



November 10, 2015

Terry Hess, Supervisor/Road Master  
Betsy Yingling, Supervisor  
Penn Township  
12281 Redstone Ridge Road  
Hesston, PA 16647

**Reference: Sunoco Pipeline L.P. – Pennsylvania Pipeline Project  
Floodplain/Stormwater Management Program Consistency Request**

Dear Supervisors:

On behalf of Sunoco Pipeline, L.P., Tetra Tech is in the process of providing data to the Pennsylvania Department of Environmental Protection (PADEP), to obtain a Chapter 105 Water Obstruction and Encroachment Permit for the Pennsylvania Pipeline Project (Project). The Project involves the installation of approximately two parallel pipelines within a 306-mile, 50-foot-wide right-of-way (ROW) from Houston, Washington County, Pennsylvania to SPLP's Marcus Hook facility in Delaware County, Pennsylvania with the purpose of interconnecting with existing SPLP Mariner East pipelines. A 20-inch diameter pipeline would be installed within the ROW from Houston to Marcus Hook (306 miles) and a second, up to 20-inch diameter pipeline, will also be installed in the same ROW from SPLP's Delmont Station, Westmoreland County, Pennsylvania to the Marcus Hook facility, paralleling the initial line for approximately 255 miles. Additional above ground facilities, such as block valves and pump stations will also be required to complete the project. The project will require crossing various streams and wetlands in the project area, including direct temporary disturbances to streams and wetlands at installation locations. Once pipeline installation has been completed, trenches will be backfilled with the excavated material, and water/wetland resources will be restored to preconstruction contours and stabilized with native vegetation. Only at aboveground facilities will change in grades occur, and these facilities would be located outside of floodways and 100-year floodplains. Erosion and sedimentation control best management practices will be used during all phases of construction.

As part of the permit approval process, we and Sunoco respectfully request your review of the Project's consistency with local Floodplain Management and Storm Water Management programs, and a letter confirming the Project's consistency with these programs (as applicable). A consistency letter from the Township in regard to the local Floodplain Management and Storm Water Management Program is required pursuant to 25 Pennsylvania Code, Chapter 105 Regulations (Sections 105.14(b)(9), 105.13(e)(1)(v-vi)), and under the Stormwater Management Act (32 P.S., §§ 680.1—680.17), respectively. To save you valuable time, a draft of the letter format is enclosed as Attachment A. This draft may be retyped on municipal letterhead, signed and mailed back to Tetra Tech. Alternatively, please print the form below (at the bottom of this letter), provide a signature and return this letter to the letterhead address.

The following attachments are included for your review:

- Location Map which shows the project location with County and Township boundaries (Attachment B).
- Site Map which shows the location of the proposed pipeline Project ROW in the area and the corresponding Federal Emergency Management Agency (FEMA) flood zones (Attachment C).<sup>1</sup>

<sup>1</sup> Note: Areas shown as a "100-Year Floodplain – No Base Flood Elevation/Base Flood Elevation determined (Zone A/Zone AE)" are designated Special Flood Hazard Areas (SFHA) subject to flooding by the 1% annual chance flood. Areas shown as a "0.2% Annual Chance Flood Hazard (Zone X) and Minimal Flood Hazard Areas" are areas between the limits of the base flood and the 0.2-percent-

Tetra Tech

285 Ellicott St, Buffalo, New York 14203

Tel 716.849.9419 Fax 716.849.9420 www.tetrattech.com



As shown, no aboveground facilities or new access roads are proposed in FEMA designated floodways or 100-year floodplains. The Project pipeline ROW would cross a designated FEMA Special Flood Hazard Area, Zone A. However, some of these areas would be crossed using horizontal directional drill or boring techniques, reducing surface disturbance and potential Project impacts. Nonetheless, the entire pipeline will be buried and preconstruction contours and elevations will be restored following pipeline installation.

The Project ROW is located within Penn Township, which has adopted Pennsylvania's Chapter 102 Regulations as its stormwater management regulations. The Project will be designed, constructed, and operated in compliance with all applicable provisions of 25 Pennsylvania Code, Chapter 102 Regulations (Erosion and Sediment Control and Post Construction Stormwater Management Best Management Practices including the implementation of Antidegradation Best Available Combination of Technologies (ABACT methods) where applicable, to maintain the designated use of receiving waters in the area and no increase in stormwater runoff, rate or volume would occur.

If you have further questions or require additional information, please do not hesitate to contact me or Rachel Silva at (716) 849-9419 or via email at [ailene.batoon@tetrattech.com](mailto:ailene.batoon@tetrattech.com) or [rachel.silva@tetrattech.com](mailto:rachel.silva@tetrattech.com).

Thank you for your timely response to this matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ailene Batoon', written over a horizontal line.

Ailene Batoon  
Tetra Tech, Inc.

Enclosures: Draft Consistency Form/Letter, Location Map, Site Map

---

annual-chance (or 500-year) flood, and areas outside of the SFHA (and higher than the elevation of the 0.2% annual chance flood), respectively. FEMA Flood Zones based on latest data available for Huntingdon County--updated Oct., 16, 2012.

Tetra Tech

285 Ellicott St, Buffalo, New York 14203

Tel 716.849.9419 Fax 716.849.9420 [www.tetrattech.com](http://www.tetrattech.com)

Penn Township  
12281 Redstone Ridge Road  
Hesston, PA 16647

Ailene Batoon  
Tetra Tech, Inc.  
285 Ellicott Street  
Buffalo, NY 14203

**Reference: Sunoco Pipeline L.P. – Pennsylvania Pipeline Project  
Floodplain/Stormwater Management Program Consistency Request**

**FLOODPLAIN CONSISTENCY:**

No Plan       Project is Consistent       Project is NOT Consistent (Explain Below)

---

---

---

**STORMWATER CONSISTENCY:**

No Plan       Project is Consistent       Project is NOT Consistent (Explain Below)

---

---

---

\_\_\_\_\_  
Municipal Official (signature & title)

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

[Municipal Letterhead]

[date]

Ailene Batoon  
Tetra Tech Inc.  
285 Ellicott Street  
Buffalo, NY 14203

**Reference: Sunoco Pipeline L.P., Pennsylvania Pipeline Project**

Dear Sir/Madam:

Please be advised that [Please type the appropriate statement from the following list.]

[The Township does not have a Storm Water Management Plan.]

[The Township has a Storm Water Management Plan. However the above mentioned project is not located in that boundary and therefore, a Storm Water Management Analysis is not required for this project. ]

[The Township has a local Storm Water Management Plan effective in the project area. After studying the proposed activity, it was found that the above referenced project is consistent with the local Storm Water Management Plan.]

In regard to the Floodplain Management Plan, [please type the appropriate statement from the following list.]

[There is no FEMA Flood Insurance Study Performed for the Township.]

[The above mentioned project is not located in the boundary of the FEMA Flood Insurance Study and therefore this project has no effects on the Floodplain Management Program effective in the Township.]

[The proposed activity for the above referenced project has been studied. It is consistent with the FEMA Floodplain Management Program effective in the Township.]

Signature: \_\_\_\_\_  
Title: \_\_\_\_\_



**Legend**

- Alignment Centerline
- Pennsylvania State Border



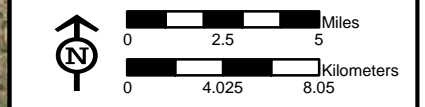
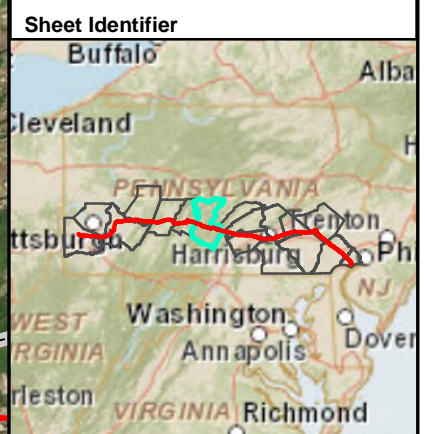
**PROJECT LOCATION MAP  
STATE LEVEL  
ATTACHMENT B  
PENNSYLVANIA PIPELINE PROJECT  
SUNOCO LOGISTICS, L.P.**



**Notes:**  
Aerial photograph provided by ESRI's ArcGIS Online World Imagery map service (© 2011 ESRI and its data suppliers).



- Legend**
- Alignment Centerline
  - County Boundary
  - Township Boundary



**PROJECT LOCATION MAP  
COUNTY LEVEL  
ATTACHMENT B  
PENNSYLVANIA PIPELINE PROJECT  
SUNOCO LOGISTICS, L.P.  
HUNTINGDON COUNTY, PA**

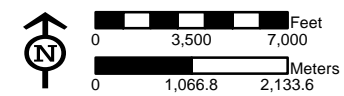
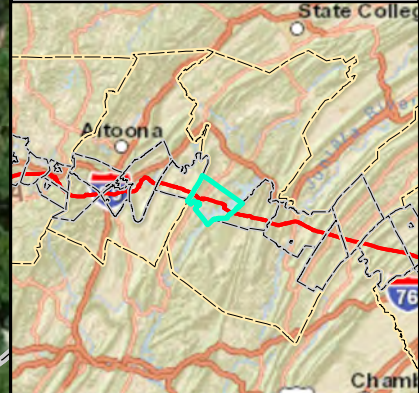


**Notes:**  
Aerial photograph provided by ESRI's  
ArcGIS Online World Imagery map service  
(© 2011 ESRI and its data suppliers).



- Legend**
- Alignment Centerline
  - County Boundary
  - Township Boundary

**Sheet Identifier**



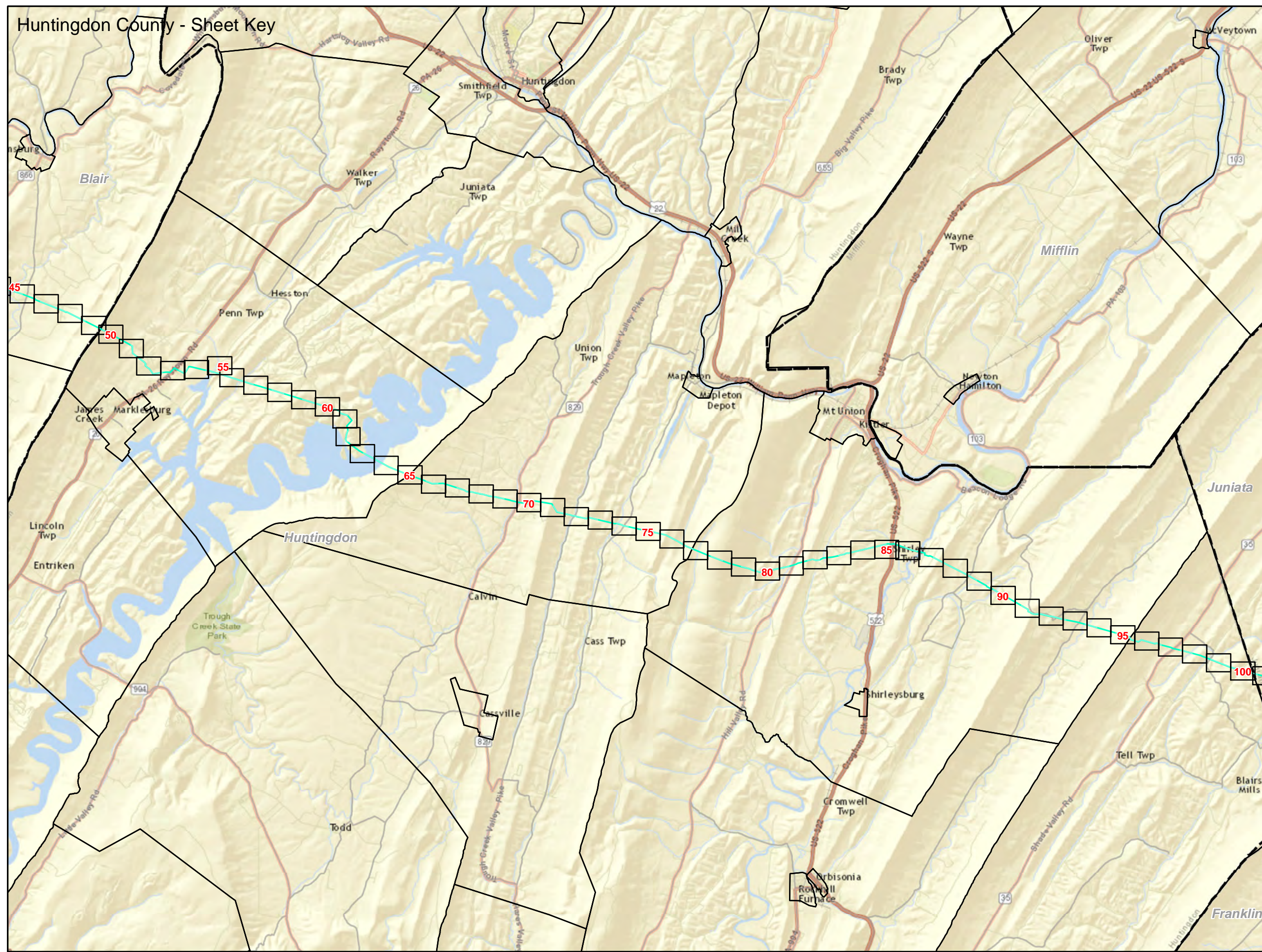
**PROJECT LOCATION MAP  
 PENN TOWNSHIP  
 ATTACHMENT B  
 PENNSYLVANIA PIPELINE PROJECT  
 SUNOCO LOGISTICS, L.P.  
 HUNTINGDON COUNTY, PA**



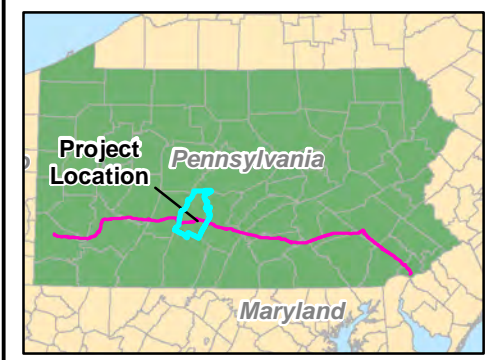
Notes:  
 Aerial photograph provided by ESRI's  
 ArcGIS Online World Imagery map service  
 © 2011 ESRI and its data suppliers).

PGH\_P015\SUNOCO\MARINER\_EAST\_2M\XDIPPP\_ACT14\MUNICIPALITIES.MXD 07/21/15\_JN

Huntingdon County - Sheet Key



- Legend**
- Sheet Boundary
  - Township Line
  - Pipeline 1
  - Pipeline 2
  - Roads
  - County Boundary



0 0.5 1 2 3 4 Miles

1 inch = 10,000 feet

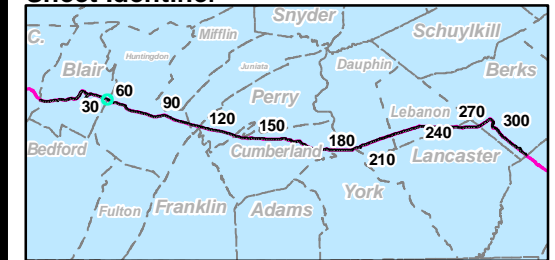
**Attachment C**  
**FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project**

Prepared By:	Date:
TETRA TECH	11/2015

Base Map; ESRI ArcGIS Online, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA National Flood Hazard Layer, downloaded 8/2013.  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

WOODEBURY TOWNSHIP  
 PENN TOWNSHIP

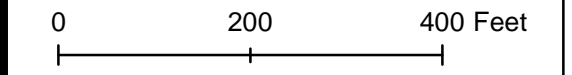
**Sheet Identifier**



**Legend**

- Proposed Pipeline 1
- Proposed Pipeline 2
- Bore
- HDD
- Permanent Right-of-Way
- Temporary Right-of-Way
- Additional Temporary Workspace
- Permanent Access Road
- Temporary Access
- Vegetation Clearing (no ground disturbance)
- Travel Lane (no ground disturbance)
- Existing Block Valve
- Proposed Block Valve
- Stream
- Wetland
- Municipal Boundary
- FEMA Floodway (Zone AE)
- 100 Year Floodplain - No Base Flood Elevation (Zone A)
- 100 Year Floodplain - Base Flood Elevation (Zone AE)
- 0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

**FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project**



49 of 321 Scale 1:2400

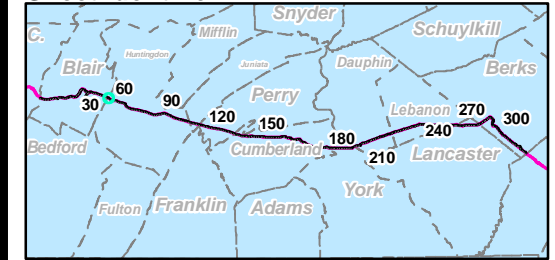
Prepared By: TETRA TECH Date: 11/2015

Floodplain & Floodway Data:  
 National Flood Hazard GIS Layer  
 Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>

PENN

WOODBURY TOWNSHIP  
PENN TOWNSHIP

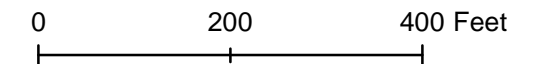
Sheet Identifier



Legend

- Proposed Pipeline 1
- Proposed Pipeline 2
- Bore
- HDD
- Permanent Right-of-Way
- Temporary Right-of-Way
- Additional Temporary Workspace
- Permanent Access Road
- Temporary Access
- Vegetation Clearing (no ground disturbance)
- Travel Lane (no ground disturbance)
- Existing Block Valve
- Proposed Block Valve
- Stream
- Wetland
- Municipal Boundary
- FEMA Floodway (Zone AE)
- 100 Year Floodplain - No Base Flood Elevation (Zone A)
- 100 Year Floodplain - Base Flood Elevation (Zone AE)
- 0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



50 of 321

Scale 1:2400

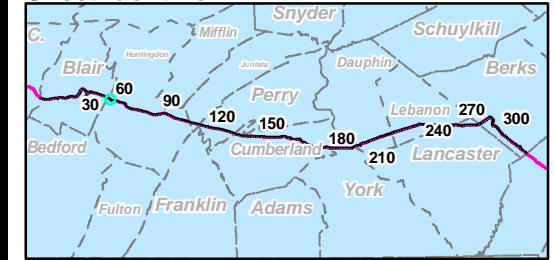
Prepared By: TETRA TECH Date: 11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

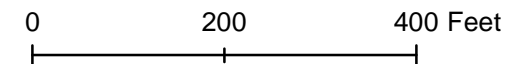
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



51 of 321

Scale 1:2400

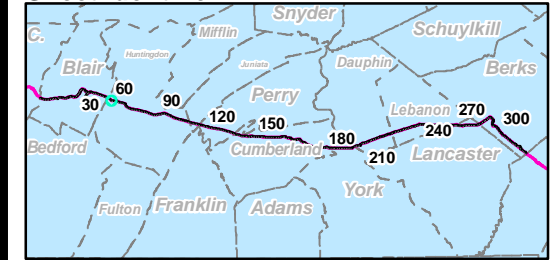
Prepared By:  TETRA TECH Date: 11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

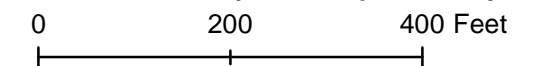
Sheet Identifier



Legend

- Proposed Pipeline 1
- Proposed Pipeline 2
- Bore
- HDD
- Permanent Right-of-Way
- Temporary Right-of-Way
- Additional Temporary Workspace
- Permanent Access Road
- Temporary Access
- Vegetation Clearing (no ground disturbance)
- Travel Lane (no ground disturbance)
- Existing Block Valve
- Proposed Block Valve
- Stream
- Wetland
- Municipal Boundary
- FEMA Floodway (Zone AE)
- 100 Year Floodplain - No Base Flood Elevation (Zone A)
- 100 Year Floodplain - Base Flood Elevation (Zone AE)
- 0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



52 of 321

Scale 1:2400

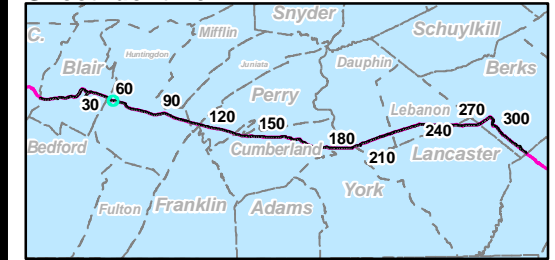
Prepared By: TETRA TECH Date: 11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

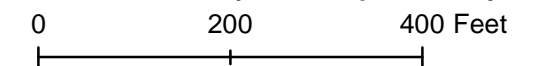
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



53 of 321

Scale 1:2400

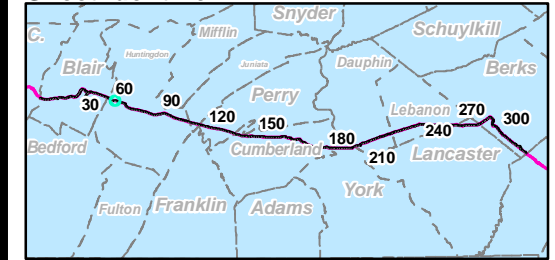
Prepared By:  TETRA TECH Date: 11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

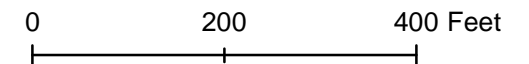
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



54 of 321

Scale 1:2400

Prepared By:



Date:

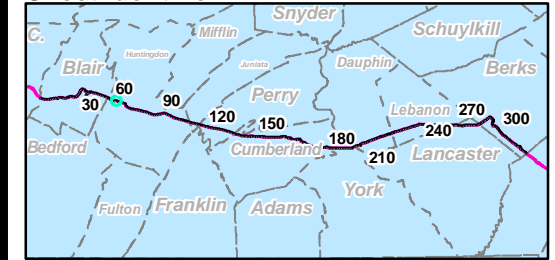
11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

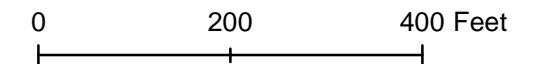
Sheet Identifier



Legend

- Proposed Pipeline 1
- Proposed Pipeline 2
- Bore
- HDD
- Permanent Right-of-Way
- Temporary Right-of-Way
- Additional Temporary Workspace
- Permanent Access Road
- Temporary Access
- Vegetation Clearing (no ground disturbance)
- Travel Lane (no ground disturbance)
- Existing Block Valve
- Proposed Block Valve
- Stream
- Wetland
- Municipal Boundary
- FEMA Floodway (Zone AE)
- 100 Year Floodplain - No Base Flood Elevation (Zone A)
- 100 Year Floodplain - Base Flood Elevation (Zone AE)
- 0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



55 of 321

Scale 1:2400

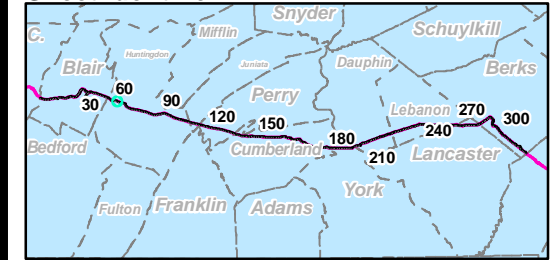
Prepared By: TETRA TECH Date: 11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

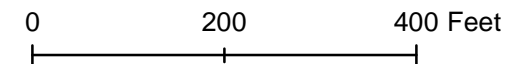
Sheet Identifier



Legend

- Proposed Pipeline 1
- Proposed Pipeline 2
- Bore
- HDD
- Permanent Right-of-Way
- Temporary Right-of-Way
- Additional Temporary Workspace
- Permanent Access Road
- Temporary Access
- Vegetation Clearing (no ground disturbance)
- Travel Lane (no ground disturbance)
- Existing Block Valve
- Proposed Block Valve
- Stream
- Wetland
- Municipal Boundary
- FEMA Floodway (Zone AE)
- 100 Year Floodplain - No Base Flood Elevation (Zone A)
- 100 Year Floodplain - Base Flood Elevation (Zone AE)
- 0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



56 of 321

Scale 1:2400

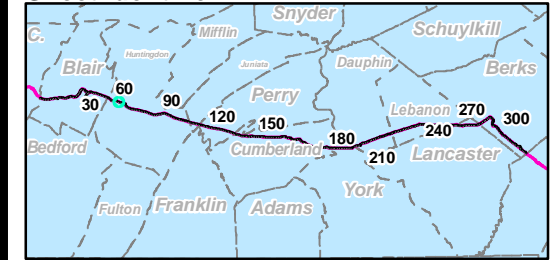
Prepared By: TETRA TECH Date: 11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

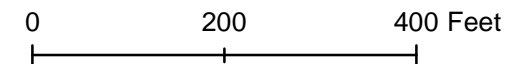
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



57 of 321

Scale 1:2400

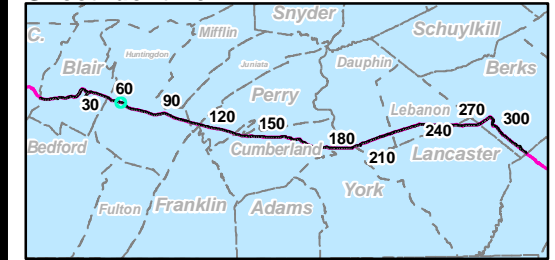
Prepared By:  TETRA TECH Date: 11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

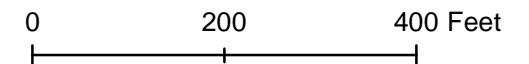
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



58 of 321

Scale 1:2400

Prepared By:



Date:

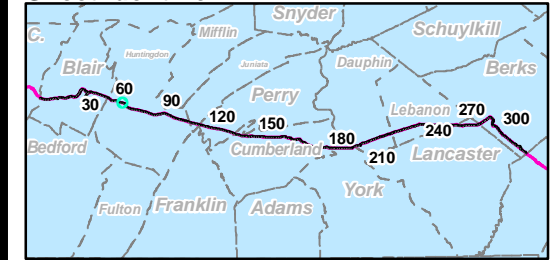
11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

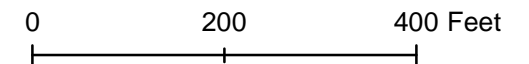
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



59 of 321

Scale 1:2400

Prepared By:



Date:

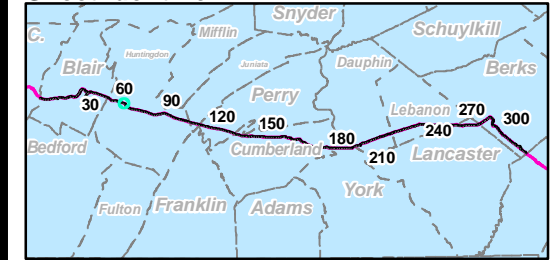
11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

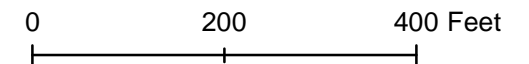
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



60 of 321

Scale 1:2400

Prepared By:



Date:

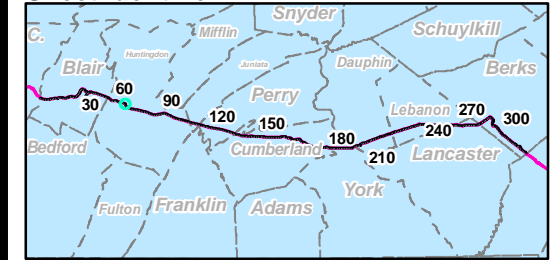
11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

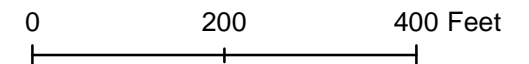
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



61 of 321

Scale 1:2400

Prepared By:



Date:

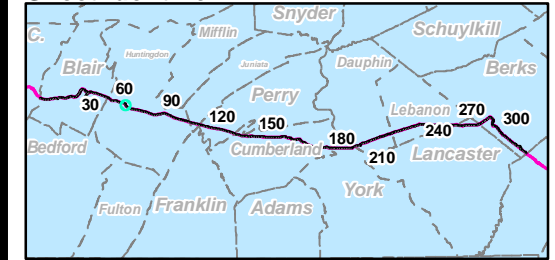
11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

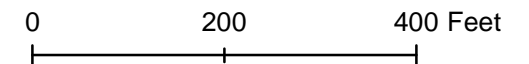
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



62 of 321

Scale 1:2400

Prepared By:



Date:

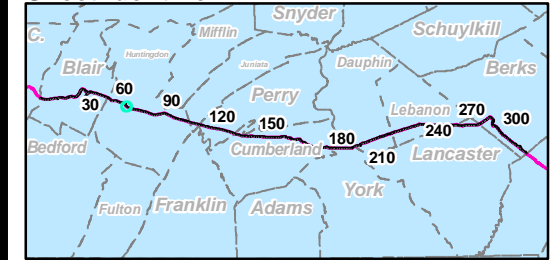
11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

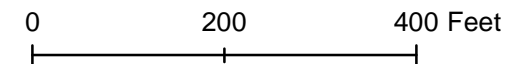
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



63 of 321

Scale 1:2400

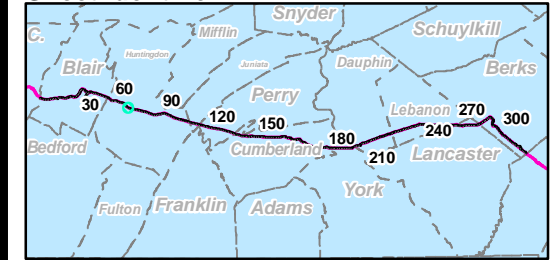
Prepared By:  TETRA TECH Date: 11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



PENN

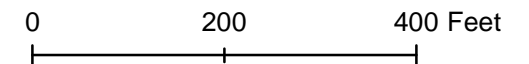
Sheet Identifier



Legend

-  Proposed Pipeline 1
-  Proposed Pipeline 2
-  Bore
-  HDD
-  Permanent Right-of-Way
-  Temporary Right-of-Way
-  Additional Temporary Workspace
-  Permanent Access Road
-  Temporary Access
-  Vegetation Clearing (no ground disturbance)
-  Travel Lane (no ground disturbance)
-  Existing Block Valve
-  Proposed Block Valve
-  Stream
-  Wetland
-  Municipal Boundary
-  FEMA Floodway (Zone AE)
-  100 Year Floodplain - No Base Flood Elevation (Zone A)
-  100 Year Floodplain - Base Flood Elevation (Zone AE)
-  0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



64 of 321

Scale 1:2400

Prepared By:



Date:

11/2015

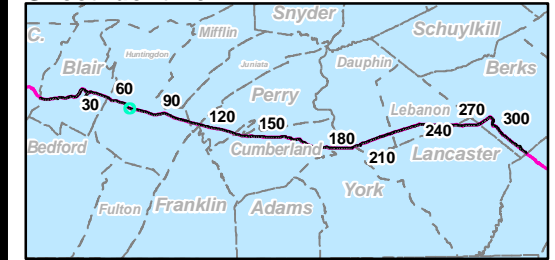
Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



UNION

PENN TOWNSHIP  
UNION TOWNSHIP

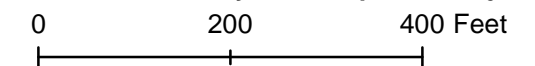
Sheet Identifier



Legend

- Proposed Pipeline 1
- Proposed Pipeline 2
- Bore
- HDD
- Permanent Right-of-Way
- Temporary Right-of-Way
- Additional Temporary Workspace
- Permanent Access Road
- Temporary Access
- Vegetation Clearing (no ground disturbance)
- Travel Lane (no ground disturbance)
- Existing Block Valve
- Proposed Block Valve
- Stream
- Wetland
- Municipal Boundary
- FEMA Floodway (Zone AE)
- 100 Year Floodplain - No Base Flood Elevation (Zone A)
- 100 Year Floodplain - Base Flood Elevation (Zone AE)
- 0.2% Annual Chance Flood Hzd/ Area of Minimal Flood Hzd (Zone X)

FEMA NFHL Designated Floodplains along the Sunoco Pennsylvania Pipeline Project



65 of 321

Scale 1:2400

Prepared By: TETRA TECH Date: 11/2015

Floodplain & Floodway Data:  
National Flood Hazard GIS Layer  
Downloaded October, 2015  
<http://www.floodmaps.fema.gov/NFHL/status.shtml>



**From:** [trackingupdates@fedex.com](mailto:trackingupdates@fedex.com)  
**To:** [Silva, Rachel](#)  
**Subject:** FedEx Shipment 774945348758 Delivered  
**Date:** Wednesday, November 11, 2015 1:04:40 PM

FedEx®

## Your package has been delivered

Tracking # 774945348758

Ship date: <b>Tue, 11/10/2015</b>	Delivery date: <b>Wed, 11/11/2015 1:02 pm</b>
<b>AILENE BATOON</b> TETRA TECH - HOME Buffalo, NY 14203 US	 <b>Delivered</b> <b>Penn Township Supervisors</b> 12281 Redstone Ridge Road HESSTON, PA 16647 US

### Shipment Facts

Our records indicate that the following package has been delivered.

<b>Tracking number:</b>	<a href="#">774945348758</a>
<b>Status:</b>	Delivered: 11/11/2015 1:02 PM Signed for By: Signature Release on file
<b>Reference:</b>	112IC05958 Task 16
<b>Signed for by:</b>	Signature Release on file
<b>Delivery location:</b>	HESSTON, PA
<b>Service type:</b>	FedEx Priority Overnight
<b>Packaging type:</b>	FedEx Pak
<b>Number of pieces:</b>	1
<b>Weight:</b>	1.00 lb.
<b>Special handling/Services:</b>	Deliver Weekday

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 12:04 PM CST on 11/11/2015.

To learn more about FedEx Express, please go to [fedex.com](http://fedex.com).

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above, or go to [fedex.com](http://fedex.com).

This tracking update has been sent to you by FedEx at your request. FedEx does not validate the authenticity of the requestor and does not validate, guarantee or warrant the authenticity of the request, the requestor's message, or the accuracy of this tracking update. For tracking results and terms of use, go to [fedex.com](http://fedex.com).

Thank you for your business.

## Silva, Rachel

**From:** trackingupdates@fedex.com  
**Sent:** Tuesday, February 09, 2016 12:36 PM  
**To:** Silva, Rachel  
**Subject:** FedEx Shipment 775597142871 Delivered

# Your package has been delivered

Tracking # 775597142871

Ship date: <b>Mon, 2/8/2016</b>	Delivery date: <b>Tue, 2/9/2016 12:30 pm</b>	
<b>RACHEL SILVA</b> TETRA TECH - HOME Buffalo, NY 14203 US	 <b>Delivered</b>	<b>Penn Township</b> 12281 Redstone Ridge Rd HESSTON, PA 16647 US

## Shipment Facts

Our records indicate that the following package has been delivered.

<b>Tracking number:</b>	<a href="#">775597142871</a>
<b>Status:</b>	Delivered: 02/09/2016 12:30 PM Signed for By: J.GROVE
<b>Reference:</b>	112IC05958, 16
<b>Signed for by:</b>	J.GROVE
<b>Delivery location:</b>	HESSTON, PA
<b>Delivered to:</b>	Receptionist/Front Desk
<b>Service type:</b>	FedEx Priority Overnight
<b>Packaging type:</b>	FedEx Envelope
<b>Number of pieces:</b>	1
<b>Weight:</b>	0.50 lb.
<b>Special handling/Services:</b>	Direct Signature Required Deliver Weekday

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 11:36 AM CST on 02/09/2016.

To learn more about FedEx Express, please go to [fedex.com](http://fedex.com).

All weights are estimated.