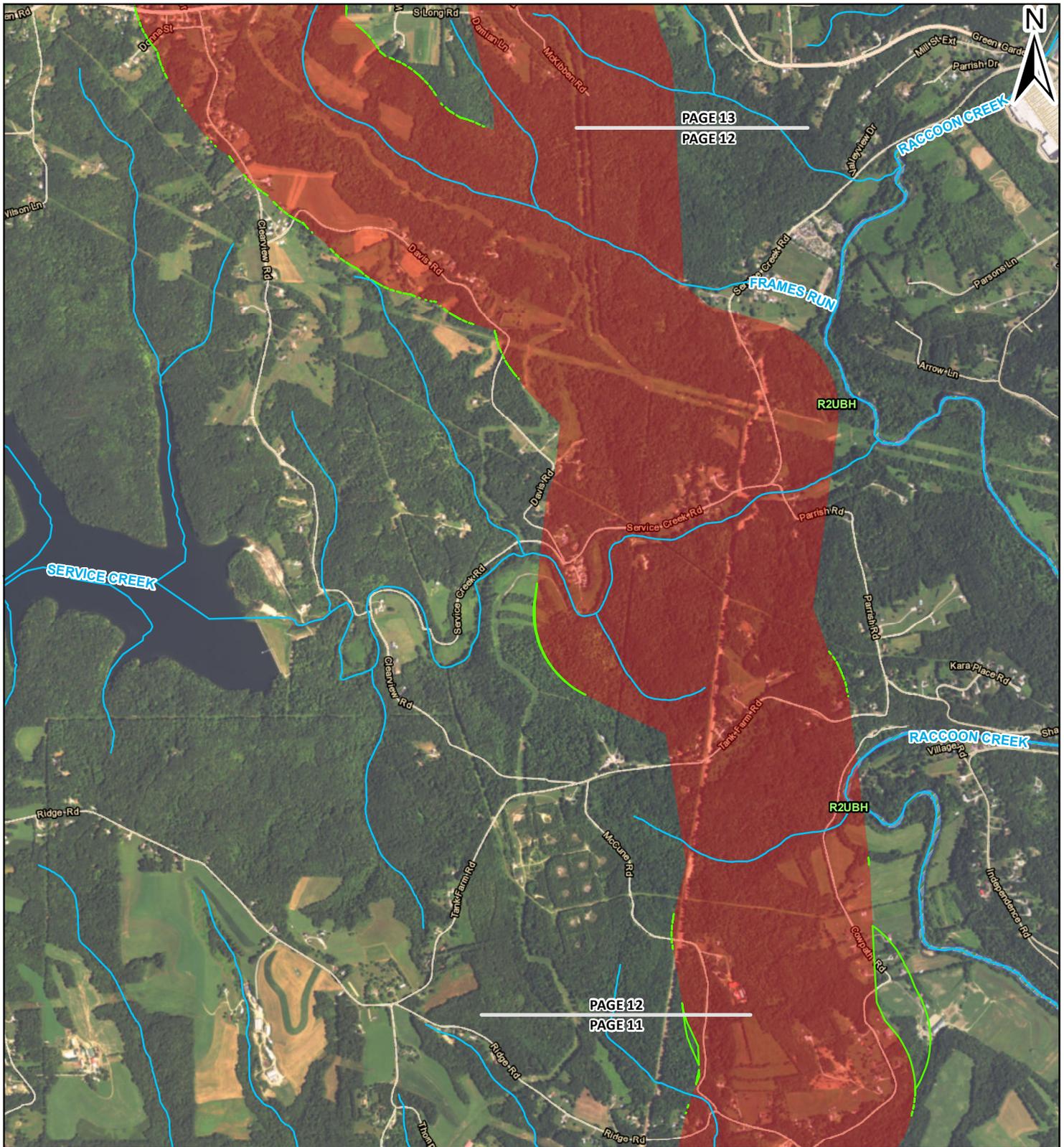
FIGURE 3

**PENNSYLVANIA  
 AERIAL MAP  
 ALLEGHENY, BEAVER AND  
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 PAGE 11 OF 14**

**SHELL PIPELINE COMPANY, LP  
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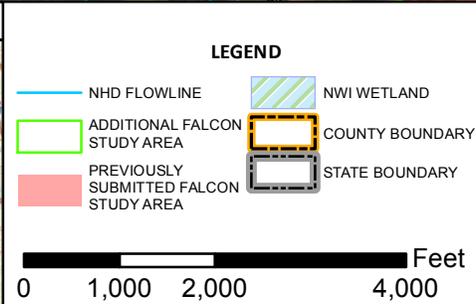
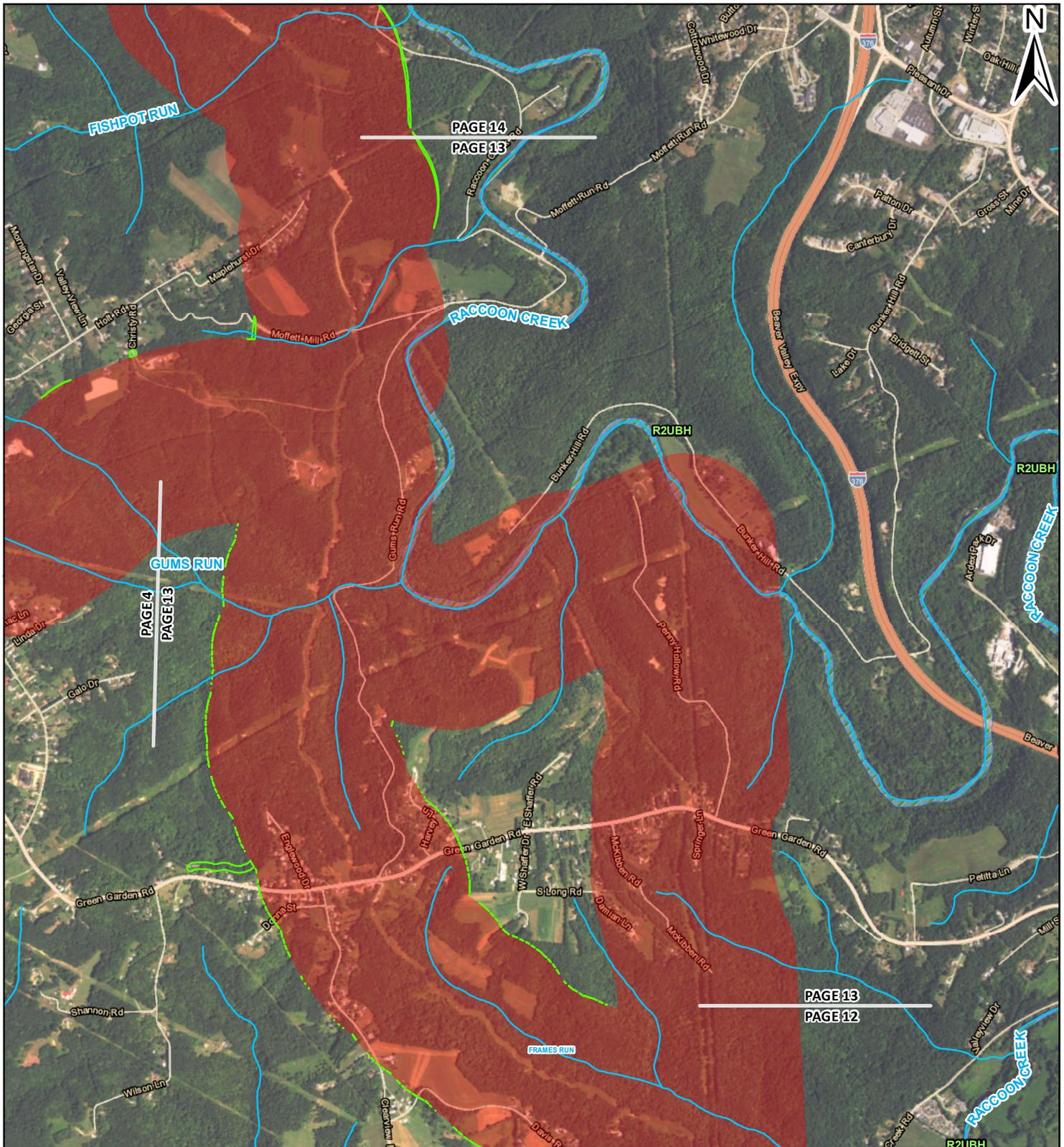
**AECOM**

FOSTER PLAZA 6  
681 ANDERSEN DRIVE  
4TH FLOOR  
PITTSBURGH, PA 15220  
412-503-4700

**FIGURE 3**

**PENNSYLVANIA  
AERIAL MAP  
ALLEGHENY, BEAVER AND  
WASHINGTON COUNTIES  
PAGE 12 OF 14**

**SHELL PIPELINE COMPANY, LP  
FALCON ETHANE  
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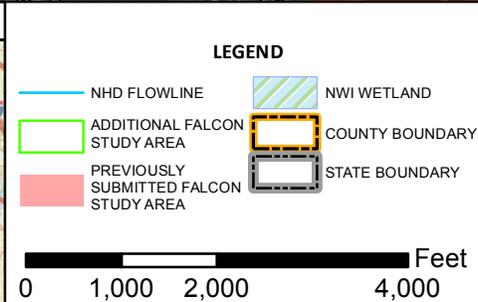
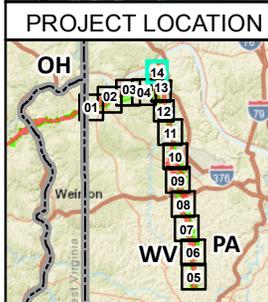
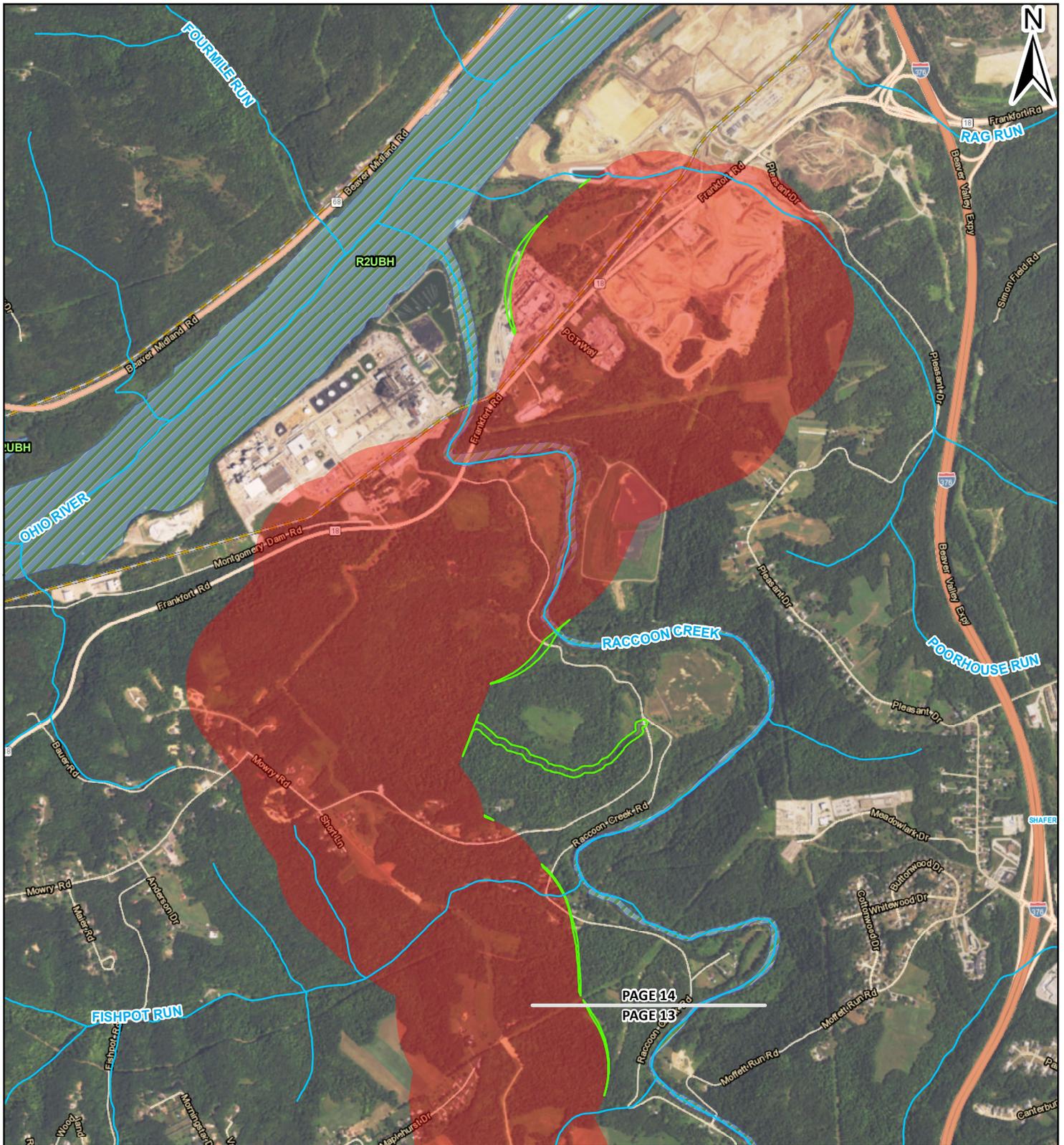
**FIGURE 3**

**PENNSYLVANIA  
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ALLEGHENY, BEAVER AND  
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PAGE 13 OF 14**

**SHELL PIPELINE COMPANY, LP  
FALCON ETHANE  
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DRAWN BY: KFS DATE: 2/23/2017  
APPROVED: BMW PROJECT #: 60487539




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**AECOM**

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**FIGURE 3**

**PENNSYLVANIA  
 AERIAL MAP  
 ALLEGHENY, BEAVER AND  
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 PAGE 14 OF 14**

**SHELL PIPELINE COMPANY, LP  
 FALCON ETHANE  
 PIPELINE PROJECT**