



Susan Simms Marsh P 717-531-3208
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Hershey, PA 17033 I www.amwater.com

September 15, 2015

RECEIVED

Ms. Rosemary Chiavetta, Secretary
Commonwealth of Pennsylvania
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17120

SEP 15 2015

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

Re: Application of Pennsylvania-American Water Company-Wastewater Division (PAWC-WD) for approval of: (1) the transfer, by sale, of substantially all of Shippenville Borough properties and rights related to its wastewater system to PAWC-WD, and (2) the rights of PAWC-WD to begin to offer or furnish wastewater service to the public in Shippenville Borough and an additional portion of Elk Township, Clarion County, Pennsylvania - A-2014-2441953

Dear Secretary Chiavetta:

On August 4, 2015, the Company closed on the above-referenced acquisition. In regards to the Commission's Order entered March 11, 2015, specifically Ordering Paragraph 5, attached is a copy of the following documents:

1. Resolution for Plan Revision for New Land Development-Shippenville Borough (Pg. 1)
2. Resolution for Plan Revision for New Land Development-Elk Township (Pg. 2)
3. DEP Approval Letter (Pg. 3)
4. Act 537 – Component 3 Sewage Facilities Planning Module (Pg. 5)
Pennsylvania American Water
Shippenville-Point Elk Sewage System Interconnection

A copy of these documents is also being served on the Secretary's Bureau of Technical Utility Services.

Sincerely,

Susan Simms Marsh

eth

Attachment

VIA UPS Ground Delivery

cc: Bureau of Technical Utility Services w/Attachment (VIA UPS Ground Delivery)

RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE COUNCIL of SHIPPENVILLE BOROUGH, CLARION COUNTY, PENNSYLVANIA
(hereinafter "the municipality").

WHEREAS Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act", as Amended, and the rules and Regulations of the Pennsylvania Department of Environmental Protection (Department) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to determine whether a proposed method of sewage disposal for a new land development conforms to a comprehensive program of pollution control and water quality management, and


WHEREAS Pennsylvania American Water has proposed a sewage conveyance project identified as
developer

Shippenville - Paint Elk Sewage System Interconnection, and described in the attached Sewage Facilities Planning
name of project

Module, and proposes that such project will decommission the existing Shippenville Wastewater Treatment Plant (WWTP) and construct a new pump station on the WWTP site to convey sewage flows to the Paint-Elk sewerage system presently owned by Pennsylvania American Water; The entire Shippenville sewerage system is to be transferred from Shippenville Borough to Pennsylvania American Water.

WHEREAS, Shippenville Borough finds that the project described in the attached
municipality
Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the Council of the Borough of Shippenville hereby adopt and submit to the Department of Environmental Protection for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.


(Signature)

BORO OFFICIAL

Secretary, Shippenville Borough Council, hereby certify

that the foregoing is a true copy of the Borough Resolution # 15-02, adopted, 5-13-, 2015.

Municipal Address:

Shippenville Boro
106 N School St
Shippenville, PA 16254
Telephone 814-782-3321

Seal of
Governing Body



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SEP 15 2015

2015-1



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

DEP Code No.
K8-14-040

**RESOLUTION FOR PLAN REVISION
FOR NEW LAND DEVELOPMENT**

RESOLUTION OF THE SUPERVISORS of ELK TOWNSHIP, CLARION COUNTY, PENNSYLVANIA
(hereinafter "the municipality").

WHEREAS Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act", as Amended, and the rules and Regulations of the Pennsylvania Department of Environmental Protection (Department) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to determine whether a proposed method of sewage disposal for a new land development conforms to a comprehensive program of pollution control and water quality management, and

WHEREAS Pennsylvania American Water has proposed a sewage conveyance project identified as
developer

Shipperville - Paint Elk Sewage System Interconnection, and described in the attached Sewage Facilities Planning
name of project

Module, and proposes that such project will decommission the existing Shipperville Wastewater Treatment Plant (WWTP) and construct a new pump station on the WWTP site to convey sewage flows to the Paint-Elk sewerage system owned by Pennsylvania American Water; The entire Shipperville sewerage system is to be transferred from Shipperville Borough to Pennsylvania American Water.

WHEREAS, ELK TOWNSHIP finds that the project described in the attached
municipality
Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

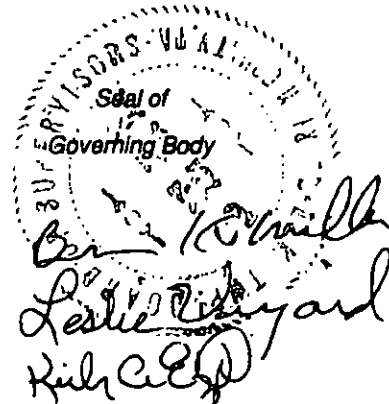
NOW, THEREFORE, BE IT RESOLVED that the Supervisors of the Township of Elk hereby adopt and submit to the Department of Environmental Protection for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

Francis M. Taylor, Secretary, Elk Township Board of Supervisors, hereby certify
(Signature)
that the foregoing is a true copy of the Township Resolution # 2015-1, adopted, May 11, 2015.

Municipal Address:

1395 Fulton Rd
Shipperville, PA 16254

Telephone (814) 782-3775



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SEP 15 2015

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU



June 23, 2015

Ms. Linda Dufee, Secretary
Shippenville Borough
P.O. Box 244
106 N. School Street
Shippenville, PA 16254

Ms. Frances Taylor, Secretary
Elk Township
1395 Fulton Road
Shippenville, PA 16254

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SEP 15 2015

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

Re: Approval Letter - Revision
Planning Module Component 3 - Sewage Collection and Treatment Facilities
Shippenville Pump Station
DEP Code No. K6-14-040;
APS ID No. 871594, Auth ID No. 1074592
Shippenville Borough and Elk Township, Clarion County

Dear Ms. Dufee and Ms. Taylor:

The Department of Environmental Protection (DEP) has reviewed the proposed Official Plan revision proposing interconnection of two municipal wastewater systems, the Shippenville Borough Collection and Treatment System and the former Paint-Elk Joint Sewer Authority Sewage Collection and Treatment System.

The proposal consists of decommissioning the Shippenville Borough Wastewater Treatment Plant (WWTP) and construction of a new duplex pump station/force main to convey the sewage from Shippenville Borough to the Paint-Elk collection and conveyance system for treatment at the Paint-Elk WWTP. The existing receiving gravity main in the Paint-Elk system will also be upgraded to accommodate the existing and projected flows from Shippenville. Shippenville Borough has also proposed transfer of their sewage system to Pennsylvania American Water (PAW) in this planning effort.

The plan revision is approved.

Shippenville Borough remains under a Consent Order and Agreement (COA) between Shippenville Borough and the Department. All proposed facilities and connections must be consistent with the November 4, 2010 COA (modified March 6, 2013), unless the COA is further modified or terminated.

Shippenville's projected needs are 0.1 MGD, as proposed in the approved 2012 Shippenville Act 537 Plan (Plan), and would cover the current and future flows to be conveyed to the Paint-Elk WWTP. The selected alternative in the Shippenville Plan proposed construction of a new treatment facility for Shippenville, and has not been implemented. Construction of the new facilities is proposed within the existing Shippenville WWTP site and conveyance and infrastructure facilities will be located within existing easements, road rights-of-way, and existing sewer locations.

A concern was raised that the 0.1MGD flow to be used for the design of the pumping station only includes 50 connections for Elk Township. The Department was assured significantly more connections could be accommodated from Elk Township if needed when considering the pump stations estimated reserve capacity.

The approved project will require a Water Quality Management (Part II) permit for the construction and operation of the proposed sewage facilities. The permit application must be submitted in the name of the municipality or authority, as appropriate. Issuance of a Part II permit will be based upon a technical evaluation of the permit application and supporting documentation. Starting construction

prior to obtaining a permit is a violation of the Clean Streams Law. The Part II permit application can be downloaded from the Internet at www.dep.state.pa.us/dep/deputate/watermgmt/wqp/forms/forms_home.htm.

A part II permit application is anticipated 6 months after receiving approval of this project, and completion of construction is anticipated 24 months after issuance of the Part II permit per the implementation schedule included in this project.

If there are streams or wetlands within your proposed development, you are hereby notified that an encroachment permit under Title 25, Chapter 105 of the Rules and Regulations of DEP must be obtained from DEP prior to any construction that will encroach on streams or wetlands.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa. C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717.787.3483) FOR MORE INFORMATION.

If you have any questions or concerns, please contact Michelle Solida at 814.797.1191, and refer to DEP Code No. K6-14-040, Application No. 871594 and Authorization No. 1074142.

Sincerely,



John A. Holden, P.E.
Environmental Program Manager
Clean Water Program

cc: Jed Fiscus, P.E., Pennsylvania American Water
David Kaufman, P.E., Pennsylvania American Water
Brian Sekula, The EADS Group
Stan Corbett, AECOM
Kevin Reichard, Clarion County Department of Planning & Development
Bernie Spozio, Clarion County Conservation District
Christina Nagy/Eric Kicher
NWRO File: Cynthia Selby/ Shippenville Borough Clarion County/Planning/Comp 3/3s
KDO File: Michelle Solida/Shippenville Borough Clarion County/Planning/Comp 3/3s

JAH:CS:MS:emr

Component 3 Sewage Facilities Planning Module

Pennsylvania American Water

Shippenville – Paint Elk Sewage System Interconnection

Shippenville Borough and Elk Township
Clarion County, Pennsylvania

Date: February 2015

Revised: April 2015

RECEIVED

SEP 15 2015

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

AECOM

Sabre Building, Suite 300
4051 Ogletown Road
Newark, DE 19713

302.781.5900 tel
302.781.5901 fax

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- PNDI Correspondence
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**TRANSMITTAL LETTERS AND
DEP MAILER RESPONSE WITH CHECKLISTS**



**TRANSMITTAL LETTER
 FOR SEWAGE FACILITIES PLANNING MODULE**

DEP USE ONLY				
DEP CODE #	APS ID #	CLIENT ID #	SITE ID #	AUTH. ID #

TO: Approving Agency (DEP or delegated local agency)

Date _____

Michelle L. Solida
 DEP Knox District Office
 White Memorial Building, PO Box 669
 Knox, PA 16232

Dear Sir/Madam:

Attached please find a completed Sewage Facilities Planning Module prepared by AECOM _____
 (Name)

for the Shippenville - Paint Elk Sewage System Interconnection, a sewage conveyance project located in
 (Name)

Shippenville Borough and Elk Township, Clarion County.
 (City, Borough, Township)

Check one

- (i) The Planning Module, as prepared and submitted by the applicant, is approved by the municipality as a proposed revision supplement for new land development to its "Official Sewage Facilities Plan", and is adopted for submission to the Department of Environmental Protection transmitted to the delegated local agency for approval in accordance with the requirements of Chapter 71 and the Sewage Facilities Act, OR
- (ii) The Planning Module will not be approved by the municipality as a proposed revision or supplement for new land development to its "Official Sewage Facilities Plan" because the project described therein is unacceptable for the reason(s) checked below.

Check Boxes

- Additional studies are being performed by or on behalf of this municipality which may have an effect on the Planning Module as prepared and submitted by the applicant. Attached hereto is the scope of services to be performed and the time schedule for completion of said studies.
- The Planning Module as submitted by the applicant fails to meet limitations imposed by other laws or ordinances, officially adopted comprehensive plans and/or environmental plans (e.g., zoning, land use, Chapter 71). Specific reference or applicable segments of such laws or plans are attached hereto.
- Other (attach additional sheet giving specifics)

Municipal Secretary: Indicate below by checking appropriate boxes which components are being transmitted to the Approving Agency.

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> Resolution of Adoption | <input checked="" type="checkbox"/> 3. Sewage Collection/Treatment Facilities | <input checked="" type="checkbox"/> 4.A. Municipal Planning Agency Review |
| <input type="checkbox"/> 2. Individual and Community Onlot Disposal of Sewage | <input type="checkbox"/> 3s Small Flow Treatment Facilities | <input checked="" type="checkbox"/> 4.B. County Planning Agency Review |
| <input type="checkbox"/> 2m. Sewage Management Program | | <input type="checkbox"/> 4.C. County or Joint Health Department Review |

 Municipal Secretary (print)

 Signature

 Date

December 23, 2014

Ms. Colleen M. Smith, Secretary
Shippenville Borough
PO Box 244
106 School Street
Shippenville, PA 16254

and

Ms. Frances M. Taylor, Secretary
Elk Township
10089 Route 208
Knox, PA 16232

Re: Checklist Letter – Planning Module (Component 3 – Sewage Collection and Treatment Facilities)
Shippenville Pump Station
NL-3C
DEP CODE NO. K6-14-040
Shippenville Borough and Elk Township
Clarion County

Dear Ms. Smith and Ms. Taylor:

In response to an application mailer submitted for this project and on behalf of the project owner, this checklist letter outlines what is required to be submitted to the municipality and the Department of Environmental Protection (DEP) as a complete module packet for the proposed development. By way of this letter, the owner/applicant/authorized agent is instructed to download the appropriate forms from the Internet by placing the indicated form numbers from this checklist letter in the “Search” box at www.elibrary.dep.state.us. Please submit the *completed planning modules and supporting information to the municipality(ies) in which the project is located*. DEP must receive two copies (**One must contain original signatures/seals**). Please answer all questions within the planning module. Do not simply answer “N/A” or “Not Applicable”. If you feel a question does not apply, explain all reasons to support that answer.

A copy of this letter should be attached to the planning module when submitted through the municipality to DEP. This letter is to be used by the applicant (or the applicant’s authorized representative) as a checklist and guide to completing the planning modules and does not supersede the rules and regulations found in Chapter 71. The municipality must submit a complete module package. (See end of letter for applicant and municipal certification statements.)

SHIPPENVILLE BOROUGH CHECKLIST

K6-14-040

Applicant Checklist (√ or N/A)	Materials Required to be Included in the Planning Package	DEP Completeness Review
DEP Checklist Letter		
√	DEP checklist letter is attached with items checked off by the applicant (or applicant's authorized representative) as included	
√	DEP checklist letter certification statement completed and signed	
Transmittal Letter (Form 3800-FM-BPNPSM0355)		
√	Transmittal Letter is attached, completed and the appropriate boxes in Section (i) are checked.	
√	Transmittal Letter is signed by the municipal secretary	
Resolution of Adoption (Form 3800-FM-BPNPSM0356)		
√	Resolution of Adoption is attached and completed	
√	Resolution of Adoption is signed by the municipal secretary	
√	Resolution of Adoption has a visible municipal seal	
Component 4A - Municipal Planning Agency Review (Form 3800-FM-BPNPSM0362A)		
√	Component 4A is attached, completed and signed	
N/A	Municipal Responses to Component 4A comments are included	
Component 4B - County Planning Agency Review (Form 3800-FM-BPNPSM0362B)		
√	Component 4B is attached, completed and signed	
N/A	Municipal Responses to Component 4B comments are included	
Component 4C - County or Joint Health Department Review (Form 3800-FM-BPNPSM0362C)		
N/A	Component 4C is attached, completed and signed	
N/A	Municipal Responses to Component 4C comments are included	
Component 3 Sewage Facilities Planning Module (Form 3800-FM-BPNPSM0353)		
<i>Section A: Project Information</i>		
√	Section A.1. The Project Name is completed	
√	Section A.2. The Brief Project Description is completed	
<i>Section B: Client Information</i>		
√	Client Information is completed	
<i>Section C: Site Information</i>		
√	Site Information is completed	
√	A copy of the 7.5 minute USGS Topographic map is attached with the development site outlined, as required by the instructions and the checklist	
<i>Section D: Project Consultant Information</i>		
√	Project Consultant Information is completed	
<i>Section E: Availability of Drinking Water Supply</i>		
√	The appropriate box is checked in Section E	
√	For existing public water supplies, the name of the company is provided	
N/A	For public water supplies, the certification letter from the public water company is attached	
<i>Section F: Project Narrative</i>		
√	The Project Narrative is attached	
√	All information required in the module directions has been addressed	

SHIPPENVILLE BOROUGH CHECKLIST

K6-14-040

<i>Section G: Proposed Wastewater Disposal Facilities</i>		
√	Section G.1.a. The collection system boxes are checked	
√	The Pennsylvania Clean Streams Law (CSL) permit number is provided for existing systems	
√	Section G.1.b. The questions on the collection system are completed	
√	Section G.2.a. The appropriate treatment facility box is checked	
√	For existing treatment facilities, the name is provided	
√	For existing treatment facilities, the NPDES permit number is provided	
√	For existing treatment facilities, the CSL permit number is provided	
N/A	For new treatment facilities, the discharge location is provided	
√	Section G.2.b. The certification statement has been completed and signed by the wastewater treatment facility permittee or their representative	
√	Section G.3. The plot plan is attached and contains all items in the module instructions under Section G.3	
√	The plot plan will show the proposed sewer facilities, sewer extension and/or point of connection to the existing sewer line or point of discharge	
N/A	Copies of easement(s) or right-of-way(s) are attached	
√	Section G.4. The boxes are checked regarding Wetland Protection	
√	Section G.5. The boxes are checked regarding Primary Agricultural Land	
√	Section G.6. The boxes are checked confirming consistency with the Historic Preservation Act	
N/A	The Cultural Resources Notice (CRN) (Form 0120-PM-PY0003) is attached	
N/A	A return receipt for its submission to the PHMC is attached	
N/A	The PHMC review letter is attached	
√	Section G.7. The boxes are checked regarding Pennsylvania Natural Diversity Inventory (PNDI)	
√	Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt is attached	
√	PNDI Review Receipt, if no potential impacts identified, is not older than 2 years	
√	All supporting resolution documentation from jurisdictional agencies (when necessary) is attached and not older than 2 years	
N/A	A completed PNDI Large Project Form (PNDI Form) (Form 8100-FM-FR0161) is attached with all supplemental materials and DEP is requested to complete the search.	
<i>Section H: Alternative Sewage Facilities Analysis</i>		
√	The Alternative Sewage Facilities Analysis is attached	
√	All information required in the module directions has been addressed	

SHIPPENVILLE BOROUGH CHECKLIST

K6-14-040

<i>Section I: Compliance with Water Quality Standards and Effluent Limitations</i>		
N/A	The box is checked regarding Waters Designated for Special Protection	
N/A	The Social or Economic Justification is attached	
N/A	The box is checked regarding Pennsylvania Waters Designated As Impaired	
N/A	The box is checked regarding Interstate and International Waters	
N/A	The box is checked regarding Tributaries to the Chesapeake Bay and the required information is provided	
N/A	The Name of Permittee Agency, Authority, Municipality and the Initials of Responsible Agent are provided	
N/A	If discharge to an intermittent stream, dry swale or manmade ditch is proposed, provide evidence that a certified letter has been sent to each owner of property over which the discharge will flow until perennial conditions are met	
<i>Section J: Chapter 94 Consistency Determination</i>		
√	A map showing the path of the sewage to the treatment facility and the location of the discharge is provided	
√	Section J.1. The Project Flows are provided	
√	Section J.2. The permitted, existing, and projected average and peak flows are provided in the table for collection, conveyance and treatment facilities	
√	Section J.3.a. The appropriate box is checked indicating capacity in the Collection and Conveyance Facilities	
√	Section J.3.b. The Collection System information is completed, signed and dated	
√	Section J.3.b. The Conveyance System information is completed, signed and dated	
√	Section J.4.a. The appropriate box is checked regarding projected overloads at the Treatment Facility	
√	Section J.4.b. The Treatment Facility information is completed, signed and dated	
√	The Permittee of the wastewater treatment facility has submitted a Chapter 94 Wasteload Management Report, which includes the information for the collection and conveyance system to serve this project	
N/A	An acceptable Wasteload Management Report Corrective Action Plan (CAP) and schedule has been submitted, as well as a connection management plan	
N/A	A letter from the permittee, which grants allocations to the project consistent with the CAP, and a copy of the connection management plan has been submitted	
N/A	Letter indicating the treatment plant is an interim regional treatment facility is attached	
<i>Section K: Treatment and Disposal Options</i>		
N/A	For proposed treatment facilities, the appropriate box is checked indicating the selected Treatment and Disposal Option	

SHIPPENVILLE BOROUGH CHECKLIST

K6-14-040

<i>Section L: Permeability Testing</i>		
N/A	The Permeability Testing information is attached	
<i>Section M: Preliminary Hydrogeologic Study</i>		
N/A	The Preliminary Hydrogeologic Study is attached	
N/A	The Preliminary Hydrogeologic Study is signed and sealed by a Professional Geologist	
<i>Section N: Detailed Hydrogeologic Study</i>		
N/A	The Detailed Hydrogeologic Study is attached	
N/A	The Detailed Hydrogeologic Study is signed and sealed by a Professional Geologist	
<i>Section O: Sewage Management</i>		
√	Section O.1. The box is checked indicating municipal or private facilities	
N/A	If municipal, the remainder of Section O is not applicable	
N/A	If private, the required analysis and evaluation of sewage management options is attached	
N/A	Section O.2. The appropriate box is checked regarding the use of nutrient credits or offsets	
N/A	Section O.3. The Project Flows for the private facilities are provided	
N/A	Section O.4.a. The appropriate box is checked indicating capacity in the existing private Collection and Conveyance Facilities	
N/A	Section O.4.b. The private Collection System information is completed, signed and dated	
N/A	Section O.4.c. The private Conveyance System information is completed, signed and dated	
N/A	Section O.5.a. The appropriate box is checked regarding projected overloads at the private Treatment Facility	
N/A	Section O.5.b. The private Treatment Facility information is completed, signed and dated	
N/A	Section O.6. The box is checked indicating the municipality will assure proper operation and maintenance of the proposed private facilities	
N/A	The required documentation of sewage management is attached	
<i>Section P: Public Notification Requirement</i>		
√	All Public Notification boxes in this section are checked	
√	The public notice is attached, if public notification is necessary	
N/A	All comments received as a result of the notice are attached	
N/A	The municipal responses to these comments are attached	
√	The box is checked indicating that no comments were received, if valid	
<i>Section Q: False Swearing Statements</i>		
√	The planning module preparer's false swearing statement is completed and signed	

SHIPPENVILLE BOROUGH CHECKLIST

K6-14-040

<i>Section R: Planning Module Review Fee</i>		
√	The correct fee has been calculated	
√	The correct fee has been paid	
N/A	The request for fee exemption has been checked	
N/A	The deed reference information is provided to support the fee exemption	
<i>Completeness Checklist</i>		
√	The module completeness checklist is included	
√	All completeness items have been checked as included by the municipality, as appropriate	
√	The Municipal Official has signed and dated the checklist	

In all cases, address the immediate and long range sewage disposal needs of the proposal and comply with 25 Pa. Code, Chapter 71, Subchapter C relating to New Land Development Plan Revisions.

If you have any questions concerning the information required, please contact me at 814.797.1191.

Sincerely,

Michelle L. Solida

Michelle L. Solida
 Sewage Planning Specialist 2
 Clean Water Program

CERTIFICATION STATEMENT

I certify that this submittal is complete and includes all requested items. I understand that failure to submit a complete module package may result in a denial of the application.

Signed: _____

Date: _____

Applicant (or Applicant's authorized representative)

Signed: _____

Date: _____

Municipal Secretary, Shippenville Borough (Clarion County)

cc: Michelle L. Solida
 PAWC, Jed Fiscus
 URS, Chris Rogers
 File

December 23, 2014

Ms. Colleen M. Smith, Secretary
Shippenville Borough
PO Box 244
106 School Street
Shippenville, PA 16254

and

Ms. Frances M. Taylor, Secretary
Elk Township
10089 Route 208
Knox, PA 16232

Re: *Checklist Letter – Planning Module (Component 3 – Sewage Collection and Treatment Facilities)*
Shippenville Pump Station
NL-3C
DEP CODE NO. K6-14-040
Shippenville Borough and Elk Township
Clarion County

Dear Ms. Smith and Ms. Taylor:

In response to an application mailer submitted for this project and on behalf of the project owner, this checklist letter outlines what is required to be submitted to the municipality and the Department of Environmental Protection (DEP) as a complete module packet for the proposed development. By way of this letter, the owner/applicant/authorized agent is instructed to download the appropriate forms from the Internet by placing the indicated form numbers from this checklist letter in the "Search" box at www.elibrary.dep.state.us. Please submit the completed planning modules and supporting information to the municipality(ies) in which the project is located. DEP must receive two copies (**One must contain original signatures/seals**). Please answer all questions within the planning module. Do not simply answer "N/A" or "Not Applicable". If you feel a question does not apply, explain all reasons to support that answer.

A copy of this letter should be attached to the planning module when submitted through the municipality to DEP. This letter is to be used by the applicant (or the applicant's authorized representative) as a checklist and guide to completing the planning modules and does not supersede the rules and regulations found in Chapter 71. The municipality must submit a complete module package. (See end of letter for applicant and municipal certification statements.)

ELK TOWNSHIP CHECKLIST

K6-14-040

Applicant Checklist (√ or N/A)	Materials Required to be Included in the Planning Package	DEP Completeness Review
DEP Checklist Letter		
√	DEP checklist letter is attached with items checked off by the applicant (or applicant's authorized representative) as included	
√	DEP checklist letter certification statement completed and signed	
Transmittal Letter (Form 3800-FM-BPNPSM0355)		
√	Transmittal Letter is attached, completed and the appropriate boxes in Section (i) are checked.	
√	Transmittal Letter is signed by the municipal secretary	
Resolution of Adoption (Form 3800-FM-BPNPSM0356)		
√	Resolution of Adoption is attached and completed	
√	Resolution of Adoption is signed by the municipal secretary	
√	Resolution of Adoption has a visible municipal seal	
Component 4A - Municipal Planning Agency Review (Form 3800-FM-BPNPSM0362A)		
N/A	Component 4A is attached, completed and signed	
N/A	Municipal Responses to Component 4A comments are included	
Component 4B - County Planning Agency Review (Form 3800-FM-BPNPSM0362B)		
√	Component 4B is attached, completed and signed	
N/A	Municipal Responses to Component 4B comments are included	
Component 4C - County or Joint Health Department Review (Form 3800-FM-BPNPSM0362C)		
N/A	Component 4C is attached, completed and signed	
N/A	Municipal Responses to Component 4C comments are included	
Component 3 Sewage Facilities Planning Module (Form 3800-FM-BPNPSM0353)		
Section A: Project Information		
√	Section A.1. The Project Name is completed	
√	Section A.2. The Brief Project Description is completed	
Section B: Client Information		
√	Client Information is completed	
Section C: Site Information		
√	Site Information is completed	
√	A copy of the 7.5 minute USGS Topographic map is attached with the development site outlined, as required by the instructions and the checklist	
Section D: Project Consultant Information		
√	Project Consultant Information is completed	
Section E: Availability of Drinking Water Supply		
√	The appropriate box is checked in Section E	
√	For existing public water supplies, the name of the company is provided	
N/A	For public water supplies, the certification letter from the public water company is attached	
Section F: Project Narrative		
√	The Project Narrative is attached	
√	All information required in the module directions has been addressed	

Section G: Proposed Wastewater Disposal Facilities		
√	Section G.1.a. The collection system boxes are checked	
√	The Pennsylvania Clean Streams Law (CSL) permit number is provided for existing systems	
√	Section G.1.b. The questions on the collection system are completed	
√	Section G.2.a. The appropriate treatment facility box is checked	
√	For existing treatment facilities, the name is provided	
√	For existing treatment facilities, the NPDES permit number is provided	
√	For existing treatment facilities, the CSL permit number is provided	
N/A	For new treatment facilities, the discharge location is provided	
√	Section G.2.b. The certification statement has been completed and signed by the wastewater treatment facility permittee or their representative	
√	Section G.3. The plot plan is attached and contains all items in the module instructions under Section G.3	
√	The plot plan will show the proposed sewer facilities, sewer extension and/or point of connection to the existing sewer line or point of discharge	
N/A	Copies of easement(s) or right-of-way(s) are attached	
√	Section G.4. The boxes are checked regarding Wetland Protection	
√	Section G.5. The boxes are checked regarding Primary Agricultural Land	
√	Section G.6. The boxes are checked confirming consistency with the Historic Preservation Act	
N/A	The Cultural Resources Notice (CRN) (Form 0120-PM-PY0003) is attached	
N/A	A return receipt for its submission to the PHMC is attached	
N/A	The PHMC review letter is attached	
√	Section G.7. The boxes are checked regarding Pennsylvania Natural Diversity Inventory (PNDI)	
√	Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt is attached	
√	PNDI Review Receipt, if no potential impacts identified, is not older than 2 years	
√	All supporting resolution documentation from jurisdictional agencies (when necessary) is attached and not older than 2 years	
N/A	A completed PNDI Large Project Form (PNDI Form) (Form 8100-FM-FR0161) is attached with all supplemental materials and DEP is requested to complete the search.	
Section H: Alternative Sewage Facilities Analysis		
√	The Alternative Sewage Facilities Analysis is attached	
√	All information required in the module directions has been addressed	

Section I: Compliance with Water Quality Standards and Effluent Limitations		
N/A	The box is checked regarding Waters Designated for Special Protection	
N/A	The Social or Economic Justification is attached	
N/A	The box is checked regarding Pennsylvania Waters Designated As Impaired	
N/A	The box is checked regarding Interstate and International Waters	
N/A	The box is checked regarding Tributaries to the Chesapeake Bay and the required information is provided	
N/A	The Name of Permittee Agency, Authority, Municipality and the Initials of Responsible Agent are provided	
N/A	If discharge to an intermittent stream, dry swale or manmade ditch is proposed, provide evidence that a certified letter has been sent to each owner of property over which the discharge will flow until perennial conditions are met	
Section J: Chapter 94 Consistency Determination		
√	A map showing the path of the sewage to the treatment facility and the location of the discharge is provided	
√	Section J.1. The Project Flows are provided	
√	Section J.2. The permitted, existing, and projected average and peak flows are provided in the table for collection, conveyance and treatment facilities	
√	Section J.3.a. The appropriate box is checked indicating capacity in the Collection and Conveyance Facilities	
√	Section J.3.b. The Collection System information is completed, signed and dated	
√	Section J.3.b. The Conveyance System information is completed, signed and dated	
√	Section J.4.a. The appropriate box is checked regarding projected overloads at the Treatment Facility	
√	Section J.4.b. The Treatment Facility information is completed, signed and dated	
√	The Permittee of the wastewater treatment facility has submitted a Chapter 94 Wasteload Management Report, which includes the information for the collection and conveyance system to serve this project	
N/A	An acceptable Wasteload Management Report Corrective Action Plan (CAP) and schedule has been submitted, as well as a connection management plan	
N/A	A letter from the permittee, which grants allocations to the project consistent with the CAP, and a copy of the connection management plan has been submitted	
N/A	Letter indicating the treatment plant is an interim regional treatment facility is attached	
Section K: Treatment and Disposal Options		
N/A	For proposed treatment facilities, the appropriate box is checked indicating the selected Treatment and Disposal Option	

ELK TOWNSHIP CHECKLIST

K6-14-040

Section L: Permeability Testing		
N/A	The Permeability Testing information is attached	
Section M: Preliminary Hydrogeologic Study		
N/A	The Preliminary Hydrogeologic Study is attached	
N/A	The Preliminary Hydrogeologic Study is signed and sealed by a Professional Geologist	
Section N: Detailed Hydrogeologic Study		
N/A	The Detailed Hydrogeologic Study is attached	
N/A	The Detailed Hydrogeologic Study is signed and sealed by a Professional Geologist	
Section O: Sewage Management		
√	Section O.1. The box is checked indicating municipal or private facilities	
N/A	If municipal, the remainder of Section O is not applicable	
N/A	If private, the required analysis and evaluation of sewage management options is attached	
N/A	Section O.2. The appropriate box is checked regarding the use of nutrient credits or offsets	
N/A	Section O.3. The Project Flows for the private facilities are provided	
N/A	Section O.4.a. The appropriate box is checked indicating capacity in the existing private Collection and Conveyance Facilities	
N/A	Section O.4.b. The private Collection System information is completed, signed and dated	
N/A	Section O.4.c. The private Conveyance System information is completed, signed and dated	
N/A	Section O.5.a. The appropriate box is checked regarding projected overloads at the private Treatment Facility	
N/A	Section O.5.b. The private Treatment Facility information is completed, signed and dated	
N/A	Section O.6. The box is checked indicating the municipality will assure proper operation and maintenance of the proposed private facilities	
N/A	The required documentation of sewage management is attached	
Section P: Public Notification Requirement		
√	All Public Notification boxes in this section are checked	
√	The public notice is attached, if public notification is necessary	
N/A	All comments received as a result of the notice are attached	
N/A	The municipal responses to these comments are attached	
√	The box is checked indicating that no comments were received, if valid	
Section Q: False Swearing Statements		
√	The planning module preparer's false swearing statement is completed and signed	

Section R: Planning Module Review Fee		
N/A	The correct fee has been calculated	
N/A	The correct fee has been paid	
N/A	The request for fee exemption has been checked	
N/A	The deed reference information is provided to support the fee exemption	
Completeness Checklist		
√	The module completeness checklist is included	
√	All completeness items have been checked as included by the municipality, as appropriate	
√	The Municipal Official has signed and dated the checklist	

In all cases, address the immediate and long range sewage disposal needs of the proposal and comply with 25 Pa. Code, Chapter 71, Subchapter C relating to New Land Development Plan Revisions.

If you have any questions concerning the information required, please contact me at 814.797.1191.

Sincerely,

Michelle L. Solida

Michelle L. Solida
 Sewage Planning Specialist 2
 Clean Water Program

CERTIFICATION STATEMENT

I certify that this submittal is complete and includes all requested items. I understand that failure to submit a complete module package may result in a denial of the application.

Signed: _____
Applicant (or Applicant's authorized representative)

Date: _____

Signed: _____
Municipal Secretary, Elk Township (Clarion County)

Date: _____

cc: Michelle L. Solida
 PAWC, Jed Fiscus
 URS, Chris Rogers
 File

RESOLUTIONS OF ADOPTION

RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE COUNCIL of SHIPPENVILLE BOROUGH, CLARION COUNTY, PENNSYLVANIA
(hereinafter "the municipality").

WHEREAS Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act", as Amended, and the rules and Regulations of the Pennsylvania Department of Environmental Protection (Department) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to determine whether a proposed method of sewage disposal for a new land development conforms to a comprehensive program of pollution control and water quality management, and

WHEREAS Pennsylvania American Water has proposed a sewage conveyance project identified as
developer

Shippenville - Paint Elk Sewage System Interconnection, and described in the attached Sewage Facilities Planning
name of project

Module, and proposes that such project will decommission the existing Shippenville Wastewater Treatment Plant (WWTP) and construct a new pump station on the WWTP site to convey sewage flows to the Paint-Elk sewerage system presently owned by Pennsylvania American Water; The entire Shippenville sewerage system is to be transferred from Shippenville Borough to Pennsylvania American Water.

WHEREAS, Shippenville Borough finds that the project described in the attached
municipality

Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the Council of the Borough of Shippenville hereby adopt and submit to the Department of Environmental Protection for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

I _____, Secretary, Shippenville Borough Council, hereby certify
(Signature)

that the foregoing is a true copy of the Borough Resolution # _____, adopted, _____, 20____.

Municipal Address:

Seal of
Governing Body

Telephone _____

RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE SUPERVISORS of ELK TOWNSHIP, CLARION COUNTY, PENNSYLVANIA
(hereinafter "the municipality").

WHEREAS Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act", as Amended, and the rules and Regulations of the Pennsylvania Department of Environmental Protection (Department) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to determine whether a proposed method of sewage disposal for a new land development conforms to a comprehensive program of pollution control and water quality management, and

WHEREAS Pennsylvania American Water has proposed a sewage conveyance project identified as
developer

Shippenville - Paint Elk Sewage System Interconnection, and described in the attached Sewage Facilities Planning
name of project

Module, and proposes that such project will decommission the existing Shippenville Wastewater Treatment Plant (WWTP) and construct a new pump station on the WWTP site to convey sewage flows to the Paint-Elk sewerage system owned by Pennsylvania American Water; The entire Shippenville sewerage system is to be transferred from Shippenville Borough to Pennsylvania American Water.

WHEREAS, ELK TOWNSHIP _____ finds that the project described in the attached
municipality

Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the Supervisors of the Township of Elk hereby adopt and submit to the Department of Environmental Protection for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

I _____, Secretary, Elk Township Board of Supervisors, hereby certify
(Signature)

that the foregoing is a true copy of the Township Resolution # _____, adopted, _____, 20____.

Municipal Address:

Seal of
Governing Body

Telephone _____

**COMPONENT 3 PLANNING MODULE COMPLETENESS
CHECKLIST**



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

Completeness Checklist

The individual completing the component should use the checklist below to assure that all items are included in the module package. The municipality should confirm that the required items have been included within 10 days of receipt, and if complete, sign and date the checklist.

Sewage Collection and Treatment Facilities

- Name and Address of land development project.
- U.S.G.S. 7.5 minute topographic map with development area plotted.
- Project Narrative.
- Letter from water company (if applicable). N/A
- Alternative Analysis Narrative.
- Details of chosen financial assurance method. N/A
- Proof of Public Notification (if applicable).
- Name of existing collection and conveyance facilities.
- Name and NPDES number of existing treatment facility to serve proposed development.
- Plot plan of project with required information.
- Total sewage flows to facilities table.
- Signature of existing collection and/or conveyance Chapter 94 report preparer.
- Signature of existing treatment facility Chapter 94 report preparer.
- Letter granting allocation to project (if applicable). N/A
- Signature acknowledging False Swearing Statement.
- Completed Component 4 (Planning Agency Review) for each existing planning agency and health department.
- Information on selected treatment and disposal option.
- Permeability information (if applicable). N/A
- Preliminary hydrogeology (if applicable). N/A
- Detailed hydrogeology (if applicable). N/A

Municipal Action

- Component 3 (Sewage Collection and Treatment Facilities).
- Component 4 (Planning Agency Comments and Responses).
- Proof of Public Notification.
- Long-term operation and maintenance option selection. N/A
- Comments, and responses to comments generated by public notification. N/A
- Transmittal Letter

Signature of Municipal Official

Date submittal determined complete

COMPONENT 3 PLANNING MODULE FORM



Code No. K6-14-040

SEWAGE FACILITIES PLANNING MODULE

Component 3. Sewage Collection and Treatment Facilities (Return completed module package to appropriate municipality)

DEP USE ONLY				
DEP CODE #	CLIENT ID #	SITE ID #	APS ID #	AUTH ID #

This planning module component is used to fulfill the planning requirements of Act 537 for the following types of projects: (1) a subdivision to be served by sewage collection, conveyance or treatment facilities, (2) a tap-in to an existing collection system with flows on a lot of 2 EDU's or more, or (3) the construction of, or modification to, wastewater collection, conveyance or treatment facilities that will require DEP to issue or modify a Clean Streams Law permit. Planning for any project that will require DEP to issue or modify a permit cannot be processed by a delegated agency. Delegated agencies must send their projects to DEP for final planning approval.

This component, along with any other documents specified in the cover letter, must be completed and submitted to the municipality with jurisdiction over the project site for review and approval. All required documentation must be attached for the Sewage Facilities Planning Module to be complete. Refer to the instructions for help in completing this component.

REVIEW FEES: Amendments to the Sewage Facilities Act established fees to be paid by the developer for review of planning modules for land development. These fees may vary depending on the approving agency for the project (DEP or delegated local agency). Please see section R and the instructions for more information on these fees.

NOTE: All projects must complete Sections A through I, and Sections O through R. Complete Sections J, K, L, M and/or N if applicable or marked .

A. PROJECT INFORMATION (See Section A of instructions)

1. Project Name Shipperville – Paint Elk Sewage System Interconnection

2. Brief Project Description The project involves the decommissioning of the Shipperville Borough Wastewater Treatment Plant (WWTP) and construction of a pump station and force main to convey the sewage from Shipperville Borough to the Paint-Elk collection and conveyance system for treatment at the Paint-Elk WWTP. See Project Narrative for additional detail.

B.1 CLIENT (MUNICIPALITY) INFORMATION (See Section B of instructions)

Municipality Name	County	City	Boro	Twp
Shipperville Borough	Clarion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Stump	Rebecca	J		Secretary
Additional Individual Last Name	First Name	MI	Suffix	Title
Municipality Mailing Address Line 1		Mailing Address Line 2		
P.O. Box 244		106 North School Street		
Address Last Line -- City		State	ZIP+4	
Shipperville		PA	16254	
Area Code + Phone + Ext.	FAX (optional)	Email (optional)		
814-782-3321	814-782-3331	Shpnrvilleboro @atlanticbb.net		

B.2 CLIENT (MUNICIPALITY) INFORMATION (See Section B of instructions)

Municipality Name	County	City	Boro	Twp
Elk Township	Clarion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Taylor	Francis	M		Secretary
Additional Individual Last Name	First Name	MI	Suffix	Title
Municipality Mailing Address Line 1	Mailing Address Line 2			
10089 Route 208				
Address Last Line -- City	State	ZIP+4		
Knox	PA	16232		
Area Code + Phone + Ext.	FAX (optional)	Email (optional)		
814-782-3704				

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name
Shipperville -Paint Elk Sewage System Interconnection

Site Location Line 1	Site Location Line 2			
PA Route 208				
Site Location Last Line -- City	State	ZIP+4	Latitude	Longitude
Shipperville	PA	16254	41°14'47.1"N	-79°28'1.6"W

Detailed Written Directions to Site From Meadville, head east on US Route 322 approximately 50 miles to Shipperville Borough. In Shipperville Borough, turn south (right) on PA Route 208 and proceed approximately 0.4 miles. Existing WWTP is on the left and is the proposed location of the pump station.

Description of Site The pump station site is presently used for the Shipperville Wastewater Treatment Plant facilities. The force main will be located in existing road rights-of-way and sewer easements.

Site Contact (Developer/Owner)

Last Name	First Name	MI	Suffix	Phone	Ext.
Fiscus	Jed	A	P.E.	814-226-9083	4302
Site Contact Title	Site Contact Firm (if none, leave blank)				
Engineering Project Manager	Pennsylvania American Water				
FAX	Email				
814-226-4275	jed.fiscus@amwater.com				
Mailing Address Line 1	Mailing Address Line 2				
425 Waterworks Road					
Mailing Address Last Line -- City	State	ZIP+4			
Clarion	PA	16214			

D. PROJECT CONSULTANT INFORMATION (See Section D of instructions)

Last Name	First Name	MI	Suffix
Corbett	Stan		
Title	Consulting Firm Name		
Senior Planner	AECOM		
Mailing Address Line 1	Mailing Address Line 2		
Sabre Building	4051 Ogletown Road, Suite 300		
Address Last Line -- City	State	ZIP+4	Country
Newark	DE	19713	USA
Email	Area Code + Phone	Ext.	Area Code + FAX
stan.corbett@aecom.com	302-781-5886		302-781-5901

E. AVAILABILITY OF DRINKING WATER SUPPLY

The project will be provided with drinking water from the following source: (Check appropriate box)

- Individual wells or cisterns.
- A proposed public water supply.
- An existing public water supply.

If existing public water supply is to be used, provide the name of the water company and attach documentation from the water company stating that it will serve the project. **Note: No new land development requiring a water supply is proposed and no water company documentation addressing project water service is applicable. Existing uses served by the project wastewater facilities utilize a public water supply owned by the Pennsylvania American Water, Applicant for this project.**

Name of water company: Pennsylvania American Water

F. PROJECT NARRATIVE (See Section F of instructions)

- A narrative has been prepared as described in Section F of the instructions and is attached.

The applicant may choose to include additional information beyond that required by Section F of the instructions.

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (See Section G of instructions)

Check all boxes that apply, and provide information on collection, conveyance and treatment facilities and EDU's served. This information will be used to determine consistency with Chapter 93 (relating to wastewater treatment requirements).

1. COLLECTION SYSTEM

a. Check appropriate box concerning collection system

- New collection system Pump Station Force Main
- Grinder pump(s) Extension to existing collection system Expansion of existing facility

Clean Streams Law Permit Number WQM permit No. 1690402

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. 250 EDUs at 400
gpd/EDU

Connections 1

Name of:

existing collection or conveyance system Paint-Elk Sewage Collection System

owner Pennsylvania American Water

existing interceptor _____

owner Pennsylvania American Water

2. WASTEWATER TREATMENT FACILITY

Check all boxes that apply, and provide information on collection, conveyance and treatment facilities and EDU's served. This information will be used to determine consistency with Chapter(s) 91 (relating to general provisions), 92 (relating to national Pollution Discharge Elimination System permitting, monitoring and compliance) and 93 (relating to water quality standards).

a. Check appropriate box and provide requested information concerning the treatment facility

- New facility Existing facility Upgrade of existing facility Expansion of existing facility

Name of existing facility Paint-Elk Wastewater Treatment Plant

NPDES Permit Number for existing facility PA0034924

Clean Streams Law Permit Number WQM Permit #1690402

Location of discharge point for a new facility. Latitude _____ Longitude _____

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)

5. PRIME AGRICULTURAL LAND PROTECTION

YES NO

- Will the project involve the disturbance of prime agricultural lands? **Note: All disturbance will occur within existing road rights-of-way and on lands previously disturbed by WWTP construction.**

If yes, coordinate with local officials to resolve any conflicts with the local prime agricultural land protection program. The project must be consistent with such municipal programs before the sewage facilities planning module package may be submitted to DEP.

If no, prime agricultural land protection is not a factor to this project.

- Have prime agricultural land protection issues been settled?

6. HISTORIC PRESERVATION ACT

YES NO

- Sufficient documentation is attached to confirm that this project is consistent with DEP Technical Guidance 012-0700-001 **Implementation of the PA State History Code** (available online at the DEP Web site at www.dep.state.pa.us, select "subject" then select "technical guidance"). As a minimum this includes copies of the completed Cultural Resources Notice (CRN), a return receipt for its submission to the PHMC and the PHMC review letter. **Not Applicable – total proposed earth disturbance is approximately 2.4 acres, less than the 10 acre threshold for PHMC review.**

7. PROTECTION OF RARE, ENDANGERED OR THREATENED SPECIES

Check one:

- The "Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt" resulting from my search of the PNDI database and all supporting documentation from jurisdictional agencies (when necessary) is/are attached.
- A completed "Pennsylvania Natural Diversity Inventory (PNDI) Project Planning & Environmental Review Form," (PNDI Form) available at www.naturalheritage.state.pa.us, and all required supporting documentation is attached. I request DEP staff to complete the required PNDI search for my project. I realize that my planning module will be considered incomplete upon submission to the Department and that the DEP review will not begin, and that processing of my planning module will be delayed, until a "PNDI Project Environmental Review Receipt" and all supporting documentation from jurisdictional agencies (when necessary) is/are received by DEP.

Applicant or Consultant Initials _____.

H. ALTERNATIVE SEWAGE FACILITIES ANALYSIS (See Section H of instructions)

- An alternative sewage facilities analysis has been prepared as described in Section H of the attached instructions and is attached to this component.

The applicant may choose to include additional information beyond that required by Section H of the attached instructions.

I. COMPLIANCE WITH WATER QUALITY STANDARDS AND EFFLUENT LIMITATIONS (See Section I of instructions) (Check and complete all that apply.)

1. Waters designated for Special Protection

- The proposed project will result in a new or increased discharge into special protection waters as identified in Title 25, Pennsylvania Code, Chapter 93. The Social or Economic Justification (SEJ) required by Section 93.4c. is attached.

2. Pennsylvania Waters Designated As Impaired

- The proposed project will result in a new or increased discharge of a pollutant into waters that DEP has identified as being impaired by that pollutant. A pre-planning meeting was held with the appropriate DEP regional office staff to discuss water quality based discharge limitations.

3. Interstate and International Waters

- The proposed project will result in a new or increased discharge into interstate or international waters. A pre-planning meeting was held with the appropriate DEP regional office staff to discuss effluent limitations necessary to meet the requirements of the interstate or international compact.

4. Tributaries To The Chesapeake Bay

- The proposed project result in a new or increased discharge of sewage into a tributary to the Chesapeake Bay. This proposal for a new sewage treatment facility or new flows to an existing facility includes total nitrogen and total phosphorus in the following amounts: _____ pounds of TN per year, and _____ pounds of TP per year. Based on the process design and effluent limits, the total nitrogen treatment capacity of the wastewater treatment facility is _____ pounds per year and the total phosphorus capacity is _____ pounds per year as determined by the wastewater treatment facility permittee. The permittee has determined that the additional TN and TP to be contributed by this project (as modified by credits and/or offsets to be provided) will not cause the discharge to exceed the annual total mass limits for these parameters. Documentation of compliance with nutrient allocations is attached.

Name of Permittee Agency, Authority, Municipality _____

Initials of Responsible Agent (See Section G 2.b) _____

See **Special Instructions** (Form 3800-FM-WSFR0353-1) for additional information on Chesapeake Bay watershed requirements.

N. DETAILED HYDROGEOLOGIC STUDY (See Section N of instructions)

The detailed hydrogeologic information required in Section N. of the instructions is attached.

O. SEWAGE MANAGEMENT (See Section O of instructions)

(1-3 for completion by the developer(project sponser), 4-5 for completion by the non-municipal facility agent and 6 for completion by the municipality)

Yes No

1. Is connection to, or construction of, a DEP permitted, non-municipal sewage facility or a local agency permitted, community onlot sewage facility proposed.

If Yes, respond to the following questions, attach the supporting analysis, and an evaluation of the options available to assure long-term proper operation and maintenance of the proposed non-municipal facilities. If No, skip the remainder of Section O.

2. Project Flows _____ gpd

Yes No

3. Is the use of nutrient credits or offsets a part of this project?

If yes, attach a letter of intent to purchase the necessary credits and describe the assurance that these credits and offsets will be available for the remaining design life of the non-municipal sewage facility;

(For completion by non-municipal facility agent)

4. Collection and Conveyance Facilities

The questions below are to be answered by the organization/individual responsible for the non-municipal collection and conveyance facilities. The individual(s) signing below must be legally authorized to make representation for the organization.

Yes No

- a. If this project proposes sewer extensions or tap-ins, will these actions create a hydraulic overload on any existing collection or conveyance facilities that are part of the system?

If yes, this sewage facilities planning module will not be accepted for review by the municipality, delegated local agency and/or DEP until this issue is resolved.

If no, a representative of the organization responsible for the collection and conveyance facilities must sign below to indicate that the collection and conveyance facilities have adequate capacity and are able to provide service to the proposed development in accordance with Chapter 71 §71.53(d)(3) and that this proposal will not affect that status.

- b. Collection System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

- c. Conveyance System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

5. Treatment Facility

The questions below are to be answered by a representative of the facility permittee. The individual signing below must be legally authorized to make representation for the organization.

Yes No

- a. If this project proposes the use of an existing non-municipal wastewater treatment plant for the disposal of sewage, will this action create a hydraulic or organic overload at that facility?

If yes, this planning module for sewage facilities will not be reviewed by the municipality, delegated local agency and/or DEP until this issue is resolved.

If no, the treatment facility permittee must sign below to indicate that this facility has adequate treatment capacity and is able to provide wastewater treatment services for the proposed development in accordance with §71.53(d)(3) and that this proposal will not impact that status.

- b. Name of Facility _____
Name of Responsible Agent _____
Agent Signature _____
Date _____

(For completion by the municipality)

6. The **SELECTED OPTION** necessary to assure long-term proper operation and maintenance of the proposed non-municipal facilities is clearly identified with documentation attached in the planning module package.

P. PUBLIC NOTIFICATION REQUIREMENT (See Section P of instructions)

This section must be completed to determine if the applicant will be required to publish facts about the project in a newspaper of general circulation to provide a chance for the general public to comment on proposed new land development projects. This notice may be provided by the applicant or the applicant's agent, the municipality or the local agency by publication in a newspaper of general circulation within the municipality affected. Where an applicant or an applicant's agent provides the required notice for publication, the applicant or applicant's agent shall notify the municipality or local agency and the municipality and local agency will be relieved of the obligation to publish. The required content of the publication notice is found in Section P of the instructions.

To complete this section, each of the following questions must be answered with a "yes" or "no". Newspaper publication is required if any of the following are answered "yes".

Yes No


1. Does the project propose the construction of a sewage treatment facility ?
2. Will the project change the flow at an existing sewage treatment facility by more than 50,000 gallons per day?
3. Will the project result in a public expenditure for the sewage facilities portion of the project in excess of \$100,000?
4. Will the project lead to a major modification of the existing municipal administrative organizations within the municipal government?
5. Will the project require the establishment of new municipal administrative organizations within the municipal government?
6. Will the project result in a subdivision of 50 lots or more? (onlot sewage disposal only)

P. PUBLIC NOTIFICATION REQUIREMENT cont'd. (See Section P of instructions)

- 7. Does the project involve a major change in established growth projections?
 - 8. Does the project involve a different land use pattern than that established in the municipality's Official Sewage Plan?
 - 9. Does the project involve the use of large volume onlot sewage disposal systems (Flow > 10,000 gpd)?
 - 10. Does the project require resolution of a conflict between the proposed alternative and consistency requirements contained in §71.21(a)(5)(i), (ii), (iii)?
 - 11. Will sewage facilities discharge into high quality or exceptional value waters?
- Attached is a copy of:
- the public notice,
 - all comments received as a result of the notice,
 - the municipal response to these comments.
- No comments were received. A copy of the public notice is attached.

Q. FALSE SWEARING STATEMENT (See Section Q of instructions)

I verify that the statements made in this component are true and correct to the best of my knowledge, information and belief. I understand that false statements in this component are made subject to the penalties of 18 PA C.S.A. §4904 relating to unsworn falsification to authorities.

Stan Corbett	
Name (Print)	Signature
Senior Planner	4/17/15
Title	Date
AECOM Sabre Building, 4051 Ogletown Rd., Suite 300 Newark, DE 19713	302-781-5886
Address	Telephone Number

R. REVIEW FEE (See Section R of instructions)

The Sewage Facilities Act establishes a fee for the DEP planning module review. DEP will calculate the review fee for the project and invoice the project sponsor OR the project sponsor may attach a self-calculated fee payment to the planning module prior to submission of the planning package to DEP. (Since the fee and fee collection procedures may vary if a "delegated local agency" is conducting the review, the project sponsor should contact the "delegated local agency" to determine these details.) Check the appropriate box.

- I request DEP calculate the review fee for my project and send me an invoice for the correct amount. I understand DEP's review of my project will not begin until DEP receives the correct review fee from me for the project.
- I have calculated the review fee for my project using the formula found below and the review fee guidance in the instructions. I have attached a check or money order in the amount of \$500.00 payable to "Commonwealth of PA, DEP". Include DEP code number on check. I understand DEP will not begin review of my project unless it receives the fee and determines the fee is correct. If the fee is incorrect, DEP will return my check or money order, send me an invoice for the correct amount. I understand DEP review will NOT begin until I have submitted the correct fee.
- I request to be exempt from the DEP planning module review fee because this planning module creates **only** one new lot and is the **only** lot subdivided from a parcel of land as that land existed on December 14, 1995. I realize that subdivision of a second lot from this parcel of land shall disqualify me from this review fee exemption. I am furnishing the following deed reference information in support of my fee exemption.

County Recorder of Deeds for _____ County, Pennsylvania Deed Volume _____

Book Number _____ Page Number _____ Date Recorded _____

R. REVIEW FEE (continued)

Formula:

1. For a new collection system (with or without a Clean Streams Law Permit), a collection system extension, or individual tap-ins to an existing collection system use this formula.

$$\# \text{ _____ Lots (or EDUs) X } \$50.00 = \$ \text{ _____}$$

The fee is based upon:

- The number of lots created or number of EDUs whichever is higher.
- For community sewer system projects, one EDU is equal to a sewage flow of 400 gallons per day.

2. For a surface or subsurface discharge system, use the appropriate one of these formulae.

- A. A new surface discharge greater than 2000 gpd will use a flat fee:

\$ 1,500 per submittal (non-municipal)
\$ 500 per submittal (municipal)

- B. An increase in an existing surface discharge will use:

$$\# \text{ _____ Lots (or EDUs) X } \$35.00 = \$ \text{ _____}$$

to a maximum of \$ 1,500 per submittal (non-municipal) or \$ 500 per submittal (municipal)

The fee is based upon:

- The number of lots created or number of EDUs whichever is higher.
- For community sewage system projects one EDU is equal to a sewage flow of 400 gallons per day.
- For non-single family residential projects, EDUs are calculated using projected population figures

- C. A sub-surface discharge system that requires a permit under The Clean Streams Law will use a flat fee:

\$ 1,500 per submittal (non-municipal)
\$ 500 per submittal (municipal)

PROJECT NARRATIVE

SECTION F. PROJECT NARRATIVE

A narrative description of the project is presented below based upon the content requirements as specified in the DEP document entitled "Instructions for Completing Component 3 Sewage Collection and Treatment Facilities". These content requirements are listed in italic text below, with project information inserted after each item.

1. *Indicate the nature of the development project. (Residential, Commercial, Institutional, Industrial, etc.) If the project is commercial, institutional or industrial, describe the activity, such as light manufacturing, private hospital, or heavy manufacturing.*

The project involves the decommissioning of the Shippenville Borough Wastewater Treatment Plant (WWTP) and construction of a pump station and force main to convey the sewage from Shippenville Borough to the Paint-Elk collection and conveyance system for treatment at the Paint-Elk WWTP. The proposed pump station will be constructed on the same site as the existing Shippenville Borough WWTP and within the area previously disturbed by WWTP construction. The proposed force main will convey the sewage via existing sewer easements, existing road rights-of-way and lands owned by Pennsylvania American Water (PAW) to an existing gravity main of the PAW owned Paint-Elk system.

In addition, the project includes upgrades to the receiving gravity main in the Paint-Elk system. These upgrades are needed to accommodate the flows from the Shippenville pump station while allowing for additional future growth commensurate with the permitted capacity of the Paint-Elk WWTP. All earth disturbance for the gravity sewer upgrades will be confined to the existing gravity sewer locations.

A more detailed technical discussion of the proposed improvements can be found in the Chapter 94 Consistency Narrative section of this Planning Module. The proposed improvements are illustrated on Figure 1.

As previously noted, the Paint-Elk sewerage system is currently owned by PAW. This project also provides for transference of the entire Shippenville Borough sewerage system from Shippenville Borough to PAW.

No new land development is proposed but various uses (residential, commercial, etc.) are anticipated to be served in the future by the proposed improvements.

2. *Enter the number of lots or EDUs in the development project. Lots refer to single family residential dwellings and for purposes of flow calculation are assumed to generate a minimum of 400 gallons per day (gpd). If larger residential flows are anticipated, these flows should be used. The residual tract, if any, is also counted as a lot. For commercial, industrial, and institutional facilities, the number of lots in a subdivision is determined by using EDUs. Divide the total flow for these facilities by 400 to determine the number of EDUs.*

The existing Shippenville WWTP is currently permitted for 50,000 gallons per day (gpd) via NPDES Permit PA0103276, WQM Permit No. 1606404. Existing average daily flows are approximately 32,000 gpd per the Shippenville Borough 2013 Chapter 94 Report. According to the document titled "Act 537 Sewage Facilities Plan Revision, Borough of Shippenville, Clarion County, PA, Revised July 2012" (Shippenville Act 537 Plan) which was approved by DEP letter dated September 28, 2012, the total projected wastewater needs to be served by the Borough's WWTP are 100,000 gpd. Consistent with the approved Shippenville Act 537 Plan, the current project proposes that a total future projected flow of 100,000 gpd will be conveyed to the Paint-Elk WWTP. Using 400 gpd/EDU, 100,000 gpd would equate to 250 EDU's. Current Shippenville WWTP permitted and average daily flows would equate to 125 and 80 EDU's respectively.

No land development is proposed and discussion relating to number of lots, residual tract, and type of use is consequently not applicable.

3. *Describe the proposed sewage disposal method (municipal treatment facility, package plant, etc.) including a description of collection and conveyance facilities, if applicable. Include a general map showing the path of the sewage to the treatment facility.*

The proposed sewage disposal method is treatment and disposal at the Paint-Elk WWTP currently owned by PAW. The Paint-Elk Treatment Plant is permitted for 600,000 gpd via NPDES Permit PA0034924, WQM Permit No. 1690402. The method of conveying the sewage to the Paint-Elk WWTP is described in response to item 1 above and the conveyance path to the treatment facility is illustrated on Figure 1.

4. *Specify the projected population to be served and sewage flows in gpd and how these figures were calculated. Flow figures should be consistent with those found in DEP's Domestic Wastewater Facilities Manual available on the DEP website at www.dep.state.pa.us, Keyword: "Wastewater" unless adequate justification for lower per capita flows is provided and/or has been previously approved by DEP.*

The projected population to be served and projected total sewage flows are as specified in the approved Shippenville Act 537 Plan. Specifically, Tables 4.5 and 4.9 on pages 13 and 16 respectively of the Shippenville Act 537 Plan listed additional EDUs and projected sewage flows in support of a total 100,000 gpd capacity need. The September 28, 2012 DEP approval letter for the Shippenville Act 537 Plan further memorialized the total 100,000 gpd capacity needs. Copies of the noted Shippenville Act 537 Plan pages and the DEP approval letter are inserted after this Project Narrative.

5. *Describe the location of the discharge, disposal point or land application, if applicable.*

The disposal point for the planned flows as described above is the Paint-Elk WWTP which discharges to the Paint Creek per NPDES Permit PA0034924, WQM Permit No. 1690402.

6. *List the total acreage of the proposed land development project.*

The total acreage of the proposed land development is not applicable in that this planning module addresses the conveyance of sewage from the Borough of Shippenville to the Paint-Elk WWTP and not a new land development.

7. *Describe the use of any acreage or parcels under the same ownership and adjacent to the property. (Such as: for future development, recreational, agriculture, open space, etc.) If the land is proposed for future development, or is part of a phased project, determine if there will be adequate sewage disposal facilities to serve those phases.*

The project area consists of the current Shippenville Borough WWTP site, conveyance infrastructure along existing easements and road rights-of-way, and existing sewer locations where upgrades are proposed. The resulting total project area is adjacent to a range of land uses, including residential, commercial, and public utility uses. These uses are neither on parcels under PAW ownership nor germane to any project phasing. Adequacy of associated sewage disposal facilities is consequently not applicable for the purposes of this Planning Module.

8. *Provide information on any previous Act 537 planning completed for the site and any other information that the applicant believes is important for the Department's review of the project.*

As discussed above, the Shippenville Act 537 Plan describes the future wastewater needs that serve as the basis for this Planning Module. The selected alternative in the Shippenville Act 537 Plan was an upgrade to the Shippenville Borough WWTP to accommodate a future wastewater need of 100,000 gpd. As described in the Alternatives Analysis of this Planning Module, the selected alternative per the Shippenville Act 537 Plan was not implemented. This Planning Module provides for the decommissioning of the existing Shippenville WWTP, construction of a new pump station at the site of the existing WWTP and conveyance of the wastewater to the Paint-Elk WWTP currently owned by PAW in lieu of the selected alternative from the Shippenville Act 537 Plan.

Total project earth disturbance is expected to be approximately 2.4 acres. Areas which will be disturbed are the existing Shippenville WWTP site, existing road rights-of-way and sewer easements, and existing sewer locations. Since project disturbance will occur on previously disturbed lands, no impact on prime agricultural soils is expected.

The National Wetlands Inventory, U.S. Fish & Wildlife Service, September 2009 indicates there are no wetlands within the area to be disturbed. Federal Emergency Management Agency Flood Plain mapping indicates that the only area of potential disturbance within a flood plain will be the stream crossing associated with the proposed force main along US 322 where it crosses Paint Creek. Although not shown on USGS mapping, there is also a small stream/drainage way crossing SR 208 north of the Shippenville WWTP site which will

need to be traversed by the proposed force main. Any attendant DEP stream crossing permit requirements will be addressed by PAW prior to construction.

Total estimates of probable project costs can be found following this Project Narrative.

Future user costs resulting from project implementation and PAW ownership of the Shippenville sewerage system cannot be accurately identified at this time. Identification of user rates is subject to regulation by the Pennsylvania Public Utilities Commission (PaPUC). PAW is a public utility regulated by the PaPUC. The PaPUC conducts an open and thorough examination of any proposed rate filing. The process that a regulated public utility undertakes to establish rates differs from that which a municipality undertakes in establishing cost of service associated with wastewater system upgrades. Traditionally, PAW will determine a revenue requirement immediately prior to filing a rate case. This revenue requirement will factor in all costs of service associated with providing wastewater service, such as prior year (historic) and projected (future) O&M costs, capital additions and debt/equity financing. The revenue requirement associated with the upgrades proposed to convey the Shippenville flows to the Paint-Elk system will be computed as the project nears completion. Given that the variables associated with computing the revenue requirement will change prior to project completion and that the final rate determination is subject to PaPUC approval, it is inappropriate to speculate what the final rate adjustment would be.

The following project implementation schedule is anticipated:

IMPLEMENTATION SCHEDULE

No.	TASK	COMPLETION DATE
1	DEP Act 537 Planning Approval	Time A
2	Part II Permit Submission to DEP	6 Months After Time A
3	Part II Permit Approval	Time B
4	Issue Notice to Proceed to Contractors/Commence Construction ⁽¹⁾⁽²⁾	4 Months After Time B
5	Complete Construction ⁽³⁾	24 Months After Time B

- (1) Assumes PAW acquisition of Shippenville wastewater facilities
- (2) Assumes issuance of any required Non-DEP permits
- (3) Assumes no permitting restrictions on construction timing

**TABLE 4.5
SHIPPENVILLE BOROUGH
WASTEWATER TREATMENT FACILITY
PROJECTED HYDRAULIC LOADING (MGD)**

Year	Previous Five Year Avg. Max. Monthly Flow	Additional EDUs	Increased Flow	Projected Avg. Monthly Maximum Flow
2012	0.057	1	0.000	0.057
2013	0.057	1	0.000	0.058
2014	0.058	1	0.000	0.058
2015	0.058	1	0.000	0.058
2016	0.058	8	0.001	0.059
2017	0.059	8	0.001	0.061
2018	0.061	8	0.001	0.062
2019	0.062	8	0.001	0.064
2020	0.064	8	0.001	0.065
2021	0.065	8	0.001	0.066
2022	0.066	8	0.001	0.068
2023	0.068	8	0.001	0.069
2024	0.069	8	0.001	0.070
2025	0.070	50	0.009	0.079
2026	0.079	2	0.000	0.080
2027	0.080	2	0.000	0.080
2028	0.080	2	0.001	0.081
2029	0.081	2	0.001	0.082
2030	0.082	2	0.001	0.083
2031	0.083	2	0.001	0.084
2032	0.084	2	0.001	0.085
2033	0.085	2	0.001	0.086
2034	0.086	2	0.001	0.087
2035	0.087	2	0.001	0.088
2036	0.088	2	0.001	0.089
2037	0.089	2	0.001	0.090

NOTES:

1. The current five year average maximum monthly hydraulic loading is used as the basis for hydraulic loading projections.
2. Each additional EDU within the existing system is estimated to contribute a hydraulic load of 100 gpd per capita.
3. Each additional EDU to be added as part of the Woody Weaver Development is expected to contribute a hydraulic load of 75 gpd per capita.
4. Each additional EDU to be added as part of the potential Elk Township Extension Project is expected to contribute a hydraulic load of 100 gpd per capita.
5. Shippenville Borough's persons per household is 2.38 (2010).
6. Elk Township's persons per house household is 2.43 (2010).
7. After the completion of the Woody Weaver Development all land within the Borough limits is expected to be exhausted.
8. EDU projections from 2026 to 2037 is for potential lots within Woody Weaver Development to be further subdivided or should any residence within the service areas (Elk Township or Shippenville Borough) create an additional EDU within their existing living structure.

**TABLE 4.8
CURRENT, PROPOSED AND POTENTIAL CONNECTIONS**

	Existing Connections	Proposed Connections (Woody Weaver)	Potential Connections (Elk Township Ext.)	Total
Shippenville Borough	245	80	50	375

Please refer to Appendix D and Appendix E for planning documents relative to service area demographics.

**TABLE 4.9
TABULATION OF PROJECT WASTEWATER FLOW
FOR THE ACT 537 PLANNING PERIOD**

	Connections	Max. Monthly Hydraulic Loading (gpd)	Max. Monthly Avg. Organic Loading (lb/day)
Shippenville Borough (Existing)	245	52,000	138
Woody Weaver Residential Development (Proposed)	80	13,000	34
Elk Township System Extension (Potential)	50	12,000	47
Peak Flow Reserve Capacity	-	23,000	31
Total	375	100,000	250

The hydraulic capacity of the proposed wastewater treatment plant is 100,000 gpd and the organic capacity is 250 lbs/day.

No industrial customers discharge waste to the system. No drinking water plants, restaurants, schools, or dairies exist within the service area. There are two (2) automotive repair shops and one (1) dry cleaning service that are connected to the sewer system, however, these connections are unmetered.

The Borough has attempted to remedy process-related problems at the treatment facility by troubleshooting unit process performance.

The system has also been plagued with violations of TSS, CBOD₅ and Fecal coliform, pH, total chlorine residual (2005 - present) and is projected to be overloaded in 2016 according to the Borough's 2011 Wasteload Management Report. In November 2010, the Borough entered a Consent Order & Agreement with the Department of Environmental Protection concerning submission of an Act 537 Plan revision. Since that time, the Borough has worked toward implementing the actions outlined in the 2010 COA. Please refer to Appendix B for COA.



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHWEST REGIONAL OFFICE

September 28, 2012

Ms. Colleen M. Smith
Secretary
Shippenville Borough
P.O. Box 244
Shippenville, PA 16254

Re: Final Act 537 Plan
Shippenville Borough
Clarion County

Dear Ms. Smith:

The Department of Environmental Protection (Department) has reviewed and hereby approves, the document titled "Act 537 Sewage Facilities Plan Revision, Borough of Shippenville, Clarion County, PA, Revised July 2012" (Final Plan), adopted by Shippenville Borough (Resolution No. 12-05) on June 13, 2012, as a revision to the September 1986 Official Plan. The Department is approving the Final Plan pursuant to the November 4, 2010, Consent Order and Agreement (CO&A) between the Department and Shippenville Borough.

The Final Plan was developed in response to a CO&A intending to further the provision of adequate sewerage handling for the Borough of Shippenville's existing and future sewerage needs, and also address identified O&M, capacity, and process control shortcomings contributing to effluent violations (NPDES Permit violations).

The Final Plan calls for the implementation of the following alternative:

Alternative D: Replacement of the existing sewerage treatment facility with a new 100,000 gallon per day Intermittent Cycle Extended Aeration System (ICEAS) sewerage treatment facility, doubling the treatment plant's hydraulic capacity. Treatment will include new headworks, comminutor/bar screen, the ICEAS treatment components i.e. process tankage, equipment, and appurtenances, clarifiers, and Ultra Violet (UV) disinfection (back-up chlorinator), a control/mechanical building, an emergency generator, and a sludge centrifuge. The total anticipated project cost for the sewerage treatment facility replacement proposal is \$4,344,500. The existing average monthly service charge is \$34.00/month. The selected financing plan is Pennsylvania Infrastructure and Investment Authority funding (PennVEST). It is expected that user fees will range from \$59/month to \$81/month depending on the term of the loan (20-30 years), the interest rate (1% - 1.76%), and the infusion of PennVEST and Community Development Block Grant (CDBG) monies. The Final Plan identifies the Rural Utilities Service (RUS) as the selected back-up financing plan.

The Department will hold the Shippenville Borough responsible for the timely implementation of the Final Plan.

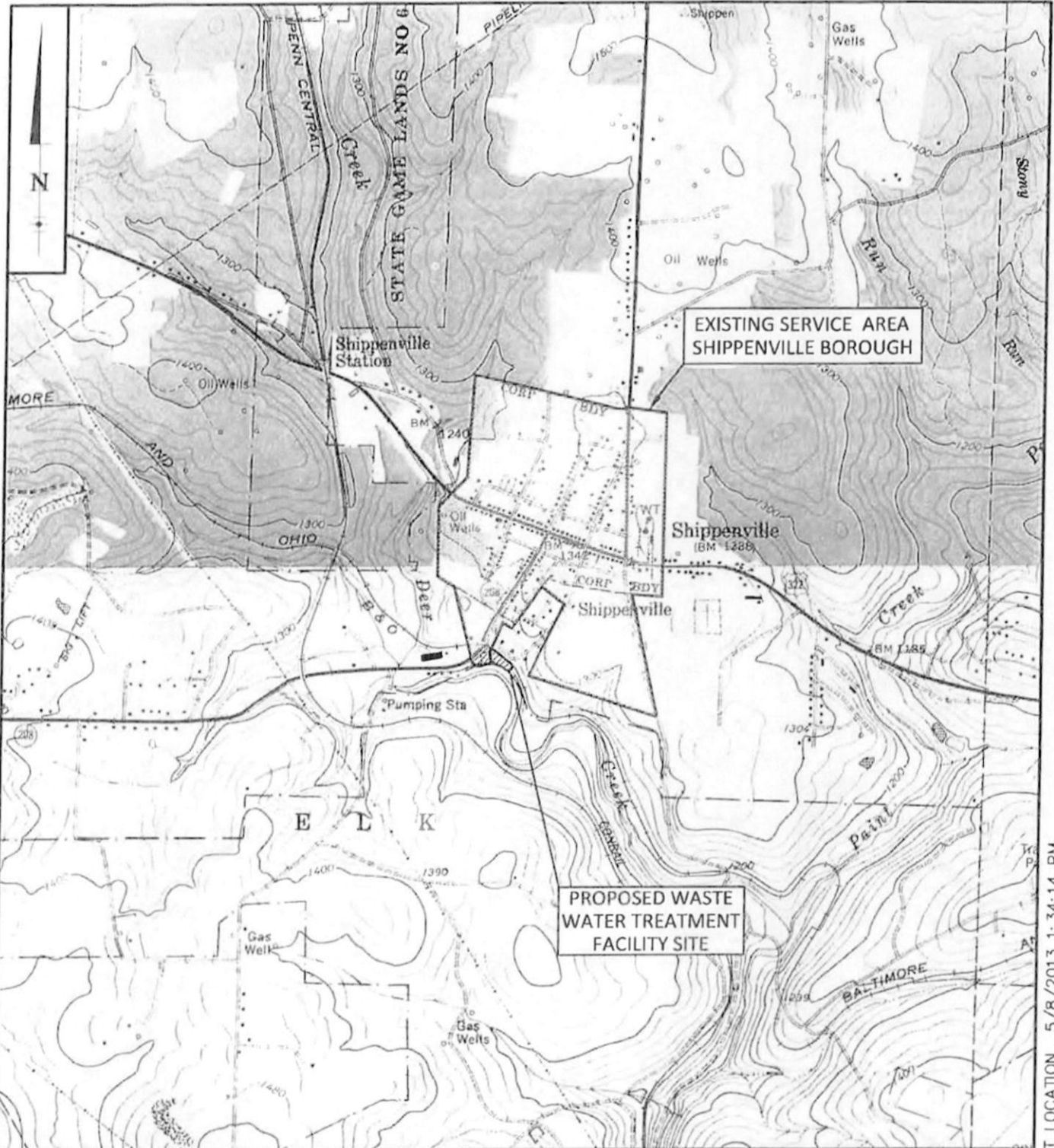


FIGURE 1 - PROJECT LOCATION

SHIPPENVILLE BOROUGH
NPDES PERMIT APPLICATION

SHIPPENVILLE BOROUGH, CLARION COUNTY, PENNSYLVANIA
Portion of Clarion & Fryburg, PA USGS Map

Scale: 1" = 2000'

GD & F

GWIN
DOBSON &
FOREMAN

CONSULTING ENGINEERS

3121 FAIRWAY DRIVE
ALTOONA, PA 16602

A summary of the implementation schedule (key dates) for the subject sewerage treatment facilities replacement project are derived as indicated above and are as follows:

Submit PA DEP Part II Permit Application	January 2013
Start Construction	April 2013
Close-out Contracts/Start-up/Commissioning	October 2013

Under Section 6 of the Pennsylvania Sewage Facilities Act, you are eligible for reimbursement of part of the costs incurred in the preparation of this plan. This grant is limited to up to 50 percent of eligible costs. Payment is subject to adequate state budget appropriations for the Act 537 Plan Program. An application for this planning assistance is enclosed for your use. You are reminded that reimbursement applications must show detailed cost breakdowns of tasks completed. The approval of the scope of work and resultant Act 537 Plan is not a guarantee of eligibility of planning costs for reimbursement by the Commonwealth pursuant to Section 6 (a) of Act 537 and 25 Pa Code Chapter 71 of the Department's regulations.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. §7514, and the Administrative Agency Law, 2 Pa.C.S.A. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

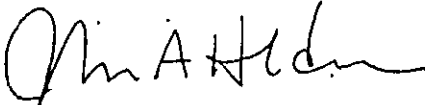
IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD 717.787.3483 FOR MORE INFORMATION.

Ms. Colleen M. Smith

-3-

If you have any questions, please do not hesitate to contact Michelle L. Hoover at our Knox District Office by calling 814.797.1191.

Sincerely,



John A. Holden, P.E.
Regional Manager
Clean Water Management

cc:

~~Frank J. Bolognese~~

Ms. Twila Rifemberrick, Clarion County Department of Planning and Development

Michael K. Zimmerman, P.E.

Cynthia A. Selby

Michelle L. Hoover

Christina S. Nagy/Christine M. Hall/Clint E. Stonesifer

File/Planning/Act 537

JAH:CS:ll

AECOM

Project No.: 20911161

Alternative - FM to MH238

Project Name: Shipperville Planning Module

By: ES 2/19/2015
 CK By: SC 2/24/2015

Qty	Unit	Description	Unit Cost	Cost	Subtotal
Demolition					
1	LS	Existing WWTP demolition	\$ 75,000	\$ 75,000	\$ 75,000
Shipperville Pump Station					
1	LS	Pumping Station	\$ 450,000	\$ 450,000	\$ 450,000
Force Main - Pump Station to McElhatten Street					
1,100	LF	8" Main	\$ 75	\$ 82,500	
1	EA	Clean Out	\$ 5,000	\$ 5,000	
0	SY	Temporary Paving Restoration (5' wide)	\$ 10	\$ -	
0	SY	Permanent Patch (7' wide)	\$ 65	\$ -	
8	Days	Traffic Control	\$ 1,000	\$ 8,000	
0	SY	Permanent Paving (2" Mill and Overlay to centerline)	\$ 30	\$ -	
0	LF	Striping	\$ 2.5	\$ -	\$ 95,500
Force Main - McElhatten Street to Hank Alley to South Street					
1,150	LF	8" Main	\$ 75	\$ 86,250	
1	EA	Clean Out	\$ 5,000	\$ 5,000	
0	SY	Temporary Paving Restoration (5' wide)	\$ 10	\$ -	
0	SY	Permanent Patch (7' wide)	\$ 65	\$ -	
8	Days	Traffic Control	\$ 250	\$ 2,000	
0	SY	Permanent Paving (2" Mill and Overlay to centerline)	\$ 30	\$ -	
0	LF	Striping	\$ -	\$ -	\$ 93,250
Force Main - South Street to School Street to Rt. 322					
1,270	LF	8" Main	\$ 75	\$ 95,250	
1	EA	Air Release Valve	\$ 7,500	\$ 7,500	
0	SY	Temporary Paving Restoration (5' wide)	\$ 10	\$ -	
0	SY	Permanent Patch (7' wide)	\$ 65	\$ -	
9	Days	Traffic Control	\$ 250	\$ 2,250	
0	SY	Permanent Paving (2" Mill and Overlay to centerline)	\$ 30	\$ -	
0	LF	Striping	\$ -	\$ -	\$ 105,000
Force Main - Rt. 322 to MH 238					
4,980	LF	8" Main	\$ 75	\$ 373,500	
4	EA	Clean Out	\$ 5,000	\$ 20,000	
4	EA	Air Release Valve	\$ 7,500	\$ 30,000	
2,460	SY	Temporary Paving Restoration (5' wide)	\$ 10	\$ 24,600	
3,440	SY	Permanent Patch (7' wide)	\$ 65	\$ 223,600	
55	Days	Traffic Control	\$ 1,000	\$ 55,000	
7,360	SY	Permanent Paving (2" Mill and Overlay to centerline)	\$ 30	\$ 220,800	
4,420	LF	Striping	\$ 2.5	\$ 11,050	\$ 958,550
Gravity - MH #238 to Influent Structure					
1,400	LF	Gravity Main Upgrade	\$ 100	\$ 140,000	
10	Days	Bypass Pumping	\$ 500	\$ 5,000	
5	EA	Manholes	\$ 7,500	\$ 37,500	
1	LS	Core Drill Existing Influent Structure	\$ 5,000	\$ 5,000	\$ 187,500
Subtotal					\$ 1,964,800
General					
		Mob and Demob	3.0%	\$ 58,940	\$ 58,940
Subtotal					\$ 2,023,740
Soft Costs					
		Legal, Administration, Design, Bidding Assistance, CM/CI	10%	\$ 202,400	
		Contingency	10%	\$ 202,400	\$ 404,800
Total Design and Construction					\$ 2,428,540

ALTERNATIVES ANALYSIS

SECTION H. ALTERNATIVE SEWAGE FACILITIES ANALYSIS

A discussion of project alternatives is presented below based upon the content requirements as specified in the DEP document entitled “Instructions for Completing Component 3 Sewage Collection and Treatment Facilities”. These content requirements are listed in italic text below, with project information inserted after each item.

1. *Describe the chosen disposal method, its location, the daily flow proposed and if the method is an interim method (to be replaced by the ultimate method in 5 years or less), or is an ultimate method (to serve the development in the long term, for 5 years or more). Provide a description of how the chosen method will provide compliance with effluent limitations. Also provide the number of lots or EDU's that will be served.*

The project involves the decommissioning of the Shippenville Borough Wastewater Treatment Plant (WWTP) and construction of a pump station and force main to convey the sewage from Shippenville Borough to the Paint-Elk collection and conveyance system for treatment at the Paint-Elk WWTP. The entire Paint-Elk sewage system is currently owned by Pennsylvania American Water Company (PAW). The proposed pump station will be constructed on the same site as the existing Shippenville Borough WWTP. The proposed force main will convey the sewage via existing sewer easements and road rights-of-way to an existing gravity main of the Paint-Elk system. The receiving gravity sewer main in the Paint-Elk system will be upgraded to accommodate the new Shippenville pump station flows while also allowing for additional future growth commensurate with the permitted capacity of the Paint-Elk WWTP. The project also provides for the transference of the Shippenville Borough sewage system to PAW.

The project will accommodate the ultimate Shippenville sewage needs of approximately 100,000 gallons per day, as specified in the 2012 Shippenville Act 537 Plan (see Project Narrative for additional discussion). The proposed improvements are consequently intended to be the ultimate method of serving the long term sewage needs of Shippenville. The permitted hydraulic and organic loading for the Paint – Elk WWTP is sufficient to accommodate existing flows and the new Shippenville pump station flows, resulting in expected compliance with applicable effluent limitations.

Since no new land development is proposed, no new lots are proposed. Using the DEP value of 400 gpd/EDU, the total projected 100,000 gpd of Shippenville flows equates to 250 EDU's. Current average Shippenville WWTP flows of approximately 32,000 gpd would equate to 80 EDU's.

2. *Describe the types of land uses adjacent to the project area (Agricultural, Residential, Commercial etc.) and the type of sewage disposal method serving each of those land uses.*

Properties adjacent to the project must be described by indicating present land uses and zoning designations. Describe the sewage disposal methods being used for each of those adjacent land uses (onlot, municipal treatment, etc.) and if those methods are intended for interim or ultimate use.

The project area consists of the current Shippenville Borough WWTP site, conveyance infrastructure along existing easements and road rights-of-way, and existing sewer locations where upgrades are proposed. The resulting total project area is adjacent to a range of land uses, including residential, commercial, and public utility uses. The project area spans the municipalities of Shippenville Borough and Elk Township, neither of which has zoning ordinances controlling land use.

All adjacent uses are presently served by public sewer with the exception of those located in Elk Township along US 322 between Shippenville Borough and the existing gravity sewers tributary to the Paint-Elk treatment facilities. Uses on these parcels are presently served by on-lot sewage systems.

Public sewer service is intended to be the ultimate method of sewage disposal for existing properties so served. The ultimate method of sewage disposal for those parcels presently served by on-lot sewage systems is continued use of on-lot sewage systems per currently approved Elk Township Act 537 planning. A draft Act 537 Plan was prepared for Elk Township in 2012, however, which indicated that these parcels may warrant public sewer service due to on-lot sewage system malfunctions. This planning has not been adopted by Elk Township. It should be noted that the current project will preserve adequate treatment and disposal capacity at the Paint-Elk WWTP for the draft Elk Township Act 537 sewage needs should future Elk Township and DEP Act 537 planning approvals deem such service to be appropriate.

3. *Indicate if the sewage facilities described in (2) are in need of improvement due to noncompliance with effluent limitations, high rates of onlot malfunction or overloaded public sewers. Is there a potential for a combined public/private project?*

The treatment facilities serving Shippenville Borough are noncompliant with effluent limitations, and the current project is intended to correct this condition by decommissioning the Shippenville treatment facilities and conveying all flows to the nearby Paint-Elk treatment facilities.

4. *Determine and indicate what sewage disposal method is proposed for the development area in the municipality's Official Sewage Facilities Plan (such as: onlot disposal systems, public sewers, etc.).*

The Shippenville Borough Act 537 Plan was approved by DEP in September 2012 and provided for construction of a new 100,000 gallon per day treatment facility to serve the long term needs of the Shippenville sewer system service area. Continued ownership by Shippenville Borough was proposed for the improved sewerage system. Shippenville has not proceeded with construction of the treatment facility.

5. *Describe any existing sewage management program(s) in the area, and/or any sewage management program(s) that this project would be required to participate in, and that program's requirements.*

Construction of a DEP-permitted non-municipal sewage treatment facility is not proposed and no sewage management program is applicable.

6. *Describe any potential alternative sewage disposal methods that are available for the project. Consider all reasonable possibilities for sewage disposal, such as a stream discharge or an alternate method of land disposal. The municipality, delegated local agency or DEP may also require consideration of particular types of sewage disposal methods in the analysis. The chosen method must assure that applicable water quality standards are attained.*

Alternatives for treatment and disposal as well as collection and conveyance are discussed below.

Treatment and Disposal

Alternatives for treatment and disposal of the existing and projected Shippenville Borough sewage flows were evaluated in the Shippenville Borough Act 537 Plan approved by DEP in 2012. The selected alternative from the 2012 planning was construction of a new 100,000 gallon per day wastewater treatment facility to be owned and operated by Shippenville Borough. This alternative has not been implemented.

The 2012 Shippenville Act 537 Plan also considered the alternative of an inter-connection between the Paint-Elk sewerage system and the Shippenville sewerage system. This alternative was indicated to be a "potentially sound option" which would facilitate one regional treatment plant for Shippenville Borough, Elk Township and Paint Township, but was discounted from further consideration due to a \$2,000,000 connection fee required by the Paint-Elk Joint Sewer Authority (PEJSA). The Paint-Elk sewerage system has subsequently been transferred from the PEJSA to PAW and the current project also involves transference of the Shippenville system to PAW,

eliminating prior institutional and financial difficulties with an inter-connection of the systems.

Accordingly, the proposed alternative is conveyance of the Shippenville flows to the Paint-Elk WWTP for treatment and disposal. As discussed below, adequate capacity exists in the Paint-Elk WWTP to assure that applicable water quality standards will be attained.

Collection and Conveyance

Conveyance of Shippenville flows to the Paint-Elk system will necessitate a new pumping station due to the existing Shippenville sewer system layout and project area topography. A new pumping station at the present Shippenville WWTP is the most technically feasible location, and no alternate locations have been considered.

Alternatives for conveyance routing to connect the new pumping station to the existing Paint-Elk system were considered assuming locations in existing road rights-of-way and sewer easements to facilitate implementation. Alternatives considered for force main routing through Shippenville are described below. Common to all is force main routing along US 322 between Shippenville and the existing Paint-Elk conveyance system.

1. Northeast from the new pumping station along the SR 208 right-of-way, southeast along McElhatten Street, northeast along Hank alley, southeast along South Street, north along School Street, and east along US 322. This alternative would minimize construction activities on more heavily travelled PennDOT roadways.
2. Northeast from the new pumping station along the SR 208 right-of-way, southeast along South Street, north along School Street, and east along US 322. This alternative would require more disturbance along SR 208 than alternative 1, but would require a similar length of force main.
3. Northeast from the new pumping station along the SR 208 right-of-way, southeast along US 322. This alternative was discounted due to increased construction complexities and costs resulting from disturbance in rights-of-way for the more heavily travelled PennDOT roads.

Alternative 1 above is proposed since minimal construction impacts on roads and road rights-of-way are anticipated.

7. *Describe why the proposed method was chosen over any of the other methods described in the alternatives analysis. Environmental, administrative, and financial concerns may be addressed. Also indicate how the chosen method will guarantee adequate sewage disposal, including compliance with applicable water quality standards and effluent limitations, for the development in both the short-term (up to 5 years) and long-term (beyond 5 years) by*

describing the adequacy of the proposed facilities (organic and hydraulic loading) and the ability of the facility to accept additional flows or loads.

The chosen alternative is decommissioning of the Shippenville WWTP, construction of a new pump station at the Shippenville WWTP site, and conveyance of the pump station flows via a new force main to the Paint-Elk sewerage system. The new force main will connect to the Paint-Elk system at an existing manhole located along US 322 in Elk Township. See Figure 1 for an illustration of the existing and proposed facilities.

The chosen alternative was based upon the need to resolve Shippenville WWTP permit violations, availability of treatment and disposal capacity at the existing Paint-Elk WWTP owned by PAW, and pending PAW ownership of the Shippenville system.

All conveyance system improvements will be designed to accommodate the total sewage needs identified in the approved 2012 Shippenville Act 537 Plan. There is no other currently approved municipal Act 537 Plan which defines future needs to be served by the Paint-Elk WWTP; however, a 2012 draft Elk Township Act 537 Plan identifies three study areas in Elk Township which may warrant public sewer service due to malfunctioning on-lot sewage systems. The following table shows total future Paint-Elk WWTP loading based upon the project flows and the draft Elk Township Act 537 Plan sewage needs. It should be noted that this Planning Module is not intended to provide for any approvals relative to the draft Elk Township Act 537 Plan. Inclusion of the draft Elk Township projected sewage needs in the table below is intended solely to demonstrate that the current project would not constrain treatment and disposal capacity as may be needed should Elk Township and DEP approve associated Act 537 planning in the future.

Total Projected Future Paint-Elk WWTP Loading

	EDUs	Projected Loading	
		HYDRAULIC (GPD) ⁽¹⁾	BOD ₅ (PPD) ⁽²⁾
Existing Paint - Elk WWTP Flows ⁽¹⁾		231,200	408
Shippenville Pump Station ⁽⁴⁾		100,000	250
2012 Draft Elk Act 537 Plan			
Study Area 4 - East of Shippenville along SR 322	32	7,776	13
Study Area 1 - Southwest of Shippenville along SR 208 and Elk City area	92	22,356	38
Study Area 3A - North of Shippenville along SR 208	38	9,234	16
Totals		370,566	725
Currently Permitted Loading⁽⁵⁾		600,000	800

(1) Future flows per EDU based upon 2010 Census data of 2.23, 2.43 and 2.38 average persons/household for Paint, Elk and Shippenville respectively and 100 GPD/capita for all EDUs except the Woody Weaver development flows, which are based upon 75 GPD/capita per the 2012 Shippenville Act 537 Plan

(2) 0.17 PPD/capita and 2010 Census data for average household sizes used for projections

(3) All existing loadings are five year maximum monthly averages based on 2013 Chapter 94 Report data; November 2013 maximum month organic loading was discounted due to anomalous industrial discharge referenced in the Chapter 94 Report.

(4) Total Shippenville Pump Station loading represents 25 year projected needs as shown on Table 4.9 of the 2012 Shippenville Act 537 Plan

(5) NPDES Permit No. PA0034924

8. *Indicate who will be the owner of the facility, and who will be responsible for operation and maintenance of the facility and ultimately compliance with applicable water quality standards and effluent limitations.*

PAW will own, operate and maintain all proposed improvements upon transference of the Shippenville sewerage system from the Borough to PAW. PAW will accordingly be responsible for meeting applicable water quality standards and effluent limitations associated with the project flows.

PAW is a public utility which owns and operates several other wastewater systems in Pennsylvania, including the Paint-Elk system. The Pennsylvania Public Utilities Commission regulates all such activates and will similarly oversee PAW operation of the combined Shippenville and Paint-Elk systems.

9. *Finally, the applicant may use the narrative to describe any special considerations or provide any additional information that supports the choice of disposal method. The alternatives analysis must be attached to the planning module package for review by the municipality and approving agency.*

See the Project Narrative for additional project information.

CHAPTER 94 CONSISTENCY NARRATIVE

SECTION J. CHAPTER 94 CONSISTENCY

The proposed project involves the interconnection of two municipal wastewater systems, the Shippenville Borough Collection and Treatment System, under agreement to be acquired by Pennsylvania American Water Company (PAW), and the former Paint-Elk Joint Sewer Authority (PEJSA) Sewage Collection and Treatment System, presently owned by PAW.

Following are discussions of improvements proposed to effect this inter-connection and information used to complete the table in Section J of the Component 3 form.

Shippenville Borough Pump Station

The existing Shippenville Borough Collection and Treatment System consists of a gravity collection system and a sewage treatment plant which was constructed in 1972 under WQM Permit No. 0172403. The existing collection system will continue to serve the Borough of Shippenville, but the treatment facility will be decommissioned. The proposed project will direct the collected Shippenville sewage to a new pump station which will convey it through a new force main to the Paint-Elk conveyance and treatment system located in Elk Township.

The pump station will be designed in accordance with the PADEP's "Domestic Wastewater Facilities Manual." The current permitted flow of the existing Shippenville treatment plant is 0.050 MGD. Based on the needs identified in the Borough's most recent approved Act 537 Plan, a flow of 0.100 MGD will be used for the design of the pumping station. Typically, a pump station at this design flow is designed for a peaking factor of 4.0, which would equate to 0.400 MGD, or 278 GPM. However, a detailed review of the treatment plant flow meter data indicates the collection system is experiencing inflow during rain events which needs to be accounted for in the proposed pumping station design. Available flow data for the treatment plant indicates that the current instantaneous peak flow rate is approximately 376 GPM. The table below illustrates the approximate peak flow rates for existing and future flows which will need to be accommodated by the new pump station.

	Average Daily GPD	Peak GPD	Peak GPM	Peak Factor
Existing Flow ⁽¹⁾	32,000	541,440	376	16.92
Future Flow ⁽²⁾	68,000	272,000	189	4.00
Ultimate Flow	100,000	813,440	565	8.13

(1) Five year annual average flow per 2013 Chapter 94 Report

(2) Additional flow to reach 0.100 MGD design capacity; 4.0 peak factor assumed for new connections per Ten States Standards

To accommodate these peak flow rates and significant static head in the force main resulting from elevation changes, a duplex pump station with a pumping rate of 565 GPM is proposed. The pumping station will discharge into an 8 inch PVC force main that will traverse the Borough of Shippenville and thereafter follow US 322 to a point of connection with the existing Paint-Elk system, as shown on Figure 1. The force main and all downstream facilities will be designed to accommodate the 565 GPM discharge from the proposed Shippenville pumping station as well as additional future growth commensurate with the currently permitted Paint-Elk WWTP capacity.

It should be noted that PAW may pursue additional metering of existing Shippenville peak flows prior to design and permitting of the proposed improvements. Final design will incorporate any such refinement of peak design needs.

Paint-Elk Sewage Collection and Treatment System

The proposed Shippenville Pump Station force main will discharge into MH 238 of the Paint-Elk gravity conveyance system, which also receives flows from the Maple Drive Pump Station. This interceptor conveys sewage by gravity from north of US 322 to the Paint-Elk WWTP. This flow is not metered and estimates have therefore been developed to identify potential downstream capacity concerns. Uses tributary to MH 238 consists of approximately 220 homes and/or buildable lots, primarily located within Paint Township. Based on the 2010 US Census data which indicated an average of 2.23 persons per household in Paint Township and the recommended design flow of 100 GPD/capita from the DEP Domestic Wastewater Manual, the average daily flow per EDU is 223 GPD and the flow through the interceptor would be approximately 50,000 GPD at buildout. Flow from north of US 322 is then discharged into MH 242 as is the flow from the rest of the collection system. A line segment from MH 242 to the headworks receives all the flow from the collection system.

Existing Interceptor Capacities

The Manning equation and surveyed invert elevations were used to determine the carrying capacity of the existing gravity interceptor segments with the results presented in the following table.

Upstream MH	Downstream MH	Diameter (in)	Slope (FT/FT)	Q _{max} (GPM)
238	239	8	0.0108	784
239	240	8	0.0053	552
240	241	8	0.0030	415
241	242	8	0.0015	294
242	HEADWORKS	10	0.0017	567

Review of the Paint-Elk WWTP influent flow meter data indicated that the chart recorder for the week of 12/16/13 through 12/23/13 recorded a maxed out reading of 1,200 GPM from 6 AM on the 21st through noon on the 22nd. However, the Manning equation and surveyed invert elevations demonstrate that this is impossible as the 10 inch pipe discharging into the headworks can only handle approximately 567 GPM. One potential reason for the high reading is that the dimminutor became clogged causing sewage to back up into the flume where erroneously high depths and therefore flows were recorded. When PAW took over the Paint-Elk WWTP they located a sealed high level overflow in MH 242 that discharges directly into the lagoon adjacent to the headworks, the same lagoon the headworks discharges to. As a precaution, the overflow was unsealed and a flow meter installed to record if/when the interceptor backs up and sewage is sent directly to the lagoon.

Because the chart recorder data appears to be erroneous at times, a peak factor cannot be determined with any level of confidence, and because the system is impacted by rain events, typical peaking factors as specified in the DEP Domestic Wastewater Facilities Manual may not be applicable for piping system design. A peak factor was consequently estimated based upon available data. The Manning equation and surveyed invert elevations indicate the maximum capacity of the 10 inch pipe that discharges into the headworks is 816,000 GPD. Comparing this calculated maximum pipe capacity to the average 2013 daily flow of 175,000 GPD, as listed in the 2013 Chapter 94 Report, results in a 4.7 peak factor. This peak factor was applied to the build out flow from north of US 322 to check the capacity of the interceptor between MH 238 and MH 242. Applying this peak factor to the average estimated flow from uses tributary to MH 238, the existing peak flow through the interceptor is 235,000 GPD or 163 GPM. Adding the pumping rate from the proposed Shipperville Pump Station of 565 GPM and the pumping rate from the Maple Drive Pump Station of 60 GPM (per 2013 Chapter 94 Report data), the capacity of the interceptor between MH 238 and MH 242 will need to accommodate 788 GPM.

The pipe segment between MH 242 and the headworks will have to accommodate the flow from the entire collection system in addition to the flow from the upstream pipe segments discussed above. To be conservative, this segment will be sized in accordance with the estimated peak flow needs depicted in the following table.

	Average Flow (GPD)	Peak Factor	Peak Flow	
			GPD	GPM
New Shipperville Pump Station	100,000	8.13	813,000	565
Current flows	175,000	4.7	816,480	567
Subtotals	275,000		1,629,480	1,132
Additional unspecified future flows ⁽¹⁾	325,000	2.5	812,500	564
Total Future Capacity Needs	600,000		2,441,980	1,696

(1) Additional unspecified future flows are those to reach WWTP permitted hydraulic capacity

As indicated by the preceding tables, all of the interceptor segments require an upgrade. The following table lists the minimum pipe diameters required for the proposed flows.

Proposed Interceptor Capacities

Upstream MH	Downstream MH	Diameter (in)	Slope (FT/FT)	Qmax(GPM)
238	239	10	0.0108	1,429
239	240	10	0.0053	1,000
240	241	12	0.0030	1,224
241	242	12	0.0015	866
242	HEADWORKS	18	0.0017	2,718

Based upon the estimated peak Paint-Elk WWTP inflow rate of 1696 GPM, it should also be noted that future improvements to the existing WWTP headworks may be needed. The manufacturer has indicated that the existing dimminutor has a hydraulic design capacity of 2.3 MGD, which equates to approximately 1597 GPM. Headworks upgrades may be needed if the 1696 GPM flow rate were realized; however, there are presently no future growth projections from Shippenville Borough, Elk Township or Paint Township which would consume all available WWTP capacity and thereby reach the ultimate projected peak flow. Given the uncertainty with reaching the maximum peak flows, no specific headworks upgrades are proposed at this time. PAW will monitor future flows and initiate efforts for any headworks upgrade as future demand conditions and operational considerations dictate.

Section J Table

DEP requirements for Section J of the Component 3 form require identification of design capacities, existing flows, and 5 year (2 year for pump stations) projected flows for collection, conveyance and treatment systems in order to verify that a proposed land development plan will not result in a projected hydraulic overload for Chapter 94 reporting purposes. Unlike a typical land development project, the proposed Shippenville pump station project is expressly intended to provide for collection and conveyance system upgrades as needed to accommodate all projected future flows. The following factors were utilized in completion of the Section J table:

- Column a, design and/or permitted capacity, has been completed in consideration of all proposed improvements.
- Column b, present flows, is based upon existing infrastructure and flow information available from the Paint-Elk 2013 Chapter 94 report.
- Column c, projected flows, utilizes both the 2013 Shippenville Borough WWTP and Paint-Elk WWTP Chapter 94 report projections to estimate future 5 year flows.

- **Collection – the Shippenville – Paint Elk sewage system interconnection will not result in any collection system impacts; the proposed pump station, force main and receiving gravity sewer interceptor are all classified as conveyance facilities. The collection row in the table is consequently completed as not applicable.**
- **Conveyance - the proposed Shippenville pump station, force main and the Paint-Elk gravity interceptor from MH 238 to the headworks of the WWTP are designated as the conveyance system relative to project capacities. Existing and proposed design capacities indicate the proposed gravity interceptor segment from MH 241 to MH 242 will be the most restrictive portion of the conveyance system, and figures in this row consequently address that segment.**

Design capacities are based upon the proposed 12” upgraded pipe segment with a peak flow of 866 GPM. Average design capacity assumes a 2.5 peaking factor in accordance with DEP Domestic Wastewater Manual standards.

Existing average flows are the assumed 50,000 GPD flow from upstream gravity users plus the Maple Drive pump station average flows as described in the 2013 Chapter 94 Report. Existing peak flow is based upon the estimated 4.7 peaking factor for gravity flows and the 60 GPM pumping rate from the Maple Drive Pump Station.

Projected average flow is estimated using the sum of the following: 2013 Shippenville Chapter 94 Report 5 year projected maximum month flow, estimated 50,000 GPD flow from upstream gravity uses and the future Maple Drive Pump Station flows from the 2013 Paint-Elk Chapter 94 Report. It should be noted that the Paint-Elk 2013 Chapter 94 Report projected an additional flow of 1,784 GPD for each of the following 5 years for the entire Paint-Elk system; however, the specific source of these flows is unknown and *not assignable to the subset of the conveyance system in question.*

Projected peak flow reflects the sum of the following: the proposed Shippenville Pump Station 565 GPM pumping rate, the existing assumed 163 GPM peak flow rate from gravity flows north of US 322, and the Maple Drive Pump Station 60 GPM pumping rate.

- **Treatment – the Paint-Elk WWTP constitutes the treatment portion of the table.**

Average design capacity is the currently permitted Paint-Elk WWTP capacity. Peak design capacity is unknown.

Existing average flows are the 2013 average flow as shown in the 2013 Chapter 94 Report. Existing peak flow is conservatively assumed to be the maximum design capacity for the existing 10" pipe segment which conveys all flows to the WWTP.

Projected average flow is the sum of the following: 2013 Shipperville Chapter 94 Report 5 year projected maximum month flow, the 2013 Paint-Elk Chapter 94 Report average flow for 2013, and the estimated additional 1,784 GPD additional flow for each of the next 5 years per the 2013 Chapter 94 Report. Projected peak flow reflects the sum of the following: the proposed Shipperville Pump Station 565 GPM pumping rate, the existing assumed 567 GPM peak flow rate, and the estimated 1,784 GPD additional flow for each of the next 5 years per the 2013 Chapter 94 Report at an assumed peaking factor of 2.5.

The Chapter 94 reports referenced above can be found in the following section of this planning module package.

CHAPTER 94 REPORTS

**CHAPTER 94
MUNICIPAL WASTELOAD MANAGEMENT REPORT**

FOR THE

**WASTEWATER COLLECTION AND TREATMENT SYSTEM
SHIPPENVILLE BOROUGH**

FOR

**SHIPPENVILLE BOROUGH
CLARION COUNTY, PENNSYLVANIA**

NPDES PERMIT No. PA0103276

OPERATING YEAR: 2013

GD&F

**GWIN
DOBSON &
FOREMAN**

CONSULTING ENGINEERS



GWIN
DOBSON &
FOREMAN

CONSULTING ENGINEERS

February 3, 2014

Department of Environmental Protection
Bureau of Water Quality
230 Chestnut Street
Meadville, PA 16335-3481

**RE: 2013 Chapter 94
Annual Wasteload Management Report**

Dear Gentlemen or Ladies:

On behalf of the Borough of Shippenville, we herewith submit two (2) copies of the above referenced report fulfilling the Borough's reporting requirements as described in the Department's Chapter 94 regulations for the 2013 reporting year.

If you have any questions or concerns, please feel free to contact me at your earliest convenience.

Respectfully submitted,
GWIN, DOBSON & FOREMAN, INC.

Maggie K. Weltzel
Environmental Scientist

Enclosures

MKW/aeH

00023/Rpt/Chapter94_2013.doc

cc: Linda Duffee, Shippenville Borough
Travis Long, GD&F
File

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A. INTRODUCTION

Pennsylvania Code, Title 25, Chapter 94 requires the owners of sewage facilities to properly plan manage and maintain their sewage facilities. To assist this effort, the regulation requires the sewage facilities owner to prepare an annual report that describes the organic and hydraulic loads received at the treatment plant during the previous operating year. In addition, the report must provide an analysis of conditions to determine whether the plant and other facilities have adequate capacity to meet waste treatment demands for the ensuing five (5) year operating period.

By completing this analysis and report, the owner helps to prevent overloaded sewage facilities. Owners experiencing overloaded facilities can then regulate system extensions and new taps to facilities at or near their capacity and can work to improve the volume or quality of waste received.

This report presents information on the condition and operation of sewage facilities serving Shippenville Borough, Clarion County.

B. PRESENTATION AND DISCUSSION OF HYDRAULIC LOADING INFORMATION

Table 1 presents observed hydraulic loadings for the Borough's facilities. The average monthly hydraulic loadings to the Borough's plant are presented for the previous five (5) operating years. The average ratio of the two (2) flow parameters, maximum three (3) consecutive month's average (MTCMA) to annual average, for the preceding operating years is calculated to be the projection ratio. This projection ratio serves as the basis for calculating anticipated peak three (3) month flows for the ensuing five (5) year operating period. In 2013 the MTCMA did not exceed the plant's permitted capacity; however the plant's average monthly flow did exceed its permitted capacity in December.

Table 1 also presents an estimate of the projected hydraulic loadings to the treatment plant for the ensuing five (5) year operating period. The projected annual average flow is calculated by summing the previous annual average flow and the estimated increased flow for the respective projection year. Flows are estimated to increase annually by an amount equal to the number of projected additional EDUs multiplied by 230 gallons per day per EDU. The projected maximum three (3) consecutive months' average flow is calculated by multiplying the projected annual average flow by the projection ratio. Figure 1 graphically presents a summary of the observed and projected hydraulic loadings to the Shippenville Wastewater Treatment Plant.

The annual average hydraulic loadings at the treatment plant from 2009 through 2013 were below the plants rated hydraulic capacity of 0.05 MGD. The projected annual average flows are anticipated to be below the plant's rated capacity.

As defined by Chapter 94, hydraulic overload occurs when "the monthly average flow entering the plant exceeds the hydraulic design capacity for three (3) consecutive months out of the preceding twelve (12) months". This condition did not occur in 2013. Figure 1 does not project the MTCMA to be overloaded within the next five (5) years.

The sewage facility utilizes chlorine in its treatment process and a summary of the daily chlorine residuals are included in Appendix A. The Borough has the effluent flow meter calibrated annually. A copy of the calibration certificate is included in Appendix B.

C. PRESENTATION AND DISCUSSION OF ORGANIC LOADING INFORMATION

Table 2 presents observed organic loadings for the Borough's facilities. Available average monthly organic loadings to the Borough's plant are presented for the previous five (5) operating years. The ratio of the two (2) load parameters, maximum month to annual average, is the projection rate. This serves as the basis for calculating anticipated peak month BOD₅ loads for the ensuing five (5) year operating period.

Table 2 also presents an estimate of the projected organic loadings to the treatment plant for the ensuing five (5) year operating period. The projected annual average load is calculated by summing the previous annual average load and the estimated increased load for the respective projection year. Figure 2 graphically presents a summary of the observed and projected organic loadings to the Shippenville Wastewater Treatment Plant. The plant experienced an organic overload in January, February, July, August, September, October, November and December of 2013. The plant's annual average load is not projected to be organically overloaded within the next five (5) years, however the plant's maximum monthly load is projected to be above the plant's permitted capacity in 2014.

The facility still has difficulties in complying with applicable discharge regulations due to facility type and wastewater characteristics. The Authority has significantly reduced the hydraulic loading to the facility towards continuous compliance, with the end product ultimately resulting in a new WWTP to provide the necessary treatment and increased organic capacity in 2015. The new WWTP will have an organic capacity of 250 lbs/day.

D. CONDITION OF SEWERAGE SYSTEM

The sewer collection system is in good condition. Overall, conveyance capacity throughout the system is not anticipated to exceed projected demands for the next five (5) years. No maintenance or repairs were completed on the collection system in 2013.

E. INDUSTRIAL WASTES

No customers classified as industrial discharge waste to the system. No drinking water plants, restaurants, schools, or dairies exist within the service area. There are two (2) automotive repair shops and one (1) dry cleaning service that are connected to the sewer system.

F. SEWER SYSTEM OPERATION, MONITORING, MAINTENANCE AND REPAIR

Shippenville Borough has a centralized wastewater collection system that is conveyed to and treated at the Shippenville Borough wastewater treatment facility. The service area consists of the corporate limits of Shippenville Borough, servicing approximately 254 EDU's. The Boroughs population, as based on the 2010 census, was found to be approximately 480 persons. Shippenville Borough owns and operates the wastewater collection, conveyance, and treatment facilities.

The collection system contains only one (1) lift station situated along State Route 208 East in the northeast corner of the Borough. The Shippenville lift station has two (2) 46 gpm capacity pumps and serves seven (7) residences. The lift station is visited once every seven (7) days for routine inspections. It is in good operating condition and is not expected to experience an overload in the ensuing five (5) year period. The Borough maintains an emergency replacement pump in the event of an existing pump's failure.

The wastewater treatment facility constructed in the late 1980's consists of an oxidation ditch treatment process, clarifier, chlorine contact tank and an aerated sludge holding tank and sludge drying beds. Grinder pumps were later installed for preliminary treatment. The plant's rated hydraulic capacity is 50,000 gpd and the rated organic capacity is 101 ppd BOD₅. The oxidation ditch was sized to hold 60,551 gallons of mixed liquor, which will provide a hydraulic retention time of 29 hours. Six (6) aerators capable of transferring 2 lbs. of oxygen/hr/aerator to the mixed liquor are utilized; however, only five (5) are necessary to meet the required oxygen requirements. The aerators are placed in a 2-1-2-1 arrangement around the oxidation ditch. Currently, raw wastewater and sludge supernatant enters the oxidation ditch prior to a set of two (2) aerators, while the overflow weir follows the other set of two (2) aerators. The clarifier is round, with an over and under inlet baffle and includes a surface area of 164 square feet. Return sludge capacity of 50 to 150 percent is accomplished by the two (2), 52.5 gpm sludge transfer pumps. Approximately 474 gpd of one (1) percent sludge is wasted to the aerated sludge holding tank. This tank is capable of holding 10,100 gallons of sludge and has a maximum retention time of 58 days. The two (2), 484 square-foot drying beds further dewater the sludge before it is hauled away by contract. The 240 cubic-foot chlorine contact tank with a LMI chlorine feed pump and polyethylene feed tank provides the facility's disinfection. It has a retention time of 15.75 minutes at the maximum pump rate into the plant of 114 gpm.

Treated effluent from the Shippenville WWTP is discharged into Deer Creek under conditions of National Discharge Elimination System (NPDES) Permit No. PA 0103276. This area is located in Subbasin 17 of the Central Allegheny River Basin.

The Borough conducts plant operation with one (1) certified operator, Russell Rennard. Rennard's client ID is 194415, Operator Certification Class C, E and Subclass 1, 2, 3, 4. A copy of the operator's license is attached in Appendix C. He is responsible for daily operation of the sewage treatment plant. Daily operations include process sampling and recording plant operating data, equipment maintenance, preparation of the monthly Discharge Monitoring Reports and overall plant operation and maintenance. The plant is visited on a daily basis.

Rennard is also responsible for influent and effluent sampling and scheduling of contract laboratory services. Analyses performed on the influent include daily DO, daily pH, biweekly BOD₅, biweekly TSS. In addition biweekly TSS and VSS samples are taken from the mixed liquor oxidation ditch. Effluent analyses include daily DO, daily pH, daily Cl₂ residual, biweekly CBOD₅, biweekly fecal Coliform, and biweekly TSS. DO, pH, and Cl₂ residual analyses are performed on site by WWTF personnel. BOD₅, CBOD₅, TSS and VSS are analyzed by Stewart Laboratories, Inc. in Strattanville, Pennsylvania.

The field/sewer crew personnel include Russell Rennard and Kevin Lauer. The crew's work schedule is Monday through Friday 6:00 am to 2:00 pm. Two (2) hours are worked on Saturday and Sunday. The Borough owns a 1997 Dodge Dump truck and two (2) three (3) inch portable pumps. Contractors available for response to sewer system problems include Clark Electric and McHenry's Welding. McHenry's Welding provides a backhoe when its services are needed.

The facility is owned, operated and administered by the Shippenville Borough. Billing and connection accounts are maintained by the Borough. The Borough meets on a monthly basis to discuss system operations. The Borough addresses matters as they arise and as the operating budget allows.

Biosolids are disposed via transportation to Tri-County Industries landfill in Grove City, PA. A total of 19.33 tons of biosolids were generated at the plant in 2013.

In 2009 smoke tests were performed throughout the system. No major leaks were found. One manhole cover leak was repaired by realigning the insert.

In 2010 eight (8) manholes were inspected with no leaks detected. No sewer system videoing or cleaning took place in 2010. In February 2010 the liquid sodium hypochlorite feed system pump malfunctioned and was replaced.

In 2011 two (2) sludge return pumps were rebuilt and the clarifier gear motor bearings were replaced.

In 2012 the sludge pump at the plant was repaired, the pump from the drying bed to the oxidation ditch was replaced and the chlorine pump was replaced.

In 2013 no repairs or monitoring was completed.

G. CONNECTIONS AND SYSTEM EXTENSIONS

No sewer extensions took place in 2013. No connections were added within the system in 2013 due to the capabilities of the existing facility to receive additional waste volume and the moratorium on taps due to historic hydraulic overloading. One (1) residential tap was removed from the system in 2013. No new taps are projected to be added to the system until wastewater treatment plant upgrades are complete in fall 2015. Following project completion eight (8) new taps are expected to be made for each year. These connections will be located within the proposed Woody Weaver Development.

The Borough authorized Gwin, Dobson & Foreman, Inc., to complete an Act 537 Plan Update in December 2005. The main goals of this plan were to identify the needed upgrades to the treatment plant to eliminate violations and to provide capacity for future growth in the Borough. Elk Township also engaged their engineer to do an Act 537 Plan. In December 2006, the Borough submitted a draft official sewage plan to the Department for review and approval. In a letter dated January 9, 2007 the Department commented on the draft Act 537 Plan and requested additional information. In correspondence dated April 3, 2009, the Borough advised the Department of on-going negotiations with the Paint-Elk Joint Sewer Authority concerning tentative sewer use agreement to allow Borough sewage to be treated at the Paint-Elk Joint Sewer Authority's sewage treatment plant.

Pursuant to a draft agreement submitted by the Paint-Elk Joint Sewer Authority in November of 2009, the Shippenville Borough Council voted to decline the offer. Numerous issues lead to the consensus of declining the agreement. Please see Appendix D for additional details. Due to declining the agreement, Shippenville Borough opted to revisit the options of upgrade or complete replacement of their existing WWTP.

On March 30, 2010 the Department issued a Notice of Violation to the Borough stating the treatment plant continues to discharge to waters of the Commonwealth without a valid NPDES permit or authorization from the Department. A Consent Order and Agreement was entered into on November 4, 2010 between the Borough and the Department stating the Borough must submit an update for the Borough's September 1986 Official Sewage Plan-Act 537 at which time the Department would issue Shippenville Borough WWTP a NPDES Permit renewal. Please refer to Appendix E.

The Shippenville Borough Council resubmitted the Act 537 Plan Update on October 11, 2010. The selected alternative is to construct a new wastewater treatment facility which will provide adequate capacity for future growth in Shippenville Borough and Elk Township and eliminate sanitary sewer overloads. The Department approved the Final Act 537 Plan in September 2012. The new WWTF is expected to be complete in the fall 2015, pending permit approvals and funding acquisition.

H. LIFT STATIONS

A lift station is situated along Route 208 near the Borough line. The lift station contains two (2) Gould grinder pumps installed in 1998. The current design capacity is 1,000 gallons. The maximum pumping rate is 46 gpm. The lift station serves seven (7) residences. The 2010 U.S. Census states the Borough to have a per capita of 2.30. Assume 100 gpd/cap per the Department's Domestic Wastewater Facilities Manual.

$$2.30 \text{ cap} \times 100\text{gpd} = 230 \text{ gpd/cap}$$

$$230 \text{ gpd/cap} \times 7 \text{ residences} = 1,610 \text{ gpd or } 1.12 \text{ gpm}$$

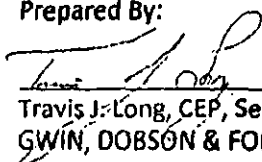
$$1.12 \text{ gpm} \times 2.5 \text{ "peaking factor"} = 2.8 \text{ gpm}$$

There is no metering of run time or flow at the lift station therefore additional information is not available. The lift station is visited once per week for routine inspection. No overflows have been observed.

The lift station appears in good condition. Since 2.8 gpm is well below the rated capacity of the pumps and no EDUs are anticipated to be added to the lift station, the lift station is not anticipated to be overloaded in the next five (5) years.

No repairs were made to the lift station in 2013.

Prepared By:


Travis J. Long, CEP, Senior Project Manager
GWIN, DOBSON & FOREMAN, INC.

Permittee Name:

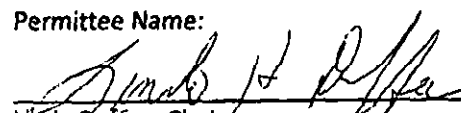

Linda Duffee, Chairman
SHIPPENVILLE BOROUGH

TABLE 1
SHIPPENVILLE BOROUGH
WASTEWATER TREATMENT FACILITY
OBSERVED & PROJECTED HYDRAULIC LOADING (MGD)

OBSERVED HYDRAULIC LOADING (MGD)							
Month	Year					Five Year Averages	
	2009	2010	2011	2012	2013		
Jan	0.022	0.025	0.036	0.065	0.044	Current	Previous
Feb	0.038	0.019	0.056	0.040	0.037		
Mar	0.026	0.024	0.082	0.052	0.037		
Apr	0.024	0.013	0.075	0.030	0.040		
May	0.015	0.016	0.048	0.029	0.023		
Jun	0.016	0.015	0.031	0.027	0.035		
Jul	0.014	0.014	0.026	0.035	0.040		
Aug	0.017	0.014	0.027	0.034	0.024		
Sep	0.013	0.013	0.035	0.031	0.024		
Oct	0.018	0.020	0.041	0.034	0.024		
Nov	0.016	0.035	0.019	0.032	0.036		
Dec	0.026	0.055	0.050	0.048	0.056		
Annual Average	0.020	0.022	0.044	0.038	0.035	0.032	0.029
MTCMA	0.029	0.036	0.071	0.052	0.0392	0.046	0.045
Ratio	1.45	1.66	1.62	1.38	1.12	1.44	1.55

NOTES:

MTCMA is the Maximum Three Consecutive Months' Average.

Highlighted figures indicate the Maximum Three Consecutive Months' Average hydraulic loading for the year.

Ratio is the MTCMA divided by the Annual Average for the particular year.

The current permitted hydraulic capacity of the facility is 0.050 MGD. After the plant upgrade project is complete permitted hydraulic capacity will be increased to 0.10 MGD.

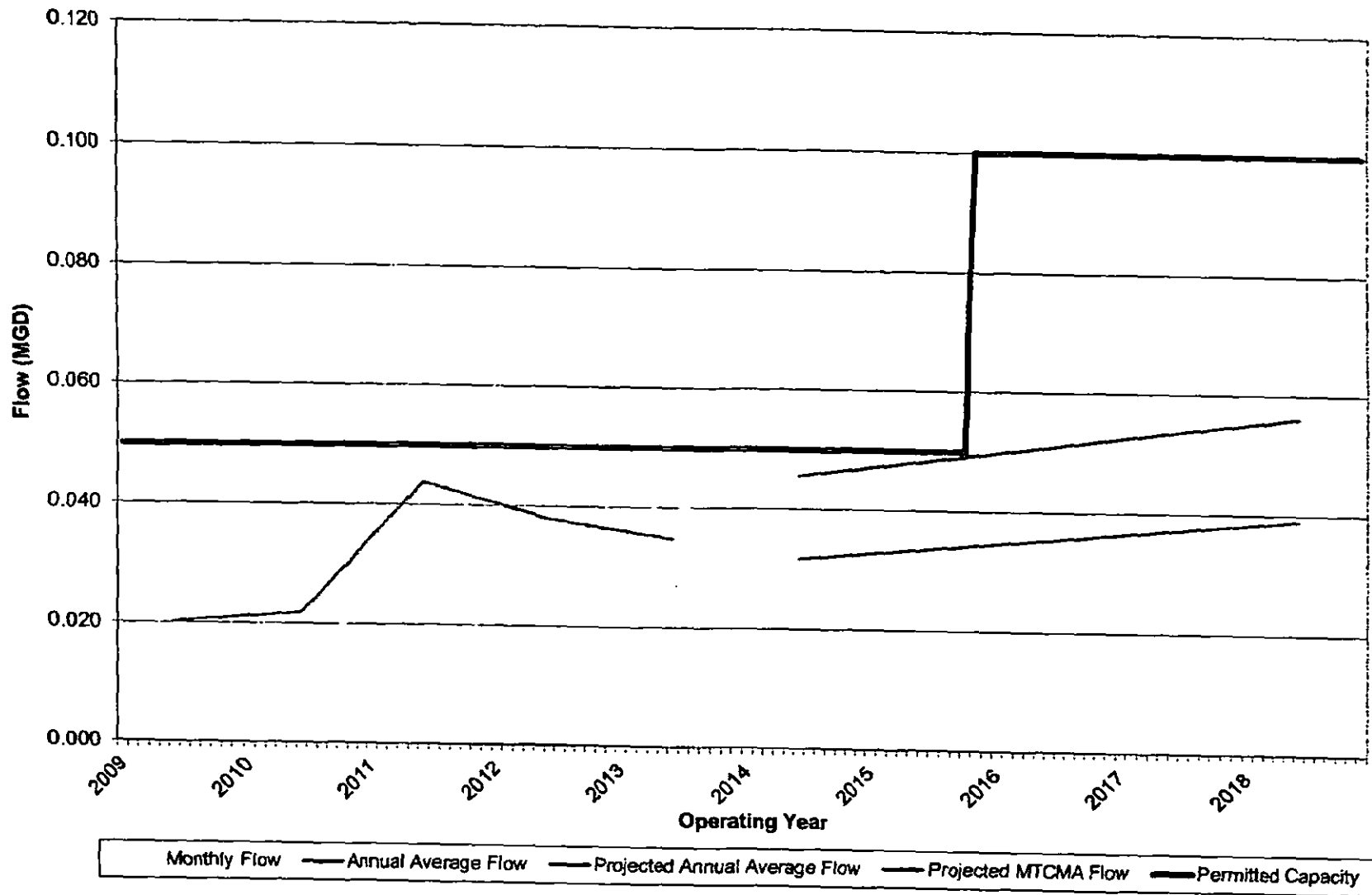
FIVE YEAR PROJECTED HYDRAULIC LOADING (MGD)							
Year	Previous Flow	Additional EDUs	Increased Flow	Projected Flow	Projection Factor	Projected MTCMA	Permitted Capacity
2014	0.032	0	0.000	0.032	1.44	0.046	0.050
2015	0.032	8	0.002	0.034	1.44	0.048	0.100
2016	0.034	8	0.002	0.035	1.44	0.051	0.100
2017	0.035	8	0.002	0.037	1.44	0.054	0.100
2018	0.037	8	0.002	0.039	1.44	0.056	0.100

NOTES:

The current five year average annual hydraulic loading is used as the basis for hydraulic loading projections.

Each additional EDU is estimated to contribute a hydraulic load of 230 gallons per EDU.

Shippenville Borough - Clarion County
Figure 1 - Observed & Projected Hydraulic Loading



**TABLE 2
SHIPPENVILLE BOROUGH
WASTEWATER TREATMENT FACILITY
OBSERVED & PROJECTED ORGANIC LOADING (LBS/DAY)**

OBSERVED ORGANIC LOADING (LBS/DAY)							
Month	Year						
	2009	2010	2011	2012	2013		
Jan	44	47	53	112	187		
Feb	39	42	90	117	272		
Mar	23	56	57	93	92		
Apr	47	26	76	176	25		
May	30	29	71	76	41		
Jun	65	40	141	83	76		
Jul	26	35	44	70	114		
Aug	44	31	80	48	207		
Sep	30	51	61	62	132		
Oct	37	59	69	58	179	Five Year Averages	
Nov	30	41	50	77	191	Current	Previous
Dec	18	74	70	83	173		
Annual Average	36	44	72	88	141	76	57
Maximum Month	65	74	141	176	272	146	103
Ratio	1.80	1.67	1.96	2.00	1.93	1.91	1.82

NOTES:

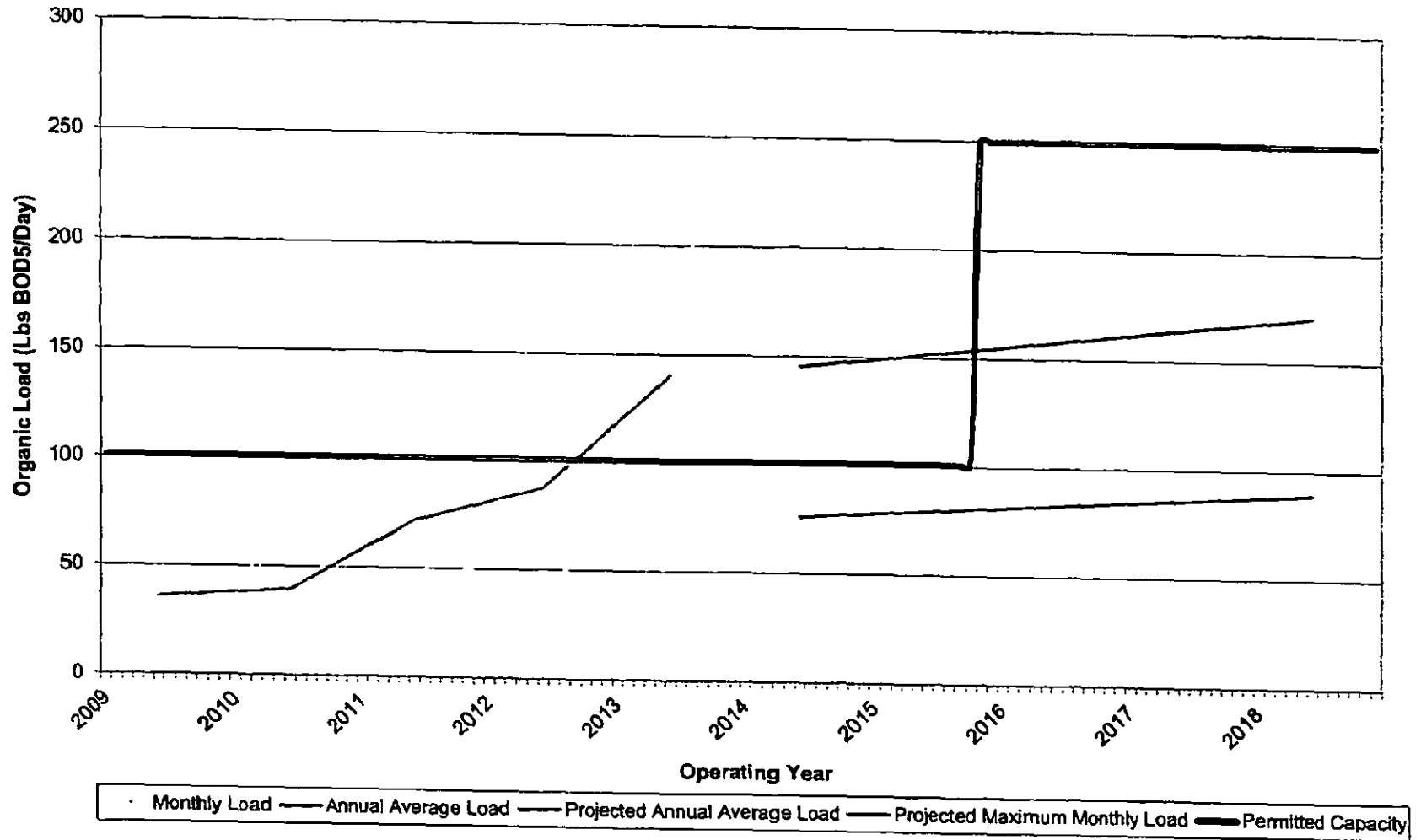
Bold figures are the maximum month's organic loading for the year
 Ratio is the maximum month divided by the annual average for that year.
 The permitted organic capacity of the facility is 105 lbs/day.

FIVE YEAR PROJECTED ORGANIC LOADING (LBS/DAY)							
Year	Previous Load	Additional EDUs	Increased Load	Projected Load	Projection Factor	Projected Max. Mo.	Permitted Capacity
2014	76	0	0.0	76	1.91	146	101
2015	76	8	3.3	79	1.91	152	250
2016	79	8	3.3	83	1.91	158	250
2017	83	8	3.3	86	1.91	164	250
2018	86	8	3.3	89	1.91	171	250

NOTES:

The current five year average annual organic loading is used as the basis for organic loading projections.
 Each additional EDU is estimated to contribute an organic load of 0.41 lbs/day per EDU.

Shippenville Borough - Clarion County
Figure 2 - Observed & Projected Organic Loading



APPENDIX A

CHLORINE RESIDUAL VALUES

**SHIPPENVILLE BOROUGH
WASTEWATER TREATMENT FACILITY
2013 CHLORINE RESIDUALS
All Values Shown in mg/l**

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.23	0.30	0.25	0.21	0.25	0.21	0.38	1.30	0.70	0.06	0.08	0.18
2	0.25	0.27	0.27	0.11	0.21	0.11	0.24	1.30	0.50	0.06	0.07	0.95
3	0.20	0.25	0.23	0.15	0.26	0.05	0.14	1.50	0.04	0.13	0.08	0.92
4	0.21	0.21	0.25	0.32	0.21	0.14	0.19	1.30	0.03	0.15	0.06	1.20
5	0.24	0.23	0.43	0.27	0.24	0.12	0.06	0.04	0.03	0.17	0.10	0.90
6	0.26	0.20	0.45	0.25	0.21	0.46	0.17	0.12	0.04	0.19	0.06	0.90
7	0.25	0.21	0.40	0.27	0.23	0.46	0.21	0.05	0.03	0.06	0.30	0.12
8	0.19	0.35	0.41	0.22	0.21	0.38	0.18	0.04	0.04	0.04	0.10	0.12
9	0.19	0.36	0.24	0.25	0.23	0.31	0.15	0.02	0.06	0.06	0.19	0.10
10	0.20	0.35	0.24	0.07	0.19	0.10	1.36	0.07	0.05	0.05	0.17	0.11
11	0.19	0.36	0.12	0.15	0.14	0.05	0.97	0.05	0.04	0.07	0.08	0.06
12	0.20	0.36	0.12	0.21	0.21	0.04	0.14	0.09	0.12	0.07	0.09	0.06
13	0.21	0.36	0.15	0.21	0.25	0.05	0.04	0.02	0.03	0.08	0.09	0.09
14	0.19	0.17	0.18	0.22	0.54	0.04	0.04	0.12	0.12	0.05	0.09	0.09
15	0.22	0.17	0.39	0.09	0.35	0.03	0.13	0.02	0.11	0.06	0.09	0.09
16	0.20	0.19	0.37	0.17	0.04	0.04	0.19	0.04	0.05	0.07	0.09	0.22
17	0.23	0.19	0.35	0.21	0.02	0.17	0.13	0.12	0.04	0.09	0.09	0.09
18	0.23	0.53	0.30	0.23	0.03	0.02	0.05	0.15	0.05	0.09	0.08	0.28
19	0.21	0.55	0.29	0.21	0.14	0.02	0.17	0.05	0.06	0.09	0.45	0.79
20	0.23	0.30	0.30	0.22	0.03	0.53	0.19	0.12	0.15	0.08	0.18	0.15
21	0.21	0.27	0.21	0.27	0.01	0.04	0.18	0.06	0.08	0.07	0.18	0.19
22	0.22	0.25	0.21	0.31	0.01	0.05	0.19	0.05	0.06	0.12	0.18	0.12
23	0.21	0.30	0.20	0.27	0.05	0.03	0.21	0.05	0.08	0.08	0.19	0.15
24	0.22	0.25	0.25	0.23	0.03	0.21	0.17	0.02	0.06	0.08	0.21	0.15
25	0.21	0.19	0.29	0.21	0.09	0.02	0.13	0.03	0.09	0.09	0.26	0.15
26	0.22	0.19	0.29	0.22	0.12	0.07	0.17	0.02	0.07	0.10	0.26	0.12
27	0.21	0.20	0.30	0.19	0.13	0.05	0.03	0.03	0.05	0.11	0.24	0.15
28	0.22	0.21	0.25	0.15	0.03	0.04	0.04	0.02	0.90	0.17	0.21	0.14
29	0.18		0.30	0.16	0.01	0.28	0.04	0.04	0.13	0.07	0.19	0.15
30	0.38		0.25	0.23	0.05	0.46	0.07	0.07	0.06	0.07	0.18	0.15
31	0.35		0.27		0.03		0.03	0.01		0.07		0.15
AVERAGE	0.22	0.28	0.28	0.21	0.15	0.15	0.21	0.22	0.13	0.09	0.15	0.29

ANNUAL AVERAGE = 0.20
MAXIMUM MONTHLY AVERAGE = 0.29

Note: Shippenville Borough's NPDES chlorine residual limits are 0.5 mg/l monthly average and 1.2 mg/l instantaneous maximum.

APPENDIX B

FLOW CALIBRATION REPORT

HCS - Instrumentation Division

326 Cycle Drive
Portersville, PA 16051
P: (724) 368-9282
F: (724) 368-9264

Certificate of Calibration

Customer: SHIPPENUILLE WWTP

Model #: ULTRASONIC

S.N.: STI341 (Password - 0341)


Type of Primary Device: 90° V-NOTCH WEIR

Date of Calibration: 10-18-13

Remarks: _____

STI READING 32 GPM
MEASURED FLOW PER 31 GPM @ .335 Feet of Head
ISLO TABLE

Class 392 Recorder Calibrated with Fluke 789 PROCESS METER.
0-385 GPM



Andrew Scott, Jr.
I.S.A. CCST # 12543

APPENDIX C

CERTIFIED OPERATOR LICENSE

Commonwealth of Pennsylvania

Department of Environmental Protection

*In accordance with the
State Board for Certification of Water and Wastewater Systems Operators
and the Regulations of the
Department of Environmental Protection*

RUSSELL L RENNARD

Is Hereby Authorized to Operate
WASTEWATER SYSTEM

Class: C,E
Subclass: 1,2,3,4

Client ID: 194415

RUSSELL L RENNARD
3202 ROUTE 322
KNOX PA 16232-7020

Issue Date Jul 01, 2013
Expiration Date Jun 30, 2016

Certificate No. T4054


Board Chairman

APPENDIX D

INTERMUNICIPAL AGREEMENT CORRESPONDENCE



GWIN
DOBSON &
FOREMAN

Professional Engineers, Inc.

December 30, 2009

Borough of Shippenville
106 North School Street
P.O. Box 244
Shippenville, PA 16254-0244

Attn: Colleen Smith, Borough Secretary

Re: **Paint-Elk Joint Sewer Authority (PEJSA)
Intermunicipal Agreement**

Dear Borough Council:

Gwin, Dobson & Foreman reviewed the Intermunicipal agreement prepared by the Paint-Elk Joint Sewer Authority. We believe the agreement should be modified to address fundamental provisions appropriate to a large municipal discharger like Shippenville Borough. Therefore, the following comments have been confined to general provisions and not specific details.

- Our first impression is that the agreement lacks fundamental provisions for a large municipal discharger that will occupy significant capacity in a downstream municipal treatment plant.
- The basic problem is that PEJSA wants to bill the Borough as a "bulk customer" and, at the same time, assess a \$2 million capital contribution. However, PEJSA does not allow the Borough to purchase capacity at the plant. The issue of purchasing plant capacity should be a fundamental part of the agreement.
- Under Act 57, PEJSA can assess a connection fee to new users that includes a "capacity part" provision. This capacity fee allows system owners to recover their initial capital investment in the original plant construction (or the prospective costs for a future plant upgrade), not unlike a "capital contribution." However, the capacity and connection fee must be carefully calculated and uniformly applied according to Act 57 requirements. The Borough should expect to pay a cost for the capital cost of the PESJA treatment plant. The question is, how much?
- Under Act 57, the statute is very specific about the methods used to compute the connection fee. In the case of the Borough, the connection charge would, in all likelihood, be based on an equivalent dwelling unit (EDU) basis or related flow factor.

- No computations were provided to justify the proposed \$2 million "capital contribution." We assume the \$2 million to be PEISA's original capital investment in the plant or some prospective cost of a future plant addition. However, no documentation or support information was provided. As previously mentioned, any capital charges must be computed in accordance with the statute (Act 57).
- Under the proposed sewer rate assessment, the Borough would be treated no differently than any other bulk user of the system, although they would be forced to pay a major capital contribution. The PESJA states that the "overage" sewer rate would apply to the Borough based on their anticipated flow to the plant. It is unknown what burden of the total O&M cost is borne by these large users. This is normally set forth in a rate study based on actual cost and allocation by user tier. Regardless, the method of assessing sewer rates is incompatible with a large municipal user (Borough) that is forced to pay a large capital contribution.
- Under the assumption that the Borough purchases capacity at the PESJA plant, then the Borough, in a manner of speaking, would be "part owner" of the treatment plant. In this case (which is the norm in these types of arrangements) the assessment of yearly operating costs should be on the basis of proportional use or actual metered flow. For instance, the Borough would be billed for their fair share of the treatment plant cost based on the Borough's actual flow. The Borough flow is in proportion to the total actual flow recorded at the PESJA plant. The issue of yearly sewer rate assessment should be a fundamental part of the agreement.
- The agreement states that the Borough would be responsible for all plant upgrades. However, the Borough should not be expected to pay for unit operations that address PESJA problems such as excessive inflow/infiltration (oversized clarifiers, biological treatment units, pump stations, etc). The PESJA should provide a detailed facilities plan that includes technical details on the original (or future) design of the plant and previous Chapter 94 reports to confirm design assumptions.
- In its present form, we do not recommend that the Borough adopt the proposed agreement in its present form without substantial modification. Specifically, any revised agreement should include a) the method for the Borough to purchase plant capacity, b) the justification for the PESJA capital contribution (or Act 57 connection/capacity fee) and c) the method for assessing and sharing annual O&M costs other than being billed as a "bulk sewer" customer.
- We have attached a copy of the Foxburg Borough and St. Petersburg-Richland Regional Authority intermunicipal agreement with considerably more application than the PEISA agreement. It is structured under the recommended cost sharing and capacity arrangement.

Based on the provisions of this agreement, we believe an alternatives evaluation should be performed. The Borough should reassess the cost effectiveness of upgrading their existing wastewater treatment plant versus the current cost to be a PESJA customer.

Borough of Shippenville

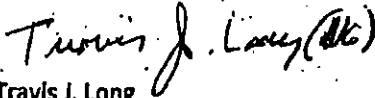
December 30, 2009

Page 3

This connection cost must consider the PESJA's capital contribution, proposed O&M cost and the Borough's Interceptor sewer cost. Depending on the results, the upgrade of the Borough plant may be more cost effective in the long run. We have attach

We trust this information is sufficient for your needs. If you have any questions, please contact our office at your convenience.

Respectfully submitted,
GWIN, DOBSON & FOREMAN, INC.



Travis J. Long

Senior Environmental Scientist



Mark Glenn, P.E.

President

xc: Central File

06002/corresp/06002-12

Enclosures

APPENDIX E

**NOTICE OF VIOLATIONS,
CONSENT ORDER AND AGREEMENT**

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In the Matter of:

SHIPPENVILLE BOROUGH : Clean Streams Law
P.O. Box 244 : Sewage Facilities Act
Shippenville, PA 16254 :

CONSENT ORDER AND AGREEMENT

This Consent Order and Agreement is entered into this 4th day of November 2010,
by and between the Commonwealth of Pennsylvania, Department of Environmental Protection
("Department") and Shippenville Borough ("Shippenville").

Findings

The Department has found and determined the following:

- A. The Department is the agency with the duty and the authority to administer and enforce The Clean Streams Law, Act of June 22, 1937, P.L. 1987, *as amended*, 35 P.S. §§691.1-691.1001 ("Clean Streams Law"); the Pennsylvania Sewage Facilities Act, Act of January 24, 1966, P.L. 1535, *as amended*, 35 P.S. §§750.1-750.20a ("Sewage Facilities Act"); Section 1917-A of the Administrative Code of 1929, Act of April 9, 1929, P.L. 177, *as amended*, 71 P.S. §§510-17 ("Administrative Code"); and the rules and regulations promulgated thereunder ("Regulations").
- B. Shippenville is a "municipality" as defined in Section 1 of the Clean Streams Law, 35 P.S. §691.1, and has a mailing address of P.O. Box 244 Shippenville, PA 16254.
- C. Shippenville owns, operates, and maintains a sewer system and sewage treatment plant ("Plant") that serves the residents of the Borough (collectively "Sewerage Facilities"). The Plant is located along State Route 208, in Elk Township, Clarion County, Pennsylvania.

I. For settlement purposes only, the Department has agreed to treat the NPDES Permit as administratively extended until the date the Department issues a NPDES permit to Shippenville in accordance with this Consent Order and Agreement.

J. On September 18, 2010, the Department published a notice of the draft NPDES permit in the *Pennsylvania Bulletin* and Shippenville has reviewed and commented on the draft. Upon signing this Consent Order and Agreement, the Department will issue the final NPDES Permit to Shippenville, which Shippenville has agreed not to appeal. The final NPDES Permit is attached as Exhibit B and incorporated by reference.

Sewage Facilities Planning

K. Section 5 of the Sewage Facilities Act, 35 P.S. §750.5, and 25 Pa. Code §71.11, requires municipalities to develop and implement comprehensive Official Plans that provide for the resolution of existing sewage disposal problems, and the future sewage disposal needs of new land development, and provide for the future sewage disposal needs of the municipality. Official Plans must be developed, submitted to the Department for approval, and implemented by municipalities under the Sewage Facilities Act.

L. On September 15, 1986, pursuant to the Sewage Facilities Act, the Department approved an Official Plan for Shippenville, entitled "*Official Sewage Plan- Act 537- Borough of Shippenville*" ("September 1986 Official Plan").

M. Pursuant to 25 Pa. Code §71.12, municipalities shall review and revise their Official Plan whenever the municipality or the Department determines that the plan is inadequate to meet the existing or future sewage disposal needs of the municipality or portion thereof.

N. The Department has determined that the September 1986 Official Plan is inadequate to meet the existing and future sewage disposal needs of the Shippenville because the Plant continues to exceed the effluent limitations set forth in the NPDES Permit.

1. **Authority.** This Consent Order and Agreement is an Order of the Department authorized and issued pursuant to Section 610 of the Clean Streams Law, 35 P.S. §691.610; Section 10 of the Sewage Facilities Act, 35 P.S. §750.10; and Section 1917-A of the Administrative Code.

2. **Findings.**

a. Shippenville agrees that the Findings in Paragraphs A through T are true and correct and, in any matter or proceeding involving Shippenville, and the Department, Shippenville shall not challenge the accuracy or validity of these Findings.

b. The Parties do not authorize any other persons to use the Findings in this Consent Order and Agreement in any matter or proceeding.

3. **Obligations.**

a. **Compliance with Law.** Shippenville shall take all actions necessary, including obtaining all necessary funding and permits and/or planning documents, to attain and thereafter maintain compliance with the Clean Streams Law, the Sewage Facilities Act, all relevant Regulations, and this Consent Order and Agreement.

b. **Official Plan Update Revision.** Shippenville shall perform the following tasks in accordance with the following schedule:

- i. By November 1, 2010, Shippenville shall submit to the Department draft Update Revision to its September 1986 Official Plan. The draft Update Revision shall evaluate alternatives and recommend an alternative which shall adequately address the existing and future sewage needs of Shippenville. The draft Update Revision shall be submitted in accordance with 25 Pa. Code §§71.21 and 71.31, and shall contain an implementation schedule that, among other things, provides for the implementation of all projects by October 31, 2013.
- ii. Within 90 days of receiving comments from the Department concerning the draft Update Revision, Shippenville shall submit to the Department an Administratively Complete final Update Revision ("Final Update Revision") that addresses the Department's comments, and a resolution from Shippenville evidencing adoption of the Final Update Revision as a revision to its September 1986 Official Plan.

7. *Civil Penalty Settlement.*

a. Upon signing this Consent Order and Agreement, Shippenville shall pay a civil penalty of \$2,000, which Shippenville hereby agrees to pay. The payment is in settlement of the Department's claim for civil penalties for the violations set forth in Paragraphs Q and R, above, covering the dates set forth herein.

b. The payment shall be made by municipal check or the like made payable to Commonwealth of Pennsylvania Clean Water Fund and sent to the individual at the address set forth in Paragraph 14 (Correspondence with the Department), below.

8. *Stipulated Civil Penalties.* If Shippenville fails to comply in a timely manner with any applicable term or provision of this Consent Order and Agreement, Shippenville shall be in violation of this Consent Order and Agreement.

a. In addition to other applicable remedies, Shippenville shall pay the following penalties for the following violations:

i. \$100 per day for missing the deadline set forth in Paragraph 3.b.i, above, until the date the document is received by the Department; and

ii. \$250 per month for any and all effluent discharge violations reported on the monthly Discharge Monitoring Reports.

b. Stipulated civil penalty payments shall be payable monthly on or before the 30th day of each succeeding month, and shall be made by corporate check or the like made payable to Commonwealth of Pennsylvania, Clean Water Fund and sent to the individual at the address set forth in Paragraph 14 (Correspondence with the Department), below.

c. Any payment under this Paragraph shall neither waive Shippenville's duty to meet its respective obligations under this Consent Order and Agreement nor preclude the Department from commencing an action to compel Shippenville's compliance with the terms and

11. **Reservation of Rights.** The Department reserves the right to require additional measures to achieve compliance with applicable law. Shippenville reserves the right to challenge any action which the Department may take to require those measures.

12. **Liability of Shippenville.** Shippenville shall be severally liable for any violations of the Consent Order and Agreement, including those caused by, contributed to, or allowed by its Borough Council, agents, employees, contractors, successors, and assigns.

13. **Transfer of the Sewerage Facilities and Plant.**

a. Shippenville's duties and obligations under this Consent Order and Agreement shall not be modified, diminished, terminated, or otherwise altered by the transfer of any legal or equitable interest in the Sewerage Facilities, the Plant, or any part thereof.

b. If Shippenville intends to transfer any legal or equitable interest in the Sewerage Facilities, the Plant, or any part thereof, Shippenville shall serve a copy of this Consent Order and Agreement upon the prospective transferee of the legal and equitable interest at least 30-days prior to the contemplated transfer and shall simultaneously inform the Department of such intent pursuant to Paragraph 14 (Correspondence with Department), below.

c. The Department in its sole discretion may agree to modify or terminate Shippenville's duties and obligations under this Consent Order and Agreement upon transfer of the Sewerage Facilities, the Plant, or any part thereof, and the transferee entering into an enforceable document with the Department concerning the remainder of Shippenville's obligations. Shippenville agrees to waive any right that it may have to challenge the Department's decision in this regard.

18. **Entire Agreement.** This Consent Order and Agreement shall constitute the entire integrated agreement of the Parties. No prior or contemporaneous communications or prior drafts shall be relevant or admissible for purposes of determining the meaning or intent of any provisions herein in any litigation or any other proceeding.

19. **Attorney Fees.** The Parties shall bear their respective attorney fees, expenses, and other costs in the prosecution or defense of this matter or any related matters, arising prior to execution of this Consent Order and Agreement.

20. **Modifications.** No changes, additions, modifications, or amendments of this Consent Order and Agreement shall be effective unless they are set out in writing and signed by the Parties.

21. **Titles.** A title used at the beginning of any Paragraph of this Consent Order and Agreement may be used to aid in the construction of that Paragraph, but shall not be treated as controlling.

22. **Termination of Consent Order and Agreement.**

a. Shippenville's obligations, but not the Findings, of this Consent Order and Agreement shall terminate when Shippenville has: 1) completed all of the requirements of this Consent Order and Agreement; 2) achieved compliance with the Clean Streams Law, the Sewage Facilities Act, and all applicable Regulations, and 3) paid any outstanding penalties due under Paragraphs 8 and 9 of this Consent Order and Agreement.

b. Shippenville's compliance with this Consent Order and Agreement shall be determined by the Department and shall not be appealable by Shippenville.

c. The Department, in its sole discretion, may decide to terminate this Consent Order and Agreement at any time after October 31, 2013, and Shippenville agrees to waive its right to appeal any decision in this regard.


Resolution Number 10-03

THIS RESOLUTION, approved and adopted by the Borough Council of Shippenville Borough, Clarion County, Pennsylvania on the date hereinafter set forth.


WITNESSETH:

BE IT RESOLVED we, the undersigned of Shippenville Borough, this 08th Day of September, 2010 do hereby authorize by signature below to enter into Consent Order and Agreement with the Commonwealth of Pennsylvania, Department of Environmental Protection.

Council of Shippenville Borough:


President

ATTEST:


Borough Secretary





pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHWEST REGIONAL OFFICE

March 30, 2010

NOTICE OF VIOLATION

CERTIFIED MAIL NO. 7009 1410 0001 0415 4449

Mr. Michael Cotherman
Shippenville Borough Municipal Authority
106 School Street
P.O. Box 244
Shippenville, PA 16254

Re: Shippenville Borough Sewage Treatment Plant
Elk Township, Clarion County

Dear Mr. Cotherman:

This Notice of Violation letter is to provide documentation that the Shippenville Borough Municipal Authority ("Shippenville") sewage treatment plant ("STP") continues to discharge to waters of the Commonwealth without a valid NPDES permit or authorization from the Department. The NPDES Permit No. PA0103276 ("NPDES Permit") issued to Shippenville on October 11, 2000, expired at midnight on October 10, 2005, and could not be administratively extended or renewed due to ongoing violations at the STP. This situation was explained in a previous Notice of Violation dated March 13, 2008.

In addition, the Discharge Monitoring Reports submitted by Shippenville throughout 2008 and 2009 show that the STP would have continued to violate previous effluent limits for Total Residual Chlorine, Total Suspended Solids, pH, CBOD5 and Fecal Coliform.

Discharging without a valid NPDES Permit or authorization from the Department constitutes daily violations of Sections 201, 202 and 401 of the Clean Streams Law, 35 P.S. §§691.201, 691.202, and 691.401; unlawful conduct under Section 611 of the Clean Streams Law, 35 P.S. §691.611, and may subject the Shippenville to civil penalties pursuant to Section 605 of the Clean Streams Law, 35 P.S. §691.605.

The Department is aware that Shippenville has elected not to pursue connecting to the Paint-Elk Joint Sewer Authority's sewage treatment plant, but instead, revisit the options of upgrading or replacing the existing STP. A revised Act 537 Plan Update is anticipated to be submitted to the Department for review by summer 2010.

Mr. Michael Cotherman

-2-

March 30, 2010

Since Shippenville is in the process of developing a plan to address the aforementioned compliance issues, no response to this notice is required. However, the Department plans to draft a proposed Consent Order and Agreement to settle any and all of Shippenville's past violations and to ensure the timely submittal and implementation of Shippenville's proposed Act 537 Plan. Once a Consent Order and Agreement has been executed, the Department can legally issue a new NPDES permit to you. A proposed Consent Order and Agreement will be drafted and is forthcoming for your review and comment.

This Notice of Violation is neither an order nor any other final action of the Department. It neither imposes nor waives any enforcement action available to the Department under any of its statutes. If the Department determines that an enforcement action is appropriate, you will be notified of the action.

If you have any questions, please call me at 814.332.6942.

Sincerely,



Eric C. Kicher
Water Quality Specialist Supervisor
Water Management

cc: Clint Stonesifer
Chris Hall (2 copies)
Eric Kicher
Corres. File through Rick Gilson/Christina Nagy/Chris Hall

ECK:lsf

Exhibit A: Summary of Effluent Discharge Exceedances

Shippenville Borough NPDES Permit No. PA0103276

(April 2005 through July 2010)

Month	Parameter	Reported Value	NPDES Permit Limit
April 2005	CBOD ₅	11.1 lbs/day	10.5 lbs/day (monthly average loading)
	CBOD ₅	17.8 lbs/day	16.7 lbs/day (weekly average loading)
	CBOD ₅	32 mg/l	25 mg/l (monthly average concentration)
	CBOD ₅	44 mg/l	40 mg/l (weekly average concentration)
	TSS	34 mg/l	30 mg/l (monthly average concentration)
	pH	5.5 s.u.	Minimum 6.0 standard units (s.u.)
May 2005	CBOD ₅	27.9 mg/l	25 mg/l (monthly average concentration)
	TSS	14.9 lbs/day	12.5 lbs/day (monthly average loading)
	TSS	20.6 lbs/day	18.8 lbs/day (weekly average loading)
	TSS	78 mg/l	30 mg/l (monthly average concentration)
	TSS	100 mg/l	45 mg/l (weekly average concentration)
	pH	5.6 s.u.	Minimum 6.0 s.u.
June 2005	TSS	36.5 mg/l	30 mg/l (monthly average concentration)
	Fecal Coliform	5656/100 ml	200/100 ml (monthly average geo mean)
	pH	5.2 s.u.	Minimum 6.0 s.u.
July 2005	TSS	36 mg/l	30 mg/l (monthly average concentration)
	Fecal Coliform	2236/100 ml	200/100 ml (monthly average geo mean)
	pH	3.9 s.u.	Minimum 6.0 s.u.
August 2005	Fecal Coliform	456/100 ml	200/100 ml (monthly average geo mean)
September 2005	TSS	18.5 lbs/day	12.5 lbs/day (monthly average loading)
	TSS	33.2 lbs/day	18.8 lbs/day (weekly average loading)
	TSS	41 mg/l	30 mg/l (monthly average concentration)
	TSS	65 mg/l	45 mg/l (weekly average concentration)
	Fecal Coliform	316/100 ml	200/100 ml (monthly average geo mean)
	pH	5.8 s.u.	Minimum 6.0 s.u.
October 2005	pH	5.6 s.u.	Minimum 6.0 s.u.
November 2006	TSS	16.5 lbs/day	12.5 lbs/day (monthly average loading)
	TSS	22.7 lbs/day	18.8 lbs/day (weekly average loading)
	TSS	36 mg/l	30 mg/l (monthly average concentration)
	pH	4.9 s.u.	Minimum 6.0 s.u.
December 2006	CBOD ₅	32 mg/l	25 mg/l (monthly average concentration)
	CBOD ₅	52 mg/l	40 mg/l (weekly average concentration)
	TSS	162 lbs/day	12.5 lbs/day (monthly average loading)
	TSS	235 lbs/day	18.8 lbs/day (weekly average loading)
	TSS	55 mg/l	30 mg/l (monthly average concentration)
	TSS	77 mg/l	45 mg/l (weekly average concentration)
	pH	5.6 s.u.	Minimum 6.0 s.u.
January 2007	CBOD ₅	28 mg/l	25 mg/l (monthly average concentration)
	CBOD ₅	49 mg/l	40 mg/l (weekly average concentration)
	pH	5.6 s.u.	Minimum 6.0 s.u.

February 2007	CBOD ₅ TSS pH	32 mg/l 37 mg/l 5.6 s.u.	25 mg/l (monthly average concentration) 30 mg/l (monthly average concentration) Minimum 6.0 s.u.
March 2007	TSS TSS pH	48 mg/l 59 mg/l 5.7 s.u.	30 mg/l (monthly average concentration) 45 mg/l (weekly average concentration) Minimum 6.0 s.u.
April 2007	TSS TSS TSS TSS pH	77 lbs/day 103 lbs/day 41 mg/l 52 mg/l 5.5 s.u.	12.5 lbs/day (monthly average loading) 18.8 lbs/day (weekly average loading) 30 mg/l (monthly average concentration) 45 mg/l (weekly average concentration) Minimum 6.0 s.u.
May 2007	Fecal Coliform pH	2078/100 ml 4.9 s.u.	200/100 ml (monthly average geo mean) Minimum 6.0 s.u.
June 2007	Fecal Coliform pH	5366/100 ml 5.0 s.u.	200/100 ml (monthly average geo mean) Minimum 6.0 s.u.
July 2007	Fecal Coliform pH	2049/100 ml 5.1 s.u.	200/100 ml (monthly average geo mean) Minimum 6.0 s.u.
August 2007	TSS TSS Fecal Coliform pH	45 mg/l 46 mg/l 3471/100 ml 4.6 s.u.	30 mg/l (monthly average concentration) 45 mg/l (weekly average concentration) 200/100 ml (monthly average geo mean) Minimum 6.0 s.u.
September 2007	Fecal Coliform pH	64990/100 ml 5.3 s.u.	200/100 ml (monthly average geo mean) Minimum 6.0 s.u.
October 2007	pH	5.8 s.u.	Minimum 6.0 s.u.
November 2007	pH	5.6 s.u.	Minimum 6.0 s.u.
December 2007	TSS TSS pH	49 mg/l 72 mg/l 5.6 s.u.	30 mg/l (monthly average concentration) 45 mg/l (weekly average concentration) Minimum 6.0 s.u.
January 2008	TSS TSS pH	40 mg/l 58 mg/l 5.5 s.u.	30 mg/l (monthly average concentration) 45 mg/l (weekly average concentration) Minimum 6.0 s.u.
February 2008	TSS TSS pH	43 mg/l 51 mg/l 5.8 s.u.	30 mg/l (monthly average concentration) 45 mg/l (weekly average concentration) Minimum 6.0 s.u.
March 2008	CBOD ₅ CBOD ₅ TSS TSS pH	20.9 lbs/day 23.9 lbs/day 115.8 lbs/day 190.3 lbs/day 5.9 s.u.	10.5 lbs/day (monthly average loading) 16.7 lbs/day (weekly average loading) 12.5 lbs/day (monthly average loading) 18.8 lbs/day (weekly average loading) Minimum 6.0 s.u.
April 2008	CBOD ₅ CBOD ₅ TSS TSS pH	23.9 lbs/day 36.8 lbs/day 33.4 lbs/day 44.6 lbs/day 5.2 s.u.	10.5 lbs/day (monthly average loading) 16.7 lbs/day (weekly average loading) 12.5 lbs/day (monthly average loading) 18.8 lbs/day (weekly average loading) Minimum 6.0 s.u.
May 2008	Fecal Coliform pH	9197/100 ml 5.8 s.u.	200/100 ml (monthly average geo mean) Minimum 6.0 s.u.

June 2008	TSS TSS Fecal Coliform pH	44 mg/l 46 mg/l 4249/100 ml 5.7 s.u.	30 mg/l (monthly average concentration) 45 mg/l (weekly average concentration) 200/100 ml (monthly average geo mean) Minimum 6.0 s.u.
July 2008	TSS TSS Fecal Coliform pH	84 mg/l 131 mg/l 6324/100 ml 5.3 s.u.	30 mg/l (monthly average concentration) 45 mg/l (weekly average concentration) 200/100 ml (monthly average geo mean) Minimum 6.0 s.u.
August 2008	pH	5.4 s.u.	Minimum 6.0 s.u.
November 2008	TRC pH	.6 mg/l 5.9 s.u.	.5 mg/l (monthly average concentration) Minimum 6.0 s.u.
January 2009	TSS TSS TSS TSS	13.4 lbs/day 20.8 lbs/day 42 mg/l 47 mg/l	12.5 lbs/day (monthly average loading) 18.8 lbs/day (weekly average loading) 30 mg/l (monthly average concentration) 45 mg/l (weekly average concentration)
February 2009	pH	5.5 s.u.	Minimum 6.0 s.u.
March 2009	pH	5.0 s.u.	Minimum 6.0 s.u.
May 2009	Fecal Coliform TRC	629/100 ml .6 mg/l	200/100 ml (monthly average geo mean) .5 mg/l (monthly average concentration)
June 2009	TRC	1.5 mg/l	.5 mg/l (monthly average concentration)
August 2009	Fecal Coliform	762/100 ml	200/100 ml (monthly average geo mean)
September 2009	Fecal Coliform TRC	894/100 ml .7 mg/l	200/100 ml (monthly average geo mean) .5 mg/l (monthly average concentration)
October 2009	TRC	1.0 mg/l	.5 mg/l (monthly average concentration)
November 2009	TRC	.7 mg/l	.5 mg/l (monthly average concentration)
December 2009	TRC	1.0 mg/l	.5 mg/l (monthly average concentration)
January 2010	TRC	1.1 mg/l	.5 mg/l (monthly average concentration)
March 2010	TSS	54 mg/l	45 mg/l (weekly average concentration)
April 2010	pH	5.1 s.u.	Minimum 6.0 s.u.
May 2010	Fecal Coliform	939/100 ml	200/100 ml (monthly average geo mean)
June 2010	Fecal Coliform pH	28284/100 ml 5.2 s.u.	200/100 ml (monthly average geo mean) Minimum 6.0 s.u.
July 2010	Fecal Coliform pH	1122/100 ml 5.8 s.u.	200/100 ml (monthly average geo mean) Minimum 6.0 s.u.


Resolution Number 10-03

THIS RESOLUTION, approved and adopted by the Borough Council of Shippenville Borough, Clarion County, Pennsylvania on the date hereinafter set forth.


WITNESSETH:

BE IT RESOLVED we, the undersigned of Shippenville Borough, this 08th Day of September, 2010 do hereby authorize by signature below to enter into Consent Order and Agreement with the Commonwealth of Pennsylvania, Department of Environmental Protection .

Council of Shippenville Borough:


President

ATTEST:


Borough Secretary



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT REPORT

Operating period:

2013

Prepared for:

**Paint-Elk Joint Sewer Authority
Sewage Collection & Treatment System**

**Paint & Elk Townships
Clarion County, PA**

**WQM Permit No. 1690402
NPDES Permit No. PA0034924**

In accordance with:

**The General Provisions of Pennsylvania
Code Title 25 Chapter 94**

Prepared By:

**The EADS Group, Inc.
15392 Route 322
Clarion, PA 16214**

March 2014



ENGINEERING ARCHITECTURE and DESIGN SERVICES

The Paint-Elk Joint Sewer Authority Chapter 94 Report for the 2013 operating period was prepared by:

The EADS Group, Inc. (Clarion)
15392 Route 322
Clarion, PA 16214

By:  Preparer
Carrie L. Murray

AND

The Paint-Elk Joint Sewer Authority, Permittee
22139 Route 66
Shippenville, PA 16254


By:  Secretary
Jacquie S. Bloss, Paint-Twp. Secretary
Paint-Elk Sewer Manager

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APPENDICES

- A. Rules & Regulations
- B. I&I Program Progress Report
- C. Calibration Report

SECTION I - Introduction

This annual Chapter 94 Report is prepared in accordance with Chapter 94 of the PA Code Rules and Regulations, as amended. The report presents a review of the hydraulic and organic loading on the Paint-Elk Joint Sewer Authority (PEJSA) Sewage Treatment Plant (STP) managed by Paint Township.

The permits associated with this facility are NPDES permit PA0034924, which expires May 31, 2016 and WQM Permit No. 1690402.

The Paint-Elk Joint Sewer Authority's STP is comprised of four (4) aerated lagoons. Disinfection is achieved with a chlorine feed system and a chlorine contact tank. The headworks of the plant is comprised of a dimminutor, manual bar screens and two (2) grit chambers.

The STP is located in Elk Township, Clarion County, PA. The PEJSA sewage collection, conveyance and treatment facilities serve approximately 379 residential and 72 commercial/institutional active customers located within Elk Township and Paint Township.

During 2013, the PEJSA completed a sludge removal project that removed approximately 233 dry tons from lagoon #1, #2 and #4.

SECTION II - Hydraulic Loading

The WQM hydraulic design capacity for the STP is 0.60 MGD.

Table 1 shows the recorded monthly average flows, annual average flows, maximum monthly average flows and annual rainfall for 2009 through 2013 for the facility.

Graph 1 presents the monthly average flows for each month and the highest monthly average flows for 2009 – 2013 for the facility. The graph also displays the projected monthly average flows for 2014 – 2018. The annual average flow for 2013 was 0.175 MGD and highest monthly average was 0.293 MGD, which occurred in December. By the Chapter 94 definition, the treatment facility was not hydraulically overloaded in 2013.

Table 1: HYDRAULIC LOADING DATA (MGD)

	2009	2010	2011	2012	2013	
JANUARY	<i>0.124</i>	<i>0.165</i>	0.112	<i>0.275</i>	<i>0.229</i>	
FEBRUARY	<i>0.282</i>	<i>0.091</i>	<i>0.259</i>	<i>0.198</i>	<i>0.181</i>	
MARCH	<i>0.200</i>	<i>0.176</i>	<i>0.356</i>	<i>0.239</i>	<i>0.194</i>	
APRIL	0.177	0.087	<i>0.368</i>	0.125	0.216	
MAY	0.124	0.126	0.254	0.135	0.128	
JUNE	0.100	0.089	0.126	0.115	0.162	
JULY	0.097	0.101	0.116	0.142	0.176	
AUGUST	0.104	0.081	0.115	0.121	0.113	
SEPTEMBER	0.081	0.079	0.164	0.121	0.112	
OCTOBER	0.104	0.081	0.174	0.144	0.124	
NOVEMBER	0.087	0.126	0.234	0.119	0.172	
DECEMBER	0.161	0.156	0.219	0.213	0.293	5-Yr. Avg.
Annual Avg.	0.137	0.113	0.208	0.162	0.175	0.159
Highest Monthly Avg.	0.202	0.144	0.242	0.275	0.293	
Annual Rainfall (in.)	34.9	30.2	52.4	42.2	36.4	

Notes:

- 1) Highest Consecutive 3-Month Flow Rates are shown in bold italics
- 2) Annual Avg. = Average of Monthly Average Flows

Graph 1: PAINT-ELK JOINT SEWER AUTHORITY
 Hydraulic Loading Graph

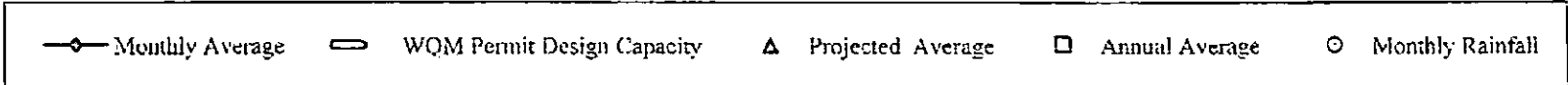
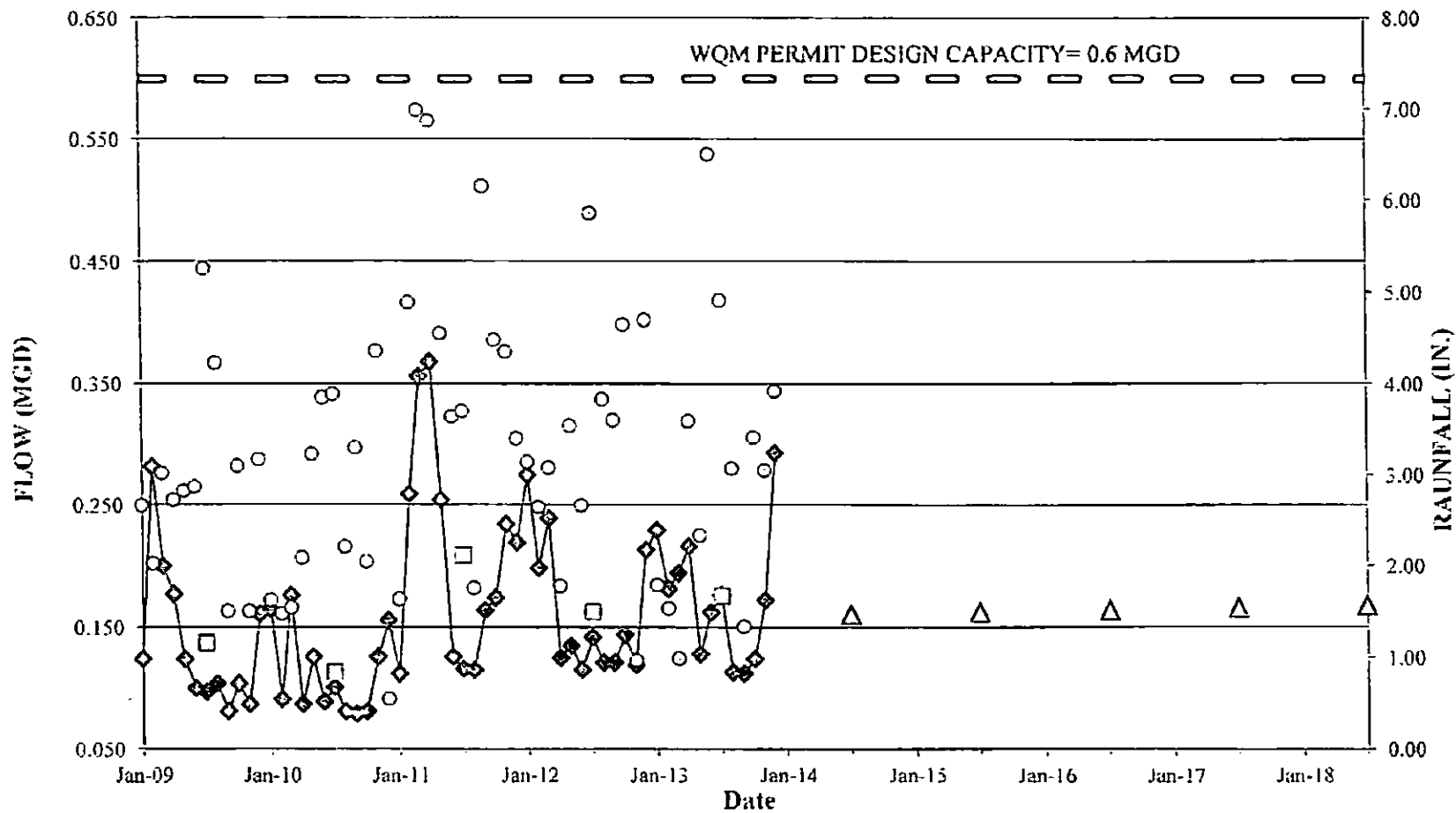


Table 2 shows changes in the annual average flows during from 1992 through 2013. The table reflects the combined impacts of inflow and infiltration (I&I) reduction and the addition of flow as new development occurs.

Table 2: COMPARISON OF ANNUAL RAINFALL & ANNUAL AVERAGE FLOWS

Year	Flow Measurement (Continuous)	Reported Annual Rainfall (in)	Annual Average Flow (MGD)
1992	10 months	51.7	0.284
1993	12 months	42.5	0.257
1994	12 months	55.6	0.310
1995	12 months	34.7	0.278
1996	12 months	49.0	0.392
1997	12 months	35.8	0.275
1998	12 months	30.9	0.207
1999	12 months	39.7	0.206
2000	12 months	39.1	0.199
2001	12 months	32.6	0.144
2002	12 months	43.0	0.183
2003	12 months	47.5	0.228
2004	12 months	53.0	0.251
2005	12 months	34.5	0.188
2006	12 months	38.6	0.194
2007	12 months	42.1	0.197
2008	12 months	37.2	0.185
2009	12 months	34.9	0.137
2010	12 months	30.2	0.113
2011	12 months	52.4	0.208
2012	12 months	42.2	0.162
2013	12 months	36.4	0.175

Table 2 reflects some lessening of response to rainfall that continues to be noted, which suggests the Authority's success in removing I&I from the collection and conveyance system.

SECTION III - Organic Loading

The WQM permit organic design capacity of the treatment lagoons was revised in March of 2011 due to the upgrade of aerator motors from 2 HP to 5 HP. Larger motors provide more aeration and better mixing, and as a result, the organic loading capacity was increased from 566.7 PPD to 800 PPD of BOD₅.

Table 3 shows the monthly average loading, average annual loading and highest monthly average loading of BOD₅ for 2009 through 2013 for the facility.

Graph 2 presents the monthly average loadings and the annual average loadings of BOD₅ for

2009 –2013. The graph also displays the projected monthly average loading for 2014 – 2018. In 2013, the annual average loading of BOD₅ was 394 PPD and the highest monthly average was 962 PPD, which occurred in November. The November BOD₅ grab samples may have caught a discharge from Green Line Polymers, Inc. (see **Section V** for further detail). Green Line Polymers Inc. has since stopped its discharge into the PEJSA system. The Operator will continue to investigate and monitor influent flows and organic loading on the facility. Overloading typically is not an issue for the facility as seen with the historic data provided in the following table.

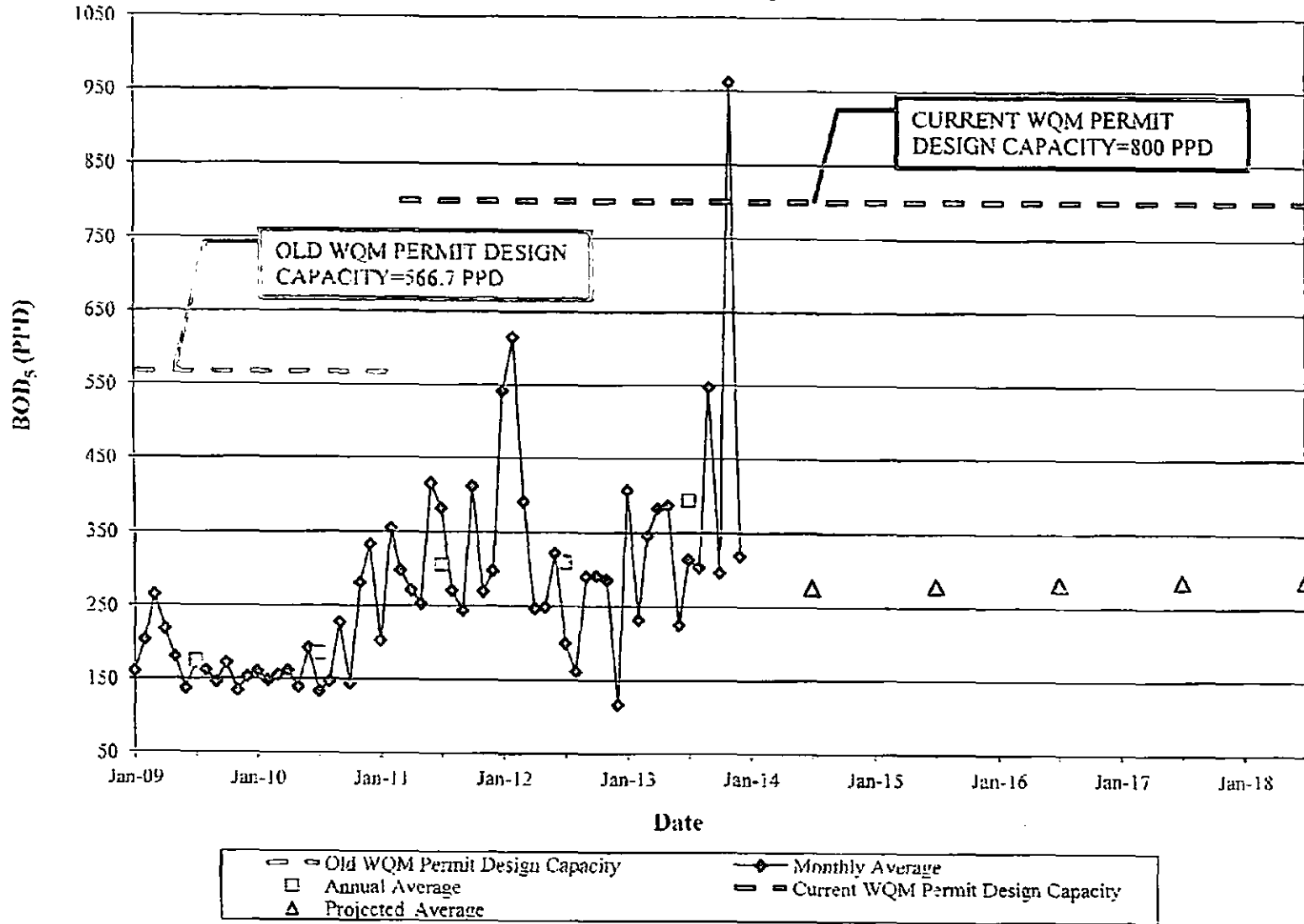
Table 3: ORGANIC LOADING DATA (PPD of BOD₅)

	2009	2010	2011	2012	2013	
JANUARY	161	161	204	542	408	
FEBRUARY	204	149	356	616	233	
MARCH	265	156	299	392	347	
APRIL	219	162	272	248	384	
MAY	181	140	254	250	388	
JUNE	137	193	417	323	226	
JULY	173	134	383	201	315	
AUGUST	162	147	272	162	304	
SEPTEMBER	146	228	245	292	548	
OCTOBER	173	144	413	293	297	
NOVEMBER	134	282	271	287	962	
DECEMBER	153	334	299	117	320	5-Yr. Avg.
Annual Avg.	176	186	307	310	394	275
Highest Monthly Avg.	265	334	417	616	962	

Notes:

1) Annual Avg. = Avg. of Monthly BOD₅ Loading

Graph 2: PAINT-ELK JOINT SEWER AUTHORITY
Organic Loading Graph



SECTION IV - Hydraulic & Organic Loading Projections

The projected flows are based on the historic 5-yr. annual average flow, an estimated number of projected connections to the system per year, the Department’s policy of 100 gal./capita/day and the average household population of 2.23, taken from the most recent census data (2010) for Paint Township. For 2014 – 2018, eight (8) new connections/yr. are projected to be added to the system based on the historic average on connections noted in **Table 4**. Therefore, with the addition of 8 new connections annually, the projected increase in the average daily flow for 2014 – 2018 is 1,784 GPD each year. Taking the 5-yr. historic average hydraulic loading, 0.159 MGD, and adding 1,784 GPD annually for the next 5-yr. period, projects a flow of approximately 0.168 MGD for 2018.

Table 4: HISTORIC RECORD OF NEW CONNECTIONS

Year	New Connections
2000	16
2001	7
2002	4
2003	13
2004	10
2005	4
2006	7
2007	18
2008	1
2009	13
2010	52
2011	2
2012	4
2013	1 (5,000 GPD)

Average = 8

Note:

Average excludes the 52 taps associated with Riverhill, which were connected in 2010 and the taps issued in 2013, which were associated with flows from Green Line Polymers, Inc.

Flow projections are somewhat dependent upon precipitation impacts. The impact of I&I flows on plant flows continues to lessen as I&I removal efforts continue through the Authority's I&I Reduction Program. Efforts to procure funding assistance through various programs for line replacement continue.

The monthly average organic loading projections are based on the historic 5-yr. annual average organic loading of BOD₅, the estimated number of projected new connections to the system per year, the average household population, and the Department’s current policy of assigning 0.17 lbs. of BOD₅/capita/day. With the anticipation of 8 new connections/yr., organic loading of BOD₅ is expected to increase by approximately 3.03 PPD annually. Therefore, with the addition of 40 new connections added to the system over the next 5-yr. period, an organic loading of 290

PPD of BOD₅ is projected for 2018.

SECTION V - Industrial Waste Report

In 2013, two (2) industrial waste streams contributed to the PEJSA sewer system. See **Appendix A** for the current standards for industrial waste from the PEJSA Rules and Regulations.

Clarion Boards, located at 1 Fiberboard Road Shippenville, PA, began discharging to the PEJSA collection and conveyance system in November 2010. The company discharges water from its medium density fiberboard construction process. Delivered wood products are subjected to pressing and the resulting water is occasionally discharged to the PEJSA sewer system following a pre-treatment process. The water is tested by a certified lab for the required parameters as described in the Rules and Regulations. The lab testing analysis and the daily flow rates are provided to the Authority on a weekly basis when flows exist. The strength of the waste increased during the winter of 2010, which caused the Authority to halt the discharge of the waste until the strength was reduced. The Authority treated only domestic waste from the fiber board plant in 2013.

In 2013, Green Line Polymers, Inc., located at 22793 Route 66, Shippenville, PA, began discharging domestic and process flows to the PEJSA collection and conveyance system. The facility is a recycling facility for HDPE recycled plastic. The facility underwent sewage planning and approval during 2013 and was permitted to discharge to 5,000 GPD to the PEJSA sewer system. However, the recycling facility began discharging a high strength BOD waste and was being assessed surcharge fees by the PEJSA. As a result, Green Line Polymers, Inc. has suspended discharging their process waste to the PEJSA system and is now only discharging domestic waste; November 6, 2013 was reported as the date of their last process water discharge event. All process water is currently being hauled to another facility for treatment and disposal.

SECTION VI - Completed, Approved & Proposed Extensions

No extensions were completed by the PEJSA in 2013 and there are none proposed for 2014.

SECTION VII - Sewer System Program

The system has one (1) certified operator with certification classes A & E, subclasses 2, 3, 4. Currently, the operator is the only full time employee on the sewer crew. The operator works evenings and weekends as needed.

Available equipment to aid in servicing the system is a truck and a jet machine. Other equipment is rented as needed. No agreements are in place for any contracting; additional help is hired or other Paint Township maintenance workers are utilized as needed.

The sewer crew has a good supply of normal sewer system repair parts. A complete rotary assembly for the Route 66 pump station and the Riverhill pump station is maintained as well as a submersible grinder pump for the Maple Drive pump station. The Authority also has replacement grinder pumps in stock.

A breakdown of the sewer crew's regular maintenance schedule is as follows:

A. MAINTENANCE

Daily:

1. Checking proper operation of aerators, pumps and diffuser.
2. Cleaning of bar screen when necessary.
3. Checking the sewage plant for vandalism.
4. Record plant flow
5. Record pump station run hours
6. Sample for pH (grab sample) and Total Residual Chlorine (grab sample)

Other operational duties are employed according to the following outline:

Weekly:

1. Check diffuser operation, clean as required.
2. Remove refuse from facility.
3. Grease - oil equipment as recommended or as required.
4. Snow removal, grass cutting, grounds maintenance.
5. Sample Influent BOD₅ (grab sample) and Effluent CBOD₅ (8-hr. composite sample)
6. Sample Effluent TSS (8-hr. composite sample)

Twice Monthly:

1. Sample Effluent Fecal Coliform (grab sample)

Monthly:

1. Check base of lagoon embankments for soft spots or seepage.
2. Check discharge point headwalls.
3. Check drainage to point of stream entry. Keep channel clean and remove any obstructions.
4. Grease-oil equipment as recommended or required.
5. Check integrity of fencing and other security devices.
6. Submit reports to PA Department of Environmental Protection.
7. Clean diffuser pit and flush passageways, clean bar screens.
8. Report operation and problems encountered to Paint Township.
9. Reorder chlorine gas as necessary.

Annually:

1. Sound lagoons to determine sludge blanket depth. Dispose of solids, as needed. See notes below.
2. Lift manhole lids on collection and conveyance system, clean and repair as required.
3. Submit annual Chapter 94 report to the PA Department of Environmental Protection.
4. Grease - oil equipment as required or recommended by the manufacturer.
5. Inventory equipment and supplies, reorder depleted or necessary items.
6. Visually inspect electrical contacts in control panel. Report any noted evidence of pitting or corrosion of wire or contacts.
7. Re-calibrate flow monitoring equipment.

B. MONITORING

The Paint-Elk Joint Sewer Authority has implemented a program involving careful monitoring to isolate and repair points of I&I into the collection and conveyance system. The program is in accordance with the Paint and Elk Township Act 537 Plan, Clarion County, Pennsylvania, updated July, 1994. The monitoring program includes, but is not limited to, manhole monitoring, rainfall intensity monitoring, run hour meter monitoring of three (3) conveyance system pump stations, influent BOD₅ monitoring, smoke testing, inline TV inspection, and dye testing.

Effluent sampling, as per the facility's NPDES permit, is required twice a month for CBOD₅, TSS and Fecal Coliform. The STP Operator collects Total Residual Chlorine and pH samples weekly and analyzes them at the STP lab, a PA registered laboratory. All other samples are analyzed by Stewart Laboratories of Strattanville, PA, a PA accredited laboratory.

The influent BOD₅ sample is collected as a grab and is taken at the influent structure. Effluent samples are collected as an 8-hr. composite sample or as a grab sample, as required by the NPDES permit, and are taken at the discharge of the chlorine contact tank.

C. I&I REMOVAL

The monitoring program, adopted by the Authority in June of 1992, is set up to isolate problem areas that need follow-up investigation. Follow-up investigation is achieved by one or a combination of in line T.V. inspection, smoke testing, or dye testing. I&I problem areas are then slated for repair or replacement. Please refer to **Appendix B** for the I&I Program Progress Report.

As stated earlier, since 1990, approximately 29,250 LF of the collection system has been replaced. The Township and the Authority continue to pursue repair/replacement projects associated with I&I removal, as funding permits, and they continually require customers to bring laterals into compliance by removing foundation drains and other sources of ground water.

In 2013, Paint Township completed the Crestmont Drive Sanitary Sewer Replacement Project. The project included the replacement of approximately 265 LF of 8" sewer main line, 6 customer laterals that totaled approximately 106 LF. Also, 2 manholes were installed with the project.

No smoke testing or any significant amount of dye testing was completed during 2013.

An annual estimate of additional flows from new connections into the PEJSA system since 2001 and an annual summary of customer lateral repairs resulting in the removal of I&I from the PEJSA sewer system follows in **Table 5**.

Table 5: COMPARISON OF FLOWS FROM NEW CONNECTIONS WITH LATERAL REPAIR PROJECTS TO REDUCE I&I

Year	Estimated Flow From New Connections (GPD)	Commercial Lateral Repairs to Eliminate I&I	Residential Lateral Repairs to Eliminate I&I
2001	1,652		
2002	944	2	4
2003	3,068		6
2004	2,360		19
2005	944		18
2006	1,652		5
2007	4,248		3
2008	236	2	85
2009	3,068	1	2
2010			5
2011	446		
2012	892	1	1
2013	5,000		6
Totals =	24,510	6	154

Notes:

- 1) In 2008, approx. 85 of the residential repairs were associated with a lateral replacement project at Forest Park Estates Mobile Home Park.
- 2) In 2013, Green Line Polymers, Inc. was approved to discharge 5,000 GPD of process flow.

As I&I flows are removed by ongoing repair efforts, further change in the influent organic concentration may be seen. System regulations continue to direct upgrading in housekeeping which, in some cases, reduces loading i.e. where customers have installed grease traps.

SECTION VIII - Condition & Capacity of Sewer System

The condition of the system ranges from good to poor, with the vitrified clay pipe (VCP) sewer line pipe being approximately 45 years old. The collection system currently consists of approximately 11,020 feet of VCP and 41,180 feet of PVC pipe.

Between the year 1990 and the present, approximately 29,250 LF of 8" sewer line along with incidental manholes, lampholes and laterals have been replaced. The Update of the Act 537 Plan, approved in July of 1994, projected development pending grant procurement in the airport area as well as for the fiberboard facility (completed). System expansion is planned along the PA Route 66 corridor and the U.S. Route 322 (toward Shippenville), as funding permits.

Line capacity appears to be adequate to handle potential flows anticipated in the next 5-yr. period (refer to **Section IV**).

SECTION IX - Pump Station Capacities

There were three (3) pump stations in operation during 2013; Riverhill, Maple Drive and Route 66. The following table reflects the pump station capacities, a comparison of flow and a 2-yr. projection of flow for all of the system's pump stations.

Table 6: COMPARISON AND PROJECTION OF PUMP STATION FLOW

Pump Station	Max. Pump Station Flow	Max. Daily Flow (2013)	Projected Connections/ (2) Yr. Period	Projected Additional Flow for (2) Yr. Period		Projected Max. Daily Flow (2015)
	MGD	MGD		GPD	MGD	MGD
Maple Drive	0.0864	0.01350	1	223	0.00022	0.01372
Route 66	0.2880	0.03492	1	223	0.00022	0.03514
Riverhill	0.576	0.00810	4	892	0.00089	0.00899

Pump station capacities appear to be adequate at this time. The majority of the historic connections and most of the connections projected are anticipated to be in the gravity portion of the system. Therefore, minimal changes in pump station capacity are projected over the next 2-yr. period for the Maple Drive and Route 66 pump stations.

SECTION X - Flow Monitoring Equipment & Calibration Report

A continuous flow metering system was installed in 1992. The equipment is re-calibrated annually. The most recent calibration report is located in **Appendix C** of this report.

APPENDIX A

designated representative. The manhole or manholes or metering chamber shall be installed by such person at his expense and shall be maintained by him so as to be safe and accessible the Authority or its designated representative at all times. The construction and maintenance of such manhole or manholes or metering chamber shall mandatory for the producers of abnormal industrial wastes, and if deemed necessary by the Authority flows from such manhole or manholes or metering chamber shall be continuously monitored, transmitted and recorded by means of an approved receiving device to be located at the treatment facility.

- (e) If any waters or wastes are discharged, or are proposed to be discharged to the public sewers, which waters contain the substances or possess the characteristics enumerated in this Section, and which in the judgement of the Manager, may have a deleterious effect upon the sewage works, processes, equipment or receiving waters, or which otherwise create a hazard to life or constitute a public nuisance, the Manager may:
 - 1. Reject the waste
 - 2. Require pretreatment to an acceptable condition for discharge to the public sewers
 - 3. Require control over the quantities and rates of discharge, and/or
 - 4. Require payment to cover the added cost of handling and treating the wastes not covered by existing sewer charges.

If the Manager permits the pretreatment or equalization of waste flows, the design and installation of the plant and equipment shall be subject to the review and approval of the Manager, and subject to the requirements of all applicable codes, ordinances, and laws.

- (f) As may be appropriate for commercial, institutional, and industrial users, a comminutor, bar screen, or grinder pump and/or a grease trap will be required by the Authority.
- (g) All manholes shall be precast inverts.

UNACCEPTABLE SANITARY SEWAGE AND INDUSTRIAL WASTES SECTION 6

- (a) The discharge of excessive amounts of unpolluted water or waste to a sanitary sewer is expressly prohibited. However, such discharges to storm sewers will be permitted wherever such sewers are of an adequate capacity. The Authority reserves the right to define the amount if deems excessive in each particular instance.
- (b) The discharge of garbage to the sewage system is expressly prohibited unless the garbage is properly shredded.
- (c) No sanitary sewage or industrial waste from any property other than that for which a permit has been issued as provided in Section 7 hereof shall be discharge to the public sanitary sewage system.
- (d) No person shall discharge to the public sanitary sewage system any sanitary sewage or

industrial wastes having any of the following characteristics:

1. Any liquids, solids or gases which by reason of their nature or quantity are, or may be, sufficient either alone or by interaction with other substances to cause fire or explosion or to be injurious in any other way to the POTW or to the operation of the POTW. At no time, shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system) be more than five percent (5%) nor any single reading over (10%) of the Lower Explosive Limit (LEL) of the meter. Prohibited material include, but are not limited to gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides and any other substances which the Authority, the Township, the State or EPA has notified the User is a fire hazard or a hazard to the system.
2. Solid or viscous substances which may cause obstruction to the flow in a sewer or other interferences with the operation of the wastewater treatment facilities such as, but not limited to: grease, garbage with particles greater than one-half inch (2") in any dimension, animal guts or tissues, paunch manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, waste paper, plastic, gas, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, mud or glass grinding or polishing wastes.
3. Wastes having pH lower than 6.0 or higher than 8.5 or having any corrosive properties capable of causing damage or hazards to structures, equipment or personnel of the public sanitary sewer system. Where the Authority deems it advisable, it may require any person discharging industrial wastes to install and maintain, at his own expense, in a manner approved by the Authority or its designated representative, a suitable device to continuously measure and record the pH of the wastes so discharged.
4. Any wastewater containing toxic pollutants in sufficient quantity, either singly or by interaction with other pollutants, to injure or interfere with any wastewater treatment process, constitute a hazard to humans or animals, create a toxic effect in the receiving waters of the POTW, or to exceed the limitation set forth in Categorical Pretreatment Standard. A toxic pollutant shall include, but not limited to, any pollutant identified pursuant to Section 307(a) of the Act.
5. Any noxious or malodorous liquids, gases, or solids which either singly or by interaction with other wastes, are sufficient to create a public nuisance or hazard to life or are sufficient to prevent entry into the sewers for maintenance and repair.
6. Any substance which may cause the POTW's effluent or any other product for the POTW such as residues, sludges, or scums to be unsuitable for reclamation and reuse or to interfere with the reclamation process. In no case shall a substance

Copper	3.36	2.07
Cyanide	1.20	0.65
Lead	0.69	0.43
Phenols	200	
Nickel	3.98	2.38
Silver	0.43	0.24
Zinc	2.61	1.48
TTO (Total Toxic Organics)	2.13	
Total Organic Carbon	300	
Iron	7.00	3.50
Manganese	4.00	2.00
Aluminum	25.0	15.0
Arsenic	0.15	0.1
Mercury	2.0	1.0
Alkalinity greater than acidity at all times		

15. Wastes containing more than 100 mg/l by weight of fat, oil or grease.
 16. Wastes containing more than 10 mg/l of any of the following gases; hydrogen sulfide, sulfur dioxide, nitrous oxide, or any of the halogens.
 17. Wastes containing gases or vapors, either free or occluded, in concentrations toxic or dangerous to humans or animals.
- e. When the Manager determines that a user(s) is contributing to the POTW any of the above enumerated substances in such amounts as to interfere with the operation of the POTW, the Manager shall: 1) advise the user(s) of the impact of the contribution on the POTW; and 2) develop effluent limitation(s) for such user to correct the interference with the POTW.
 - f. Upon the promulgation of the Federal Categorical Pretreatment Standards for a particular industrial subcategory, the Federal Standards, if more stringent than limitations imposed under these Sewer System Rules and Regulations for sources in the sub-category shall immediately supersede the limitations imposed under these Sewer System Rules and Regulations. The Manager will notify all affected users of the applicable reporting requirements under 40 CFR, Section 403.12.
 - g. State requirements and limitations on discharges shall apply in any case where they are more stringent than Federal requirements and limitations or those in these Sewer System Rules and Regulations.
 - h. Each user shall provide protection from accidental discharge of prohibited materials or other substances regulated by these Sewer System Rules and Regulations. Facilities to prevent accidental discharge of prohibited materials shall be provided and maintained at the owner or user's own cost and expense. Detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the Manager for review, and shall be approved

by the Manager before construction of the facility. All existing users shall complete such a plan within six (6) months of notification by the Manager to prepare such a plan. No user who commences contribution to the POTW after the effective date of these Sewer System Rules and Regulations shall be permitted to introduce pollutants into the system until accidental discharge procedures have been approved by the Authority. Review and approval of such plans and operating procedures shall not relieve the industrial user from the responsibility to modify the user's facility as necessary to meet the requirements of these Sewer System Rules and Regulations. In the case of an accidental discharge, it is the responsibility of the user to immediately telephone and notify the Authority of the incident. The notification shall include location of discharge, type of waste, concentration and volume, and corrective actions, and the following:

1. **Written Notice:** Within five (5) days following an accidental discharge, the user shall submit to the Manager a detailed written report describing the cause of the discharge and the measures to be taken by the user to prevent similar future occurrences. Such notification shall not relieve the user of any expense, loss, damage, or other liability which may be incurred as a result of damage to the POTW, fish kills, or any other damage to person or property, nor shall such notification relieve the user of any fines, civil penalties, or other liability which may be imposed by these Sewer System Rules and Regulations or other applicable law.
2. **Notice to Employees:** A notice shall be permanently posted on the user's bulletin board or other prominent place advising employees whom to call in the event of a dangerous discharge. Employers shall insure that all employees who may cause or suffer such a dangerous discharge to occur are advised of the emergency notification procedure.

CONNECTIONS TO SEWER SYSTEM SECTION 7

- (a) Applications for connection to the public sanitary sewage system shall be made to the Manager on the permit form to be formulated and furnished by the Authority
- (b) All information requested on said form shall be furnished by the applicant, including the character and use of each structure located upon the property.
- (c) The required tap connection and inspection fee that is set forth in the Authority's Sewer Rates, shall be paid at the time of making application for permission to make a connection.
- (d) No work shall commence before the payment of the aforementioned tap connection and inspection fee in issuance of the aforementioned connection permit.
- (e) Unless written permission is obtained from the Authority separate connections and corresponding tap connection and inspection fees, will be required for each individual occupied building or condominium whether constructed as a detached unit or as one of a pair

APPENDIX B

PAINT-ELK JOINT SEWER AUTHORITY I&I PROGRAM PROGRESS REPORT

(1990 – 2013)

1. I&I Monitoring - Monitoring is on-going and has involved key manhole monitoring to locate problem areas. Manhole flow monitoring needs to receive additional attention.

Additional monitoring efforts (measurement and recording) continue consisting of precipitation and run hours at three pump stations (Maple Drive, Route 66, and Riverhill).
2. I&I Removal - Since 1991, approximately 29,250 LF of the collection system has been replaced. Other problem areas have been identified and grant monies continue to be sought to replace additional lines.
3. Another part of the I&I program is the inspection of each manhole to check for needed repairs and for the necessity of a manhole lid insert. Small repairs to manholes will be made by the system operator. The need for manhole inserts was identified at various locations. Manhole inserts will be installed as need is identified. In 2005, ten (10) inserts were installed in the Forest Park Estates area. In 2006 and 2007, additional inserts were installed in various parts of the system.
4. Houses and other buildings connected to the sewer system will be checked for improper entry of water from roof drains, foundation drains, sump pumps, etc. Customers with improper connections will be directed to remove them.
5. For all of the above, records are kept of the data obtained and actions taken.
6. For all new taps a thorough inspection is made of materials and allowable connections.
7. From all of the above, identified problems will proceed with dye testing, smoke testing, or in-line TV inspection as appropriate. Repairs or removal of identified problems will proceed as funding permits.

Year	LF of Sewer Line Inspected	Location
1997	1,300	(2) 8" main lines
2003	1,100	Highland Drive Area
2004	1,200	Woodland Road and Ridgewood Road Areas
2006	100	Stehle's Car Wash

8. In 1993, the Authority adopted additional rules and requiring that customers, on collection lines repaired or rebuilt, bring their laterals and use of the system in compliance with the

rules and regulations. A substantial amount of I&I associated with laterals of the homes in the sewer line replacement project areas is eliminated with each successive project.

9. In 2008, construction on the Manorview Sewer line Replacement Project began in August and was completed by the end of September. The project removed 4" VCP and replaced it with 8" PVC for approximately 1,375 LF of the sanitary sewer line. Five (5) manholes and related appurtenances were also replaced. Two (2) customer laterals associated with the project will also be replaced.

Also in 2008, six (6) connections to the sewer system were repaired; two (2) commercial and four (4) residential.

10. In 2010, Paint Township replaced sewer line along Crestmont Drive. The project included the replacement of approximately 700 LF of 8" sanitary sewer line and the placement of 7 manholes. In 2010, approximately 85 LF of VCP was replaced with 8" PVC pipe between MH109 and MH110.
11. In 2011, behind homes along Oakwood Lane, one (1) manhole and approximately 200 LF of VCP was replaced with 8" PVC pipe. On Ridgewood Road, one (1) manhole was installed to provide access for maintenance. Both replacement projects were located in the Village of Marianne, Paint Township.
12. In 2013, Paint Township completed the Crestmont Drive Sanitary Sewer Replacement Project. The project included the replacement of approximately 265 LF of VCP sewer main line with 8" PVC pipe. Also, 6 customer laterals were replaced totaling approximately 106 LF and 2 manholes were installed.

APPENDIX C

Paint-Elk Joint Sewer Authority

INSTRUMENT CALIBRATION REPORT

LOCATION Paint - Elk Sewer Authority Plant #322

DATE 1/10/13 TIME 1:05 PM

INSTRUMENT MAKE AND MODEL Badger Model 2100 open channel flowmeter
Chessell Model #392 electronic chart

SECONDARY DEVICE MAKE AND SIZE 6" parshall flume

FACTORY CALIBRATION DATA USER MAX HEADRISE = 15.53" USER MAX FLOW = 2.0MGD;
ELEMENT FUNCTION 1.58

FIELD CALIBRATION DATA Instantaneous flow recording

flume measurement 3.62 inches \approx 200 mgd

RESULTS: THIS METER IS NOT CORRECTLY CALIBRATED AND FUNCTIONING PROPERLY

ADJUSTMENTS, NOTES, COMMENTS A copy of the chart for the flume of the flow chart is attached.

SIGNATURE OF PERSON PERFORMING CALIBRATION _____

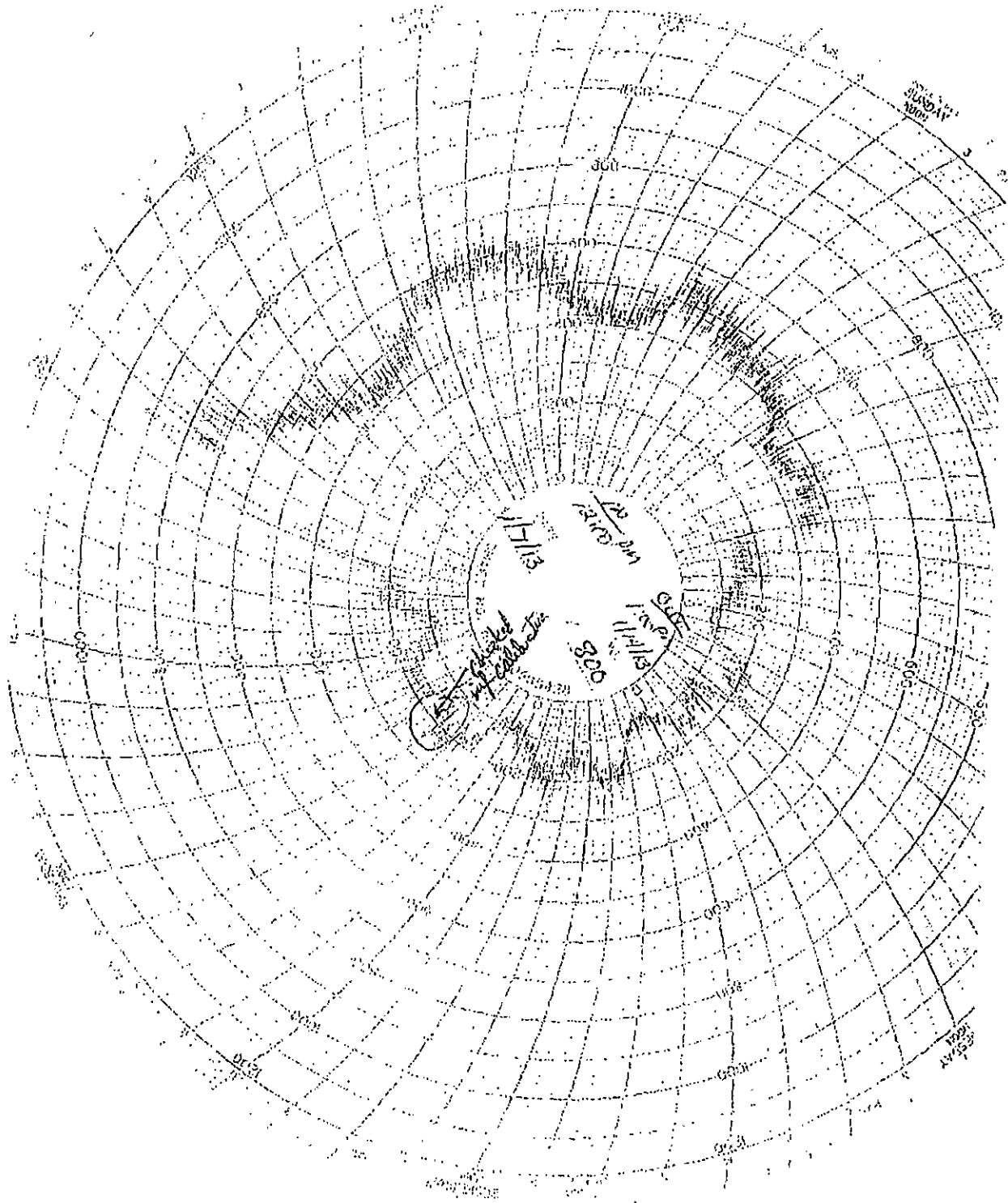


Table 3 *
DISCHARGE FROM SMALL PARSHALL FLUMES

Flow MGD	Head in inches for Throat Size shown				
	Throat 1 inch	Throat 2 inches	Throat 3 inches	Throat 4 inches	Throat 9 inches
0.01	1.04	1.05	.02	.64	.38
0.02	2.67	1.64	1.28	.84	.59
0.03	3.33	2.13	1.80	1.09	.78
0.04	4.01	2.67	2.00	1.31	.94
0.05	4.84	2.88	2.31	1.50	1.08
0.06	5.24	3.51	2.50	1.69	1.27
0.07	6.76	3.60	2.88	1.88	1.35
0.08	8.23	4.01	3.13	2.02	1.47
0.10	8.77	4.39	3.38	2.18	1.59
0.10	7.25	4.61	3.22	2.33	1.70
0.16	9.42	6.02	4.70	3.11	2.22
0.20		7.25	6.68	3.82	2.66
0.25		8.37	8.51	4.10	3.10
0.30		9.42	7.35	4.87	3.49
0.35			8.12	6.16	3.86
0.40			8.85	6.81	4.21
0.50			10.22	8.48	4.87
0.60			11.40	7.25	6.49
0.70			12.70	7.00	8.07
0.80			13.81	8.80	8.63
1.00			15.00	10.01	7.87
1.25			18.48	11.53	8.87
1.5				12.94	10.00
2.0				16.53	13.08
2.5				17.00	13.98
3.0					15.72
3.5					17.99
4.0					18.98
4.5					20.43
5.0					21.88

← @ 1:05 PM

PENNSYLVANIA NATURAL DIVERSITY INVENTORY
CORRESPONDENCE

1. PROJECT INFORMATION

Project Name: **Paint-Elk Interceptor Upgrades**

Date of review: **2/20/2015 11:14:47 AM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

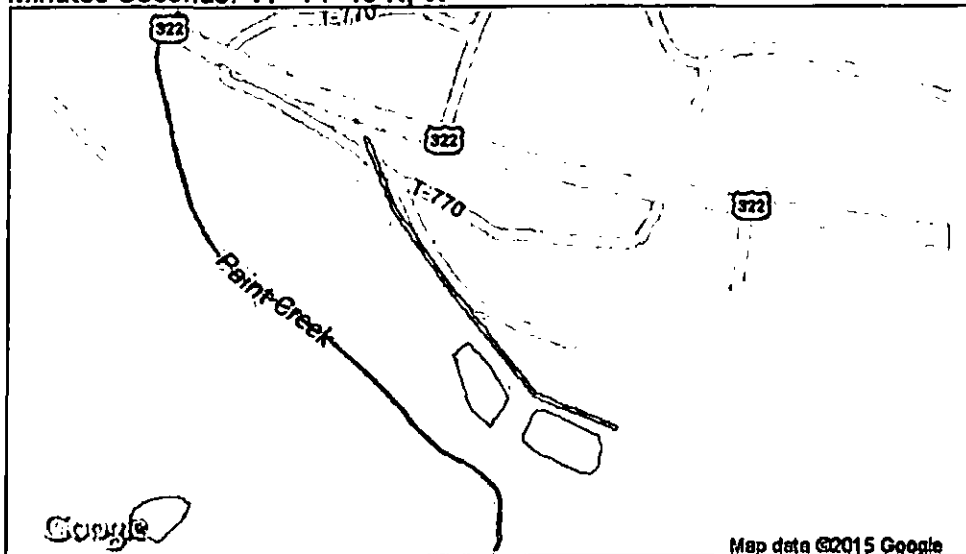
Project Length: **1276.4 feet**

County: **Clarion Township/Municipality: Elk**

Quadrangle Name: **CLARION ~ ZIP Code: 16254**

Decimal Degrees: **41.245467 N, -79.445006 W**

Degrees Minutes Seconds: **41° 14' 43 N, W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
 Bureau of Forestry, Ecological Services Section
 400 Market Street, PO Box 8552, Harrisburg, PA.
 17105-8552
 Fax:(717) 772-0271

U.S. Fish and Wildlife Service
 Pennsylvania Field Office
 110 Radnor Rd; Suite 101, State College, PA 16801
 NO Faxes Please.

PA Fish and Boat Commission
 Division of Environmental Services
 450 Robinson Lane, Bellefonte, PA. 16823-7437
 NO Faxes Please

PA Game Commission
 Bureau of Wildlife Habitat Management
 Division of Environmental Planning and Habitat Protection
 2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
 Fax:(717) 787-8957

7. PROJECT CONTACT INFORMATION

Name: STAN CORBETT
 Company/Business Name: AECOM
 Address: SABEE BUILDING, SUITE 300, 4051 OAKSTOWN RD.
 City, State, Zip: NEWARK, DE 19713
 Phone: (302) 781-5886 Fax: (302) 781-5901
 Email: STAN.CORBETT@AECOM.COM

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.


 applicant/project proponent signature

2/20/15
 date



Formerly URS

AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, DE 19713

302.781.5900 tel
302.781.5901 fax

February 19, 2015

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street
PO Box 8552
Harrisburg, PA 17105-8552

**Re: Shipperville – Paint Elk Sewage System Interconnection
Sewage Planning Module
Shipperville Borough and Elk Township
Clarion County, PA
PNDI Project Environmental Review**

Dear Sir/Madam:

Pennsylvania American Water has proposed a project involving the decommissioning of the Shipperville Borough Wastewater Treatment Plant (WWTP) and construction of a pump station at the WWTP site. A force main is also proposed to convey the sewage from Shipperville Borough to the nearby Paint-Elk sewerage system. The project area encompasses both Shipperville Borough and Elk Township in Clarion County.

Pursuant to sewage facility planning requirements for this project, the following documents are enclosed for your review:

- PNDI Project Environmental Review Receipt, Project Search ID 20141215478149, addressing the existing Shipperville WWTP site which will serve as the new pump station location.
- PNDI Project Environmental Review Receipt, Project Search ID 20150218486544, addressing the proposed sewage force main.
- Project Narrative
- USGS mapping indicating quadrangle name and project location.
- Site plan showing proposed improvements.

Please note that PNDI Project Environmental Review Receipts were also secured for additional project improvements down-stream of the proposed force main connection to the existing Paint-Elk sewerage system but no potential PNDI impacts were noted for these portions of the project.

Please do not hesitate to contact me should you have any questions or need additional information.

Sincerely,

AECOM

Stan Corbett
Project Manager

cc: Mr. Jed Fiscus, P.E., Pennsylvania American Water

1. PROJECT INFORMATION

Project Name: **Shippenville WWTP**

Date of review: **12/15/2014 4:31:43 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

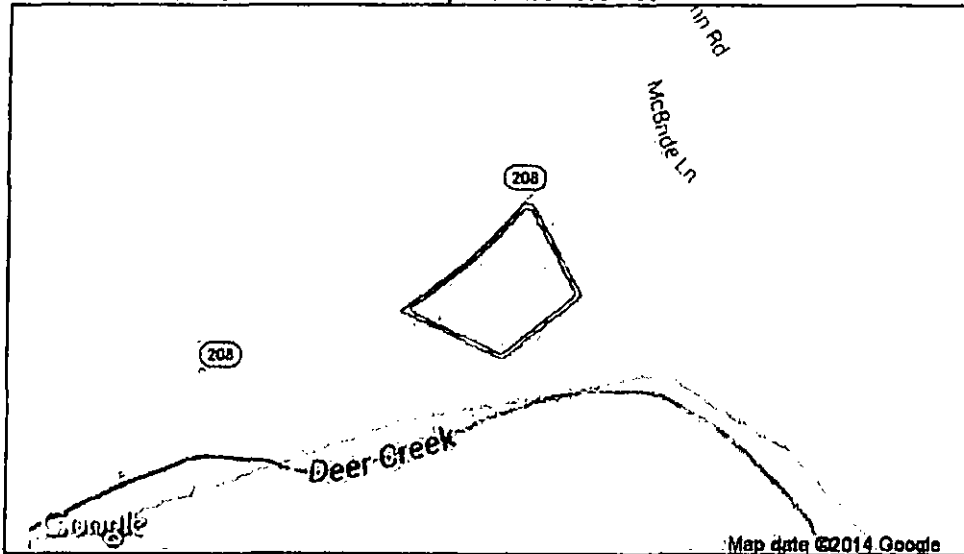
Project Area: **0.8 acres**

County: **Clarion Township/Municipality: Elk**

Quadrangle Name: **CLARION ~ ZIP Code: 16254**

Decimal Degrees: **41.246429 N, -79.467101 W**

Degrees Minutes Seconds: **41° 14' 47.1" N, -79° 28' 1.6" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see **WHAT TO SEND**).

DCNR Species: (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: http://www.gis.dcnr.state.pa.us/hgis-er/PNDI_DCNR.aspx.)

Scientific Name: Swertia caroliniensis

Common Name: American Columbo

Current Status: Endangered

Proposed Status: Endangered

PA Fish and Boat Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

Check-list of Minimum Materials to be submitted:

- SIGNED copy of this Project Environmental Review Receipt
- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- A basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams

4. DEP INFORMATION

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 Division of Environmental Planning and Habitat Protection
 2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
 Fax:(717) 787-6957

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Name: STAN CORBETT
 Company/Business Name: AECOM
 Address: SABRE BUILDING, SUITE 300, 4051 OALETOWN RD.
 City, State, Zip: NEWARK, DE 19713
 Phone: (302) 781-5896 Fax: (302) 781-5901
 Email: STAN.CORBETT@AECOM.COM

8. CERTIFICATION

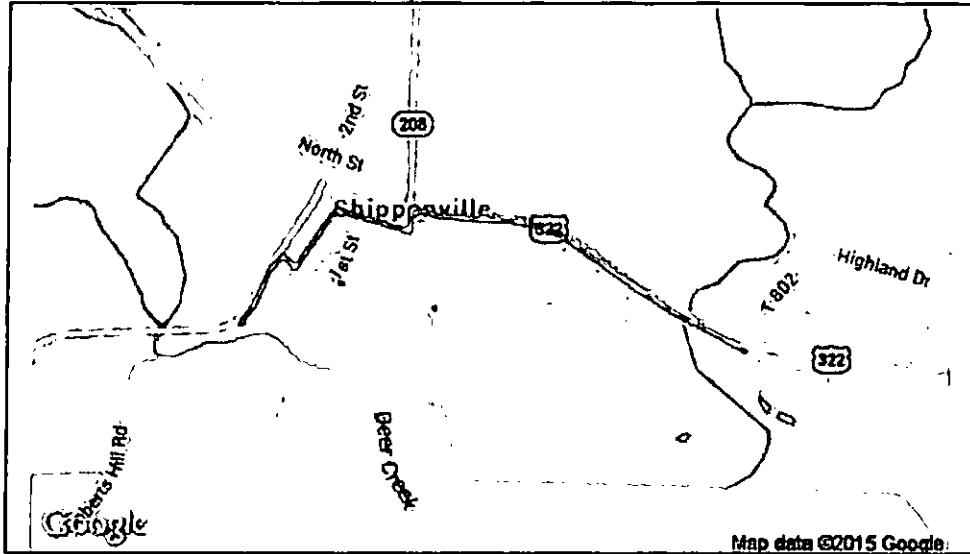
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 applicant/project proponent signature

12/15/14
 date

1. PROJECT INFORMATION

Project Name: **Shippenville Pump Station Force Main**
 Date of review: **2/18/2015 5:11:32 PM**
 Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**
 Project Length: **8209.4 feet**
 County: **Clarion Township/Municipality: Elk, Shippenville**
 Quadrangle Name: **FRYBURG ~ ZIP Code: 16254**
 Decimal Degrees: **41.248952 N, -79.454984 W**
 Degrees Minutes Seconds: **41° 14' 56 N, W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
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PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

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Scientific Name: *Swertia caroliniensis*

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 applicant/project proponent signature

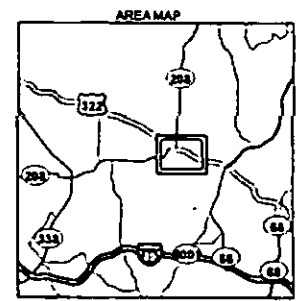
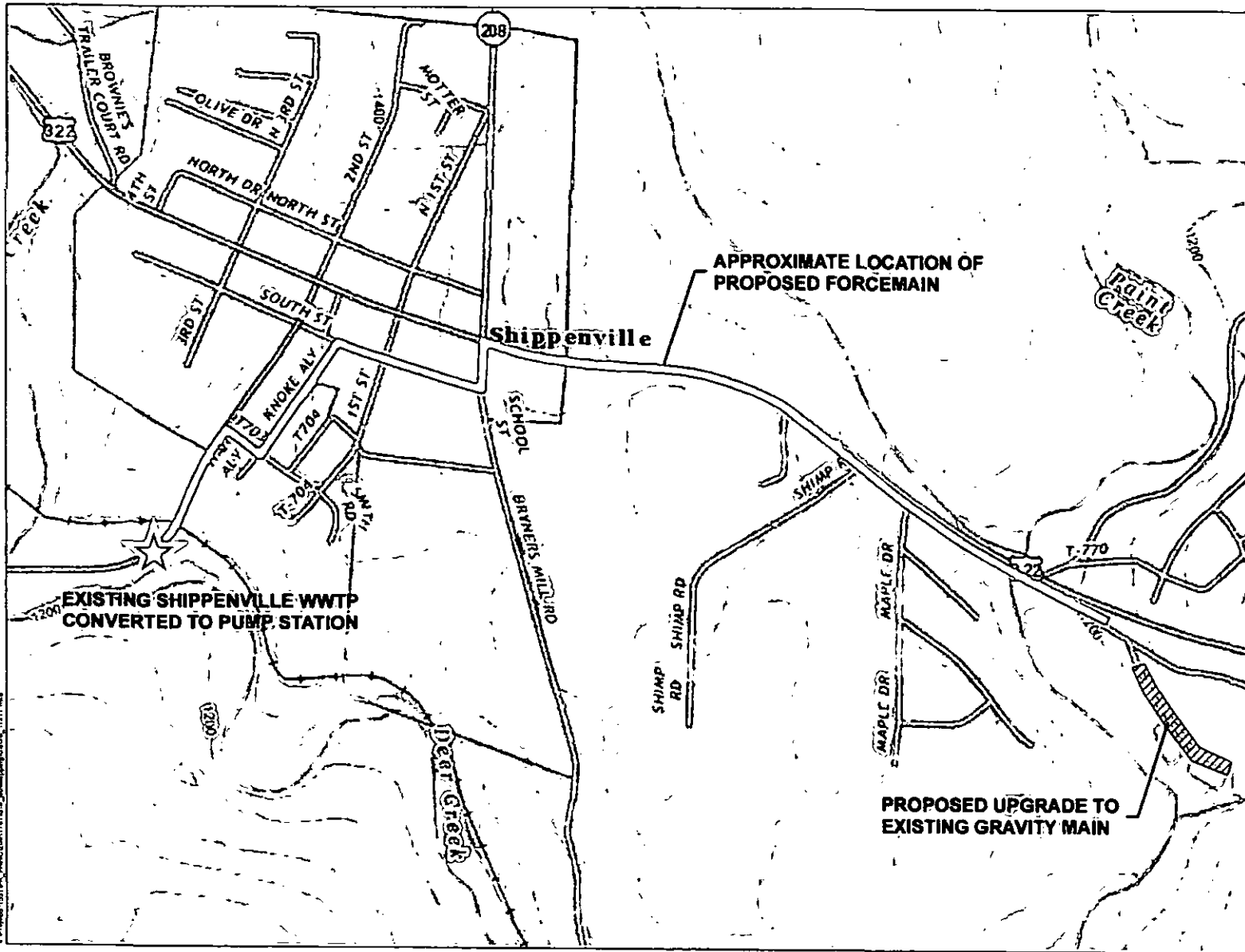
2/18/15
 date

SHIPPENVILLE – PAINT ELK SEWAGE SYSTEM INTERCONNECTION PROJECT NARRATIVE

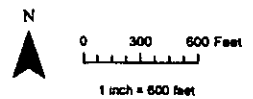
The project involves the decommissioning of the Shippenville Borough Wastewater Treatment Plant (WWTP) and construction of a pump station and force main to convey the sewage from Shippenville Borough to the Paint-Elk collection and conveyance system for treatment at the Paint-Elk WWTP. The proposed pump station will be constructed on the same site as the existing Shippenville Borough WWTP and within the area previously disturbed by WWTP construction. The proposed force main will convey the sewage via existing sewer easements and road rights-of-way to an existing gravity main of the Paint-Elk system.

In addition, the project includes upgrades to the receiving gravity main in the Paint-Elk system. These upgrades are needed to accommodate the project sewage flows. All earth disturbance associated with the gravity main upgrades will be confined to the existing gravity sewer locations.

The project area encompasses Shippenville Borough and Elk Township in Clarion County, within the Fryburg and Clarion USGS Quadrangle map. Total project disturbance is expected to be approximately 2.4 acres. The National Wetlands Inventory, U.S. Fish & Wildlife Service, September 2009 indicates there are no wetlands within the area to be disturbed. Federal Emergency Management Agency Flood Plain mapping indicates that the only area of potential disturbance within a flood plain is where the proposed force main along SR 322 crosses Paint Creek. This crossing will be made above the Creek and parallel to an existing gravity sewer.



Scanned image of United States Geological Survey (USGS) Fryburg and Clarion Quadrangles, 1:24,000 scale paper map. ESRI ArcGIS Map Service, 7.5 x 7.5 Quad, 2013. <http://services.arcgis.com/geocservice/>



MAP FORMATTED FOR 11" (11" x 17") SIZE SHEET. TEXT SCALE NOT VALID FOR CURRENT PAGE SIZE.

AECOM

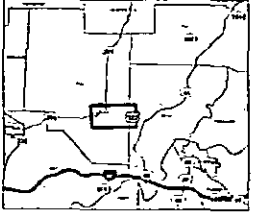
4051 Ogletown Road
Sabre Building, Suite 300
Newark, DE 19713

FIGURE 2
USGS Quadrangle
Fryburg and Clarion

**SHIPPENVILLE - PAINT ELK
SEWAGE SYSTEM
INTERCONNECTION**

PENNSYLVANIA AMERICAN WATER COMPANY	
PROJECT NUMBER	DATE
20911161	2/19/2015
DRAWN BY	FIGURE NUMBER
RM	2 of 2
CHECKED BY	
SC	

V:\Projects\1515161_PAW\020911161\1515161_001.dwg, 11:17 AM



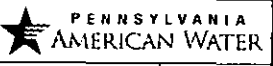
- Legend**
- Multiple Boundary
 - Point
 - Water
 - 36 Year Foundation (FEMA Zone 1)
 - Water
 - 27 Year Foundation
 - Main Conduit
 - Intermittent Conduit
 - Survey Station**
 - Marker
 - Pave Center
 - Pave Side
 - Close Main
 - Storage Layout



0 145 290 Feet
 1 inch = 300 feet

DATE: 2/20/2015
 TIME: 10:00 AM
 PROJECT: SHIPPENVILLE - PAINT ELK SEWAGE SYSTEM INTERCONNECTION
 DRAWN BY: [unreadable]
 CHECKED BY: [unreadable]
 APPROVED BY: [unreadable]

FIGURE 1
 SHIPPENVILLE - PAINT ELK
 SEWAGE SYSTEM
 INTERCONNECTION



AECOM <small>Survey Stationing: East Zone NAD 83 Coordinate System Vertical: CG 1989</small>	DATE	2/20/2015
	FILE NUMBER	2011161
	FIGURE	1 OF 2



BUREAU OF FORESTRY

February 25, 2015

PNDI Number: 20141215478149, 20150218486544

Stan Corbett

AECOM

4051 Ogletown Road

Newark, DE 19713

Email: stan.corbett@aecom.com (hard copy will not follow)

**Re: Paint Elk Sewage System Interconnection
Shippenville Borough and Elk Township, Clarion County, PA**

Dear Mr. Corbett,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Numbers 20141215478149 and 20150218486544 for review. 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

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

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

Should you have any questions or concerns, please contact Jason Ryndock, Ecological Information Specialist, by phone (717-705-2822) or via email (c-jryndock@pa.gov).

Sincerely,

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

conserve

sustain

enjoy

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

PUBLIC NOTICE

PUBLIC NOTICE

In accordance with the requirements of Title 25, Chapter 71 of the Pennsylvania Code, Shipperville Borough and Elk Township are accepting written comments over the next 30 days on a Sewage Facilities Planning Module which proposes decommissioning of the Shipperville Borough Wastewater Treatment Plant (WWTP) and construction of a pump station and force main to convey the sewage from Shipperville Borough to the Paint-Elk collection and conveyance system for treatment at the Paint-Elk WWTP. The proposed pump station will be constructed on the same site as the existing Shipperville Borough WWTP. The proposed force main will convey the sewage via existing sewer easements and road rights-of-way to an existing gravity main of the Paint-Elk system. The receiving gravity sewer main in the Paint-Elk system will be upgraded to accommodate the Shipperville pump station flows. The Paint-Elk sewerage system is currently owned by Pennsylvania American Water (PAW), and the project also proposes transference of the Shipperville Borough sewerage system to PAW.

The Paint-Elk WWTP presently serves portions of Paint Township and Elk Township. No disturbance within Paint Township is proposed. No increase in the permitted discharge from the Paint-Elk WWTP is proposed; discharge will continue to the surface water of the Paint Creek. Public notice is required due to a greater than 50,000 gallon per day change in flow at an existing treatment facility and a modification of the existing Shipperville administrative organization.

The Planning Module can be reviewed at the Shipperville Borough Building at the address below. All written comments must be submitted within 30 calendar days of publication of this notice to the following municipality in which you reside:

Shipperville Borough
106 N. School St.
PO Box 244
Shipperville, PA 16254

Elk Township
10089 Route 208
Knox, PA 16232

PUBLIC NOTICE

In accordance with the requirements of Title 25, Chapter 71 of the Pennsylvania Code, Shippenville Borough and Elk Township are accepting written comments over the next 30 days on a Sewage Facilities Planning Module which proposes decommissioning of the Shippenville Borough Wastewater Treatment Plant (WWTP) and construction of a pump station and force main to convey the sewage from Shippenville Borough to the Paint-Elk collection and conveyance system for treatment at the Paint-Elk WWTP. The proposed pump station will be constructed on the same site as the existing Shippenville Borough WWTP. The proposed force main will convey the sewage via existing sewer easements and road rights-of-way to an existing gravity main of the Paint-Elk system. The receiving gravity sewer main in the Paint-Elk system will be upgraded to accommodate the Shippenville pump station flows. The Paint-Elk sewerage system is currently owned by Pennsylvania American Water (PAW), and the project also proposes transference of the Shippenville Borough sewerage system to PAW.

The Paint-Elk WWTP presently serves portions of Paint Township and Elk Township. No disturbance within Paint Township is proposed. No increase in the permitted discharge from the Paint-Elk WWTP is proposed; discharge will continue to the surface water of the Paint Creek. Public notice is required due to a greater than 50,000 gallon per day change in flow at an existing treatment facility and a modification of the existing Shippenville administrative organization.

The Planning Module can be reviewed at the Shippenville Borough Building at the address below. All written comments must be submitted within 30 calendar days of publication of this notice to the following municipality in which you reside:

Shippenville Borough
106 N. School St.
PO Box 244
Shippenville, PA 18254

Elk Township
10089 Route 208
Knox, PA 18232
1T, 3-17 - 3725

Affidavit of Publication

State of Pennsylvania,
County of Clarion, SS:

Before me, a Notary Public in and for the county aforesaid, personally appeared Sheryl L. Whitton who being duly sworn according to law, doth depose and say that she is a classified advertising representative of the Clarion News, a newspaper of general circulation, published at Clarion, in Clarion County; that its said place of business was established in 1840; that the notice, of which the annexed clipping from one of said newspaper is a copy, was printed and published in the regular editions and issues of said newspaper on the following date(s):

March 17, 2015

that the affiant is not interested in the subject matter of the said advertisement; and that all of the allegations of this statement as to time, place and character of publications are true.

Sheryl L. Whitton
Signature of affiant

Sworn to and subscribed before me this 17th day of

March A.D. 2015

Mary Louise Logue
Notary Public

MY COMMISSION EXPIRES:

NOTARIAL SEAL
MARY LOUISE LOGUE, NOTARY PUBLIC
CITY OF CLARION, CLARION COUNTY
MY COMMISSION EXPIRES MARCH 04, 2019

COMPONENT 4A
MUNICIPAL PLANNING AGENCY REVIEW

3800-FM-BPNPMD362A 11/2012



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

DEP Code #: K6-14-040

**SEWAGE FACILITIES PLANNING MODULE
COMPONENT 4A - MUNICIPAL PLANNING AGENCY REVIEW**

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning module package and one copy of this *Planning Agency Review Component* should be sent to the existing local municipal planning agency for their comments.

SECTION A: PROJECT NAME (See Section A of instructions)

Project Name
Shippenville - Paint Eik Sewage System Interconnection

SECTION B: REVIEW SCHEDULE (See Section B of instructions)

1. Date plan received by municipal planning agency. Feb 2015
2. Date review completed by agency. MARCH 18, 2015

SECTION C: AGENCY REVIEW (See Section C of instructions)

- | Yes | No | |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1. Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, <i>et seq.</i>)? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2. Is this proposal consistent with the comprehensive plan for land use?
If no, describe the inconsistencies _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Is this proposal consistent with the use, development, and protection of water resources?
If no, describe the inconsistencies _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. Does this project propose encroachments, obstructions, or dams that will affect wetlands?
If yes, describe impacts _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 6. Will any known historical or archaeological resources be impacted by this project?
If yes, describe impacts _____ |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Will any known endangered or threatened species of plant or animal be impacted by this project?
If yes, describe impacts <u>POSSIBLE IMPACT - AVOID</u> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8. Is there a municipal zoning ordinance? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. Is this proposal consistent with the ordinance?
If no, describe the inconsistencies _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. Does the proposal require a change or variance to an existing comprehensive plan or zoning ordinance? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 11. Have all applicable zoning approvals been obtained? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 12. Is there a municipal subdivision and land development ordinance? |

3800-FM-BPNPSM0382A 11/2012

SECTION C: AGENCY REVIEW (continued)

Yes No

N/A

13. Is this proposal consistent with the ordinance?

If no, describe the inconsistencies _____

14. Is this plan consistent with the municipal Act 537 Official Sewage Facilities Plan?

If no, describe the inconsistencies _____

15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?

If yes, describe _____

N/A

16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?

If yes, is the proposed waiver consistent with applicable ordinances?

17. Name, title and signature of planning agency staff member completing this section:

Name: LINDA H. DUFFEE

Title: Pres Ship Boro Council

Signature: [Signature]

Date: 3/18/15

Name of Municipal Planning Agency: Shippenville Boro

Address: 106 N School ST. RD. 600 244

Telephone Number: 814-782-3321

SECTION D: ADDITIONAL COMMENTS (See Section D of instructions)

This Component does not limit municipal planning agencies from making additional comments concerning the relevancy of the proposed plan to other plans or ordinances. If additional comments are desired, attach additional sheets.

The planning agency must complete this Component within 60 days.

This component and any additional comments are to be returned to the project sponsor.

COMPONENT 4B
COUNTY PLANNING AGENCY REVIEW



SEWAGE FACILITIES PLANNING MODULE Received
COMPONENT 4B - COUNTY PLANNING AGENCY REVIEW MAR 11 2015
(or Planning Agency with Areawide Jurisdiction)

URS Corporation

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning package and one copy of this *Planning Agency Review Component* should be sent to the existing county planning agency or planning agency with areawide jurisdiction for their comments.

SECTION A. PROJECT NAME (See Section A of Instructions)

Project Name
Shipperville - Paint Elk Sewage System Interconnection

SECTION B. REVIEW SCHEDULE (See Section B of Instructions)

1. Date plan received by county planning agency. 02-26-2015
2. Date plan received by planning agency with areawide jurisdiction _____
Agency name _____
3. Date review completed by agency 03-03-2015

SECTION C. AGENCY REVIEW (See Section C of Instructions)

- | | | |
|-------------------------------------|-------------------------------------|--|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Is there a county or areawide comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101 <i>et seq.</i>)? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Is this proposal consistent with the comprehensive plan for land use? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Does this proposal meet the goals and objectives of the plan?
If no, describe goals and objectives that are not met _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Is this proposal consistent with the use, development, and protection of water resources?
If no, describe inconsistency _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Is this proposal consistent with the county or areawide comprehensive land use planning relative to Prime Agricultural Land Preservation?
If no, describe inconsistencies: _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 6. Does this project propose encroachments, obstructions, or dams that will affect wetlands?
If yes, describe impact _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Will any known historical or archeological resources be impacted by this project?
If yes, describe impacts _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. Will any known endangered or threatened species of plant or animal be impacted by the development project? <u>REFER TO PNDZ SEARCH</u> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. Is there a county or areawide zoning ordinance? <u>"CLARION COUNTY AIRPORT ZONING" ONLY</u> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Does this proposal meet the zoning requirements of the ordinance?
If no, describe inconsistencies _____ |

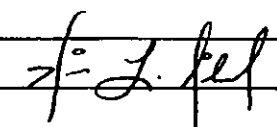
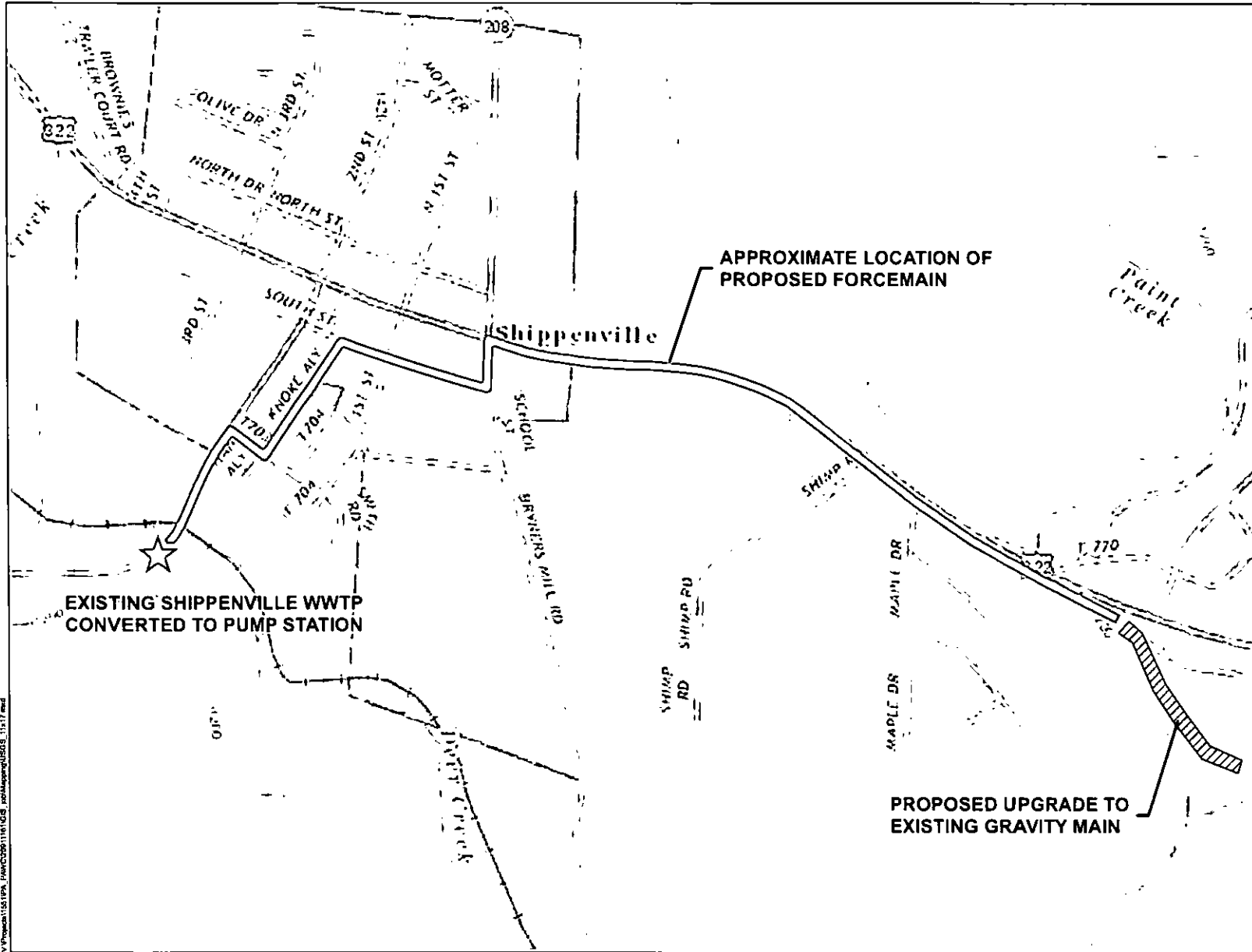
Yes	No	SECTION C. AGENCY REVIEW (continued)	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	11.	Have all applicable zoning approvals been obtained?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	12.	Is there a county or areawide subdivision and land development ordinance?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	13.	Does this proposal meet the requirements of the ordinance? If no, describe which requirements are not met _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	14.	Is this proposal consistent with the municipal Act 537 Official Sewage Facilities Plan? If no, describe inconsistency _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
<input type="checkbox"/>	<input type="checkbox"/>		If yes, is the proposed waiver consistent with applicable ordinances. If no, describe the inconsistencies <u>NONE NOTED</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	17.	Does the county have a stormwater management plan as required by the Stormwater Management Act?
<input checked="" type="checkbox"/>	<input type="checkbox"/>		If yes, will this project plan require the implementation of storm water management measures?
		18.	Name, Title and signature of person completing this section:
		Name:	<u>KEVIN L. REICHARD</u>
		Title:	<u>CLARION COUNTY ENGINEER</u>
		Signature:	
		Date:	<u>03-03-2015</u>
		Name of County or Areawide Planning Agency:	<u>CLARION COUNTY DEPT. OF PLANNING & DEVELOPMENT</u>
		Address:	<u>330 MAIN STREET, ROOM 12, CLARION, PA. 16214</u>
		Telephone Number:	<u>814-226-4000, EXT. 2803</u>
SECTION D: ADDITIONAL COMMENTS (See Section D of Instructions)			
This Component does not limit county planning agencies from making additional comments concerning the relevancy of the proposed plan to other plans or ordinances. If additional comments are needed, attach additional sheets.			
The county planning agency must complete this Component within 60 days.			
This Component and any additional comments are to be returned to the applicant.			

FIGURE 1
PROJECT PLOT PLAN

FIGURE 2
USGS MAP



PENNSYLVANIA AMERICAN WATER

AREA MAP

Scanned image of United States Geological Survey (USGS) Fryburg and Clarion Quadrangles, 1:24,000 scale paper map. ESRI ArcGIS Map Service, 7.5 x 7.5 Grid, 2013. <http://services.arcgisonline.com/arcgis/services>

N

0 300 600 Feet

1 inch = 600 feet

MAP FORMATTED FOR 31" (11" x 17") 8 1/2 SHEET. TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE

AECOM

4051 Ogletown Road
Sabre Building, Suite 300
Newark, DE 19713

FIGURE 2
USGS Quadrangle
Fryburg and Clarion

SHIPPENVILLE - PAINT ELK
SEWAGE SYSTEM
INTERCONNECTION

PENNSYLVANIA AMERICAN WATER COMPANY

PROJECT NUMBER:	DATE:
20911161	2/25/2015
DRAWN BY:	FIGURE NUMBER:
RM	
CHECKED BY:	
SC	2 of 2

V:\Projects\1105 EPA_PAW\CD001116\GIS_paw\map\paw\USGS_111617.mxd

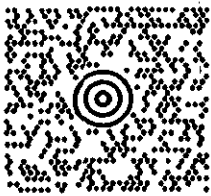
EMILY T. HICKS
717/531-3211
PAWC
800 WEST HERSHEY PARK DRIVE
HERSHEY PA 17033

1 LBS

1 OF 1

SHIP TO:

ROSEMARY CHIAVETTA, SECRETARY
717/772-7777
PA PUBLIC UTILITY COMMISSION
400 NORTH STREET
COMMONWEALTH KEYSTONE BUILDING
HARRISBURG PA 17120-0200

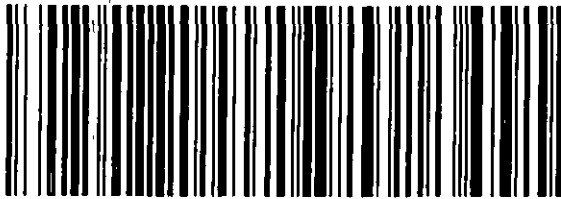


PA 171 9-20



UPS GROUND

TRACKING #: 1Z 972 3E2 03 9802 7292



BILLING: P/P



CMPC

To: PUC

Agency PUC

Floor:

External Carrier: UPS GROUND

9/16/2015 9:49:06 AM



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