



SEWAGE FACILITIES PLANNING MODULE COMPONENT 3

201 ARSENAL PHASE II RESIDENTIAL LAND DEVELOPMENT

SITUATE IN:
SIXTH WARD, CITY OF PITTSBURGH
ALLEGHENY COUNTY, PENNSYLVANIA

PREPARED FOR:
MILHAUS
460 Virginia Avenue
Indianapolis, IN 46203

161530

May 28, 2019

TABLE OF CONTENTS

- Sewage Facilities Planning Module – Component 3
- Appendix
 - Site Location Map
 - Soils Map
 - Supplement to Section E – Water Availability Letter from PWSA
 - Supplement to Section F – Project Narrative
 - Supplement to Section G.3 – Plot Plans for Sewage Facilities Planning Purposes
 - Supplement to Section G.4 – Wetland Protection
 - Supplement to Section G.6 – PHMC Review Letter
 - Supplement to Section G.7 – Threatened Species (PNDI)
 - Supplement to Section H – Alternative Sewage Facilities Analysis
 - Supplement to Section J – Flow Table Footnotes and Dry Weather Flow Calculation
 - Supplement to Section J – Sewage Flow Path Map
 - Supplement to Section P – Public Notice Requirement
 - Component 4A - Municipal Planning Agency Review
 - Component 4C - County or Joint Health Department Review

Code No.



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

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 201 ARSENAL PHASE II RESIDENTIAL LAND DEVELOPMENT
2. Brief Project Description MULTI-UNIT RESIDENTIAL BUILDING WITH MICRO, STUDIO, 1 BR, 2 BR, AND 3 BR APARTMENTS, AS WELL AS ASSOCIATED INFRASTRUCTURE AND INTEGRAL STRUCTURED PARKING.

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

Municipality Name	County	City	Boro	Twp
PITTSBURGH	ALLEGHENY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
SMUTS	MATTHEW			ASSOCIATE PROJECT MANAGER
Additional Individual Last Name	First Name	MI	Suffix	Title
ASCIOLLA	JULIE			BusinessDevelopment RelationsManager
Municipality Mailing Address Line 1	Mailing Address Line 2			
PENN LIBERTY PLAZA 1	1200 PENN AVENUE			
Address Last Line -- City	State	ZIP+4		
PITTSBURGH	PA	15222		
Area Code + Phone + Ext.	FAX (optional)	Email (optional)		
412-255-8800 x 2663	412-393-0517	MSMUTS@PGH20.COM		

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

201 ARSENAL PHASE II RESIDENTIAL LAND DEVELOPMENT

Site Location Line 1

135 39TH STREET

Site Location Line 2

Site Location Last Line -- City

PITTSBURGH

State

PA

ZIP+4

15201

Latitude

40.46929N

Longitude

-79.96415W

Detailed Written Directions to Site FOLLOW I-279S TO EXIT 2B ON THE RIGHT FOR EAST ST (TOWARD PA-28). TURN LEFT ONTO E OHIO ST TO MERGE ONTO PA-28N (TOWARD ETNA). TAKE EXIT 3A AND CONTINUE ACROSS THE 40TH ST BRIDGE. TURN RIGHT ONTO BUTLER ST AND THE DESTINATION IS ON THE RIGHT.

Description of Site MULTI-FAMILY 5-STORY RESIDENTIAL BUILDING WITH INTEGRAL STRUCTURED PARKING, AND OUTDOOR AMENITY SPACES INCLUDING A DOG PARK; BOUNDED BY 40TH ST TO THE NORTHEAST, BUTLER ST TO THE SOUTHEAST, 39TH ST TO THE SOUTHWEST, AND TRAIN TRACKS ON THE NORTHWEST.

Site Contact (Developer/Owner)

Last Name

SANDERS

First Name

ALEX

MI Suffix

Phone

(317)226-9500

Ext.

Site Contact Title

Site Contact Firm (if none, leave blank)

BUTLER & 40TH, LLC

FAX

Email

ALEX.SANDERS@MILHAUS.COM

Mailing Address Line 1

460 VIRGINIA AVE

Mailing Address Line 2

Mailing Address Last Line -- City

INDIANAPOLIS

State

IN

ZIP+4

46203

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

Last Name

GOLAN

First Name

MAUREEN

MI

Suffix

S

Title

EIT

Consulting Firm Name

PVE, LLC

Mailing Address Line 1

2000 GEORGETOWN DRIVE - SUITE 101

Mailing Address Line 2

Address Last Line -- City

SEWICKLEY

State

PA

ZIP+4

15143

Country

USA

Email

MGOLAN@PVE-LLC.COM

Area Code + Phone

724-444-1100

Ext.

531

Area Code + FAX

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.

Name of water company: PITTSBURGH WATER AND SEWER AUTHORITY

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 _____

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. EDU's 155

Connections 1

Name of:

existing collection or conveyance system 40th Street (MH049A016)

owner Pittsburgh Water and Sewer Authority (PWSA)

existing interceptor Allegheny River

owner Allegheny County Sanitary Authority (ALCOSAN)

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 ALCOSAN Woods Run WWTP

NPDES Permit Number for existing facility PA 0025984

Clean Streams Law Permit Number _____

Location of discharge point for a new facility. Latitude 40°28'34" N Longitude 80°02'44" W

b. The following certification statement must be completed and signed by the wastewater treatment facility permittee or their representative.

As an authorized representative of the permittee, I confirm that the ALCOSAN Woods Run (Name from above) sewage treatment facilities can accept sewage flows from this project without adversely affecting the facility's ability to achieve all applicable technology and water quality based effluent limits (see Section I) and conditions contained in the NPDES permit identified above.

Name of Permittee Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Shawn P. McWilliams, EIT

Agent Signature *Shawn P. McWilliams* Date 7/19/19

(Also see Section I. 4.)

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)

3. PLOT PLAN

The following information is to be submitted on a plot plan of the proposed subdivision.

- a. Existing and proposed buildings.
- b. Lot lines and lot sizes.
- c. Adjacent lots.
- d. Remainder of tract.
- e. Existing and proposed sewerage facilities. Plot location of discharge point, land application field, spray field, COLDS, or LVCOLDS if a new facility is proposed.
- f. Show tap-in or extension to the point of connection to existing collection system (if applicable).
- g. Existing and proposed water supplies and surface water (wells, springs, ponds, streams, etc.)
- h. Existing and proposed rights-of-way.
- i. Existing and proposed buildings, streets, roadways, access roads, etc.
- j. Any designated recreational or open space area.
- k. Wetlands - from National Wetland Inventory Mapping and USGS Hydric Soils Mapping.
- l. Flood plains or Flood prone areas, floodways, (Federal Flood Insurance Mapping)
- m. Prime Agricultural Land.
- n. Any other facilities (pipelines, power lines, etc.)
- o. Orientation to north.
- p. Locations of all site testing activities (soil profile test pits, slope measurements, permeability test sites, background sampling, etc. (if applicable).
- q. Soils types and boundaries when a land based system is proposed.
- r. Topographic lines with elevations when a land based system is proposed

4. WETLAND PROTECTION

YES NO

- a. Are there wetlands in the project area? If yes, ensure these areas appear on the plot plan as shown in the mapping or through on-site delineation.
- b. Are there any construction activities (encroachments, or obstructions) proposed in, along, or through the wetlands? If yes, identify any proposed encroachments on wetlands and identify whether a General Permit or a full encroachment permit will be required. If a full permit is required, address time and cost impacts on the project. Note that wetland encroachments should be avoided where feasible. Also note that a feasible alternative **MUST BE SELECTED** to an identified encroachment on an exceptional value wetland as defined in Chapter 105. Identify any project impacts on streams classified as HQ or EV and address impacts of the permitting requirements of said encroachments on the project.

5. PRIME AGRICULTURAL LAND PROTECTION

YES NO

- Will the project involve the disturbance of prime agricultural lands?
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 website 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.

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-BPNPSM0353-1) for additional information on Chesapeake Bay watershed requirements.

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)

Projects that propose the use of existing municipal collection, conveyance or wastewater treatment facilities, or the construction of collection and conveyance facilities to be served by existing municipal wastewater treatment facilities must be consistent with the requirements of Title 25, Chapter 94 (relating to Municipal Wasteload Management). If not previously included in Section F, include a general map showing the path of the sewage to the treatment facility. If more than one municipality or authority will be affected by the project, please obtain the information required in this section for each. Additional sheets may be attached for this purpose.

1. Project Flows 61650 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

When providing "treatment facilities" sewage flows, use Annual Average Daily Flow for "average" and Maximum Monthly Average Daily Flow for "peak" in all cases. For "peak flows" in "collection" and "conveyance" facilities, indicate whether these flows are "peak hourly flow" or "peak instantaneous flow" and how this figure was derived (i.e., metered, measured, estimated, etc.).

- a. Enter average and peak sewage flows for each proposed or existing facility as designed or permitted.
- b. Enter the average and peak sewage flows for the most restrictive sections of the existing sewage facilities.
- c. Enter the average and peak sewage flows, projected for 5 years (2 years for pump stations) through the most restrictive sections of the existing sewage facilities. Include existing, proposed (this project) and future project (other approved projects) flows.

To complete the table, refer to the instructions, Section J.

	a. Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd) (2 years for P.S.)	
	Average	Peak	Average	Peak	Average	Peak
Collection						
Conveyance	---	2.42 MGD	0.282 MGD	0.335 MGD	0.347 MGD	0.401 MGD
Treatment	---	250.0 MGD	194.8 MGD	250.0 MGD	194.8 MGD	250.0 MGD

3. Collection and Conveyance Facilities

The questions below are to be answered by the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities. These questions should be answered in coordination with the latest Chapter 94 annual report and the above table. The individual(s) signing below must be legally authorized to make representation for the organization.

YES NO

- a. This project proposes sewer extensions or tap-ins. Will these actions create a hydraulic overload within five years 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 all inconsistencies with Chapter 94 are resolved or unless there is an approved Corrective Action Plan (CAP) granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the module package.

If no, a representative of the sewer authority, municipality, or agency responsible for completing the Chapter 94 report 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 both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not affect that status.

b. Collection System

Name of Agency, Authority, Municipality _____

Name of Responsible Agent _____

Agent Signature _____ Date _____

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of Instructions)

Projects that propose the use of existing municipal collection, conveyance or wastewater treatment facilities, or the construction of collection and conveyance facilities to be served by existing municipal wastewater treatment facilities must be consistent with the requirements of Title 25, Chapter 94 (relating to Municipal Wasteload Management). If not previously included in Section F, include a general map showing the path of the sewage to the treatment facility. If more than one municipality or authority will be affected by the project, please obtain the information required in this section for each. Additional sheets may be attached for this purpose.

1. Project Flows 61650 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

When providing "treatment facilities" sewage flows, use Annual Average Daily Flow for "average" and Maximum Monthly Average Daily Flow for "peak" in all cases. For "peak flows" in "collection" and "conveyance" facilities, indicate whether these flows are "peak hourly flow" or "peak instantaneous flow" and how this figure was derived (i.e., metered, measured, estimated, etc.).

- a. Enter average and peak sewage flows for each proposed or existing facility as designed or permitted.
- b. Enter the average and peak sewage flows for the most restrictive sections of the existing sewage facilities.
- c. Enter the average and peak sewage flows, projected for 5 years (2 years for pump stations) through the most restrictive sections of the existing sewage facilities. Include existing, proposed (this project) and future project (other approved projects) flows.

To complete the table, refer to the instructions, Section J.

	a. Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd) (2 years for P.S.)	
	Average	Peak	Average	Peak	Average	Peak
Collection	9195400	32184000	419000	1466500	458445	1604558
Conveyance						
Treatment						

3. Collection and Conveyance Facilities

The questions below are to be answered by the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities. These questions should be answered in coordination with the latest Chapter 94 annual report and the above table. The individual(s) signing below must be legally authorized to make representation for the organization.

YES NO

- a. YES NO This project proposes sewer extensions or tap-ins. Will these actions create a hydraulic overload within five years 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 all inconsistencies with Chapter 94 are resolved or unless there is an approved Corrective Action Plan (CAP) granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the module package.

If no, a representative of the sewer authority, municipality, or agency responsible for completing the Chapter 94 report 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 both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not affect that status.

b. Collection System

Name of Agency, Authority, Municipality PITTSBURGH WATER AND SEWER AUTHORITY

Name of Responsible Agent Barry King, P.E. - Director of Engineering

Agent Signature [Signature] Date 6/24/19

DEP Sewage Facilities Planning Module
Chapter 94 Consistency Determination
Hydraulic Calculations Review

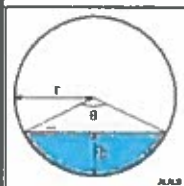
LEGEND:

Input Data

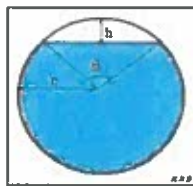
Output Data

PROJECT NAME: 201 Arsenal Phase II
PROJECT LOCATION: 135 39th Street, Pittsburgh, PA 15201
TIE-IN LOCATION: 30-inch VCP Combined Sewer on 40th Street
PWSA REVIEWER: Rob Herring, P.E.
DATE: June 20, 2019

Section A: Manning Equation for Partially Filled Pipes



Partially Full Pipe Flow Parameters
(Less Than Half Full)



Partially Full Pipe Flow Parameters
(More Than Half Full)

Variable	Units	Description
Q	ft ³	Volumetric flowrate
n	Unitless	Manning Roughness Coeff.
A	ft ²	Cross-Sectional Area of Flow
R	ft	Hydraulic Radius
S	ft/ft	Slope of Hydraulic Grade Line
P	ft	Wetted Perimeter of "A"
r	ft	Radius
h	ft	Depth of Flow or Headspace
θ	radians	Central Angle

$$Q = \left(\frac{1.49}{n}\right) \times A \times R^{2/3} \times S^{1/2}$$

$$R = \frac{A}{P}$$

$$\theta = 2 \times \cos^{-1} \left(\frac{r-h}{r} \right)$$

$$A_{<50\% \text{ Full}} = \frac{r^2(\theta - \sin \theta)}{2}$$

OR

$$A_{>50\% \text{ Full}} = \pi \times r^2 \times \frac{r^2(\theta - \sin \theta)}{2}$$

$$P_{<50\% \text{ Full}} = r \times \theta$$

$$P_{>50\% \text{ Full}} = (2 \times \pi \times r) - (r \times \theta)$$

Section B: Data for Calculations

Variable	Value	Units
n	0.014	unitless
Material	VCP	
S	0.017	ft/ft
h	0.200	ft
D	2.50	ft
h/D	0.08	ft/ft
P.F.	3.5	unitless

Peaking Factor, P.F.	
Combined Sewers	3.5
Sanitary Sewers	3

Proposed Project Flows		
Variable	Value	Units
Q _o	61,650	gpd

Section C: Design Flow Calculations

Variable	Description	Definition
Q _{d, peak}	Design Peak Flow	full pipe flow conditions
Q _{d, avg}	Design Avg. Flow	full pipe flow conditions divided by the peaking factor

Peak Design Flow Calcs		
Variable	Value	Unit
D	2,500	ft
r	1,250	ft
A	4,909	ft ²
P	7.854	ft
R	0.625	ft
Q _{d, peak}	50	cfs
Q _{d, peak}	32,182,376	gpd

Average Design Flow Calcs		
Variable	Value	Unit
Q _{d, avg}	9,194,965	gpd

Section D: Existing Flow Calculations

Variable	Description	Definition
Q _{ex, avg}	Existing Avg. Flow	existing flow conditions based on flow depth measurement
Q _{ex, peak}	Existing Peak Flow	the average existing flow multiplied by the peaking factor

Existing Average Flow Calcs		
Variable	Value	Unit
D	2,500	ft
r	1,250	ft
θ	1.15	rad
A	0.15	ft ²
P	1.43	ft
R	0.128	ft
Q _{ex, peak}	1	cfs
Q _{ex, peak}	419,742	gpd

Existing Peak Flow Calcs		
Variable	Value	Unit
Q _{ex, avg}	1,469,098	gpd

Section E: Projected Flow Calculations

Variable	Description	Definition
Q _{proj, peak}	Projected Peak Flow	$= (Q_{ex, peak} + Q_d) \times 1.05$
Q _{proj, avg}	Projected Avg. Flow	$= Q_{proj, peak} + P.F.$

Projected Flow Calculations		
Variable	Value	Unit
Q _{proj, peak}	1,607,285	gpd
Q _{proj, avg}	459,224	gpd

Section F: Compare Results with Applicant's Submission

Variable	PWSA Calcs, gpd	Applic. Calcs, gpd	Difference, gpd	Difference, %
Q _{d, peak}	32,182,376	32,184,000	1,624	0%
Q _{d, avg}	9,194,965	9,195,400	-435	0%
Q _{ex, peak}	1,469,098	1,466,500	2,598	0%
Q _{ex, avg}	419,742	419,000	742	0%
Q _{proj, peak}	1,607,285	1,604,558	2,727	0%
Q _{proj, avg}	459,224	458,445	779	0%

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Shawn P. McWilliams, EIT

Agent Signature *Shawn P. McWilliams*

Date 7/19/19

4. Treatment Facility

The questions below are to be answered by a representative of the facility permittee in coordination with the information in the table and the latest Chapter 94 report. The individual signing below must be legally authorized to make representation for the organization.

YES NO *ALCOSAN IS UNDER A CONSENT DECREE TO ADDRESS WET WEATHER OVERFLOWS.

- a. This project proposes the use of an existing wastewater treatment plant for the disposal of sewage. Will this action create a hydraulic or organic overload within 5 years 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 inconsistency with Chapter 94 is resolved or unless there is an approved CAP granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the planning module.

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 both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not impact that status.

b. Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Shawn P. McWilliams, EIT

Agent Signature *Shawn P. McWilliams*

Date 7/19/19

K. TREATMENT AND DISPOSAL OPTIONS (See Section K of instructions)

This section is for land development projects that propose construction of wastewater treatment facilities. Please note that, since these projects require permits issued by DEP, these projects may NOT receive final planning approval from a delegated local agency. Delegated local agencies must send these projects to DEP for final planning approval.

Check the appropriate box indicating the selected treatment and disposal option.

1. Spray irrigation (other than individual residential spray systems (IRSIS)) or other land application is proposed, and the information requested in Section K.1. of the planning module instructions are attached.
2. Recycle and reuse is proposed and the information requested in Section K-2 of the planning module instructions is attached.
3. A discharge to a dry stream channel is proposed, and the information requested in Section K.3. of the planning module instructions are attached.
4. A discharge to a perennial surface water body is proposed, and the information requested in Section K.4. of the planning module instructions are attached.

L. PERMEABILITY TESTING (See Section L of instructions)

- The information required in Section L of the instructions is attached.

M. PRELIMINARY HYDROGEOLOGIC STUDY (See Section M of instructions)

- The information required in Section M of the instructions is attached.

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 61,650 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)
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?

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

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.

MAUREEN S. GOLAN	<i>Maureen S. Golan</i>
Name (Print)	Signature
ENGINEER IN TRAINING	April 10, 2019
Title	Date
2000 GEORGETOWNE DRIVE - SUITE 101, SEWICKLEY, PA 15143	724-444-1100
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 \$7,750 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.

$$\#155 \text{ Lots (or EDUs) X } \$50.00 = \$ 7,750$$

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:

$$\begin{aligned} & \$ 1,500 \text{ per submittal (non-municipal)} \\ & \$ 500 \text{ per submittal (municipal)} \end{aligned}$$

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

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

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:

$$\begin{aligned} & \$ 1,500 \text{ per submittal (non-municipal)} \\ & \$ 500 \text{ per submittal (municipal)} \end{aligned}$$

COMPONENT 3
APPENDIX



Pennsylvania Corporate Headquarters
Waterfront Corporate Park III Suite 101
2000 Georgetowne Drive
Sewickley, PA 15143
724.444.1100
www.pve-llc.com

Civil Engineering • Energy • Environmental • Land Development • Landscape Architecture • Municipal • Structure Design • Survey

CERTIFIED MAIL

June 26, 2019
161530

Mr. Michael Lichte, P.E., Manager of Planning
Allegheny County Sanitary Authority (ALCOSAN)
3300 Preble Avenue
Pittsburgh, PA 15233

A-27
RECEIVED
6/28/19

**RE: Sewage Facilities Planning Module for
201 Arsenal Phase II Residential Land Development
City of Pittsburgh, Allegheny County**

Mr. Lichte:

Please find enclosed the Planning Module Component 3 prepared for the above referenced project for you to review. If the information provided is acceptable, please include your flow data in Section J and sign in the appropriate locations.

The 201 Arsenal Phase II Residential Land Development will be located along Butler Street between 40th and 39th Streets, in the 6th Ward of the City of Pittsburgh. The proposed multi-unit residential buildings, with associated integral structured parking and amenity space will be serviced by a gravity operated collection system which will be owned and operated by the Pittsburgh Water and Sewer Authority to an existing ALCOSAN Interceptor. From this point sewage is then conveyed to the ALCOSAN sewage treatment plant. The proposed development will generate approximately an additional 61,650 gallons per day into the system. Please note that CEC submitted an SFPM in 2016, which has been allocated for Phase 1 construction.

Once we receive the signed and completed Component 3 and the completed Municipal and County reviews (Components 4A & 4C), we will make the appropriate number of copies and mail the entire Planning Module package to the City of Pittsburgh along with the required Resolution for Adoption by Council.

If you have any questions or require additional information, please do not hesitate to call.

Sincerely,
PVE, LLC

Maureen Golan, EIT
Enclosures

New York
48 Springside Avenue
Poughkeepsie, NY 12603
845.454.2544

Manhattan
708 West 39th Street
Suite 500
New York, NY 10018
646.602.4999

West Virginia
1700 MacCorkle Avenue, S.E.
Charleston, WV 25314
304.340.4821

Ohio
1156 E. State Street
Salem, OH 44460
330.332.5200

Texas
10550 Richmond Avenue
Suite 160
Houston, TX 77042
713.375.1400 ext. 456

alcosan



alleggheny county
sanitary authority

July 19, 2019

Members of the Board

Sylvia C. Wilson
Chair Person

Jack Shea
Rep. Harry Readshaw
John Weinstein
Corey O'Connor
Brenda L. Smith
Shannah Tharp-Gilliam, Ph.D.

Arletta Scott Williams
Executive Director

William H. Inks, CPA
*Director
Finance & Administration*

Jan M. Oliver
*Director
Regional Conveyance*

Douglas A. Jackson, P.E.
*Director
Operations & Maintenance*

Kimberly N. Kennedy, P.E.
*Director
Engineering & Construction*

Michelle M. Buys, P.E.
*Director
Environmental Compliance*

Jeanne K. Clark
*Director
Governmental Affairs*

Joseph Vallarian
*Director
Communications*

Ms. Maureen Golan, EIT
PVE, LLC
Waterfront Corporate Park III, Suite 101
2000 Georgetown Drive
Sewickley, PA 15143

**Re: 201 Arsenal Phase II – City of Pittsburgh, 6th Ward
PA DEP Sewage Facilities Planning Module
ALCOSAN Regulator Structure A-27-00**

Dear Ms. Golan:

We have reviewed the Component 3 Planning Module for the referenced project to be located in 6th Ward of the City of Pittsburgh. The project will generate a peak flow of 61,650 gpd in the ALCOSAN Allegheny River Interceptor and Woods Run Treatment Plant.

The capacity at the ALCOSAN A-27-00 Diversion Structure is 2.42 MGD. The daily peak dry weather flow is approximately 0.335 MGD. Sufficient dry weather capacity exists for this connection. However, the ALCOSAN Allegheny River Interceptor and the Woods Run Treatment Plant do not have the capacity for the flows generated by the tributary communities during wet weather periods. This limitation will be analyzed further as ALCOSAN implements its Clean Water Plan.

ALCOSAN has completed and signed the sections required in the Component 3 module and requests that this letter be made part of the planning module submission. If you have any questions regarding this matter, please contact me at 412-732-8053.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY

Shawn P. McWilliams, EIT
Civil Engineer

attachment

cc: C. Dean (w/o attachment)
D. Thornton (w/o attachment)
M. Lichte (w/o attachment)
Matt Smuts/ PWSA (w/o attachment)
T. Flanagan/ PADEP (w/o attachment)
M. Scheer/ ACHD (w/o attachment)



June 25, 2019

Ms. Maureen Golan, E.I.T.
PVE, LLC
Waterfront Corporate Park III, Suite 101
2000 Georgetowne Drive
Sewickley, PA 15143

Subject: DEP Sewage Facilities Planning Module – Component 3
Chapter 94 Consistency Determination
201 Arsenal Phase II
Submitted: June 3, 2019

Dear Ms. Golan:

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module for the 201 Arsenal Phase II (Project) located at 135 39th Street, Pittsburgh, PA 15201. We have determined that the proposed Project will not create a dry-weather hydraulic overload within the next five (5) years for any collection facility owned by the Pittsburgh Water and Sewer Authority (PWSA). Please refer to the enclosed and approved "Section J – Chapter 94 Consistency Determination". A copy of the DEP-approved Sewage Facilities Planning Module shall be provided to the PWSA prior to the issuance of the Tap-In Permit for connection to the existing waterline and/or sewerline.

Please be advised that the Sewage Facilities Planning Module shall not be considered complete by the DEP until approved by the Allegheny County Sanitary Authority (ALCOSAN) and Pittsburgh City Council (Council). For additional information, please contact Michael Lichte (412-734-6209) at ALCOSAN or Leslie Stevens (412-255-2005) at the City of Pittsburgh Law Department. Please note that a City Resolution shall be requested prior to Council approval.

Our review was based on information provided by your firm under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at 412-255-8580 or RHerring@pgh2o.com.

Sincerely,

A handwritten signature in blue ink that reads 'Robert Herring'.

Robert Herring, P.E.
Engineering Consultant

Enclosures

cc: Kate Mechler, P.E. – PWSA (via email)
Julie Ascioffa – PWSA (via email)
Thomas Flanagan – DEP (via email)
Leslie Stevens – City of Pittsburgh Law Department (via email)
Michael Lichte, P.E. – ALCOSAN (via email)
PWSA File (via email)

Penn Liberty Plaza I
1200 Penn Avenue
Pittsburgh PA 15222

Info@pgh2o.com
T 412.255.2423
F 412.255.2475

www.pgh2o.com
@pgh2o

Customer Service /
Emergencies:
412.255.2423

To: Barry King, P.E.

From: Robert Herring, P.E.

Date: June 20, 2019

Subject: DEP Sewage Facilities Planning Module – Component 3
Chapter 94 Consistency Determination
Hydraulic Calculation Review
201 Arsenal Phase II

Dear Barry,

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module – Component 3 as submitted by PVE, LLC (Applicant) for the 201 Arsenal Phase II Project (Project) located at 135 39th Street, Pittsburgh, PA 15201. In accordance with Title 25 of the Pennsylvania Code, the Pittsburgh Water and Sewer Authority (PWSA) is required to prepare an annual Wasteload Management Report on the collection and conveyance of wastewater relative to available capacity. Our review was conducted to understand how the proposed Project will impact available dry-weather capacity and whether the proposed flows will contribute to a dry-weather hydraulic overload within the next five (5) years. Please note that a dry-weather hydraulic overload shall require denial of the Sewage Planning Module and submission of a Corrective Action Plan to the PaDEP.

Based on the foregoing, we have determined that the proposed Project will not contribute to a dry-weather hydraulic overload within the next five years. Please refer to the enclosed hydraulic calculations for the proposed tie-in location. Upon your approval, please sign the enclosed "Section J - Chapter 94 Consistency Determination" from the DEP Sewage Facilities Planning Module – Component 3, as indicated.

Our review was based on information provided by the Applicant under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly.

Yours truly,


Robert Herring, P.E.
Engineering Consultant

Enclosures

Penn Liberty Plaza I
1200 Penn Avenue
Pittsburgh PA 15222

info@pgh2o.com
T 412.255.2423
F 412.255.2475

www.pgh2o.com
[@pgh2o](https://twitter.com/pgh2o)

**Customer Service /
Emergencies:
412.255.2423**



Pennsylvania Corporate Headquarters

Waterfront Corporate Park III Suite 101
2000 Georgetowne Drive
Sewickley, PA 15143
724.444.1100
www.pve-llc.com

Civil Engineering • Energy • Environmental • Land Development • Landscape Architecture • Municipal • Structure Design • Survey

CERTIFIED MAIL

May 28, 2019
161530

Pittsburgh Water & Sewer Authority
Engineering and Construction Division
Penn-Liberty Plaza 1
1200 Penn Avenue
Pittsburgh, PA 15222

**RE: Sewage Facilities Planning Module for
201 Arsenal Phase II Residential Land Development
City of Pittsburgh, Allegheny County**

Mr. Matthew Smuts:

Please find enclosed the Planning Module Component 3 prepared for the above referenced project for you to review. If the information provided is acceptable, please include your flow data in Section J and sign in the appropriate locations.

The 201 Arsenal Phase II Residential Land Development will be located along Butler Street between 40th and 39th Streets, in the 6th Ward of the City of Pittsburgh. The proposed multi-unit residential buildings, with associated integral structured parking and amenity space will be serviced by a gravity operated collection system which will be owned and operated by the Pittsburgh Water and Sewer Authority to an existing ALCOSAN Interceptor. From this point sewage is then conveyed to the ALCOSAN sewage treatment plant. The proposed development will generate approximately an additional 61,650 gallons per day into the system. Please note that CEC submitted an SFPM in 2016, which has been allocated for Phase 1 construction.

Once we receive the signed and completed Component 3 and the completed Municipal and County reviews (Components 4A & 4C), we will make the appropriate number of copies and mail the entire Planning Module package to the City of Pittsburgh along with the required Resolution for Adoption by Council.

If you have any questions or require additional information, please do not hesitate to call.

Sincerely,
PVE, LLC

Maureen Golan, EIT
Enclosures

New York

48 Springside Avenue
Poughkeepsie, NY 12603
845.454.2544

Manhattan

708 West 39th Street
Suite 500
New York, NY 10018
646.602.4999

West Virginia

1700 MacCorkle Avenue, S.E.
Charleston, WV 25314
304.340.4821

Ohio

1156 E. State Street
Salem, OH 44460
330.332.5200

Texas

10550 Richmond Avenue
Suite 160
Houston, TX 77042
713.375.1400 ext. 456

COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

August 1, 2019

Maureen Golan, EIT
PVE Engineering
Waterfront Corporate Park III, Suite 101
2000 Georgetowne Drive
Sewickley, PA 15143

**RE: SEWAGE FACILITIES PLANNING MODULE;
201 Arsenal Phase II Residential Land Development,
City of Pittsburgh, ALLEGHENY COUNTY**

Dear Ms. Golan:

Enclosed is a signed copy of Component 4C, County or Joint County Health Department Review, for the above-referenced development. This Planning Module Component was received on July 30, 2019. The project proposes the following:

Project Description:	201 Arsenal Phase II Residential Land Development. Proposing to construct a new multi-unit residential building (second phase) with associated integral structured parking and amenity space located along Butler Street between 40th and 39th in the City of Pittsburgh, Allegheny County.
Sewage Flow:	61,650 GPD
Conveyance:	The flow from this site will be conveyed to the Pittsburgh Water & Sewer Authority collection system to ALCOSAN POC A-27 to the Allegheny River interceptor and then to the ALCOSAN Treatment Plant at Woods Run.
Sewer's Owner:	PWSA (collection) and ALCOSAN (interceptor)
Name of Sewage Treatment Plant:	ALCOSAN

Please be advised that a permit must be obtained from the Allegheny County Health Department's (ACHD) Plumbing Section prior to commencing any plumbing work for the proposed project. Plumbing work for which an ACHD Plumbing Permit must be obtained includes any plumbing work done on the site and any sewers, which will not be owned and operated by a municipality or a sewer authority.



KAREN HACKER, MD, MPH, DIRECTOR
ALLEGHENY COUNTY HEALTH DEPARTMENT

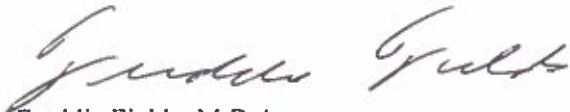
WATER POLLUTION CONTROL & SOLID WASTE MANAGEMENT
3901 PENN AVENUE • BUILDING 5 • PITTSBURGH, PA 15224-1318
PHONE: 412.578.8040 • FAX: 412.578.8053 • WWW.ACHD.NET



In addition, it should be noted that the approval of this sewage facilities planning module does not include approval of pipe size and/or type. Approval for pipe size and/or type must be obtained by filing a specific plumbing plan with the ACHD's Plumbing Section. If you should have any questions relative to ACHD's plumbing requirements, you can call Ivo Miller, Plumbing Program Manager at 412-578-8393.

The ACHD has no objection to the approval of this project. If you have any questions, please call me at 412-578-8046

Sincerely,

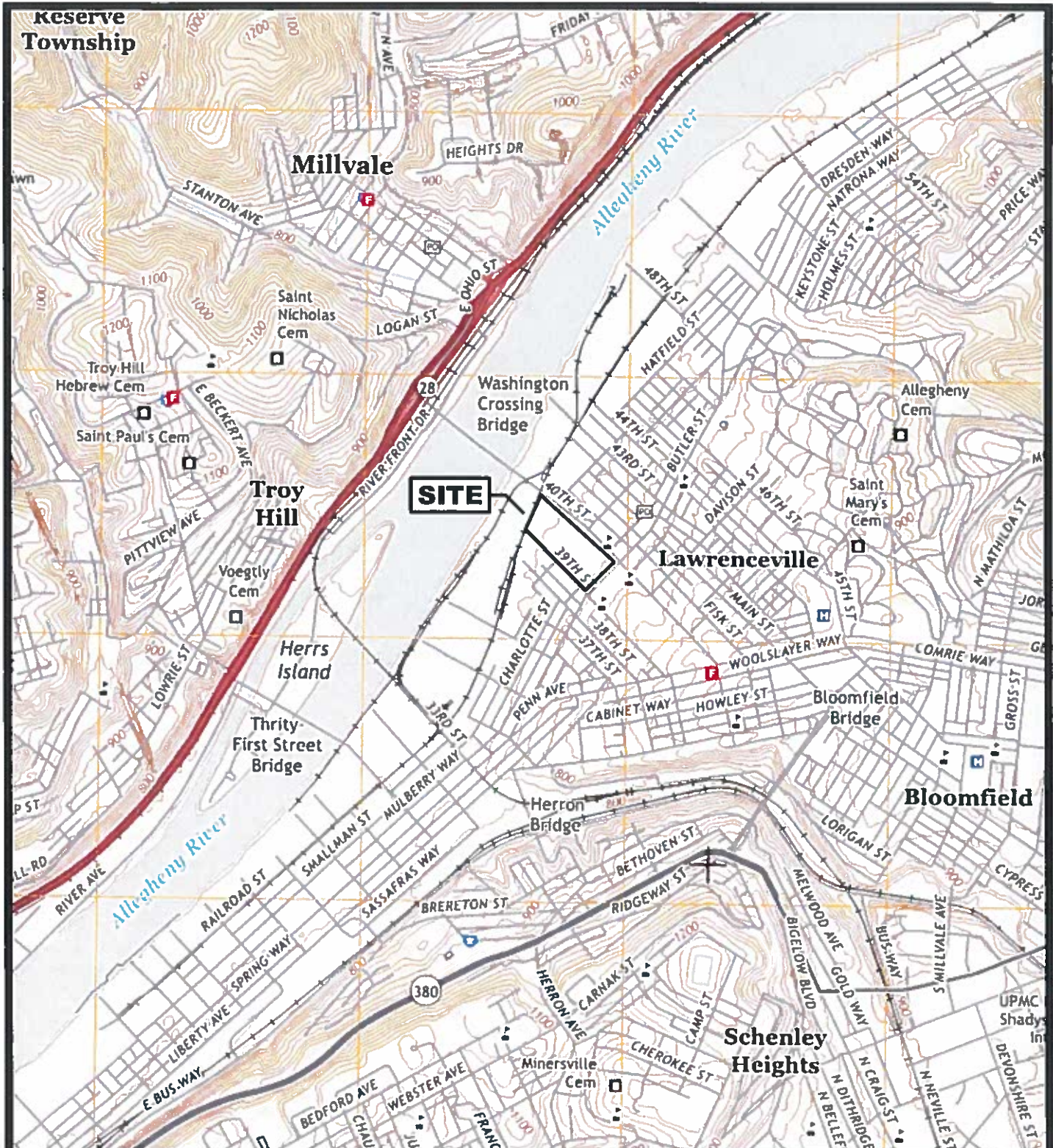


Freddie Fields, M.B.A.
Environmental Health Engineer III
Water Pollution Control & Solid Waste Management

FF/cb
Enclosure

cc: Thomas Flanagan, PA DEP w/attachment (electronically)
Ivo Miller, ACHD w/attachment (electronically)

SITE LOCATION MAP



SITE LOCATION MAP

ARSENAL TERMINAL REDEVELOPMENT
 CITY OF PITTSBURGH, ALLEGHENY COUNTY, PENNSYLVANIA
 USGS 7.5' Topographic Map, Pittsburgh East, PA Quadrangle, 2016



Waterfront Corporate Park III, Suite 101 P: 724-444-1100
 2000 Georgetowne Drive F: 724-444-1104
 Sewickley, PA 15143 www.pve-llc.com

Civil Engineering | Land Development | Planning
 Landscape Architecture | Structures | Environmental



DATE:	04.18.2018
SCALE:	1"=2000'
PROJECT NUMBER:	161530

FIGURE 1

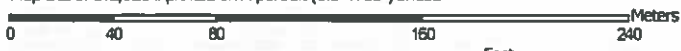
SOILS MAP

Soil Map—Allegheny County, Pennsylvania
(161530 - Arsenal Terminal Redevelopment)



Soil Map may not be valid at this scale.

Map Scale: 1:2,920 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge ticks: UTM Zone 17N WGS84



MAP LEGEND

	Area of Interest (AOI)		Soil Map Unit Polygons		Soil Map Unit Lines		Soil Map Unit Points		Special Point Features		Water Features		Streams and Canals		Transportation		Rails		Interstate Highways		US Routes		Major Roads		Local Roads		Background		Aerial Photography																		
	Area of Interest (AOI)		Soil Map Unit Polygons		Soil Map Unit Lines		Soil Map Unit Points		Special Point Features		Blowout		Borrow Pit		Clay Spot		Closed Depression		Gravel Pit		Gravelly Spot		Landfill		Lava Flow		Marsh or swamp		Mine or Quarry		Miscellaneous Water		Perennial Water		Rock Outcrop		Saline Spot		Sandy Spot		Severely Eroded Spot		Sinkhole		Slide or Slip		Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Allegheny County, Pennsylvania
Survey Area Data: Version 12, Oct 27, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 5, 2014—Aug 28, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UB	Urban land	7.5	43.7%
URB	Urban land-Rainsboro complex, gently sloping	9.7	56.3%
Totals for Area of Interest		17.1	100.0%

**WATER AVAILABILITY LETTER
FROM PITTSBURGH WATER AND SEWER
AUTHORITY (PWSA)**



February 16, 2018

Mr. Joel Papcunik
PVE
2000 Georgetowne Drive, Suite 101
Sewickley, PA 15143

**RE: Water and Sewer Availability
Arsenal Terminal Warehouses – Phase 2
39th Street - 15201**

Dear Mr. Papcunik:

In response to your inquiry on 2/12/2018 concerning water and sewer availability for the area referenced above, please be advised that both water and sewers are available near the site, and water and sewer service will be provided in accordance with the policies and procedures of the Pittsburgh Water and Sewer Authority.

We wish to advise you that, if it is your desire to tap our water and sewer mains for service, your plans and Water and Sewer Use Application must be approved by the Authority, complete with detail showing the type of connection, meter, and backflow device before any work is performed.

Please note that the Authority in no way guarantees that the available lines have the capacity or pressure adequate for your project's needs. It is the responsibility of the project developer, design consultant, and/or architects to determine, at their expense, the adequacy of the existing water system to fulfill their needs.

If you plan to make modifications to the water or sewer system, please submit design drawings to The Pittsburgh Water and Sewer Authority for approval.

Refer to the Pittsburgh Water and Sewer Authority (PWSA) website (www.pgb2o.com) for the complete "Procedure Manual for Developers". All tap in plans and applications must be submitted according to the manual.

If you have any questions please feel free to contact me at (412) 255-0841. Thank you.

Sincerely,


Michelle E. Carney
Engineering Technician III

MEC

cc: PWSA File

Penn Liberty Plaza I info@pgh2o.com
1200 Penn Avenue T 412.255.2423
Pittsburgh PA 15222 F 412.255.2475

www.pgh2o.com
@pgh2o

Customer Service /
Emergencies:
412.255.2423



PITTSBURGH WATER AND SEWER AUTHORITY

WATER AND SEWER AVAILABILITY LETTER REQUEST FORM

All persons planning to perform construction, demolition, or renovation work that will involve water and/or sewer services are recommended to complete this form and submit to PWSA. PWSA will review the request and reply to indicate if PWSA-owned water and/or sewer utilities are present at the site of the proposed work.

This request form is required for all of the following types of development. (Please note that the term "sewer" refers to sanitary sewers, combined sewers, and storm sewers.)

- 1. New water and/or sewer tap(s) for all approved/recorded subdivisions.
2. Change of Use and/or increase in water and/or sewer flows for residential development(s), commercial, industrial and institutional developments (i.e. total project sanitary flow is greater than 799 gallons per day).
3. New water and/or sewer tap(s) for all residential, commercial, industrial, and institutional developments.

Information to be submitted by the Applicant:
Property Owner Name: Arsenal Terminal Warehouses, Inc
Address of Property: 39 Street, Pittsburgh PA 15201
Proposed Use of Site: 2 building, 244 unit, 5 story Residential Development
Closest street intersection to the property: Willow Street / 39th Street
Requestor Name: Joel Papcunik Date of Request: Feb 12, 2018
Requestor Address: 2000 Georgetown Drive, Suite 101 Sewickley PA 15143
Requestor Phone Number: 724-444-1100 x541

Please submit the completed form to:

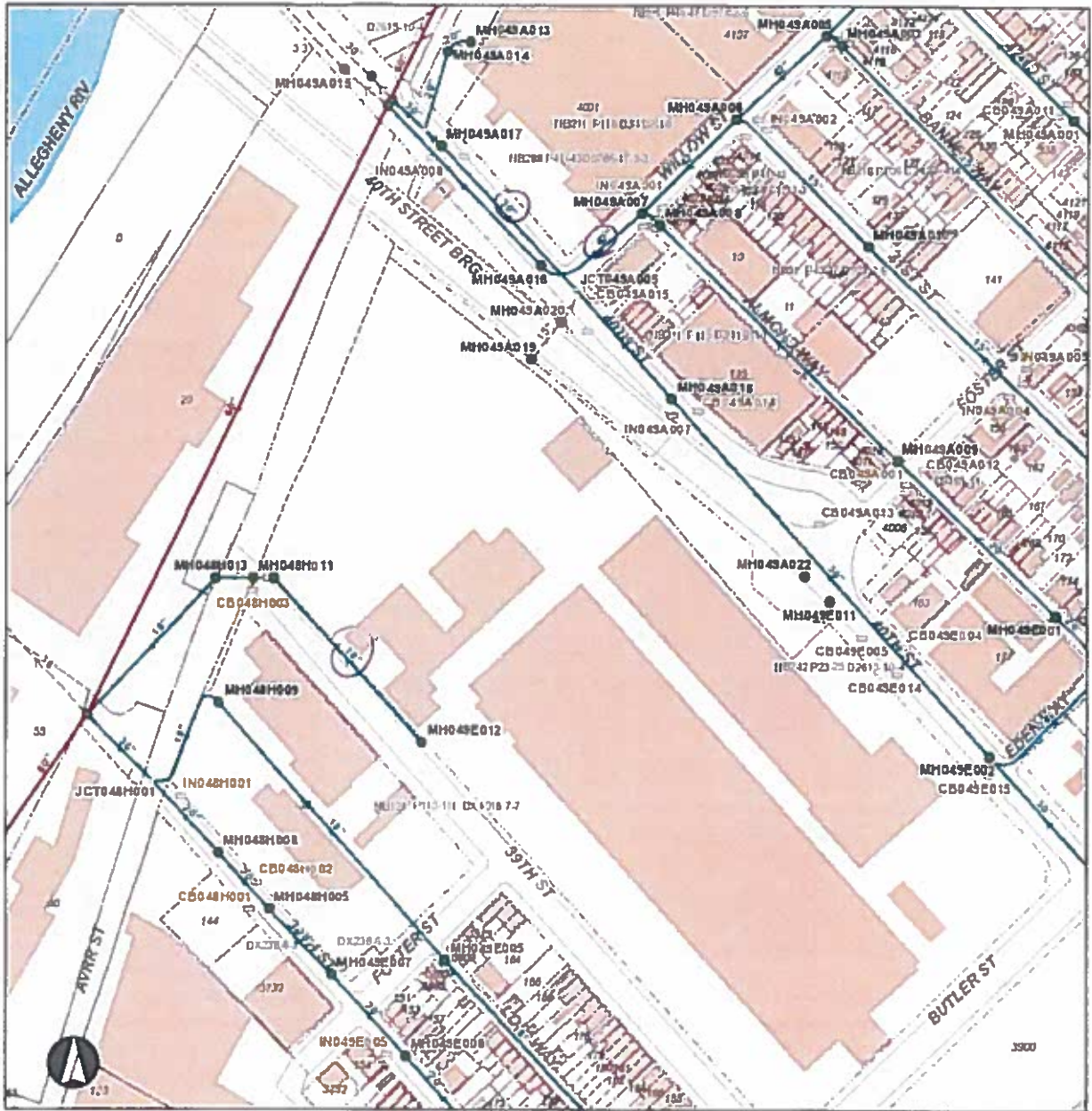
Pittsburgh Water and Sewer Authority
Engineering and Construction Division
1200 Penn Avenue
Pittsburgh, PA 15222
Attn: Ms. Michelle Carney (mcarney@pwsa.com)

RECEIVED FEB 13 2018

PWSA Use Only:
PWSA Water Service Available: [X] Yes [] No Size / Location: 8" 39th St; 6" & 42" 40th St
PWSA Sewer Service Available: [X] Yes [] No Size / Location: 18" 39th St; 30" 40th St
Applicant must contact separate agency for water and/or sewer service: [] Yes [X] No
Name of separate agency: N/A
PWSA Approval Authority: Signature and Date: Michelle Carney 2-15-2018
Name (printed): Michelle Carney
Title: Engineering Tech 3

Disclaimer: The information provided by PWSA does not guarantee capacity of the PWSA-owned water and/or sewer lines to satisfy the needs of the proposed development. The permit application process required by PWSA evaluates the water demand and sewer flows of the development, as provided by the Applicant, and renders a decision on the capacity of the PWSA facilities.

Arsenal terminal 39th St & Butler



Legend	
	Meter
	Pump
	Hydrant
	Hydrant - Out of Service
	System Valve
	Dividing Pressure Valve
	Cap
	Tee or Cross
	Reducer
	Coupling
	Wash Out
	Water Manhole
	Rising Main
	Supply Main
	Transverse Main
	Distribution Main
	Hydrant Branch
	Private Main
	Water Service Line
	Manhole
	Junction
	Inlet
	Private Inlet
	Outlet
	End Cap
	Sewer Pump Station
	Combined Sewer
	Sanitary Sewer
	Storm Sewer
	Regulated Combined Sewer
	Overflow Sewer
	Interceptor
	Sewer Force Main
	Private Sewer
	Undefined Sewer

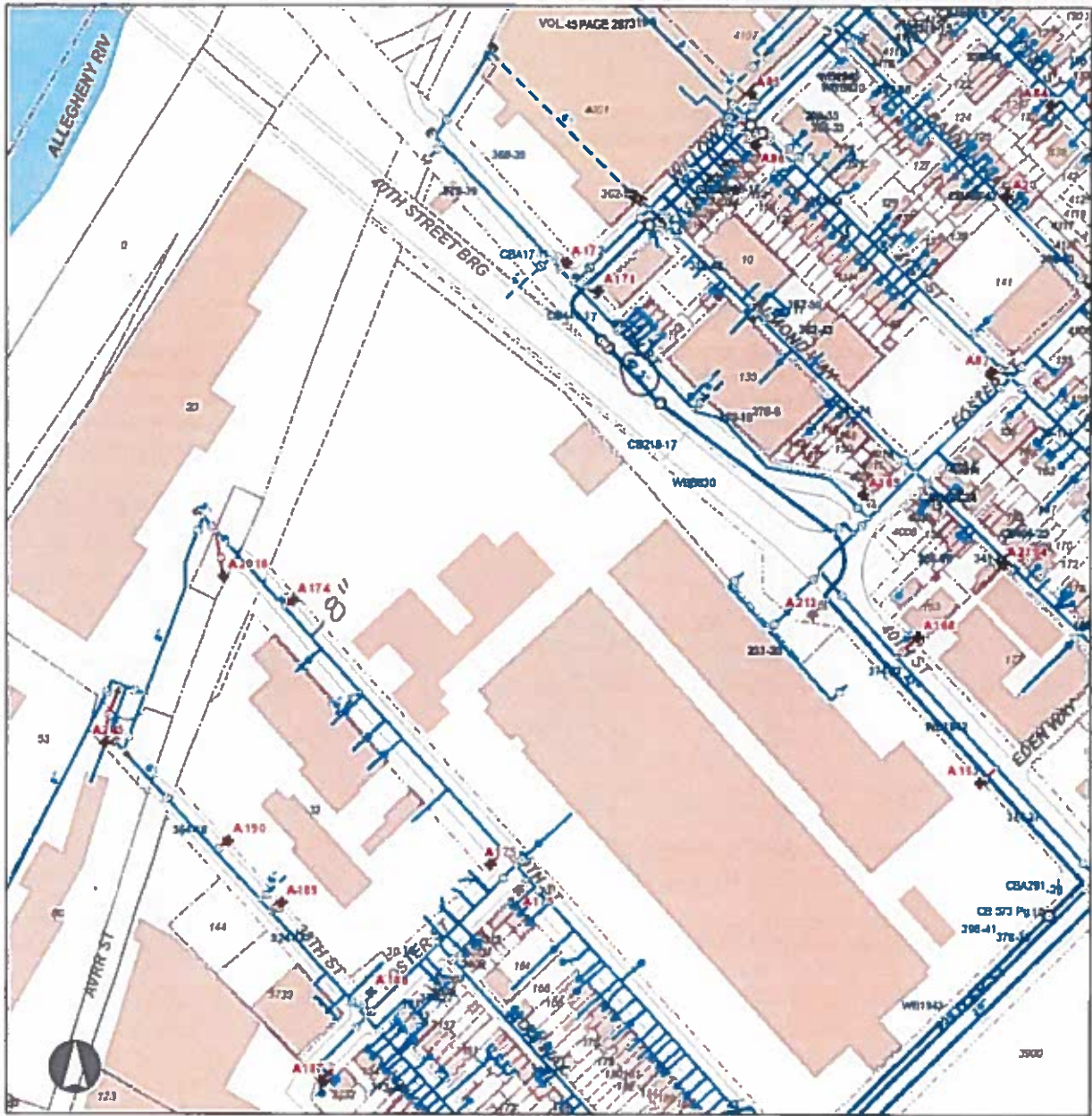
0 130 250 Feet



For the City of Pittsburgh the PWSA guarantees the accuracy of any of the information hereby made a volume, including but not limited to information as to the location and condition of underground utilities, and shall be deemed to be responsible for any inaccuracies of such information made on the basis of such information. PWSA and the City of Pittsburgh assume no responsibility for any outstanding or prospective claims by the owners or employees thereof such as third parties or representatives are expressly set forth in a duly executed written document, and such document expressly provides full responsibility therefore is assumed by the City of the PWSA.

Date: 2/15/2018

Arsenal terminal 39th St & Butler



Legend		
● Meter	○ Water Manhole	● Outfall
⊠ Pump	— Ring Main	⊕ End Cap
⊕ Hydrant	— Supply Main	■ Sewer Pump Station
⊕ Hydrant - Out of Service	— Transmission Main	— Combined Sewer
⊕ System Valve	— Distribution Main	— Sanitary Sewer
⊕ Dividing Pressure Valve	— Hydrant Branch	— Storm Sewer
⊕ Cap	— Private Main	— Regulated Combined Sewer
⊕ Tee or Cross	— Water Service Line	— Overflow Sewer
⊕ Reducer	● Manhole	— Interceptor
⊕ Coupling	● Junction	— Sewer Force Main
⊕ Wash Out	○ Inlet	— Private Sewer
	○ Private Inlet	— Undefined Sewer

0 130 260 Feet



We the City of Pittsburgh and the PWSA put on the accuracy of any of the information hereby made available, including but not limited to information concerning the location and depth of underground structures, and each of our respective liability for any errors, omissions or misstatements made on the basis of such information. CCP and PWSA assume no responsibility for any understanding or interpretation made by the recipient or employee unless such understanding or interpretation are expressly set forth in a duly authorized written document, and such liability expressly provided that responsibility therefore is assumed by the City of the PWSA.

Date 2/15/2018

SECTION F
PROJECT NARRATIVE

Section F – Project Narrative

201 ARSENAL PHASE II RESIDENTIAL LAND DEVELOPMENT

Proposed Method of Sewage Service:

Butler & 40th, LLC is proposing to construct a new multi-unit residential building, with associated integral structured parking and amenity space. This is the second phase of a multi-phase project. The project has an approved Planning Module (submitted by CEC, Inc. in 2016 on behalf of Butler & 40th, LLC), but due to modified lot lines and parcel uses, PVE, LLC is submitting a new Planning Module for Phase II of the project (parcels 2-5). In accordance with both PADEP and PWSA standards, the 2016 approved EDUs stay with Parcel 1. This Parcel was fully constructed during the completed Phase 1 of the project. Flows are calculated using PA Code, Title 25, 73.17 (see Tables 1 & 2 below).

201 Arsenal is located in the 6th Ward of the City of Pittsburgh, Allegheny County, Pennsylvania (see Figure 1), in Lawrenceville. The project is located along Butler Street between 40th and 39th Street, extending the entire block to the railroad tracks adjacent to the Allegheny River. The total property boundary is approximately 13 acres of which approximately 5 acres will be disturbed during Phase II. The subject area includes 6 parcels of land, of which parcels 1, 5 and 6 will remain unchanged during this phase. Construction on Phase II is scheduled to begin in Fall 2019.

The proposed flows from the development will be serviced by a gravity operated collection system which will be owned and operated by the Pittsburgh Water and Sewer Authority to an existing ALCOSAN interceptor. From this point sewage is then conveyed to the ALCOSAN sewage treatment plant.

Justification of Anticipated Flows:

Table 1 – Parcels to Remain Unchanged

Parcel 1 (Completed Phase I)				
Use	No. Units	PWSA Flow Category	GPD/Unit	Total GPD
Micro	31	Apartment (Efficiency)	150	4,650
Studio	39	Apartment (Efficiency)	150	5,850
1 Bedroom	100	Apartment (1 Bedroom)	150	15,000
2 Bedroom	63	Apartment (2 Bedroom)	300	18,900
3 Bedroom	10	Apartment (>2 Bedroom)	400	4,000
Amenity/Lobby/Retail	12	Store (per Public Toilet)	400	4,800
Total				53,200
Parcel 5 (Existing Legget Building)				
Use	No. Units	PWSA Flow Category	GPD/Unit	Total GPD
Warehouse	46	Warehouse (per Employee)	35	1,610
Total				1,610
Parcel 6 (Existing Rite Aid)				
Use	No. Units	PWSA Flow Category	GPD/Unit	Total GPD
Retail	3	Stores (per Public Toilet)	400	1,200
Total				1,200

Table 2 – Parcels Proposed for Construction During Phase II

Parcel 2 (Proposed Apartment Building & Existing Officers Quarter)				
Use	No. Units	PWSA Flow Category	GPD/Unit	Total GPD
Micro	32	Apartment (Efficiency)	150	4,800
Studio	76	Apartment (Efficiency)	150	11,400
1 Bedroom	183	Apartment (1 Bedroom)	150	27,450
2 Bedroom	48	Apartment (2 Bedroom)	300	14,400
3 Bedroom	5	Apartment (>2 Bedroom)	400	2,000
Amenity/Office/Retail	2	Public Toilet	400	800
Total				60,850
Parcel 3 (Proposed Future Development)				
Use	No. Units	PWSA Flow Category	GPD/Unit	Total GPD
Undeveloped	1	N/A	400	400
Total				400
Parcel 4 (Proposed Park)				
Use	No. Units	PWSA Flow Category	GPD/Unit	Total GPD
Dog Park	1	N/A	400	400
Total				400

Therefore, the total anticipated peak flow rate from the 201 Arsenal, Phase II is the sum of the total flow rates presented in Table 2 (parcels 2,3 and 4), or **61,650 GPD** in order to account for the subdivided parcels. This equates to an equivalent domestic unit (EDU) of **155**. This estimate was passed upon the PaDEP standard for average daily flows and for Equivalent Domestic Units of 1 EDU = 400 gallons per day for the proposed residential development. (Please note that for PWSA tap-in purposes, an EDU is equivalent to 300 gallons per day and as such the proposed construction is anticipated to create 206 EDUs.)

The existing flows on Parcels 1, 5 and 6 amount to 56,010 GPD, or 140 PADEP EDUs and 187 PWSA EDUs. These flows are accounted for in the original Planning Module and tap-in plans/fees for the Phase I parcels.

Assumptions include:

- Warehouse sewage flow is 35 gallons per day per employee (PA Code, Title 25, 73.17.b.)
- Residential apartment sewage flow ranges from 150-400 gallons/unit/day (PA Code, Title 25, 73.17.a.)
- Officers Quarters flow is 400 gallons/public restroom/day (PA Code, Title 25, 73.17.b.)
- All parcels must have at least 1 (one) EDU associated with it for lot line/subdivision purposes.
- All non-listed amenities and residential areas are for the sole use of residents and will not contribute any additional flows.

WETLAND PROTECTION

Section G.4 – Wetland Protection

201 ARSENAL PHASE II RESIDENTIAL LAND DEVELOPMENT

No wetlands are known to exist in the area to be developed for this project. The Allegheny River (classified as R2UBH – Riverine – by the National Wetlands Inventory) is approximately 475 feet away from the nearest perimeter point of the subject property.

PHMC DOCUMENTS

Section G.6 – Historic Preservation

201 ARSENAL PHASE II RESIDENTIAL LAND DEVELOPMENT

The Pennsylvania Historical and Museum Commission (PHMC) Bureau for Historic Preservation correspondence was completed in 2015 with the original masterplan, which remains unchanged in regards to historic preservation on the project site. See attached correspondence for more information.



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

June 3, 2015

Jim Snyder MA, RPA
Civil & Environmental Consultants
530 East Ohio Street, Suite G
Indianapolis, IN 46204

TO EXPEDITE REVIEW USE
BHP REFERENCE NUMBER

Re: File No. ER 2015-2076-003-A
DEP Chapter 105; NPDES; Act 537 Permits: 40th &
Butler, LLC, Arsenal Terminal Warehouse Property
Redevelopment, City of Pittsburgh, Allegheny
County

Dear Mr. Snyder:

Thank you for submitting information concerning the above referenced project. The Bureau for Historic Preservation (the State Historic Preservation Office) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 *et seq.* (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources:

Archaeology

Please plan to conduct a historical documents study to assess this property's potential for significant archaeological resources. This study would consist of a thorough review of all available historic through recent maps and other documentary sources which may provide information on past land use within the project area. If this research suggests that potentially significant archaeological resources may be present, then proceed to develop a Phase I archaeological testing plan to identify such resources. Include a comprehensive geomorphological assessment in the Phase I work plan. The purpose of the geomorphological investigation is to define the depths of disturbed and fill soils and to assess the potential for buried archaeological deposits. The report must include specific recommendations concerning the archaeological potential of the project area and how any areas of such potential will be investigated. Submit the completed report and work plan to our office for review and comment.

Historic Structures

Your request does not include sufficient information. We are unable to proceed with our review for historic structures until the information on the attached form is provided.

Page 2
June 3, 2015
Jim Snyder MA, RPA

If you need further information regarding archaeological resources, please contact Kira Heinrich at (717) 705-0700. If you need further information concerning historic structures, please contact Barbara Frederick at (717) 772-0921.

Sincerely,

A handwritten signature in black ink, appearing to read 'Douglas C. McLearn', with a long horizontal flourish extending to the right.

Douglas C. McLearn, Chief
Division of Archaeology &
Protection

Attachment
DCM/tmw

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION
BUREAU FOR HISTORIC PRESERVATION
<http://phmc.info/historicpreservation>
ADDITIONAL INFORMATION REQUEST SHEET
(Revised May 2014)

Please submit checked items for PHMC-BHP to proceed with project review.

A. FUNDING/PERMITTING/LICENSING/APPROVAL PROGRAM

1. Identify the Federal/State Agency and funding program or permit/license

B. PROJECT DESCRIPTION

1. Narrative description of the project and related actions resulting from the project
 2. Proposed boundary of the project's Area of Potential Effect (APE). Provide Justification of APE.
Remember to consider visual impacts
 3. Architectural plans of existing conditions (as-built or as-found)
 4. Preliminary architectural drawings or plans (floor plans, elevations, specifications)
 5. Work write-ups
 6. Site plans of existing conditions
 7. Site plans of proposed development
 8. For linear project: highlight any portion of the alignment that is located outside of current road/railroad or buried utility Right-of-Way (ROW)

C. PROJECT LOCATION

1. U.S.G.S 7.5 min. series quadrangle with the PROJECT LOCATION(S) AND LIMITS CLEARLY MARKED using a colored pen. Please include the name of the quadrangle. Map must include nearest place name.
 2. Street map (for properties in densely populated areas)
 3. Street map showing location and historic district boundaries (if appropriate)
 4. Street address of property
 5. Municipality in which project is located (not mailing address location)

D. PROJECT SIZE (supply as appropriate for project)

1. Acreage of project area
 2. Miles/feet of project area and Right-of-Way (ROW) width
 3. Extent and nature of ground disturbing activities (i.e. grading, trenching, foundation excavation)

E. PHOTOGRAPHS (No photocopies. Clear, color, high resolution digital images preferred)

1. Exterior of all building(s)/structures in project area
 2. Interior of building(s) in project area
 3. Interior of building(s) illustrating the proposed work areas/features
 4. Buildings, streetscape, setting of features in Area of Potential Effect (APE)
 5. Views of project area

F. CULTURAL RESOURCE IDENTIFICATION

1. Pennsylvania Historic Resource Survey Form(s) for all properties 50 years or older within the Area of Potential Effect (APE) (see our website at: <http://phmc.info/historicpreservation>, Select "Forms and Guidance")
 2. Historical background, context report, information for historic resources identified
Apply this context, available on our website: _____

G. EFFECTS

1. How will the project affect building(s) over 50 years old?
 2. National Register listed/eligible property(s) exist in project area. How will the project affect this historic property(s)?

Lawrenceville ^(OVER) Historic District



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

8 July 2015

James Snyder
Civil & Environmental Consultants
530 E. Ohio Street, Suite G
Indianapolis, IN 46204

Re: ER# 2015-2076-003-B
DEP: Documentation of Archaeological Monitoring, Arsenal
Terminal Warehouse Property, Pittsburgh, Allegheny County

Dear Mr. Snyder:

Thank you for submitting information concerning the above referenced project. The Bureau for Historic Preservation (the State Historic Preservation Office) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Thank you for submitting documentation of the archaeological monitoring you performed for the geotechnical soil borings and backhoe trenches. The information you have provided in this submission, specifically the historic mapping of the project area, in our opinion further solidifies the need for Phase IB archaeological testing throughout this project area. Please provide a work plan for the additional archaeological testing to our office for our review. Please include the information provided in the above-reference document as part of the full Phase I archaeological survey report.

If you need further information in this matter please consult Kira Heinrich at (717) 705-0700.

Sincerely,

Douglas C. McLearn, Chief
Division of Archaeology & Protection

DCM/kmh



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

5 October 2015

James Snyder
Civil & Environmental Consultants
530 E. Ohio Street, Suite G
Indianapolis, IN 46204

Re: ER# 2015-2076-003-C
DEP: Phase IB Work Plan, Arsenal Terminal Warehouse Property,
Pittsburgh, Allegheny County

Dear Mr. Snyder:

The Bureau for Historic Preservation (the State Historic Preservation Office) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 *et seq.* (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Thank you for providing this work plan for the Phase IB survey of the above-referenced project area. We concur with the methodology presented in this plan. Based on the information provided to date, however, we do not feel that the level of effort proposed will adequately document the presence or absence of archaeological remains within this project area. It is our opinion that the level of effort should be increased, potentially to as much as twice what is proposed here. Trenches should be placed based on the results of the historic research, remote sensing, and current condition of the project area. All un-tested areas should be justified, and all areas not tested because of the presence of substantial disturbance should document that disturbance as justification.

If you need further information in this matter please consult Kira Heinrich at (717) 705-0700.

Sincerely,

Douglas C. McLearn, Chief
Division of Archaeology & Protection

DCM/kmh

THREATENED SPECIES (PNDI)

1. PROJECT INFORMATION

Project Name: **Arsenal Terminal Redevelopment**

Date of Review: **4/20/2018 08:20:20 AM**

Project Category: **Development, Residential, Subdivision containing more than 2 lots and/or 2 single-family units**

Project Area: **17.66 acres**

County(s): **Allegheny**

Township/Municipality(s): **PITTSBURGH**

ZIP Code: **15201**

Quadrangle Name(s): **PITTSBURGH EAST**

Watersheds HUC 8: **Lower Allegheny**

Watersheds HUC 12: **Allegheny River-Ohio River**

Decimal Degrees: **40.469300, -79.964500**

Degrees Minutes Seconds: **40° 28' 9.4800" N, 79° 57' 52.1984" 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	Conservation Measure	No Further Review Required, See Agency Comments

Pennsylvania Natural Diversity Inventory (PNDI) records indicate that while threatened and endangered and/or special concern species and resources are in the project vicinity and that recommended Conservation Measures should be implemented in their entirety to avoid and minimize impacts to these species, no further coordination is required with the jurisdictional agencies. If a DEP permit is required for this project, DEP has the discretion to incorporate one or more Conservation Measures into its permit. This response does not reflect potential agency concerns regarding potential impacts to other ecological resources, such as wetlands.

Arsenal Terminal Redevelopment

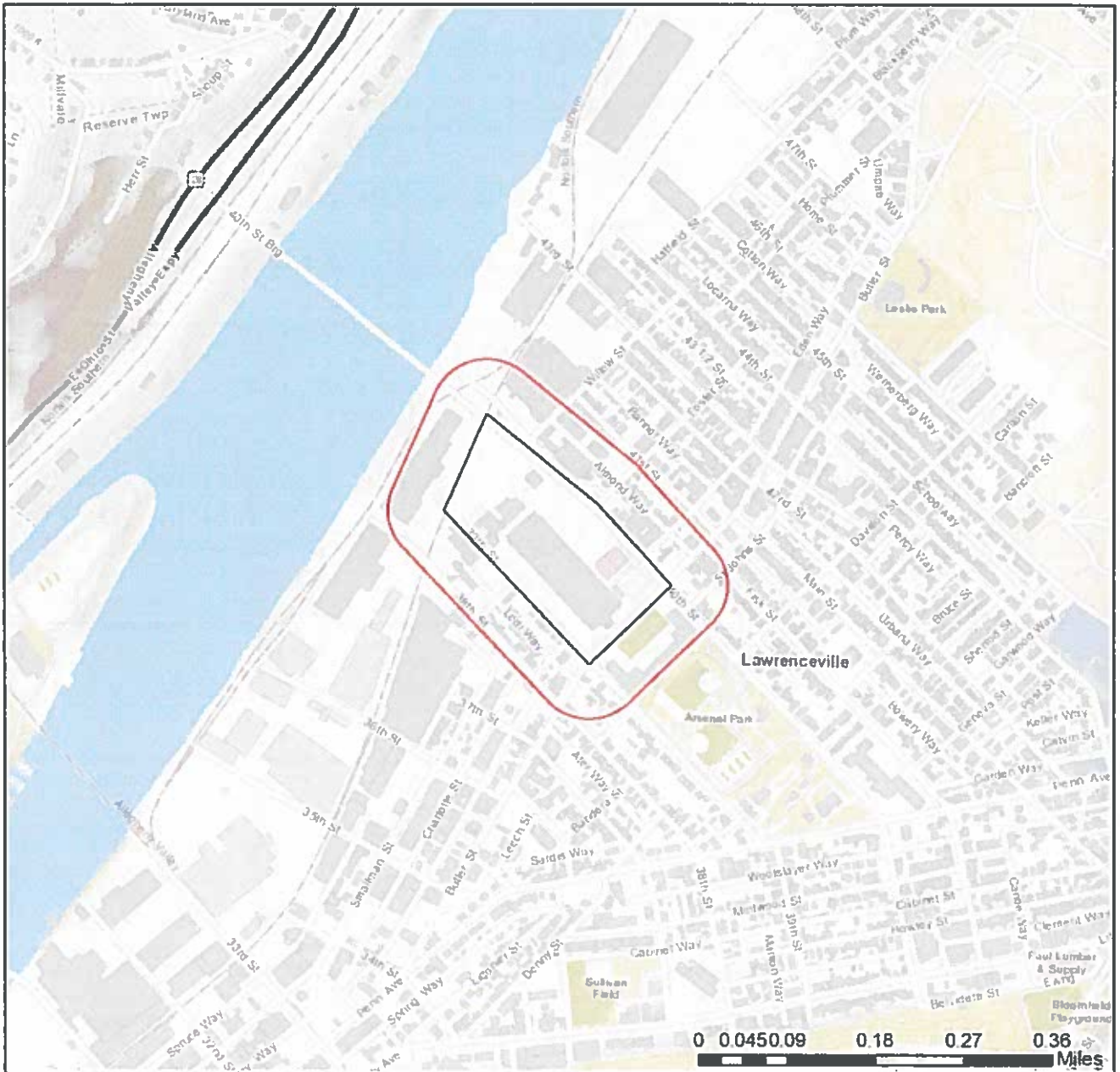


- Project Boundary
- Buffered Project Boundary



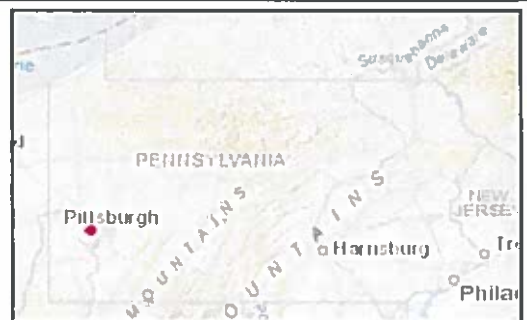
Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Arsenal Terminal Redevelopment



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
 Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS,



RESPONSE TO QUESTION(S) ASKED

Q1: The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).

Your answer is: No forests, woodlots or trees will be affected by the project.

Q2: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?

Your answer is: No

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:

Conservation Measure: Voluntary implementation of the following recommendations will contribute to the conservation and recovery of endangered and threatened species. -- In order to maintain or improve water quality for endangered aquatic species, retain (or restore, if not already present) a 100- to 300-foot wide buffer on each side of the waterway (river, stream, creek) or waterbody (lake). Avoid construction, earth disturbance, and chemical application in this buffer. The buffer should be vegetated with native plant species. When adequately vegetated, this upland buffer will act to stabilize the streambanks (preventing or minimizing erosion), and filter pollutants (e.g., sediment, fertilizers, pesticides, road salt, oil). Where streambanks have become badly eroded (e.g., due to removal of native riparian vegetation), streambank fencing and/or bioengineering restoration techniques are recommended (geotextile, root wads, vegetative stabilization), rather than riprapping the streambanks; removing gravel bars; or attempting to dredge, ditch, channelize, or widen the stream.

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. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.



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
Email: RA-HeritageReview@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd, Suite 101
State College, PA 16801
NO Faxes Please

PA Fish and Boat Commission

Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: MAUREEN GOLAN
Company/Business Name: PVE, LLC
Address: 2000 GEORGETOWNE DRIVE, SUITE 101
City, State, Zip: SEWICKLEY, PA, 15143
Phone: (724) 444-1100 Fax: (724) 444-1104
Email: mgolan@pve-llc.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.

Maureen S. Golan
applicant/project proponent signature

April 20, 2018
date

SECTION H
ALTERNATIVE ANALYSIS

Section H – Alternative Sewage Facilities Analysis

201 ARSENAL PHASE II RESIDENTIAL LAND DEVELOPMENT

Proposed Method of Sewage Disposal

The proposed 201 Arsenal Phase II development will be serviced by a gravity operated collection system which will be owned and operated by Pittsburgh Water and Sewer Authority (PWSA). The flows will be conveyed into an existing ALCOSAN interceptor and into the ALCOSAN sewage treatment plant.

Alternative Methods Considered

An alternative method of sewage disposal includes an individual septic system. Various factors such as failure rates of septic systems, desirability of developed lot, and size of the developed lot are all deterrents to installing a septic system.

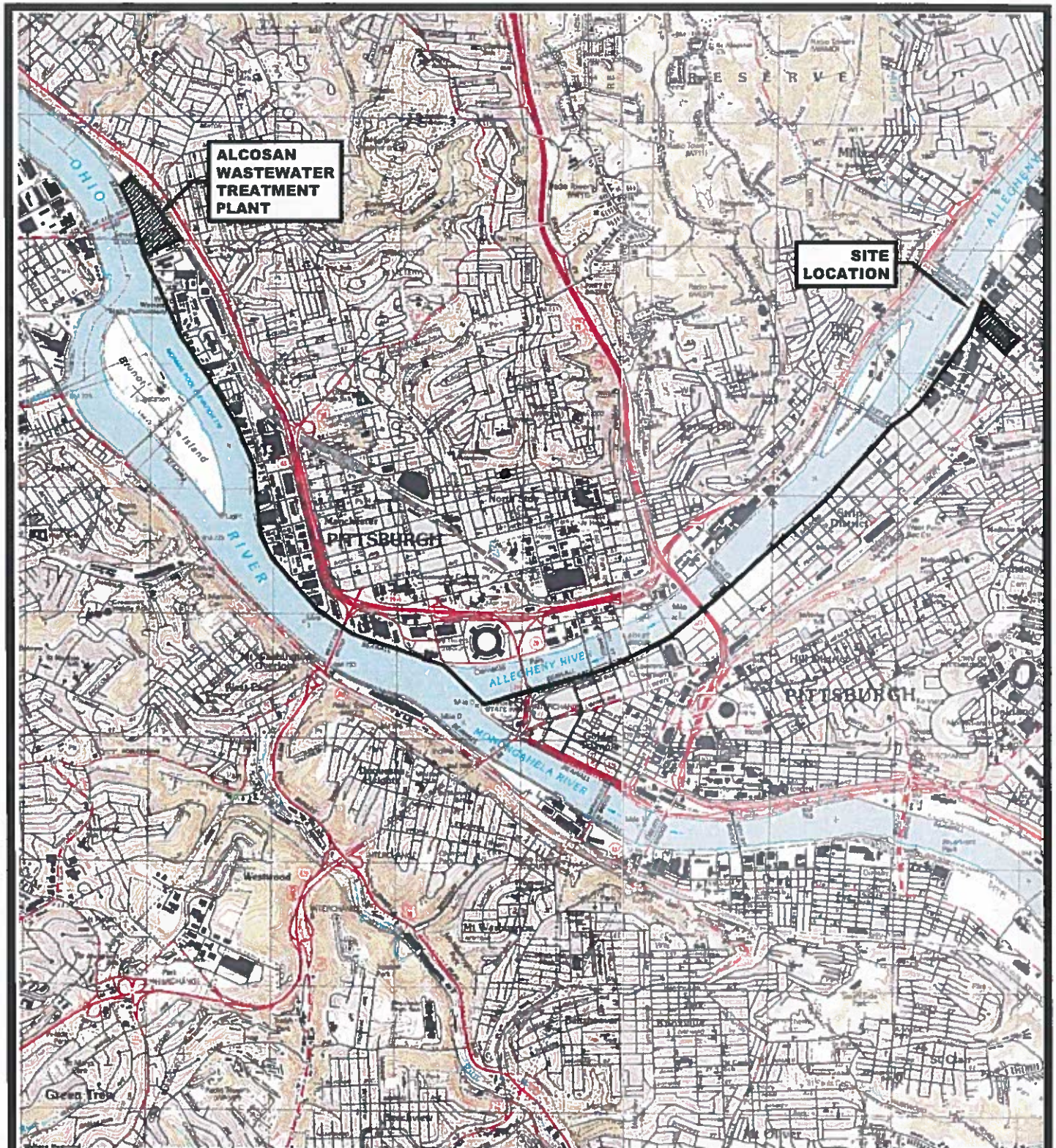
Alternative Alignments Considered

In keeping with the proposed method of sewage disposal, which is to construct a gravity sewer, different alternatives are available with respect to connection point to the existing system. The proposed alignment which will convey sewage from the proposed site to the existing ALCOSAN sewage system was determined to be the optimal layout based on distance, slope, and elevation.

Conclusion

The proposed method of providing sewer service to the proposed 201 Arsenal Terminal Phase II development is considered ultimate. The fact that an existing sewage interceptor and sewage treatment plant is nearby greatly reduces the justification for thoroughly considering various alternative methods.

SEWAGE FLOW PATH MAP



SEWAGE FLOW PATH MAP

ARSENAL TERMINAL REDEVELOPMENT

CITY OF PITTSBURGH, ALLEGHENY COUNTY, PENNSYLVANIA



Waterfront Corporate Park III, Suite 101 P: 724-444-1100
 2000 Georgetowne Drive F: 724-444-1104
 Sewickley, PA 15143 www.pve-llc.com

Civil Engineering | Land Development | Planning
 Landscape Architecture | Structures | Environmental



DATE:	04.19.2018
SCALE:	1"=4000'
PROJECT NUMBER:	161530

FIGURE 3

SECTION J
FLOW TABLE FOOTNOTES AND
DRY WEATHER FLOW CALCULATION

Section J – Chapter 94 Consistency Determination Footnotes
201 Arsenal Phase II Terminal Redevelopment

- (1) Design/Permitted collection system average design capacity computed using static Manning's analysis based on existing 30" vitrified clay sewer, with slope of 1.7%, Manning's n-value of 0.014 and full flow depth, divided by a peaking factor of 3.5 for combination sewers = 9,195,400 gpd.
- (2) Design/Permitted collection system peak design capacity computed using static Manning's analysis based on existing 30" vitrified clay sewer, with slope of 1.7%, Manning's n-value of 0.014 and full flow depth = 32,184,000 gpd.
- (3) Present collection system average flow computed using static Manning's analysis based on existing 30" vitrified clay sewer, with slope of 1.7%, manning's n-value of 0.014 and measured flow depth of 2.4 inches = 419,000 gpd.
- (4) Present collection system peak flow computed using the present average flows computed in Footnote 3, multiplied by a peaking factor of 3.5 for combination sewers = 1,466,500 gpd.
- (5) Projected collection system average flow computed using the present average flows computed in Footnote 6, divided by 3.5 = 458,445 gpd.
- (6) Projected collection system peak flow computed using the present peak flows computed in Footnote 4 plus project flows of 61,650 gpd, see calculations in the project narrative section F of Component 3, multiplied by a 5% growth factor = 1,604,558 gpd.

Note: An overview of the Manning's equation calculations reference above are provided on the subsequent page.



Dry Weather Flow and Design Capacity Calculations
Arsenal Terminal Redevelopment

Given: 30" Vitrified Clay Combination Sewer at a slope of 1.7% (S). Manning's N Value = 0.014.

Dry Weather Flow Calculation:

Flow Depth measure in downstream manhole = 2.4 inches or 0.20 feet (h).

$$\text{Area of Flow in Pipe} = \frac{r^2(\theta - \sin \theta)}{2} \text{ where, } \theta = 2 \cos^{-1} \left(\frac{r-h}{r} \right)$$

$$\theta = 2 \cos^{-1} \left(\frac{1.25-0.20}{1.25} \right) \quad \theta = 1.147 \text{ radians}$$

$$\text{therefore, Area of Flow in Pipe} = \frac{1.25^2(1.147 - \sin(1.147))}{2} \quad A = 0.184 \text{ ft}^2$$

$$\text{Wetted Perimeter (P)} = r\theta, \text{ therefore } P = 1.25(1.147) = 1.434 \text{ ft}$$

$$\text{Hydraulic Radius (R}_h\text{)} = \frac{A}{P}, \text{ therefore } R_h = \frac{0.184}{1.434} = 0.128 \text{ ft}$$

$$Q = \frac{1.49}{n} (R_h)^{\frac{2}{3}} (S)^{\frac{1}{2}} A (0.64632), \text{ therefore}$$

$$Q = \frac{1.49}{0.014} (0.128)^{\frac{2}{3}} (0.017)^{\frac{1}{2}} (0.184) (0.64632), \quad Q = 0.419 \text{ mgd}$$

Design Capacity of Pipe Calculation:

Full Flow Capacity, Depth = 30 inches or 2.5 feet (h).

$$\text{Area of Flow in Pipe} = \frac{\pi D^2}{4}, \text{ therefore } A = \frac{\pi 2.5^2}{4} \quad A = 4.909 \text{ ft}^2$$

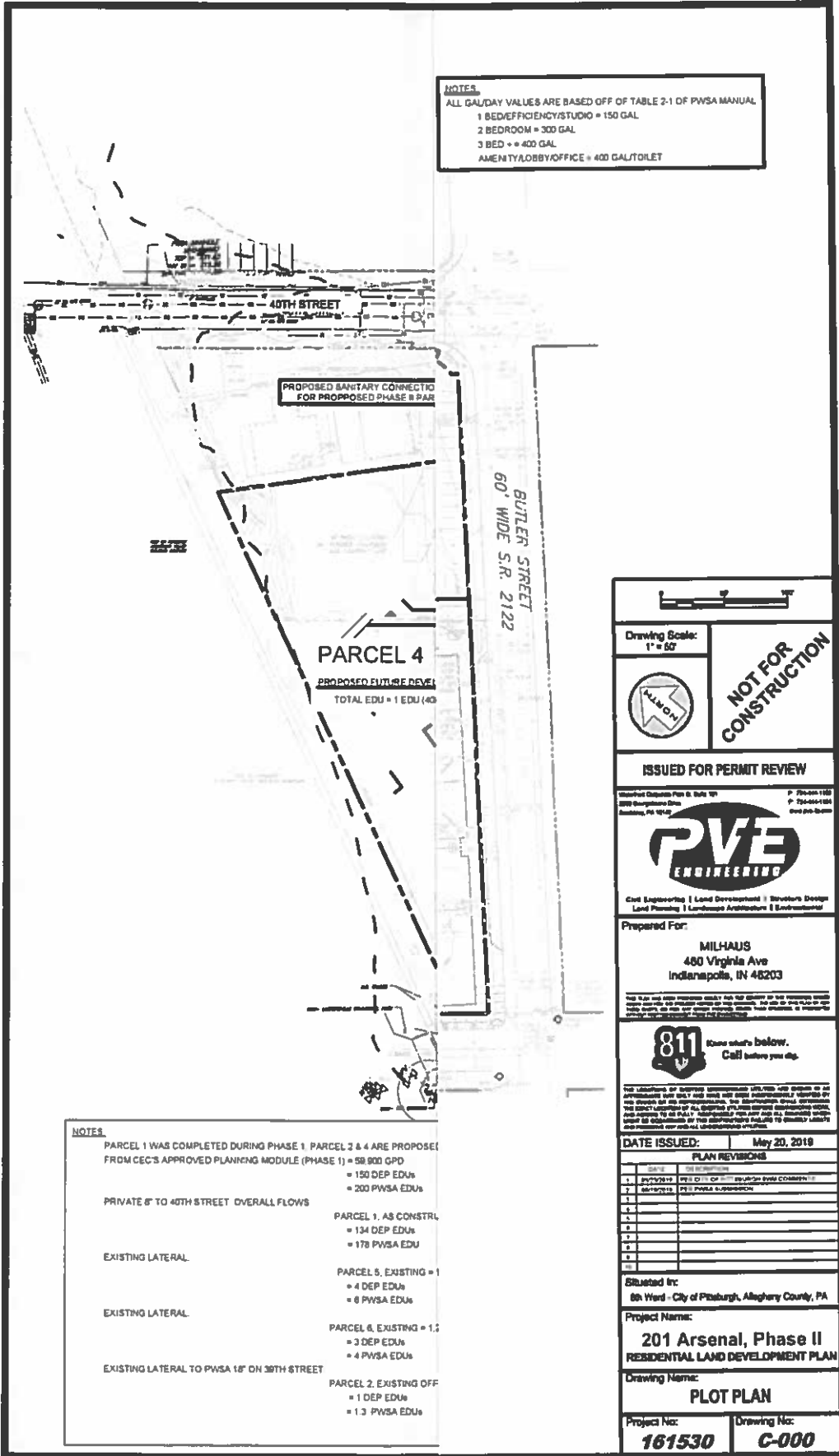
$$\text{Wetted Perimeter} = \pi D, \text{ therefore } P = \pi(2.5) = 7.854 \text{ ft}$$

$$\text{Hydraulic Radius (R}_h\text{)} = \frac{A}{P}, \text{ therefore } R_h = \frac{4.909}{7.854} = 0.625 \text{ ft}$$

$$Q = \frac{1.49}{n} (R_h)^{\frac{2}{3}} (S)^{\frac{1}{2}} A (0.64632), \text{ therefore}$$

$$Q = \frac{1.49}{0.014} (0.625)^{\frac{2}{3}} (0.017)^{\frac{1}{2}} (4.909) (0.64632), \quad Q = 32.184 \text{ mgd}$$

**PLOT PLANS FOR
SEWAGE FACILITY PLANNING
PURPOSES**



NOTES
 ALL GAL/DAY VALUES ARE BASED OFF OF TABLE 2-1 OF PWSA MANUAL
 1 BED/EFFICIENCY/STUDIO = 150 GAL
 2 BEDROOM = 300 GAL
 3 BED = 400 GAL
 AMENITY/LOBBY/OFFICE = 400 GAL/TOILET

PROPOSED SANITARY CONNECTIO
 FOR PROPOSED PHASE II PAR

BUTLER STREET
 60' WIDE S.R. 2122

PARCEL 4
 PROPOSED FUTURE DEVELOPMENT
 TOTAL EDU = 1 EDU (40)

Drawing Scale: 1" = 50'

NOT FOR CONSTRUCTION

ISSUED FOR PERMIT REVIEW

Prepared For:
 MILHAUS
 480 Virginia Ave
 Indianapolis, IN 46203

811 Know what's below. Call before you dig.

DATE ISSUED: May 20, 2019

NO.	DATE	DESCRIPTION
1	5/20/2019	ISSUED FOR PERMIT REVIEW
2	5/20/2019	ISSUED FOR PERMIT REVIEW
3		
4		
5		
6		

Submitted to:
 8th Ward - City of Pittsburgh, Allegheny County, PA

Project Name:
 201 Arsenal, Phase II
 RESIDENTIAL LAND DEVELOPMENT PLAN

Drawing Name:
 PLOT PLAN

Project No: 161530 Drawing No: C-000

NOTES
 PARCEL 1 WAS COMPLETED DURING PHASE 1. PARCEL 2 & 4 ARE PROPOSED FROM CEC'S APPROVED PLANNING MODULE (PHASE 1) = 58,900 GPD
 = 150 DEP EDUs
 = 200 PWSA EDUs

PRIVATE 8" TO 40TH STREET OVERALL FLOWS

PARCEL 1, AS CONSTRU
 = 134 DEP EDUs
 = 178 PWSA EDU

EXISTING LATERAL

PARCEL 5, EXISTING = 1
 = 4 DEP EDUs
 = 6 PWSA EDUs

EXISTING LATERAL

PARCEL 6, EXISTING = 1.2
 = 3 DEP EDUs
 = 4 PWSA EDUs

EXISTING LATERAL TO PWSA 18" DN 38TH STREET

PARCEL 2, EXISTING OFF
 = 1 DEP EDUs
 = 1.3 PWSA EDUs

PUBLIC NOTIFICATION REQUIREMENT

Section P – Public Notification Requirement

201 ARSENAL PHASE II TERMINAL REDEVELOPMENT

PUBLIC NOTICE

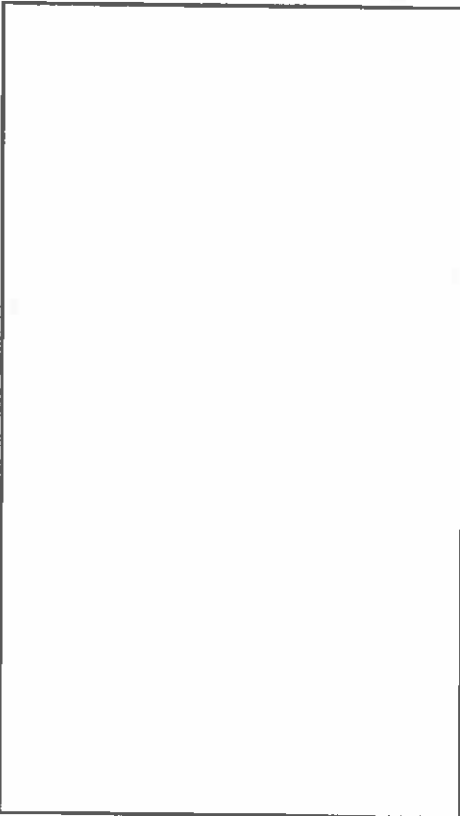
Public notice is hereby given that Butler & 40th LLC will be submitting a Sewage Facilities Planning Module with revised lot lines/plot plans to the City of Pittsburgh and the Pennsylvania Department of Environmental Protection. The following information is provided for the proposed project in accordance with PADEP Component Three: 1.Name of Project: 201 Arsenal, Phase II 2.Type of development: multi-unit residential with private amenity and integral parking 3.Location: Butler Street (SR 2122), between 39th and 40th Streets, 6th Ward of the City of Pittsburgh, Allegheny County. 4. Acreage and EDU: 6.07 acres, 162 EDUs; the future phase on “parcel 3” is 1.5 acres and 1 EDU. 5.Sewage Disposal: Utilize the newly constructed 8” private sanitary sewer and tie into existing PWSA System, flow will be further conveyed to ALCOSAN for treatment 6.Publication requirement: the project proposes change to flow by more than 50,000 gallons per day 7&8.The public is invited to review the Sewage Facilities Planning Module and provide written comments during the 30-day comment and review period from April 15, 2019 – May 27, 2019. 9. a copy of the Sewage Facilities Planning Module is available for public review from 8:30 AM-4:30PM at the City of Pittsburgh Office of City Clerk, 414 Grant Street, Suite 510 City County Building, Pittsburgh, PA 15219 (ph 412-255-2138). Interested parties should submit written comments at the location for consideration.

Proof of Publication of Notice in Pittsburgh Post-Gazette

Under Act No 587, Approved May 16, 1929, PL 1784, as last amended by Act No 409 of September 29, 1951

Commonwealth of Pennsylvania, County of Allegheny, ss K. Flaherty, being duly sworn, deposes and says that the Pittsburgh Post-Gazette, a newspaper of general circulation published in the City of Pittsburgh, County and Commonwealth aforesaid, was established in 1993 by the merging of the Pittsburgh Post-Gazette and Sun-Telegraph and The Pittsburgh Press and the Pittsburgh Post-Gazette and Sun-Telegraph was established in 1960 and the Pittsburgh Post-Gazette was established in 1927 by the merging of the Pittsburgh Gazette established in 1786 and the Pittsburgh Post, established in 1842, since which date the said Pittsburgh Post-Gazette has been regularly issued in said County and that a copy of said printed notice or publication is attached hereto exact as the same was printed and published in the Pittsburgh Post-Gazette edition and issues of the said Pittsburgh Post-Gazette a newspaper of general circulation on the following dates, viz:
15 of April, 2019

Affidavit further deposes the he/she is an agent for the PG Publishing Company, a corporation and publisher of the Pittsburgh Post-Gazette, that, as such agent, affiant is duly authorized to verify the foregoing statement under oath, that affiant is not interested in the subject matter of the aforesaid notice or publication, and that all allegations in the foregoing statement as to time, place and character of publication are true.



[Handwritten Signature]

PG Publishing Company

Sworn to and subscribed before me this day of:
May 22, 2019

[Handwritten Signature]

Elizabeth R. Chmura

Commonwealth of Pennsylvania - Notary Seal
Elizabeth R. Chmura, Notary Public
Allegheny County
My commission expires February 8, 2022
Commission number 1326781
Member, Pennsylvania Association of Notaries

STATEMENT OF ADVERTISING COSTS

PVE Sheffler LLC
2000 Georgetown Dr Ste 101
Waterfront Corporate Park III
SEWICKLEY, PA 15143-8992

To PG Publishing Company

Total \$ 344.50

Client:

Publisher's Receipt for Advertising Costs

PG PUBLISHING COMPANY, publisher of the Pittsburgh Post-Gazette, a newspaper of general circulation, hereby acknowledges receipt of the aforesaid advertising and publication costs and certifies that the same have been fully paid.

Office
2201 Sweeney Drive
Clinton, PA 15026
Phone 412-263-1338

PG Publishing Company, a Corporation, Publisher of the Pittsburgh Post-Gazette, a Newspaper of General Circulation

By _____

COPY OF NOTICE OR PUBLICATION

Public notice is hereby given that Butler & 40th LLC will be submitting a Sewage Facilities Planning Module with revised lot lines/plot plans to the City of Pittsburgh and the Pennsylvania Department of Environmental Protection. The following information is provided for the proposed project in accordance with PADEP Component Three:
1.Name of Project: 201 Arsenal, Phase II. 2.Type of development: multi unit residential with private amenity and integral parking. 3.Location: Butler Street (SR 2122), between 39th and 40th Streets, 6th Ward of the City of Pittsburgh, Allegheny County. 4.Acreage and EDUs: the future phase on "parcel 3" is 15 acres and 1 EDU. 5.Sewage Disposal: Utilize the newly constructed 8" private sanitary sewer and tie into existing PWSA System, flow will be further conveyed to ALCOSAN for treatment. 6.Publication requirement: the project proposes change to flow by more than 50,000 gallons per day. 7&8.The public is invited to review the Sewage Facilities Planning Module and provide written comments during the 30-day comment and review period from April 15, 2019 - May 27, 2019. 9. A copy of the Sewage Facilities Planning Module is available for public review from 8:30 AM-1:30PM at the City of Pittsburgh Office of City Clerk, 414 Grant Street, Suite 510 City County Building, Pittsburgh, PA 15219 (ph 412 255-2138). interested parties should submit written comments at the location for consideration.

I hereby certify that the foregoing is the original Proof of Publication and receipt for the Advertising costs in the subject matter of said notice.

Attorney For

Invoice

Pittsburgh Post-Gazette

Invoice # : 22206
 Invoice Date : 4/30/2019
 Terms : 30 days
 Client Account # : 5279
 Invoice Inquiries : Tessie Foley
 412-263-2602
 tfoley@post-gazette.com

PVE Sheffler LLC
 2000 Georgetown Dr Ste 101
 Waterfront Corporate Park III
 SEWICKLEY, PA, 15143-8992

Order number	Order name	Order PO #					
37324	201 Arsenal SFPM Public Notice						
Ad type	Ad number	Ad PO #	Ad name	Description	Gross	Discount	Net Amount
Print	300880			Issue Date: 4/15/2019; Edition: PPG; Section: All Other Notices; Size: 53.00	\$ 344.50		\$ 344.50
Total Amount :							\$ 344.50

PAYMENT and ADVERTISING TERMS & CONDITIONS :

Please provide payment details or detach and return the Remittance Advice with your payment

Remittance Advice

Invoice Date	Invoice No.	Account No.	Amount Due
5/6/2019	22206	5279	\$ 344.50

Bill to :
 PVE Sheffler LLC
 2000 Georgetown Dr Ste 101
 Waterfront Corporate Park III
 SEWICKLEY, PA, 15143-8992

Make Payments Payable to :
 PITTSBURGH POST-GAZETTE
 ATTN: FINANCE DEPARTMENT
 2201 SWEENEY DRIVE
 CLINTON, PA 15026

COMPONENT 4A
MUNICIPAL PLANNING AGENCY REVIEW



DEP Code #

**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 local municipal planning agency for their comments.

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

Project Name
201 Arsenal Phase II

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

1. Date plan received by municipal planning agency 8-27-19
2. Date review completed by agency 8-27-19

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 checked="" type="checkbox"/>	<input 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 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 _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. Is there a municipal zoning ordinance?
<input checked="" type="checkbox"/>	<input 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 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 municipal subdivision and land development ordinance?

SECTION C. AGENCY REVIEW (continued)

Yes

No

13. Is this proposal consistent with the ordinance?

If no, describe the inconsistencies _____

14. Is this plan consistent with the municipal 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 _____

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?

If no, describe the inconsistencies _____

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

Name: Martina Battistone

Title: SP - Environmental Planner

Signature: MBattistone

Date: 8-27-19

Name of Municipal Planning Agency: Dept. City Planning, Pittsburgh

Address: 200 Ross St. 4th Floor Pittsburgh, PA 15219

Telephone Number: (412) 255-2516

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 needed, 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 applicant.

COMPONENT 4C
COUNTY HEALTH DEPARTMENT REVIEW



SEWAGE FACILITIES PLANNING MODULE
COMPONENT 4C - COUNTY OR JOINT HEALTH DEPARTMENT 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 county or joint county health department for their comments.

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

Project Name

201 Arsenal Phase II Residential Land Development

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

1. Date plan received by county or joint-county health department. July 30, 2019

Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency August 1, 2019

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

Yes No

1. Is the proposed plan consistent with the municipality's Official Sewage Facilities Plan?

If no, what are the inconsistencies? _____

2. Are there any waste water disposal needs in the area adjacent to the new land development that should be considered by the municipality?

If yes, describe _____

3. Is there any known groundwater degradation in the area of the proposed subdivision?

If yes, describe _____

4. The county or joint county health department recommendation concerning this proposed plan is as follows: ACHD recommends approval. See attached letter.

5. Name, title and signature of person completing this section:

Name: Freddie Fields

Title: Environmental Health Engineer III

Signature:

Date: August 1, 2019

Name of County Health Department: ACHD

Address: 3901 Penn Avenue, Building #5, Pittsburgh PA 15224-1318

Telephone Number: 412-578-8046

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.