

**FORM 3150-PM-BWEW0036A**

**Joint Application for Pennsylvania**

**Water Obstruction and Encroachment Permit  
and  
U.S. Army Corps of Engineers Section 404 Permit**

## **ATTACHMENT 1**

### **GENERAL INFORMATION FORM (GIF) AND SUPPLEMENTAL INFORMATION**

**Note:** It is up to the construction contractor to finalize contracts with the Public Water Supplies and they are not finalized at this time. Letters of Approval from Suppliers to be provided when contracts are executed.

**ATTACHMENT 2**  
**APPLICATION FEE & WORKSHEET**

**ATTACHMENT 3**

**ACT 14 NOTIFICATION AND CORRESPONDENCE**

**ATTACHMENT 4**  
**CULTURAL RESOURCE NOTICE**

## **ATTACHMENT 5**

### **PASPGP-4 CUMULATIVE SCREENING FORM**

**Note:** Per PADEP direction, completion of the new PASPGP-5 would not be necessary as long as concurrence was received from the USACE. Attached is the received concurrence from each of the three USACE Districts, Pittsburgh, Baltimore, and Philadelphia. Also attached is the Original PASPGP-4 Cumulative Impacts Project Screening Form.

## **ATTACHMENT 6**

### **PNDI & AGENCY COORDINATION**

### **PA DCNR, PAFBC, PGC, AND USFWS**

**Note:** A Bog Turtle Habitat Screening Form is included as part of this Joint Application because Lancaster County is a listed county within the range of the bog turtle.

- **TAB 6A – BOG TURTLE HABITAT SCREENING**
- **TAB 6B – THREATENED/ENDANGERED SPECIES COORDINATION**

**Note:** As agreed to with PADEP, initial correspondences and interim correspondences are provided on the application CD and pertinent documentation will be provided upon completion of the consultations.

- **TAB 6C – ADDITIONAL AGENCY CORRESPONDENCE**

***UNDER SEPARATE COVER***

**ATTACHMENT 6A**  
**BOG TURTLE HABITAT SCREENING**



**ATTACHMENT 6B**

**PNDI COORDINATION**

**PART 1**

**THREATENED/ENDANGERED SPECIES CORRESPONDENCE**

**ATTACHMENT 6B**

**PNDI COORDINATION  
PART 2**

**CLEARANCES AND CONSERVATION PLANS**

**ATTACHMENT 6C**

**ADDITIONAL AGENCY CORRESPONDENCE**

## ATTACHMENT 7

### SITE PLANS

- **TAB 7A – AERIAL SITE PLANS**
- **TAB 7B – HORIZONTAL DIRECTIONAL DRILL DRAWINGS AND ATONS**
- **TAB 7C – AUGER BORE DRAWINGS**
- **TAB 7D – SITE-SPECIFIC DRAWINGS  
(INCLUDED UNDER ATTACHMENT 12 IN THE  
E&S PLAN SHEET SET)**
- **TAB 7E – CHANGE SUMMARY AND MAP SET**
- **TAB 7F – 8 INCH OVERLAP MAP SET**
- **TAB 7G – SITE-SPECIFIC CROSS SECTIONS**

Pennsylvania Pipeline Project  
Chapter 105 Joint Permit Application  
Lancaster County, Pennsylvania  
Application ID: E07-459  
APS No.: 879354  
November 2016

Prepared for:  
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Brad Schaeffer, P.M.P.  
Tetra Tech OGA, Inc.

"I, Robert F. Simcik, do hereby certify to the best of my knowledge, information and belief, that the information contained in the accompanying plans, specifications, and reports has been prepared in accordance with accepted professional practice, is true and correct, and is in conformance with Chapter 106 of the rules and regulations of the Department of Environmental Protection."

"I, Robert F. Simcik, do hereby certify pursuant to the penalties of 18 Pa. C.S.A Sec. 4904 to the best of my knowledge, information and belief, that the information contained in the accompanying plans, specifications and reports has been prepared in accordance with accepted engineering practice, is true and correct, and is in conformance with Chapter 105 of the rules and regulations of the Department of Environmental Protection."

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Robert F. Simcik, P.E.  
Professional Engineer No. PE050435E

**TAB 7A**

**AERIAL SITE PLANS**

**TAB 7B**

**HORIZONTAL DIRECTIONAL DRILL DRAWINGS  
AND AIDS TO NAVIGATION (ATON) PLANS**

**TAB 7C**

**AUGER BORE DRAWINGS**



**TAB 7D**

**SITE-SPECIFIC DRAWINGS**

**TAB 7E**

**CHANGE SUMMARY AND MAP SET**

**TAB 7F**

**8 INCH OVERLAP MAP SET**

**TAB 7G**

**8 INCH OVERLAP MAP SET**

**ATTACHMENT 8**

**LOCATION MAP**

**ATTACHMENT 9**  
**PROJECT DESCRIPTION**

**ATTACHMENT 10**  
**COLOR PHOTOGRAPHS**

**Note:** Color photographs are provided in Enclosure A (Aquatic Resource Report) of Attachment 11 (Environmental Assessment).

**ATTACHMENT 11**  
**ENVIRONMENTAL ASSESSMENT FORM**  
**AND**  
**RESOURCE TABLES / ENCLOSURES**



**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11**

**ENVIRONMENTAL ASSESSMENT FORM**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11**

**RESOURCE TABLES:  
WETLAND AND STREAM IMPACTS AND ATTRIBUTES**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11  
ENCLOSURE A**

**AQUATIC RESOURCE REPORT AND SUPPLEMENTAL**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11  
ENCLOSURE B**

**LAND USE MAPS**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11  
ENCLOSURE C**

**DESCRIPTION OF AQUATIC RESOURCES AND  
FUNCTIONS AND VALUES ASSESSMENT**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11  
ENCLOSURE D**

**PROJECT IMPACTS**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11  
ENCLOSURE E**

**COMPREHENSIVE ENVIRONMENTAL EVALUATION**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11**

**ENCLOSURE E**

**PART 1**

**SECTION 105.18A COMPREHENSIVE EVALUATION OF COMPLIANCE**



**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11**

**ENCLOSURE E**

**PART 2**

**RESOURCE IDENTIFICATION AND PROJECT IMPACTS**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11**

**ENCLOSURE E**

**PART 3**

**ALTERNATIVES ANALYSIS**

**(INCLUDES TRENCHLESS CONSTRUCTION FEASIBILITY ANALYSIS)**

***UNDER SEPARATE COVER***

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11**

**ENCLOSURE E**

**PART 4**

**IMPACT AVOIDANCE, MINIMIZATION, AND MITIGATION PROCEDURES**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11**

**ENCLOSURE E**

**PART 5**

**ANTIDEGRADATION ANALYSIS**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11**

**ENCLOSURE E**

**PART 6**

**CUMULATIVE IMPACTS ASSESSMENT**

**ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 11  
ENCLOSURE F**

**PERMITTEE-RESPONSIBLE COMPENSATORY WETLAND MITIGATION PLAN**

## **ATTACHMENT 12**

### **EROSION & SEDIMENT CONTROL PLAN**

- **TAB 12A – PREPAREDNESS, PREVENTION AND CONTINGENCY**
- **TAB 12B – WATER SUPPLY ASSESSMENT, PREPAREDNESS, PREVENTION AND CONTINGENCY PLAN**
- **TAB 12C – INADVERTENT RETURN ASSESSMENT, PREPAREDNESS, PREVENTION AND CONTINGENCY PLAN (WITH HDD RISK ASSESSMENT ATTACHED)**
- **TAB 12D – VOID MITIGATION PLAN FOR KARST TERRAIN AND UNDERGROUND MINING**

**Note:** The ESCGP-2 Application is being submitted and reviewed concurrently with this Joint Application. A copy of the Draft E&S Plan sheet set is included with this application under separate cover. In addition, the Preparedness, Prevention, and Contingency Plan is also included with this application under separate cover.

***UNDER SEPARATE COVER***

## **ATTACHMENT 12**

### **EROSION & SEDIMENT CONTROL PLAN**

- **TAB 12A – PREPAREDNESS, PREVENTION AND CONTINGENCY**



## **ATTACHMENT 12**

### **EROSION & SEDIMENT CONTROL PLAN**

- **TAB 12B – WATER SUPPLY ASSESSMENT, PREPAREDNESS, PREVENTION AND CONTINGENCY PLAN**

## **ATTACHMENT 12**

### **EROSION & SEDIMENT CONTROL PLAN**

- **TAB 12C – INADVERTENT RETURN ASSESSMENT, PREPAREDNESS, PREVENTION AND CONTINGENCY PLAN (WITH HDD RISK ASSESSMENT ATTACHED)**

## **ATTACHMENT 12**

### **EROSION & SEDIMENT CONTROL PLAN**

- **TAB 12D – VOID MITIGATION PLAN FOR KARST TERRAIN AND UNDERGROUND MINING**

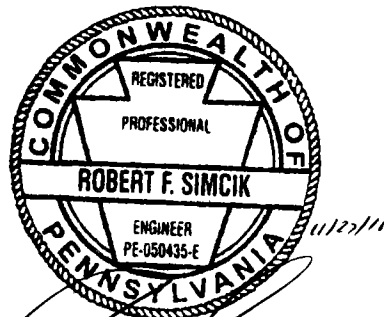
## ATTACHMENT 13

### HYDROLOGIC AND HYDRAULIC ANALYSIS

**NOTE:** The proposed Project does not alter the flow volumes, direction, or geomorphology of any of the streams traversed: all streams and wetlands temporarily disturbed will be restored to their pre-existing topographic contours. Furthermore, the Project does not involve the creation of impermeable surfaces that would result in a change in the existing 100-year frequency flood discharges. Similarly, the Project will not alter the flood storage capacity of any floodways traversed as there will be no permanent structures built in FEMA floodways and no additional/new fill will be placed in FEMA floodways. In addition, in Lancaster County, no permanent impacts are proposed within the FEMA 100 year floodplain. Accordingly, further coordination regarding this requirement is not applicable.

"I, Robert F. Simcik, do hereby certify to the best of my knowledge, information and belief, that the information contained in the accompanying plans, specifications, and reports has been prepared in accordance with accepted professional practice, is true and correct, and is in conformance with Chapter 106 of the rules and regulations of the Department of Environmental Protection."

"I, Robert F. Simcik, do hereby certify pursuant to the penalties of 18 Pa. C.S.A Sec. 4904 to the best of my knowledge, information and belief, that the information above, is true and correct, and is in conformance with Chapter 105 of the rules and regulations of the Department of Environmental Protection."



Robert F. Simcik, P.E.  
Professional Engineer No. PE050435E

## **ATTACHMENT 14**

### **STORMWATER MANAGEMENT ANALYSIS**

The proposed Project has been designed to satisfy Pennsylvania's stormwater management requirements and has incorporated best management practices identified in the Pennsylvania Stormwater Best Management Practices Manual. Stormwater will be managed during construction activities in accordance with the Project's Erosion and Sediment Control Plan. The Project does involve the construction of above ground stations and valve settings that will require grading, permanent access roads, and other impermeable surfaces, however these are all located outside of wetlands, streams, and the FEMA floodway. All of these sites are designed to manage stormwater runoff in accordance with the Pennsylvania Stormwater Best Practices Manual and are discussed and presented within the Project's Erosion and Sediment Control Plan.

Coordination with the local municipalities was initiated with letters and project maps sent between the dates of November 10 and December 22, 2015. As part of that process, the municipalities were requested to respond with any concerns regarding the proposed Project and its consistency with their comprehensive plans and/or ordinances.

### **FLOODPLAIN MANAGEMENT ANALYSIS**

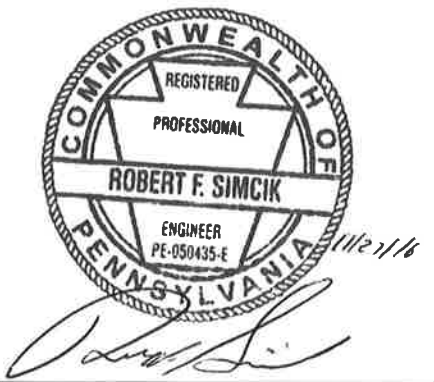
As presented in the Environmental Assessment (Attachment 11), the proposed Project does cross floodways delineated on FEMA maps. However, the Project will not involve the construction of any aboveground structures within these mapped floodways nor will the Project result in any change in the storage capacity of the floodways. All floodways temporarily impacted by the Project will be restored to their pre-existing contours and no additional/new fill will be placed in the floodways. There are no permanent impacts to FEMA floodways as a result of the proposed Project. In addition, in Lancaster County, no permanent impacts are proposed within the FEMA 100 year floodplain.

Coordination with the local municipalities was initiated with letters and project maps sent between the dates of November 10 and December 22, 2015. As part of that process, the municipalities were requested to respond with any concerns regarding the proposed Project and its consistency with their comprehensive plans and/or ordinances.

A summary of the initial stormwater and floodplain management correspondence is included in this attachment as Table 14-1. Following Table 14-1 are copies of the consistency letter requests, delivery confirmations, and responses received to date.

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Professional Engineer No. PE050435E

## ATTACHMENT 15

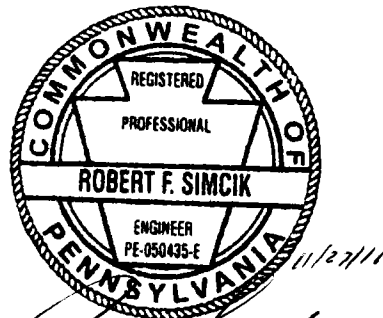
### RISK ASSESSMENT

**NOTE:** The proposed Project will not result in an increase in peak runoff rates or flood elevations; therefore, no public property or land uses will be adversely affected. Therefore, further analysis regarding the degree of increased risk to life property and the environment is not warranted.

Accordingly, further coordination regarding this requirement is not applicable.

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"I, Robert F. Simcik, do hereby certify pursuant to the penalties of 18 Pa. C.S.A Sec. 4904 to the best of my knowledge, information and belief, that the information above, is true and correct, and is in conformance with Chapter 105 of the rules and regulations of the Department of Environmental Protection."



Robert F. Simcik, P.E.  
Professional Engineer No. PE050435E

## **ATTACHMENT 16**

### **PROFESSIONAL ENGINEER'S SEAL/CERTIFICATION**

**Note:** The plans and specifications for the proposed Project are included in Attachment 7 and Attachment 12 of this Joint Application Package. In accordance with Title 25 of the Pennsylvania Code §105.13(i), these plans are affixed with the seal and certification of a registered professional engineer within the respective Attachments.