COMPONENT 3 SEWAGE FACILITIES PLANNING MODULE PACKAGE

2330 PENN AVENUE CONDOMINIUMS
CITY OF PITTSBURGH
ALLEGHENY COUNTY

Prepared by

H.F. LENZ COMPANY
1407 Scalp Avenue
Johnstown, Pennsylvania 15904

Revised: August 27, 2019
July 11, 2019
HFL File No. 2017-0323.01

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pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

TRANSMITTAL LETTER FOR SEWAGE FACILITIES PLANNING MODULE

DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) USE ONLY				
DEP CODE #	CLIENT ID #	SITE ID #	APS ID #	AUTH. ID #

TO: Approving Agency (DEP or delegated local agency)
PADEP - Southwest Regional Office
400 Waterfront Drive, Pittsburgh, PA 15222-4745

Date _____

Dear Sir/Madam:

Attached please find a completed sewage facilities planning module prepared by Bryan J. Clement, P.E. *(Name)*

Project Engineer, H.F. Lenz Company *(Title)* for 2330 Penn Avenue Condominium Development *(Name)*

a subdivision, commercial ,or industrial facility located in the City of Pittsburgh

Allegheny *(City, Borough, Township)* County.

Check one

☐ (i) The planning module, as prepared and submitted by the applicant, is approved by the municipality as a proposed ☐ revision ☐ supplement for new land development to its Official Sewage Facilities Plan (Official Plan), and is ☐ adopted for submission to DEP ☐ transmitted to the delegated LA for approval in accordance with the requirements of 25 *Pa. Code* Chapter 71 and the *Pennsylvania Sewage Facilities Act* (35 P.S. §750),

OR

☐ (ii) The planning module will not be approved by the municipality as a proposed revision or supplement for new land development to its Official Plan because the project described therein is unacceptable for the reason(s) checked below:

Check Boxes

☐ Additional studies are being performed by or on behalf of this municipality which may have an effect on the planning module as prepared and submitted by the applicant. Attached hereto is the scope of services to be performed and the time schedule for completion of said studies.

☐ The planning module as submitted by the applicant fails to meet limitations imposed by other laws or ordinances, officially adopted comprehensive plans and/or environmental plans (e.g., zoning, land use, 25 *Pa. Code* Chapter 71). Specific reference or applicable segments of such laws or plans are attached hereto.

☐ Other (attach additional sheet giving specifics).

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

☐ Resolution of Adoption
☐ Module Completeness Checklist
☐ 2 Individual and Community Onlot Disposal of Sewage
☐ 3 Sewage Collection/Treatment Facilities
☐ 3s Small Flow Treatment Facilities
☐ 4A Municipal Planning Agency Review
☐ 4B County Planning Agency Review
☐ 4C County or Joint Health Department Review

Municipal Secretary (print) *Signature* *Date*

3850-FM-BCW0356 Rev. 5/2016

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code No.

RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE (SUPERVISORS) (COMMISSIONERS) (COUNCILMEN) of the City of Pittsburgh
(TOWNSHIP) (BOROUGH) (CITY), Allegheny COUNTY, PENNSYLVANIA (hereinafter "the municipality").

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

WHEREAS Springway LLC (land developer) has proposed the development of a parcel of land identified as

2330 Penn Avenue Condominiums (name of subdivision), and described in the attached Sewage Facilities Planning Module, and

proposes that such subdivision be served by: (check all that apply), ☒ sewer tap-ins, ☐ sewer extension, ☐ new treatment facility, ☐ individual onlot systems, ☐ community onlot systems, ☐ spray irrigation, ☐ retaining tanks, ☐ other, (please specify). _____

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

NOW, THEREFORE, BE IT RESOLVED that the (Supervisors) (Commissioners) (Councilmen) of the (Township) (Borough) (City) of Pittsburgh hereby adopt and submit to DEP for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

I _____ (Signature), Secretary, _____

Township Board of Supervisors (Borough Council) (City Councilmen), hereby certify that the foregoing is a true copy of the Township (Borough) (City) Resolution # _____, adopted, _____, 20_____.

Municipal Address:

_____

_____

_____

Telephone _____

Seal of

Governing Body

3800-FM-BPNPSM0353 Rev. 2/2015
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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 2330 Penn Avenue Condominium Development

2. Brief Project Description The owner/developer of an existing parcel located at 2330 Penn Avenue is proposing the conversion of an existing structure from the current use to a residential development. A sewage facilities planning module was submitted and approved by the City of Pittsburgh for 18 condominium units, however an additional 3 units have been added since the resolution was adopted. This sewage facilities planning module only applies to the 3 additional units.

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

Municipality Name	County	City	Boro	Twp
City of Pittsburgh	Allegheny	☒	☐	☐

Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Battistone	Martina			Senior Planner

Additional Individual Last Name	First Name	MI	Suffix	Title

Municipality Mailing Address Line 1	Mailing Address Line 2
200 Ross Street, 4th Floor	

Address Last Line -- City	State	ZIP+4
Pittsburgh	PA	15219

Area Code + Phone + Ext.	FAX (optional)	Email (optional)
412-255-2516		martinabattistone@pittsburghpa.gov

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

2330 Penn Avenue Condominium Development

Site Location Line 1	Site Location Line 2
2330 Penn Avenue	

Site Location Last Line -- City	State	ZIP+4	Latitude	Longitude
Pittsburgh	PA	15212	40.45305	-79.98055

Detailed Written Directions to Site Site is located at the intersection of Penn Avenue and 24th Strret

Description of Site Building

Site Contact (Developer/Owner)

Last Name	First Name	MI	Suffix	Phone	Ext.
Clement	Bryan			814-322-8735	

Site Contact Title	Site Contact Firm (if none, leave blank)
Project Engineer	H.F. Lenz Company

FAX

Email

Mailing Address Line 1	Mailing Address Line 2
1407 Scalp Avenue	

Mailing Address Last Line -- City	State	ZIP+4
Johnstown	PA	15904

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

Last Name	First Name	MI	Suffix
Clement	Bryan	J	

Title	Consulting Firm Name
Project Engineer	H.F. Lenz Company

Mailing Address Line 1	Mailing Address Line 2
1407 Scalp Avenue	

Address Last Line – City	State	ZIP+4	Country
Johnstown	PA	15904	

Email	Area Code + Phone	Ext.	Area Code + FAX
bclement@hflenz.com	814-269-9300	310	

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 3

Connections 1

Name of:

existing collection or conveyance system Spring Way - 15" VCP

owner PWSA

existing interceptor Allegheny River Interceptor

owner 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

NPDES Permit Number for existing facility PA 0025984

Clean Streams Law Permit Number _____

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

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

As an authorized representative of the permittee, I confirm that the ALCOSAN (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 Michael D. Lichte

Agent Signature _____ Date 9/30/2019

(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 permitee. The permitee 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 1200 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

   When providing "treatment facilties" 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	921652	3225781	60108	210378	65634	229717
Conveyance	—	6.7 MGD	1.50 MGD	1.78 mgd	1.51 MGD	1.80 mgd
Treatment	229.2	250 MGD	229.2	250 MGD	223.8	250 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 PWSA

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

   Agent Signature _____ Date 9/16/2019

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Mark D. Lichte

Agent Signature [signature]

Date 9/30/19

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

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 Mark D. Lichte

Agent Signature [signature]

Date 9/30/19

☐ 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 _____ 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 puchase 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.

H.F. Lenz Company - Bryan J. Clement, P.E.	Bryan J. Clement
Name (Print)	Signature
Project Engineer	8/26/19
Title	Date
1407 Scalp Avenue Johnstown, PA 15904	814-269-9300
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 $150 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.

   #3 Lots (or EDUs) X $50.00 = $ 150.00

   The fee is based upon:

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

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

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

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

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

   #_____ 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:

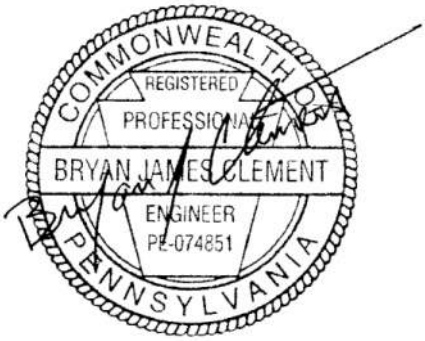
   - The number of lots created or number of EDUs whichever is higher.
   - For community sewage system projects one EDU is equal to a sewage flow of 400 gallons per day.
   - For non-single family residential projects, EDUs are calculated using projected population figures

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

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

SEWER PLANNING MODULE
DRY WEATHER FLOW CALCULATIONS

2330 PENN AVENUE
CONDOMINIUM DEVELOPMENT
CITY OF PITTSBURGH, ALLEGHENY COUNTY



Prepared by

H.F. LENZ COMPANY
1407 Scalp Avenue
Johnstown, Pennsylvania 15904

Revised: August 27,2019
July 11, 2019
HFL File No. 2017-0323.01

Robinson Pipe Cleaning Co.
2656 Idlewood Road
Pittsburgh, Pa 15205
Tel: 412-921-2100
Fax: 412-921-1500
E-mail:

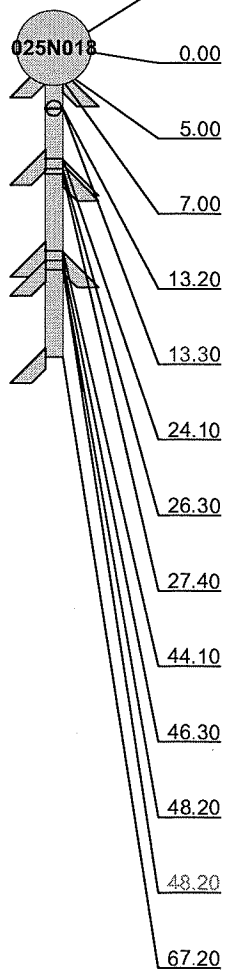
Inspection Report

Date	P/O. No.	Weather	Surveyor's Name	Pipe Segment Reference	Section No.
11/30/2017		**Dry**	**J PALOMBI**		**1**
Certificate No.	Survey Customer	System Owner	Date Cleaned	Pre-Cleaning	Sewer Category
U-914-06022154				**No Pre-Cleaning**	

Street123	**Spring Way**	Use of Sewer	**Combined**	Upstream MH	**025N019**
City	**Pittsburgh**	Drainage Area		Dowstream MH	**025N018**
Loc. details		Flow Control		Dir. of Survey	**Upstream**
Location Code		Length surveyed	**139.10 ft**	Section Length	**139.10 ft**

Purpose of Survey	**Maintenance Related**	Joint Length	
Year Laid		Dia./Height	**15 inch**
Year Rehabilitated		Material	**Vitrified Clay Pipe**
Tape / Media No.		Lining Method	

Add. Information :



1:500 Position	Observation	Photo	Grade
0.00	Downstream Manhole, Survey Begins	1_1A	
0.00	Water Level, 5 %of cross sectional area		
5.00	Tap Factory Made Capped, at 02 o'clock, -, within 8 inches of joint: YES, 10"	1_3A	
7.00	Tap Factory Made Capped, at 10 o'clock, -, within 8 inches of joint: YES, 10"	1_4A	
13.20	Tap Factory Made, at 12 o'clock, -, within 8 inches of joint: YES, 15"	1_5A	
13.30	Broken, from 02 to 05 o'clock, within 8 inches of joint: YES	1_6A	S 5
24.10	Tap Factory Made Capped, at 02 o'clock, -, within 8 inches of joint: YES, 10"	1_7A	
26.30	Tap Factory Made Capped, at 10 o'clock, -, within 8 inches of joint: YES, 10"	1_8A	
27.40	Tap Break-In, at 10 o'clock, -, within 8 inches of joint: YES, 8"	1_9A	
44.10	Tap Factory Made Capped, at 02 o'clock, -, within 8 inches of joint: YES, 10"	1_10A	
46.30	Tap Factory Made Capped, at 10 o'clock, -, within 8 inches of joint: YES, 10"	1_11A	
48.20	Tap Break-In, at 01 o'clock, -, within 8 inches of joint: YES, 8"	1_12A	
48.20	Crack Multiple, from 01 to 03 o'clock, within 8 inches of joint: YES	1_13A	S 3
67.20	Tap Factory Made Capped, at 02 o'clock, -, within 8 inches of joint: YES, 10"	1_14A	

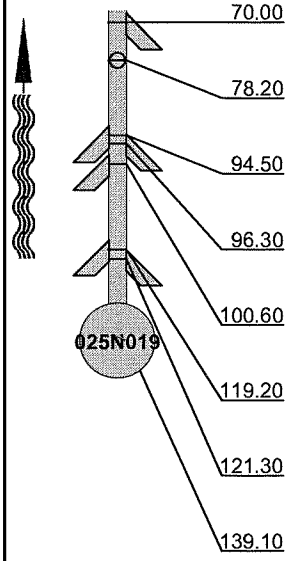
City : Pittsburgh

The Environmental Protection Specialists

Robinson Pipe Cleaning Co.
2656 Idlewood Road
City : Pittsburgh, Pa 15205
Tel: 412-921-2100
Fax: 412-921-1500
Email:

Inspection Report

Date :	Job number :	Weather : **Dry**	Operator : **J PALOMBI**	Counter : **1**	Section name :
Present :	Vehicle :	Camera :	Preset :	Cleaned : **No Pre-Cleaning**	Rate :



1:500 Position	Observation	Photo	Rate
70.00	Tap Factory Made Capped, at 10 o'clock, -, within 8 inches of joint: YES, 10"	1_15A	
78.20	Tap Break-In, at 12 o'clock, -, within 8 inches of joint: YES, 10"	1_16A	
94.50	Tap Factory Made Capped, at 02 o'clock, -, within 8 inches of joint: YES, 10"	1_17A	
96.30	Tap Factory Made, at 10 o'clock, -, within 8 inches of joint: YES, 10"	1_18A	
100.60	Tap Break-In Active, at 01 o'clock, -, within 8 inches of joint: YES, 10"	1_19A	
119.20	Tap Factory Made Capped, at 02 o'clock, -, within 8 inches of joint: YES, 10"	1_20A	
121.30	Tap Factory Made Active, at 10 o'clock, -, within 8 inches of joint: YES, 10"	1_21A	
139.10	Upstream Manhole, Survey Ends	1_22A	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	0000	8	0	8	4	0	4

The Environmental Protection Specialists

Robinson Pipe Cleaning Co.
2656 Idlewood Road
Pittsburgh, Pa 15205
Tel: 412-921-2100
Fax: 412-921-1500
E-mail:

Inspection Report

Date	P/O. No.	Weather	Surveyor's Name	Pipe Segment Reference	Section No.
11/30/2017			**J PALOMBI**		**2**
Certificate No.	Survey Customer	System Owner	Date Cleaned	Pre-Cleaning	Sewer Category
U-914-06022154				**No Pre-Cleaning**	

Street123	**Spring Way**	Use of Sewer		Upstream MH	**025N018**
City	**Pittsburgh**	Drainage Area		Dowstream MH	**TEE CONNECTION**
Loc. details		Flow Control		Dir. of Survey	**Downstream**
Location Code		Length surveyed	**20.20 ft**	Section Length	**20.20 ft**

Purpose of Survey	**Maintenance Related**	Joint Length	
Year Laid		Dia./Height	**15 inch**
Year Rehabilitated		Material	**Vitrified Clay Pipe**
Tape / Media No.		Lining Method	

Add. Information :

1:500	Position	Observation	Photo	Grade
025N018	0.00	Upstream Manhole, Survey Begins	2_1A	
	0.00	Water Level, 5 %of cross sectional area		
TEE CONNECTION	20.20	Tee Connection, at 09 o'clock, - , 15", 36" / Tee Connection	2_3A	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	**0000**	**0**	**0**	**0**	**0**	**0**	**0**

The Environmental Protection Specialists

Robinson Pipe Cleaning Co.
2656 Idlewood Road
Pittsburgh, Pa 15205
Tel: 412-921-2100
Fax: 412-921-1500
E-mail:

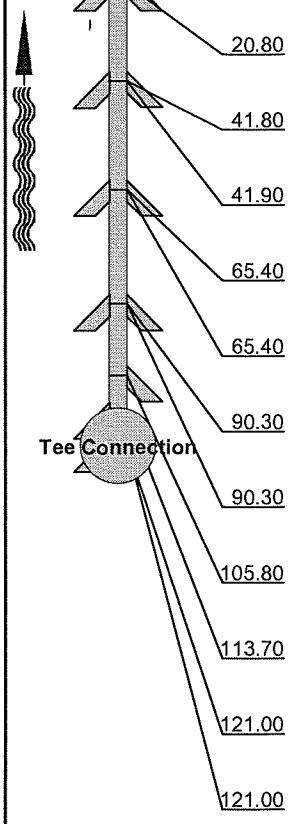
Inspection Report

Date	P/O. No.	Weather	Surveyor's Name	Pipe Segment Reference	Section No.
11/30/2017		**Dry**	**J PALOMBI**		**3**
Certificate No.	Survey Customer	System Owner	Date Cleaned	Pre-Cleaning	Sewer Category
U-914-06022154				**No Pre-Cleaning**	

Street123	**24 th Street**	Use of Sewer	**Combined**	Upstream MH	**Tee Connection**
City	**Pittsburgh**	Drainage Area		Dowstream MH	**025N008**
Loc. details		Flow Control		Dir. of Survey	**Upstream**
Location Code		Length surveyed	**121.00 ft**	Section Length	**121.00 ft**

Purpose of Survey	**Maintenance Related**	Joint Length	
Year Laid		Dia./Height	**36 inch**
Year Rehabilitated		Material	**Brick**
Tape / Media No.		Lining Method	

Add. Information :



1:500 Position	Observation	Photo	Grade
0.00	Downstream Manhole, Survey Begins	3_1A	
0.00	Water Level, 5 %of cross sectional area		
20.70	Tap Break-In Active, at 11 o'clock, -, within 8 inches of joint: YES, 10"	3_3A	
20.80	Tap Break-In, at 02 o'clock, -, within 8 inches of joint: YES, 10"	3_4A	
41.80	Tap Break-In, at 10 o'clock, -, within 8 inches of joint: YES, 10"	3_5A	
41.90	Tap Break-In, at 02 o'clock, -, within 8 inches of joint: YES, 10"	3_6A	
65.40	Tap Break-In, at 10 o'clock, -, within 8 inches of joint: YES, 10"	3_7A	
65.40	Tap Break-In, at 02 o'clock, -, within 8 inches of joint: YES, 10"	3_8A	
90.30	Tap Break-In, at 10 o'clock, -, within 8 inches of joint: YES, 10"	3_9A	
90.30	Tap Break-In, at 02 o'clock, -, within 8 inches of joint: YES, 10"	3_10A	
105.80	Tap Break-In, at 11 o'clock, -, within 8 inches of joint: YES, 10"	3_11A	
113.70	Tap Break-In, at 02 o'clock, -, within 8 inches of joint: YES, 10"	3_12A	
121.00	Tap Break-In, at 03 o'clock, -, within 8 inches of joint: YES, 15" / Tee Connection Spring Way	3_13A	
121.00	Tee Connection, at 03 o'clock, - , 36", 15" / Spring Way	3_14A	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	**0000**	**0**	**0**	**0**	**0**	**0**	**0**

Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. Friday, Aug 23 2019

2330 Penn Avenue - ~~Peak~~ AVERAGE Present Flow

Circular

Diameter (ft)	= 1.25
Invert Elev (ft)	= 100.00
Slope (%)	= 0.70
N-Value	= 0.015

AVERAGE ~~PEAK~~ PRESENT FLOW

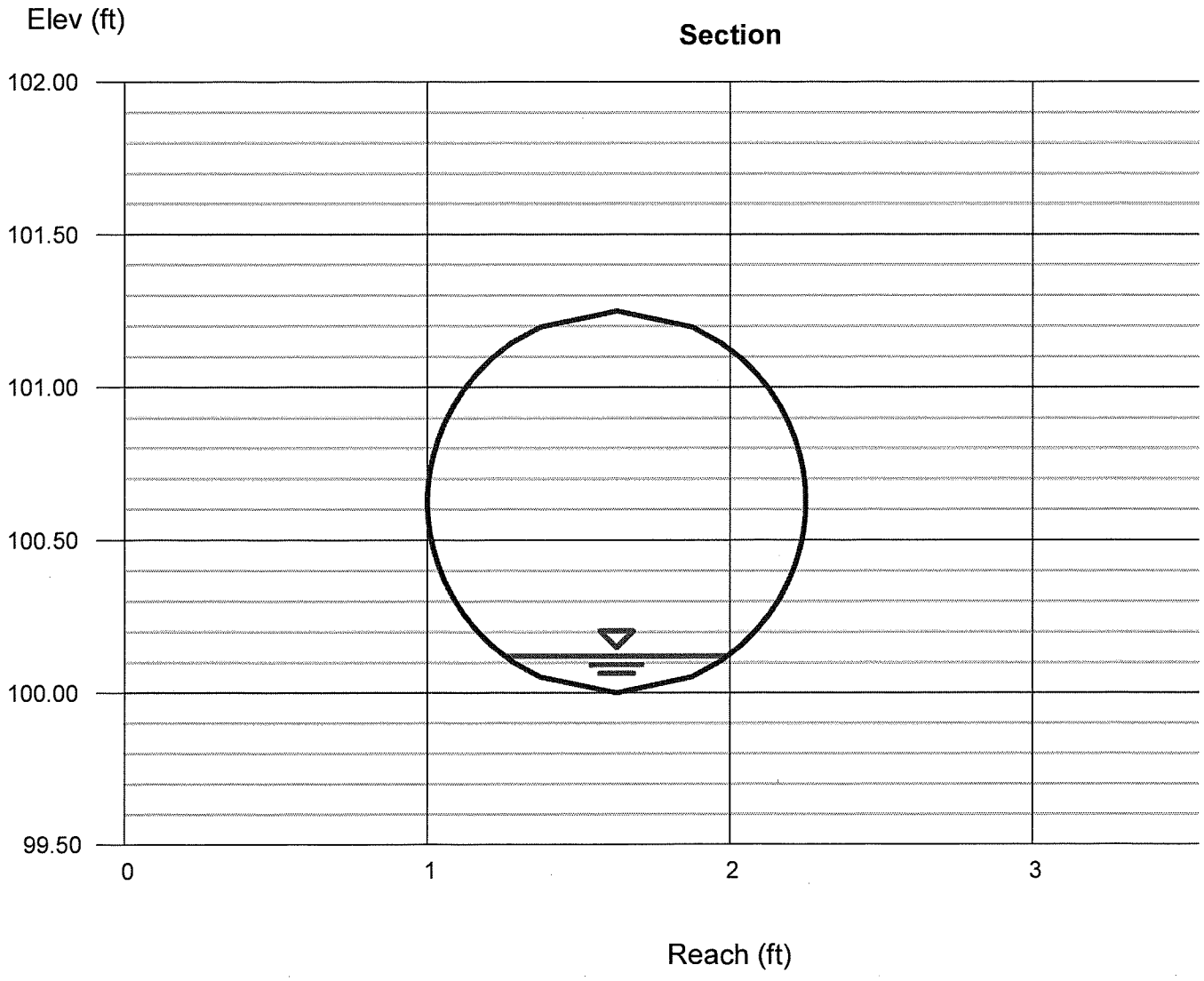
Calculations

Compute by:	Known Depth
Known Depth (ft)	= 0.12

Highlighted

Depth (ft)	= 0.12
Q (cfs)	= 0.093
Area (sqft)	= 0.06 ← 5% OF CROSS SECTIONAL AREA
Velocity (ft/s)	= 1.51
Wetted Perim (ft)	= 0.79
Crit Depth, Yc (ft)	= 0.12
Top Width (ft)	= 0.74
EGL (ft)	= 0.16

Q = 60,108 GPD



H.F. LENZ COMPANY

Subject 2330 PENN AVE SEWER MODULE

HFL File No. 2017-0323.01 Scale N/A Sheet 1 of 1

Calculated by JJS Date 8/23/19 Checked by _____ Date _____

REV: 8/27/19

PRESENT FLOWS

PRESENT AVG. FLOW X 3.5 = 60,108 GPD X 3.5 = 210,378 GPD

PRESENT ~~AVG.~~ PEAK FLOW = ~~PRESENT PEAK FLOW / 3.5~~ = ~~60,108 GPD / 3.5~~ = ~~17,174 GPD~~

PROJECTED FLOWS

PROJECTED PEAK FLOW = (PRESENT PEAK FLOW + PROJECT FLOW) X 1.05

= (~~60,108 GPD~~ 210,378 GPD + 8,400 GPD) X 1.05

= ~~71,934 GPD~~

= 229,717 GPD

↑ INCLUDES 3 CONDO UNITS FOR THIS MODULE & 18 CONDO UNITS FROM APPROVED MODULE

PROJECTED AVG. FLOW = PROJECTED PEAK FLOW / 3.5 = ~~71,934 GPD~~ 229,717 GPD / 3.5 = ~~20,553 GPD~~

= 65,634 GPD

2330 Penn Ave. Condominium Development

Depth (ft)	Q (cfs)	CALCULATED Q (GPD)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Yc (ft)	TopWidth (ft)	Energy (ft)	
0.13	0.10	63972.81	0.06	0.97	0.81	0.10	0.75	0.14	
0.25	0.41	267522.66	0.18	1.49	1.16	0.20	1.00	0.28	
0.38	0.92	593848.61	0.31	1.87	1.45	0.30	1.15	0.43	
0.50	1.58	1020980.20	0.46	2.17	1.71	0.39	1.22	0.57	
0.63	2.36	1523716.02	0.62	2.41	1.97	0.49	1.25	0.72	
0.75	3.16	2040021.83	0.77	2.58	2.22	0.57	1.22	0.85	
0.88	3.93	2538880.51	0.92	2.70	2.48	0.63	1.14	0.99	
1.00	4.58	2958904.01	1.05	2.75	2.77	0.69	1.00	1.12	
1.13	**4.99**	**3225780.48**	**1.16**	**2.71**	**3.13**	**0.72**	**0.75**	**1.24**	**PEAK FLOW**
1.25	4.68	3025461.58	1.23	2.41	3.93	0.70	0.00	1.34	

a. Design and/or Permitted Capacity (GPD)
The Designed flow data was calculated with Manning's Equation as shown the table above utilizing the pipe slope, material, size and inverts. The inverts were found from site survey data. The minimum slope for the 15 inch pipe was calculated at 0.70%.

b. Present Flows (gpd)
The present flows were calculated using information provided by a CCTV pipe inspection. The Peak flow was calculated to be 60,108 gallons per day. To determine the Average flow the peak was divided by 3.5 for the combination system.

c. Projected Flows in 5 years (gpd)

The projected flows were calculated using the Peak Present flow and increased by 5% per PWSA. This was then added to the proposed increase of flow for the proposed project. Which is calculated in narrative section of the sewer module (Tab 6)

The information represented as the Dry Weather Flow Calculation has been preformed based on available information including field survey, record information and standard engineering practices and judgement.

	Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd)	
	Average	Peak	Average	Peak	Average	Peak
Collection	921,652	3,225,781	~~17,174~~ 60,108	~~60,108~~ 210,378	~~20,553~~ 65,634	~~71,934~~ 229,717

The owner/developer of an existing parcel located at 2330 Penn Avenue is proposing the conversion of the existing structure from the current use to a residential development. A sewage facilities planning module was submitted and approved by the City of Pittsburgh for 18 condominium units, however an additional three condominium units have been added since the resolution was adopted. This sewage facilities planning module is only for the additional three units that have been added to the project.

When complete, the project will include a total of 21 residential units which will be an increase of 17 residential units from the existing condition. Each unit will contain two (2) bedrooms with a total square footage ranging from 1,700 square feet to 4,500 square feet.

Anticipated water usage and sanitary flows were calculated in accordance with the PWSA Procedures Manual for Developers, revised April 2015 as indicated below.

Flow from Previous Sewage Facilities Planning Module:

18 condominium units at 400 GPD = 7,200 GPD

Proposed Flow:

3 condominium units at 400 GPD = 1,200 GPD

Total Flow:

3 condominium units at 400 GPD = 1,200 GPD
\+ 18 condominium units at 400 GPD = 7,200 GPD
8,400 GPD

Increase in Sewage Flow = 1,200 GPD
3 EDUs

The flow depth of the most limited capacity sewer (MH025N018) was surveyed on 11/30/2017 via closed circuit television video (CCTV) pipe inspection. From the inspection of the 15" VCP pipe, the water level occupied 5% of the pipes cross sectional area. Using Manning's Equation, the flow depth was able to be calculated.

Sanitary sewage from the proposed building expansion will be conveyed to the existing sanitary sewer located within 24th Street where it will continue to utilize the existing lateral connected to the existing main, if possible.

The building is serviced by an existing water lateral located in 24th Street. It is anticipated that a new water tap will be required.

There we be no increase in storm water runoff from due to the proposed work. The existing stormwater flows are as follows:

Runoff Coefficient (C) 0.95

Rainfall Intensity (I)

Area (A) 0.2 Acres

Runoff (Q) = CIA
= 0.95(7.13)(.2)
Q = 1.35 cfs

PGH2O Pittsburgh Water & Sewer Authority

September 17, 2019

Mr. Joshua Shearman, EIT
H.F. Lenz company
1407 Scalp Avenue
Johnstown, PA 15904

Subject: Pennsylvania Department of Environmental Protection (PaDEP)
Sewage Facilities Planning Module (SFPM) – Component 3 Form
Chapter 94 Consistency Determination
2330 Penn Avenue Condos
Submitted: August 27, 2019

Dear Mr. Shearman:

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module for the 2330 Penn Avenue Condos (Project) located at 2330 Penn Avenue, Pittsburgh, PA 15212. 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 412-255-8800 x5532 or RHerring@pgh2o.com.

Sincerely,

Robert Herring, P.E.
Engineering Consultant

Enclosures

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

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Customer Service /
Emergencies:
412.255.2423

PGH2O Pittsburgh Water & Sewer Authority

MEMO

To: Barry King, P.E.

From: Robert Herring, P.E.

Date: August 27, 2019

Subject: DEP Sewage Facilities Planning Module – Component 3

Chapter 94 Consistency Determination

Hydraulic Calculation Review

2330 Penn Avenue Developemnt

Dear Barry,

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module – Component 3 as submitted by H.F. Lenz Company (Applicant) for the 2330 Penn Avenue Development (Project) located at 2330 Penn Avenue, Pittsburgh, PA 15222. 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

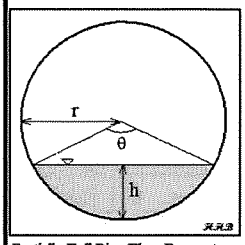
Customer Service /
Emergencies:
412.255.2423

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

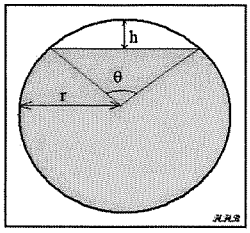
LEGEND: Input Data | Output Data

PROJECT NAME:	2330 Penn Avenue Development
PROJECT LOCATION:	2330 Penn Avenue, Pittsburgh, PA 15222
TIE-IN LOCATION:	Allegheny
PWSA REVIEWER:	Robert Herring
DATE:	August 27, 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

$$Q = \left(\frac{1.49}{n}\right) \times A \times R^{2/3} \times S^{1/2} \qquad R = \frac{A}{P} \qquad \Theta = 2 \times \cos^{-1}\left(\frac{r-h}{r}\right)$$

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

$$P_{<50\%\ Full} = r \times \Theta \qquad P_{>50\%\ Full} = (2 \times \pi \times r) - (r \times \Theta)$$

Section B: Data for Calculations

Variable	*Value*	*Units*
n	0.015	unitless
Material	VCP	
S	0.007	ft/ft
h	0.120	ft
D	1.25	ft
h/D	0.096	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_p	1,200	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	1.250	ft
r	0.625	ft
A	1.227	ft^2
P	3.927	ft
R	0.313	ft
$Q_{d, peak}$	5	cfs
$Q_{d, peak}$	3,035,518	gpd

Average Design Flow Calcs		
Variable	*Value*	*Unit*
$Q_{d, avg}$	867,291	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	1.250	ft
r	0.625	ft
θ	1.26	rad
A	0.06	ft^2
P	0.79	ft
R	0.076	ft
$Q_{ex, peak}$	0	cfs
$Q_{ex, peak}$	58,162	gpd

Existing Peak Flow Calcs		
Variable	*Value*	*Unit*
$Q_{ex, avg}$	203,568	gpd

Section E: Projected Flow Calculations

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

Projected Flow Calculations		
Variable	*Value*	*Unit*
$Q_{proj, peak}$	215,007	gpd
$Q_{proj, avg}$	61,431	gpd

Section F: Compare Results with Applicant's Submission

Variable	*PWSA Calcs, gpd*	*Applic. Calcs, gpd*	*Difference, gpd*	*Difference, %*
$Q_{d, peak}$	3,035,518	3,225,781	-190,263	-6%
$Q_{d, avg}$	867,291	921,652	-54,361	-6%
$Q_{ex, peak}$	203,568	210,378	-6,810	-3%
$Q_{ex, avg}$	58,162	60,108	-1,946	-3%
$Q_{proj, peak}$	215,007	229,717	-14,710	-7%
$Q_{proj, avg}$	61,431	65,634	-4,203	-7%

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP Code #:

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

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

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

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

Project Name
2330 Penn Avenue Condominium Development

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

1. Date plan received by municipal planning agency. 7-11-19
2. Date review completed by agency. 7-22-19

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

Yes	No		
☐	☒	1.	Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, *et seq.*)?
☐ N/A	☐	2.	Is this proposal consistent with the comprehensive plan for land use? If no, describe the inconsistencies
☒	☐	3.	Is this proposal consistent with the use, development, and protection of water resources? If no, describe the inconsistencies
☒	☐	4.	Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation?
☐	☒	5.	Does this project propose encroachments, obstructions, or dams that will affect wetlands? If yes, describe impacts
☐	☒	6.	Will any known historical or archaeological resources be impacted by this project? If yes, describe impacts
☐	☒	7.	Will any known endangered or threatened species of plant or animal be impacted by this project? If yes, describe impacts
☒	☐	8.	Is there a municipal zoning ordinance?
☒	☐	9.	Is this proposal consistent with the ordinance? If no, describe the inconsistencies
☐	☒	10.	Does the proposal require a change or variance to an existing comprehensive plan or zoning ordinance?
☒	☐	11.	Have all applicable zoning approvals been obtained?
☒	☐	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 Act 537 Official Sewage Facilities Plan? If no, describe the inconsistencies _____
☐	☒	15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
☐	☒	16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
☐	☐	If yes, is the proposed waiver consistent with applicable ordinances?

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

Name: Martina Battistone

Title: Senior environmental planner

Signature: MBattistone

Date: 7-22-19

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

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

Telephone Number: (412) 255-2514

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

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

The planning agency must complete this Component within 60 days.

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

COUNTY OF ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

July 11, 2019

Joshua Shearman, E.I.T.
H. F. Lenz Company
1407 Scalp Avenues
Johnston, PA 15904

RE: SEWAGE FACILITIES PLANNING MODULE
2330 Penn Avenue Condominiums Development
City of Pittsburgh, ALLEGHENY COUNTY

Dear Mr. Shearman,

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 10, 2019. The project proposes the following:

Project Description:	2330 Penn Avenue Condominiums Development. Proposing the conversion of the existing structure from the current use to a residential development consisting of three additional condominium units (1,200 GPD increase) added to the previously submitted and approved 18 units.
Sewage Flow:	1,200 GPD
Conveyance:	The flow from this site will be conveyed to the PWSA collection system and then to the ALCOSAN Treatment facility at Woods Run via ALCOSAN POC A-18 and the Allegheny River interceptor.
Sewer's Owner:	PWSA (collection system) 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. 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, 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

Enclosure

cc: Thomas Flanagan, PA Department of Environmental Protection w/attachment
Ivo Miller, ACHD w/attachment

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

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

INSTRUCTIONS FOR COMPLETING COMPONENT 4C COUNTY OR JOINT HEALTH DEPARTMENT REVIEW

Remove and recycle these instructions prior to mailing component to the approving agency (DEP or delegated local agency).

Background

This component, Component 4, is used to obtain the comments of planning agencies and/or health departments having jurisdiction over the project area. It is used in conjunction with other planning module components appropriate to the characteristics of the project proposed.

Who Should Complete the Component?

The component should be completed by any existing municipal planning agency, county planning agency, planning agency with areawide jurisdiction, and/or health department having jurisdiction over the project site. It is divided into sections to allow for convenient use by the appropriate agencies.

The project sponsor must forward copies of this component, along with supporting components and data, to the appropriate planning agency or agencies and health department(s) (if any) having jurisdiction over the development site. These agencies are responsible for responding to the questions in their respective sections of Component 4, as well as providing whatever additional comments they may wish to provide on the project plan. After the agencies have completed their review, the component will be returned to the applicant. The agencies have 60 days in which to provide comments to the applicant. If the agencies fail to comment within this 60 day period, the applicant may proceed to the next stage of the review without the comments. The use of registered mail or certified mail (return receipt requested) by the applicant when forwarding the module package to the agencies will document a date of receipt.

After receipt of the completed Component 4 from the planning agencies, or following expiration of the 60 day period without comments, the applicant must submit the entire component package to the municipality having jurisdiction over the project area for review and action. If approved by the municipality, the proposed plan, along with the municipal action, will be forwarded to the approving agency (DEP or delegated local agency). The approving agency, in turn, will either approve the proposed plan, return it as incomplete, or disapprove the plan, based upon the information provided.

Instructions for Completing Planning Agency and/or Health Department Review Component

Section A. Project Name

Enter the project name as it appears on the accompanying sewage facilities planning module component (Component 2, 3, 3s or 3m).

Section B. Review Schedule

Enter the date the package was received by the reviewing agency, and the date that the review was completed.

Section C. Agency Review

1. Answer the yes/no questions and provide any descriptive information necessary on the lines provided. Attach additional sheets, if necessary.

2. Complete the name, title, and signature block.

Section D. Additional Comments

The Agency may provide whatever additional comment it deems necessary, as described in the form. Attach additional sheets, if necessary.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

DEP Code #

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
2330 Penn Avenue Condominiums Development

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

1. Date plan received by county or joint-county health department. July 10, 2019

   Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency July 11, 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: Freddie Fields

Date: July 11, 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.

The owner/developer of an existing parcel located at 2330 Penn Avenue is proposing the conversion of the existing structure from the current use to a residential development. A sewage facilities planning module was submitted and approved by the City of Pittsburgh for 18 condominium units, however an additional three condominium units have been added since the resolution was adopted. This sewage facilities planning module is only for the additional three units that have been added to the project.

When complete, the project will include a total of 21 residential units which will be an increase of 17 residential units from the existing condition. Each unit will contain two (2) bedrooms with a total square footage ranging from 1,700 square feet to 4,500 square feet.

Anticipated water usage and sanitary flows were calculated in accordance with the PWSA Procedures Manual for Developers, revised April 2015 as indicated below.

Flow from Previous Sewage Facilities Planning Module:

18 condominium units at 400 GPD = 7,200 GPD

Proposed Flow:

3 condominium units at 400 GPD = 1,200 GPD

Total Flow:

3 condominium units at 400 GPD = 1,200 GPD
\+ 18 condominium units at 400 GPD = 7,200 GPD
8,400 GPD

Increase in Sewage Flow = 1,200 GPD
3 EDUs

The flow depth of the most limited capacity sewer (MH025N018) was surveyed on 11/30/2017 via closed circuit television video (CCTV) pipe inspection. From the inspection of the 15" VCP pipe, the water level occupied 5% of the pipes cross sectional area. Using Manning's Equation, the flow depth was able to be calculated.

Sanitary sewage from the proposed building expansion will be conveyed to the existing sanitary sewer located within 24th Street where it will continue to utilize the existing lateral connected to the existing main, if possible.

The building is serviced by an existing water lateral located in 24th Street. It is anticipated that a new water tap will be required.

There we be no increase in storm water runoff from due to the proposed work. The existing stormwater flows are as follows:

Runoff Coefficient (C) 0.95

Rainfall Intensity (I)

Area (A) 0.2 Acres

Runoff (Q) = CIA
= 0.95(7.13)(.2)
Q = 1.35 cfs

Sanitary sewage from the proposed building expansion will be conveyed to the existing sanitary sewer located within 24th Street where it will continue to utilize the existing lateral connected to the existing main, if possible. The additional three condominium units will generate an increase of 1,200 GPD or 3 EDU's. Refer to the Project Narrative. This disposal method is the ultimate method which will serve the development beyond a five-year period.

The only potential alternative sewage disposal method for the proposed development would be the construction of an on-lot sewage system. This alternative was not feasible due to the small lot size for the project.

alcosan allegheny county sanitary authority ™

October 1, 2019

Joshua Shearman
H.F. Lenz Company, Inc.
1407 Scalp Avenue
Johnstown, Pennsylvania 15904

Re: 2330 Penn Avenue Condominiums, City of Pittsburgh
PA DEP Sewage Facilities Planning Module
ALCOSAN Interceptor Regulator Structure A-18-00

Dear Mr Shearman:

We have reviewed the Component 3 Planning Module for the referenced project to be located in the City of Pittsburgh. The project will generate a peak flow of 1200 gpd in the ALCOSAN Allegheny River Interceptor and Woods Run Treatment Plant.

The capacity of the ALCOSAN Regulator at A-18-00 is approximately 6.7 MGD. The estimated peak dry weather flow is approximately 1.78 MGD. 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 evaluated further as ALCOSAN implements its Clean Water Plan.

ALCOSAN requests that this letter be made part of the planning module submission. The signed Component 3 Planning Module is attached. The sewers in this project are to be designed as separated sanitary and storm sewers. If you have any questions regarding this matter, please contact me at 412-732-8004.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY

Michael D. Lichte, P.E.
Manager of Planning

Attachment

cc: T. Dean (w/o attachment)
D. Thornton (w/o attachment)
Shawn McWilliams (w/o attachment)
Barry King/ PWSA (w/o attachment)
T. Flanagan/ PaDEP (w/o attachment)
Mike Moskorisin, ACHD (w/o attachment)

H.F. LENZ
COMPANY

Engineering

1407 Scalp Avenue
Johnstown, PA 15904
Phone: 814-269-9300

September 24, 2019

Mr. Michael Lichte, P.E.
ALCOSAN
3300 Preble Avenue
Pittsburgh, PA 15233-1092

Subject: 2330 Penn Avenue Condominiums
City of Pittsburgh, Allegheny County, Pennsylvania
HFL File No. 2017-0323.01

RE: Sewage Planning

Dear Mr. Lichte:

The owner/developer of an existing parcel located at 2330 Penn Avenue is proposing the conversion of the existing structure from the current use to a residential development. A sewage facilities planning module was submitted and approved by the City of Pittsburgh for 18 condominium units; however, an additional three condominium units have been added since the resolution was adopted. This sewage facilities planning module is only for the additional three units that have been added to the project. The three additional units will create an estimated additional sewage flow of 1,200 GPD. Refer to the enclosed Site Location Map and Site Plan for the location of the project area and proposed improvements.

As part of this project, the Pennsylvania Department of Environmental Protection (PADEP) requires that sewage facilities planning be completed. Therefore, we are requesting your assistance in completing Section G (Page 3), Section J (Pages 6 and 7), and Section O (Pages 8 and 9) within the enclosed Sewage Facilities Planning Module Component 3.

Enclosed for your use in completing the Component 3, please find one (1) three ring binder package containing the following information:

- PADEP Form 3800-FM-BPNPSM0355, **Transmittal Letter for Sewage Facilities Planning Module**
- PADEP Form 3800-FM-BPNPSM0356, **Resolution for Plan Revisions for New Land Development**
- PADEP Form 3800–FM-BPNPSM0353, **Sewage Facilities Planning Module, Component 3 Sewage Collection and Treatment Facilities** (and associated documentation including Project Narrative, Alternative Analysis, PNDI Internet Database Search Results, Completeness Checklist, Site Location Map, and Site Plan)

H.F. LENZ
COMPANY

We respectfully request that the required sections be completed. Upon completion, please return the binders to our office. In the meantime, should you have any questions or require additional information, please feel free to contact our office.

Sincerely,

H.F. LENZ COMPANY

Joshua J. Shearman, E.I.T.

I:\PROJECTS\2017\170300\170323X01\LETTERS\ALCOSAN\M LICHTE\SENT\19_0924 JJS COMPONENT 3.DOCX

Enclosures

cc: Bryan Clement - H.F. Lenz Company

PGH2O Pittsburgh Water & Sewer Authority

September 17, 2019

Mr. Joshua Shearman, EIT
H.F. Lenz company
1407 Scalp Avenue
Johnstown, PA 15904

Subject: Pennsylvania Department of Environmental Protection (PaDEP)
Sewage Facilities Planning Module (SFPM) – Component 3 Form
Chapter 94 Consistency Determination
2330 Penn Avenue Condos
Submitted: August 27, 2019

Dear Mr. Shearman:

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module for the 2330 Penn Avenue Condos (Project) located at 2330 Penn Avenue, Pittsburgh, PA 15212. 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 412-255-8800 x5532 or RHerring@pgh2o.com.

Sincerely,

Robert Herring, P.E.
Engineering Consultant

Enclosures

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

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Customer Service /
Emergencies:
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PGH2O Pittsburgh Water & Sewer Authority

MEMO

To: Barry King, P.E.

From: Robert Herring, P.E.

Date: August 27, 2019

Subject: DEP Sewage Facilities Planning Module – Component 3

Chapter 94 Consistency Determination

Hydraulic Calculation Review

2330 Penn Avenue Developemnt

Dear Barry,

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module – Component 3 as submitted by H.F. Lenz Company (Applicant) for the 2330 Penn Avenue Development (Project) located at 2330 Penn Avenue, Pittsburgh, PA 15222. 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

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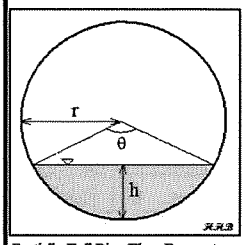
Customer Service /
Emergencies:
412.255.2423

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

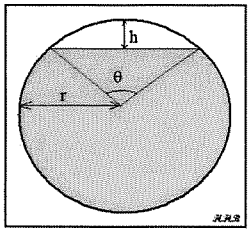
LEGEND: Input Data | Output Data

PROJECT NAME:	2330 Penn Avenue Development
PROJECT LOCATION:	2330 Penn Avenue, Pittsburgh, PA 15222
TIE-IN LOCATION:	Allegheny
PWSA REVIEWER:	Robert Herring
DATE:	August 27, 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

$$Q = \left(\frac{1.49}{n}\right) \times A \times R^{2/3} \times S^{1/2} \qquad R = \frac{A}{P} \qquad \Theta = 2 \times \cos^{-1}\left(\frac{r-h}{r}\right)$$

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

$$P_{<50\%\ Full} = r \times \Theta \qquad P_{>50\%\ Full} = (2 \times \pi \times r) - (r \times \Theta)$$

Section B: Data for Calculations

Variable	*Value*	*Units*
n	0.015	unitless
Material	VCP	
S	0.007	ft/ft
h	0.120	ft
D	1.25	ft
h/D	0.096	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_p	1,200	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	1.250	ft
r	0.625	ft
A	1.227	ft^2
P	3.927	ft
R	0.313	ft
$Q_{d, peak}$	5	cfs
$Q_{d, peak}$	3,035,518	gpd

Average Design Flow Calcs		
Variable	*Value*	*Unit*
$Q_{d, avg}$	867,291	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	1.250	ft
r	0.625	ft
θ	1.26	rad
A	0.06	ft^2
P	0.79	ft
R	0.076	ft
$Q_{ex, peak}$	0	cfs
$Q_{ex, peak}$	58,162	gpd

Existing Peak Flow Calcs		
Variable	*Value*	*Unit*
$Q_{ex, avg}$	203,568	gpd

Section E: Projected Flow Calculations

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

Projected Flow Calculations		
Variable	*Value*	*Unit*
$Q_{proj, peak}$	215,007	gpd
$Q_{proj, avg}$	61,431	gpd

Section F: Compare Results with Applicant's Submission

Variable	*PWSA Calcs, gpd*	*Applic. Calcs, gpd*	*Difference, gpd*	*Difference, %*
$Q_{d, peak}$	3,035,518	3,225,781	-190,263	-6%
$Q_{d, avg}$	867,291	921,652	-54,361	-6%
$Q_{ex, peak}$	203,568	210,378	-6,810	-3%
$Q_{ex, avg}$	58,162	60,108	-1,946	-3%
$Q_{proj, peak}$	215,007	229,717	-14,710	-7%
$Q_{proj, avg}$	61,431	65,634	-4,203	-7%

☒ 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 1200 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

   When providing "treatment facilties" 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	921652	3225781	60108	210378	65634	229717
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. ☐ ☐ 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 PWSA

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

   Agent Signature _____ Date 9/16/2019

H.F. LENZ
COMPANY

Engineering

549 North Mine Road
Lebanon, PA 17042-8822
Phone: (717) 461-3916

August 27, 2019

Mr. Rob Herring, P.E.
Pittsburgh Water & Sewer Authority
Penn Liberty Plaza 1
1200 Penn Avenue
Pittsburgh, PA 15222

Subject: 2330 Penn Avenue Condominiums
City of Pittsburgh, Allegheny County, Pennsylvania
HFL File No. 2017-0323.01

RE: Response to Comments

Dear Mr. Herring:

We are in receipt of your email transmitted on August 27, 2019 regarding your comments to our Sewage Facilities Planning Module submission for the subject project. We have reviewed your comments and provide the following responses:

- We were unable to replicate the submitted flow calculations. Please refer to the enclosed Hydraulic Calculations Spreadsheet and guidance document on approved calculation methodology. We believe the discrepancies may be stemming from the usage of flow depth measurements for peak flow calculations, rather than the average flow calculations. However, our analysis was cursory so please review our calculations/guidance and provide your input. Please revise the table found in Section J(2), if required.

  Response: After reviewing the enclosed Hydraulic Calculations Spreadsheet and guidance document, the calculations have been revised using the measured flow depth for the average flow calculations. Section J(2) of the Component 3 has been revised.

Should you have any questions or require additional information, please feel free to contact our office.

Sincerely,

H.F. LENZ COMPANY

Joshua J. Shearman

Joshua J. Shearman, E.I.T.

I:\PROJECTS\2017\170300\170323X01\LETTERS\PWSA\SENT\19_0827 JJS RESPONSE2.DOCX

Enclosures

cc: Bryan J. Clement, P.E. – H.F. Lenz Company

Please find attached the revised Sewage Facilities Planning Module for the 2330 Penn Avenue project. If you have any questions please feel free to contact me.

Thanks,

Joshua J. Shearman, E.I.T.
GIS Technician
H.F. Lenz Company
Phone: 814-269-9300 x288
Email: JSHEARMAN@HFLENZ.COM

Shearman, Joshua J.

From: Rob Herring, P.E. <RHerring@pgh2o.com>
Sent: Tuesday, August 27, 2019 11:48 AM
To: Shearman, Joshua J.
Cc: Developer_Tap_in_Permits.2330_Penn_Avenue_Condos@docs.e-builder.net
Subject: RE: 2330 Penn Avenue Revised Component 3 - HFL File: 2017-0323.03
Attachments: Avg Flow Manning Calculation Spreadsheet.pdf; PWSA SFPM Instructions.pdf

Joshua,

We have reviewed the resubmitted Sewage Facilities Planning Module (SFPM) for the 2330 Penn Avenue Development. Please address the following comment:

- We were unable to replicate the submitted flow calculations. Please refer to the enclosed Hydraulic Calculations Spreadsheet and guidance document on approved calculation methodology. We believe the discrepancies may be stemming from the usage of flow depth measurements for peak flow calculations, rather than the average flow calculations. However, our analysis was cursory so please review our calculations/guidance and provide your input. Please revise the table found in Section J(2), if required.

Should you have any questions, please do not hesitate to contact us.

Thanks,

PGH2O

Rob Herring, P.E.
Consultant - Engineering
RHerring@pgh2o.com
Office: 412.255.8800
Ext:5532

Pittsburgh Water and Sewer Authority
1200 Penn Ave, Pittsburgh, PA 15222

www.pgh2o.com / twitter: @pgh2o / LinkedIn

From: Shearman, Joshua J. <JShearman@hflenz.com>
Sent: Tuesday, August 27, 2019 10:17 AM
To: Developer_Tap_in_Permits.2330_Penn_Avenue_Condos@docs.e-builder.net
Cc: Rob Herring, P.E. <RHerring@pgh2o.com>; Julie Asciolla <jasciolla@pgh2o.com>
Subject: 2330 Penn Avenue Revised Component 3 - HFL File: 2017-0323.03

Rob,

H.F. LENZ
COMPANY

Engineering

549 North Mine Road
Lebanon, PA 17042-8822
Phone: (717) 461-3916

August 27, 2019

Mr. Rob Herring, P.E.
Pittsburgh Water & Sewer Authority
Penn Liberty Plaza 1
1200 Penn Avenue
Pittsburgh, PA 15222

Subject: 2330 Penn Avenue Condominiums
City of Pittsburgh, Allegheny County, Pennsylvania
HFL File No. 2017-0323.01

RE: Response to Comments

Dear Mr. Herring:

We are in receipt of your email transmitted on August 2, 2019 regarding your comments to our Sewage Facilities Planning Module submission for the subject project. We have reviewed your comments and provide the following responses:

- Revise Section G1b of the SFPM Component 3 Form per the enclosed markup.

  Response: Section G1b of the Component 3 Form has been revised per the markup.

- Complete the table found in Section J(2) of the SFPM Component 3 Form.

  Response: The table in Section J(2) has been completed.

- Provide a professional engineer's seal and signature on the hydraulic calculations.

  Response: A professional engineer's seal and signature has been provided on the hydraulic calculations.

- Revise the Narrative to describe the procedure (i.e. date, time, location, etc.) for measuring the flow depth. Please refer to the location of the most limited capacity sewer as provided in the W/S Use Approval Letter.

  Response: The narrative has been revised to describe the procedure for measuring the flow depth.

- Please refer to the enclosed Record Drawing with the as-built sewer slope information. Revise hydraulic calculations.

  Response: The hydraulic calculations have been revised per the as-built slope information.

Should you have any questions or require additional information, please feel free to contact our office.

Sincerely,

H.F. LENZ COMPANY

Joshua J. Shearman

Joshua J. Shearman, E.I.T.

I:\PROJECTS\2017\170300\170323X01\LETTERS\PWSA\SENT\19_0823 JJS RESPONSE.DOCX

Enclosures

cc: Bryan J. Clement, P.E. – H.F. Lenz Company

Shearman, Joshua J.

From: Rob Herring, P.E. <RHerring@pgh2o.com>
Sent: Friday, August 2, 2019 1:42 PM
To: Shearman, Joshua J.
Cc: Julie Asciolla; Developer_Tap_in_Permits.2330_Penn_Avenue_Condos@docs.e-builder.net
Subject: Sewage Facilities Planning Module Review Comments - 2330 Penn Avenue Condos
Attachments: 20190802_134950.pdf

>| MailToFile Info: >]
Arch. d.d.: 8/23/2019 11:59:00 AM
Arch. nr.: 6
Arch. OK: >]

Joshua,

We have begun our review of the submitted Sewage Facilities Planning Module (SFPM) for the 2330 Penn Avenue Condos. Please address the following comments/questions:

- Revise Section G1b of the SFPM Component 3 Form per the enclosed markup.
- Complete the table found in Section J(2) of the SFPM Component 3 Form.
- Provide a professional engineer's seal and signature on the hydraulic calculations.
- Revise the Narrative to describe the procedure (i.e. date, time, location, etc.) for measuring the flow depth. Please refer to the location of the most limited capacity sewer as provided in the W/S Use Approval Letter.
- Please refer to the enclosed Record Drawing with the as-built sewer slope information. Revise hydraulic calculations.

Should you have any questions, please do not hesitate to contact me directly.

Thanks,

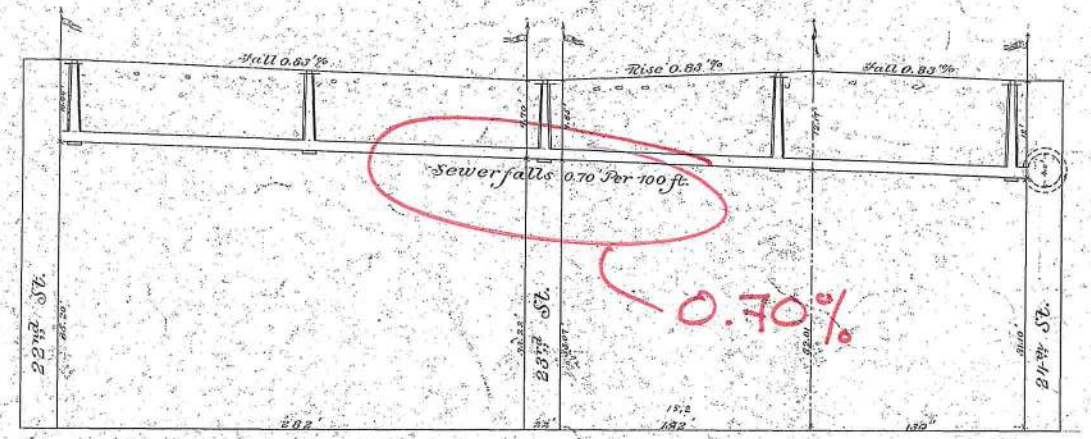
PGH2O
Rob Herring, P.E.
Consultant - Engineering
RHerring@pgh2o.com
Office: 412.255.8800
Internal Ext: 5532

Pittsburgh Water and Sewer Authority
1200 Penn Ave, Pittsburgh, PA 15222

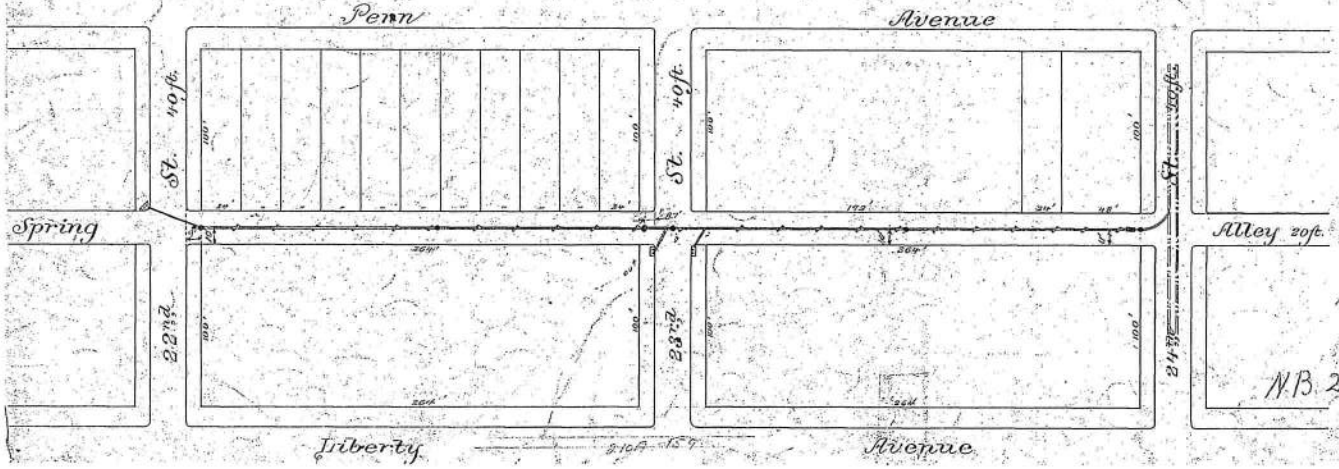
www.pgh2o.com / twitter: @pgh2o / LinkedIn

contained in or attached to this e-mail is strictly prohibited. If you have received this transmission in error, please notify the sender of this communication of your receipt, in error, by e-mail or by phone, then destroy the original and its attachments by deleting them from your system. Thank you for your cooperation.

15 inch pipe Sewer
on
Spring Alley
from
22nd to 23rd Streets.



Profile of Sewer
Scales Hor. 40' & Ver. 8' = 1 inch.



ESTIMATE

594 feet of 15 inch pipe
4 nine & twelve & 4 fifteen inch connections
4 Drops
5 Manholes

20 feet of Curved pipe 20ft. Radius

NOTE Record of Sewer Connections

D403-2-10

N.B. 21-P.81

Bond $1000.

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 3

Connections 1

Name of:

existing collection or conveyance system Spring Way - 15" VCP

owner PWSA

existing interceptor Allegheny River Interceptor

owner 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

NPDES Permit Number for existing facility _____

Clean Streams Law Permit Number _____

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

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

As an authorized representative of the permittee, I confirm that the _____ (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 _____

Name of Responsible Agent _____

Agent Signature _____ Date _____

(Also see Section I. 4.)

☒ 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 1200 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

   When providing "treatment facilties" 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	APPLICANT SHALL FILL OUT THIS				ROW	
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. ☐ ☐ 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

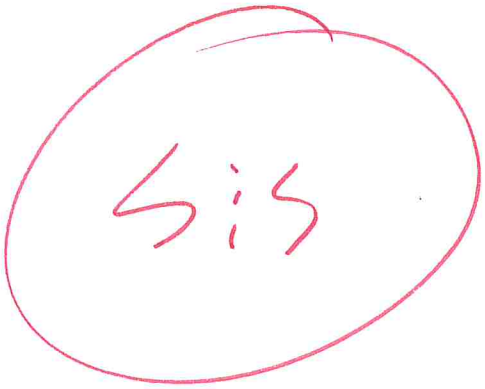
   Name of Agency, Authority, Municipality _____

   Name of Responsible Agent _____

   Agent Signature _____ Date _____

SEWER PLANNING MODULE
DRY WEATHER FLOW CALCULATIONS

2330 PENN AVENUE
CONDOMINIUM DEVELOPMENT
CITY OF PITTSBURGH, ALLEGHENY COUNTY



Prepared by

H.F. LENZ COMPANY
1407 Scalp Avenue
Johnstown, Pennsylvania 15904

July 11, 2019
HFL File No. 2017-0323.01

How were these depths measured? Where were they measured? Update Narrative.

2330 Penn Ave. Condominium Development

Depth (ft)	Q (cfs)	CALCULATED Q (GPD)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Yc (ft)	TopWidth (ft)	Energy (ft)	
0.13	0.06	38771.40	0.06	0.97	0.81	0.10	0.75	0.14	
0.25	0.26	168009.40	0.18	1.49	1.16	0.20	1.00	0.28	
0.38	0.58	374790.20	0.31	1.87	1.45	0.30	1.15	0.43	
0.50	1.00	646190.00	0.46	2.17	1.71	0.39	1.22	0.57	
0.63	1.49	962823.10	0.62	2.41	1.97	0.49	1.25	0.72	
0.75	1.99	1285918.10	0.77	2.58	2.22	0.57	1.22	0.85	
0.88	2.48	1602551.20	0.92	2.70	2.48	0.63	1.14	0.99	
1.00	2.89	1867489.10	1.05	2.75	2.77	0.69	1.00	1.12	
1.13	**3.15**	**2035498.50**	**1.16**	**2.71**	**3.13**	**0.72**	**0.75**	**1.24**	**PEAK FLOW**
1.25	2.96	1912722.40	1.23	2.41	3.93	0.70	0.00	1.34	

a. Design and/or Permitted Capacity (GPD)
The Designed flow data was calculated with Manning's Equation as shown the table above utilizing the pipe slope, material, size and inverts. The inverts were found from site survey data. The minimum slope for the 15 inch pipe was calculated at 0.15%.

b. Present Flows (gpd)
The present flows were calculated using provided billing data from PWSA (Tab 7 of the sewer module). The Peak flow was calculated using the existing site conditions which was determined to be 2000 gallons per day. To determine the Average flow the peak was divided by 3.5 for the combination system.

b. Projected Flows in 5 years (gpd)

The projected flows were calculated using the Peak Present flow and increased by 5% per PWSA. This was then added to the proposed increase of flow for the proposed project. Which is calculated in narrative section of the sewer module (Tab 6)

The information represented as the Dry Weather Flow Calculation has been preformed based on available information including field survey, record information and standard engineering practices and judgement.

	Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd)	
	Average	Peak	Average	Peak	Average	Peak
Collection	581,571	2,035,498	8,400	29,400	8,820	30,870

PGH2O Pittsburgh Water & Sewer Authority

August 2, 2019

R. Joshua J. Shearman, E.I.T.
H.F. Lenz Company
1407 Scalp Avenue
Johnstown, PA 15904

Subject: Water and Sewer (W/S) Use Approval Letter
2330 Penn Avenue Condominiums
Submitted: July 23, 2019

Dear Mr. Shearman:

Pursuant to your request, we have reviewed the Water and Sewer Use Application for the 2330 Penn Avenue Condominiums (Project) located at 2330 Penn Avenue, Pittsburgh, PA 15222. We agree that the Project will result in the following flows:

Total Water Consumption, gpd:	1,200
Total Sanitary Flows, gpd:	1,200
Total Storm Flows, cfs:	1.35

Please be advised that this W/S Use Approval Letter is intended for PWSA purposes only. The Pennsylvania Department of Environmental Protection (PaDEP) is the governing body that makes the final determination on whether sewage facilities planning is required. The PWSA strongly advises every Applicant to submit a Sewage Facilities Planning Module Application Mailer (Mailer). The Mailer is utilized by the PaDEP to determine if sewage facilities planning is necessary for your project, and if it is, which forms are appropriate. Please refer to the PaDEP website for the latest version of the Mailer. In the event that sewage facilities planning are required, we have enclosed for your use the location of the most limited capacity sewer.

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 412-255-8800 x5532 or RHerring@pgh2o.com.

Sincerely,

Robert Herring, P.E.
Engineering Consultant

Enclosure
cc: Barry King, P.E. – PWSA (via email)
Kate Mechler, P.E. – PWSA (via email)
Julie Asciolla – PWSA (via email)
Thomas Flanagan – DEP (via email)
Regis Ryan – DEP (via email)
eBuilder File (via email)

Penn Liberty Plaza I
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Pittsburgh PA 15222

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F 412.255.2475

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@pgh2o

Customer Service /
Emergencies:
412.255.2423

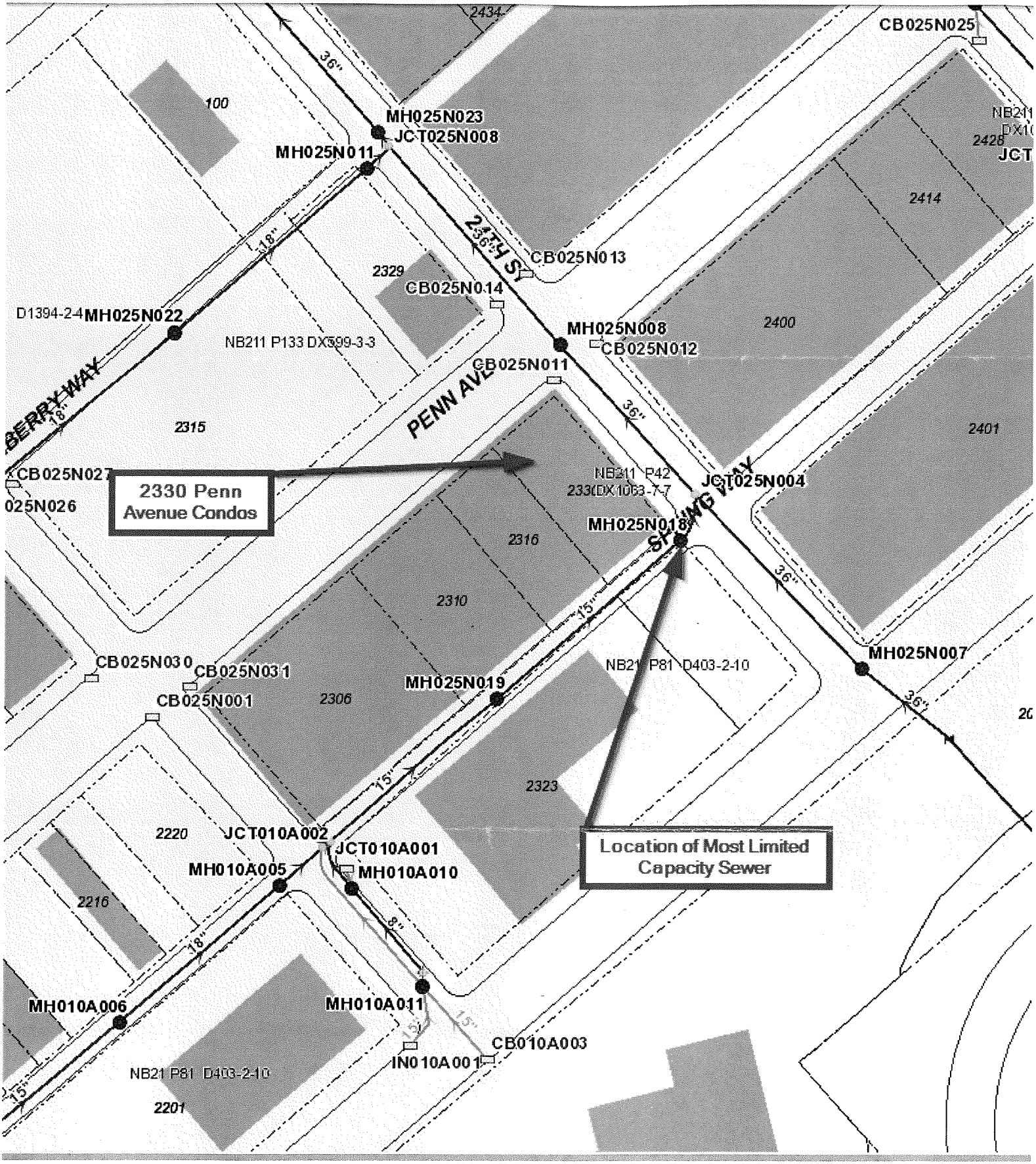
DEP Sewage Factilities Planning Module
Chapter 94 Consistency Determination
Hydraulically Limited Sewer Calculation Spreadsheet

LEGEND:

Input Data
Output Data
Suspect Data
Hydraulically Limited Sewer

PROJECT NAME:	2330 Penn Avenue Condominiums
PROJECT LOCATION:	2330 Penn Avenue, Pittsburgh, PA 15222
ALCOSAN INTERCEPTOR:	Allegheny
PWSA REVIEWER:	Robert Herring, P.E.
DATE:	August 2, 2019

Upstream MH	Downstream MH	Upstream Invert	Downstream Invert	Length, ft	Diam., in.	Material	n	Area, sf	Wetted P, ft	Slope	Flow, gpm
MH025N019	MH025N018	731.47	730.11	137.74	15	VCP	0.015	1.23	3.927	0.99%	3,605,149
MH025N018	JCT025N004	730.03	740.63	30.40	15	VCP	0.015	1.23	3.927	0.99%	3,609,951
JCT025N004	MH025N008	740.63	735.00	111.57	36	BR	0.016	7.07	9.425	0.05%	7,532,352
MH025N008	JCT025N008	0.00	0.00	153.54	36	BR	0.016	7.07	9.425	0.05%	7,532,352
JCT025N008	MH025N023	722.73	722.81	4.71	36	BR	0.016	7.07	9.425	0.05%	7,532,352
MH025N023	MH025N009	722.73	0.00	167.07	36	BR	0.016	7.07	9.425	0.05%	7,532,352
MH025N009	JCT025N003	735.00	718.15	180.85	48	BR	0.016	12.57	12.566	9.32%	230,867,259
JCT025N003	MH025N013	718.15	716.31	168.98	48	BR	0.016	12.57	12.566	1.09%	78,924,694
MH025N013	MH025N021	716.31	715.87	51.21	48	BR	0.016	12.57	12.566	0.86%	70,108,488
MH025N021	ADC024WA18	715.87	707.31	284.26	48	BR	0.016	12.57	12.566	3.01%	131,250,406


2330 Penn Avenue Condos
Location of Most Limited Capacity Sewer
PENN AVE
SPRING WAY
MH025N023
JCT025N008
MH025N011
MH025N022
MH025N008
CB025N012
CB025N011
CB025N013
CB025N014
CB025N025
CB025N027
CB025N026
CB025N030
CB025N031
CB025N001
MH025N019
MH025N018
JCT025N004
MH025N007
JCT010A002
JCT010A001
MH010A005
MH010A010
MH010A006
MH010A011
CB010A003
IN010A001
NB211 P133 DX599-3-3
NB21 P81 D403-2-10
2434
2428
2414
2400
2401
2329
2315
2316
2310
2306
2323
2220
2216
2201
100
36"
18"
15"
8"

Project No.

(PWSA USE ONLY)

THE PITTSBURGH WATER AND SEWER AUTHORITY
ENGINEERING AND CONSTRUCTION DIVISION

WATER AND SEWER USE APPLICATION FORM

(Return completed submittal package to The Pittsburgh Water and Sewer Authority (PWSA), Engineering and Construction Division

This application is used for commercial or residential projects that propose connecting to the PWSA water or sewer system or propose changing the amount of PWSA water consumed and/or flows discharged to the PWSA sewer system.

A. GENERAL INFORMATION

1. Name of Land Development Project 2330 PENN AVENUE CONDOMINIUM DEVELOPMENT
   Location of land development project. *Use landmark or address, if available (e.g., north side of Liberty Ave 75 ft. east of intersection of Liberty Ave and 6th St.)* INTERSECTION OF PENN AVENUE AND 24TH STREET

2. Nature of Development. Check appropriate box and provide total flows.

		Total Water Consumption (gpd)	Total Sanitary Flows (gpd)	Total Storm Flows (cfs)
☒	Residential	1,200	1,200	1.35
☐	Commercial			

3. Acreage of development 0.2 acres

4. Allegheny County Block & Lot Nos. 25 - N - 270

5. Ownership of Land Development

Name	Address
SPRING WAY CENTER LLC	2515 LIBERTY AVENUE
	PITTSBURGH PA 15222

6. Applicant (Subdivider, Developer, or Responsible Project Agent)
   Name FRANCOIS BITZ Firm/Agency Name
   Address 1640 PLEASANT HILL ROAD BADEN PA 15005
   Telephone 412-913-1544 Cell Email

B. WASTEWATER AND STORMWATER FACILITIES

Provide information on collection and treatment facilities.

1. **COLLECTION SYSTEM**
   a. Number of proposed connections (sanitary and/or storm) 1 SANITARY, 1 STORM
   b. Name of existing collection or conveyance system
   c. Name of interceptor
   d. Name of treatment facility ALCOSAN

2. **SITE PLAN (24" x 36" maximum size accepted)**
   The following information is to be submitted on a site plan of the proposed subdivision.
   a. Existing building.
   b. Lot lines and lot sizes.
   c. Remainder of tract.
   d. Orientation to North.
   e. Show proposed sewer line to the point of connection to existing collection system. Including all components (collection & conveyance lines, pumps, etc.)
   f. Existing and proposed right(s)-of-way.
   g. Existing and proposed street, roadway, etc.
   h. Water bodies and wetland areas.

Joshua J Sherman
Applicant Signature

7/22/19
Date

Project No.
(PWSA USE ONLY)

C. FALSE SWEARING STATEMENT (To be completed by individual completing the form)

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

2330 PENN AVENUE CONDOMINIUM DEVELOPMENT
Name of Land Development Project (Same as on Page 1, Section A.1)

JOSHUA J SHEARMAN
Name (Print)

ENGINEER - IN - TRAINING
Title

Joshua J Shearman
Signature

H.F. LENZ COMPANY
Address 1407 SCALP AVENUE
JOHNSTOWN, PA 15904

814 - 269 - 9300
Telephone Number

7/22/19
Date

D. CHAPTER 94 CONSISTENCY (See PA Department of Environmental Protection Current Regulations)

The following certification is to be completed by the Pittsburgh Water and Sewer Authority agent and agency responsible for completing the (DEP) Chapter 94 report for the collection, conveyance, and treatment facilities.

NOTE: The Applicant shall coordinate with the PaDEP and prepare a Sewage Facilities P.M., if required.

I/we certify that the sewerage facilities proposed to serve the new land development described in this Planning Module are in compliance with the provisions of DEP Chapter 94, Municipal Wasteload Management and have adequate capacity to serve the sewage flows to be generated by this development, without creation of an overload or projected overload.

Collection System

8/2/2019
Signature of Responsible Agent — Date
Pittsburgh Water and Sewer Authority

Conveyance and Treatment

Signature of Responsible Agent — Date
ALCOSAN

E. PLANNING AGENCY REVIEW

City of Pittsburgh Municipal Planning Agency
This development/project has been reviewed and:
☐ is consistent
☐ is not consistent (objections attached)
with programs of planning for the area of the proposed development administered by this planning agency under the municipalities Planning Code (53 P.S. § 10101-11202).

City of Pittsburgh
Department of City Planning — Zoning Administrator — Date

Stormwater Management
This development/project has been reviewed and:
☐ is consistent
☐ is not consistent (objections attached)
With programs of planning for the area of the proposed development administered by this planning agency under the current City of Pittsburgh storm water management regulations.

City of Pittsburgh
Department of City Planning — Environmental Planner — Date

County or Joint County Health Department
This development/project has been reviewed and:
☐ approval is recommended
☐ approval is not recommended (objections attached)

Allegheny County Health
Department — Signature of Responsible Agent — Date

1. PROJECT INFORMATION

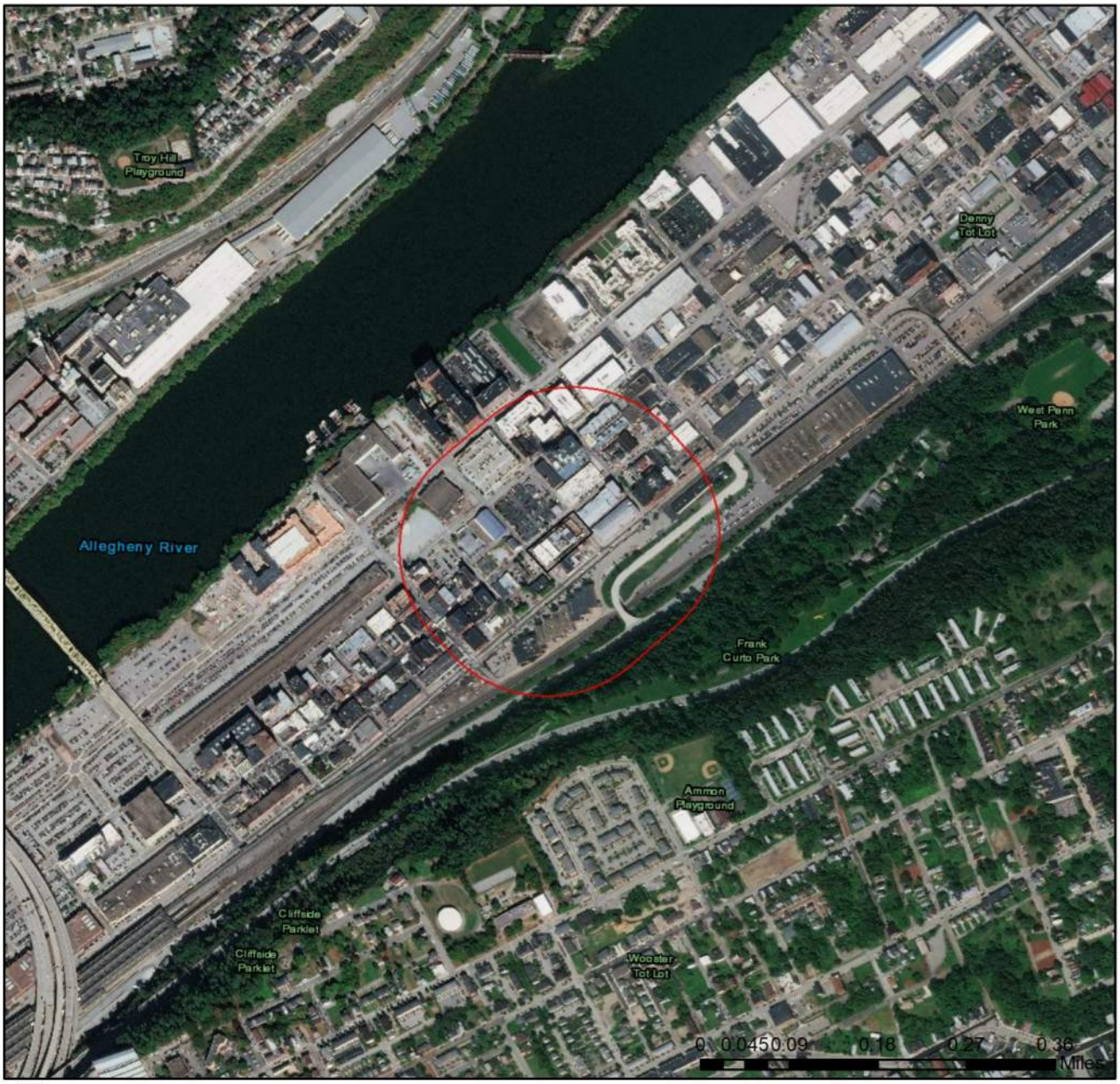
Project Name: **2330 Penn Avenue Condominiums**
Date of Review: **7/8/2019 09:42:28 AM**
Project Category: **Development, Other**
Project Area: **1.22 acres**
County(s): **Allegheny**
Township/Municipality(s): **PITTSBURGH**
ZIP Code: **15222**
Quadrangle Name(s): **PITTSBURGH EAST**
Watersheds HUC 8: **Lower Allegheny**
Watersheds HUC 12: **Allegheny River-Ohio River**
Decimal Degrees: **40.452982, -79.980883**
Degrees Minutes Seconds: **40° 27' 10.7351" N, 79° 58' 51.1799" 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	**Conservation Measure**	**No Further Review Required, See Agency Comments**
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

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.

2330 Penn Avenue Condominiums

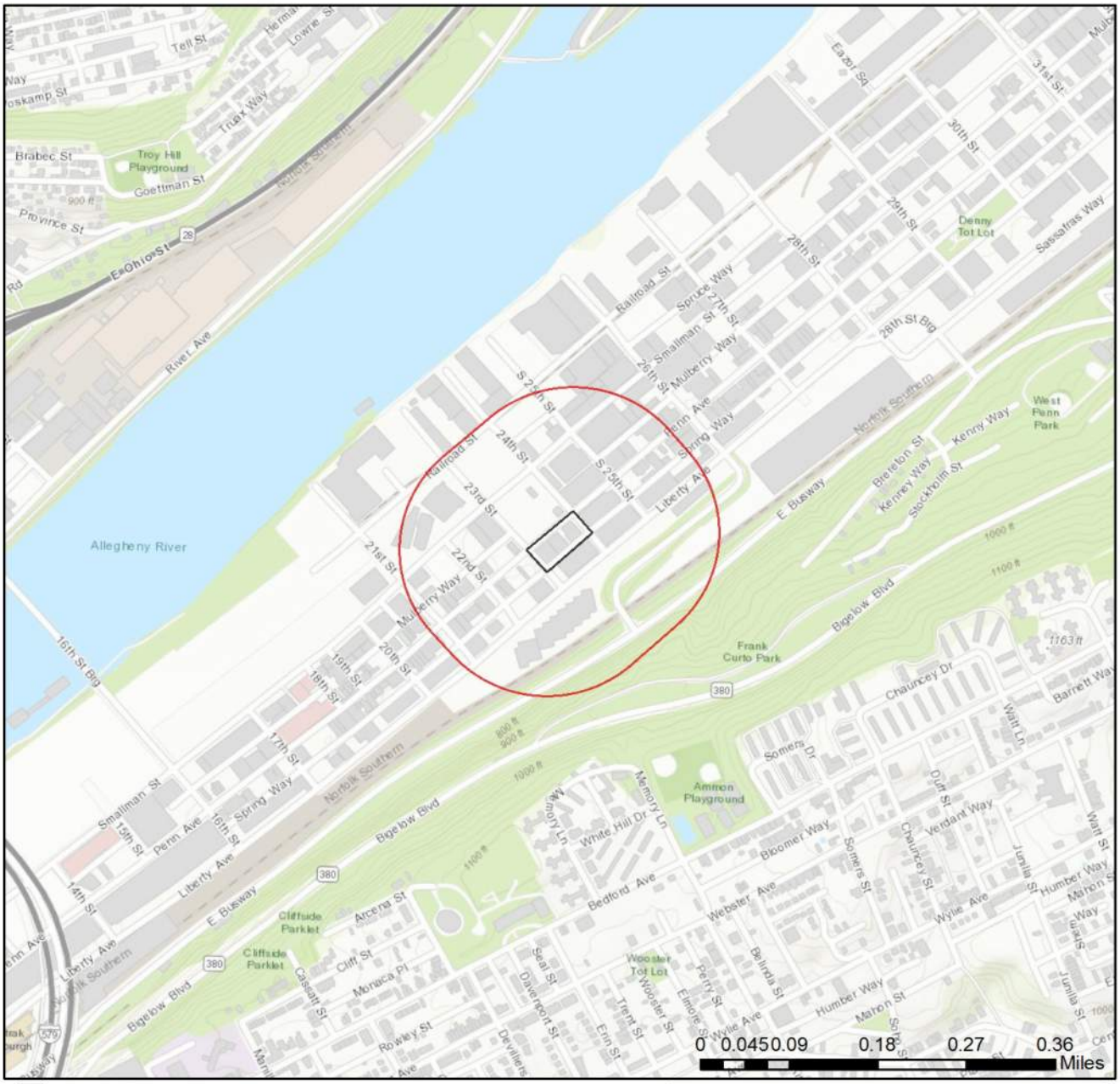


Project Boundary

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, (c) OpenStreetMap contributors, and the GIS user community

2330 Penn Avenue Condominiums



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 jursidictional 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:

Conservation Measure: The natural flow regime and water quality in this watershed are important to maintaining habitats occupied by rare fish and mussels. PFBC recommends that you take measures to maintain a natural flow regime, high water quality, and quantity. Maintenance or restoration of the riparian corridor will aid in connecting habitats and improving water quality and quantity for fish and mussels. PFBC recommends retaining (or restoring, if not already present) a riparian buffer (100 to 300 feet, if possible) on each side of the waterway (river, stream, creek). This 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 previous 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. Use stringent erosion and sedimentation controls before, during, and after project implementation to ensure that sediment and contaminants do not enter any waterway(s) (rivers, creeks, streams, tributaries) or waterbodies (lakes, ponds).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Obliquaria reflexa	Threehorn Wartyback	Special Concern Species*

U.S. Fish and Wildlife Service

RESPONSE:

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

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

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: JOSHUA J SHEARMAN
Company/Business Name: H.F. LENZ COMPANY
Address: 1407 SCALP AVE
City, State, Zip: JOHNSTOWN PA 15904
Phone: (814) 269-9300 Fax: (814) 269-9301
Email: JSHEARMAN @ HFLENZ.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.

Joshua J Shearman
applicant/project proponent signature

7/8/2019
date

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

Completeness Checklist

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

Sewage Collection and Treatment Facilities

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

Municipal Action

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

_____
Signature of Municipal Official

_____
Date submittal determined complete

INFORMATION TAKEN FROM UNITED STATES
GEOLOGICAL SURVEY 7.5 MINUTE SERIES
QUAD SHEET – PITTSBURGH EAST, PA – 2010

SCALE: 1" = 2000'

LOCATION MAP

Flush It!

See where your wastewater goes when you flush!

About

A project by:

3 RIVERS PROUD

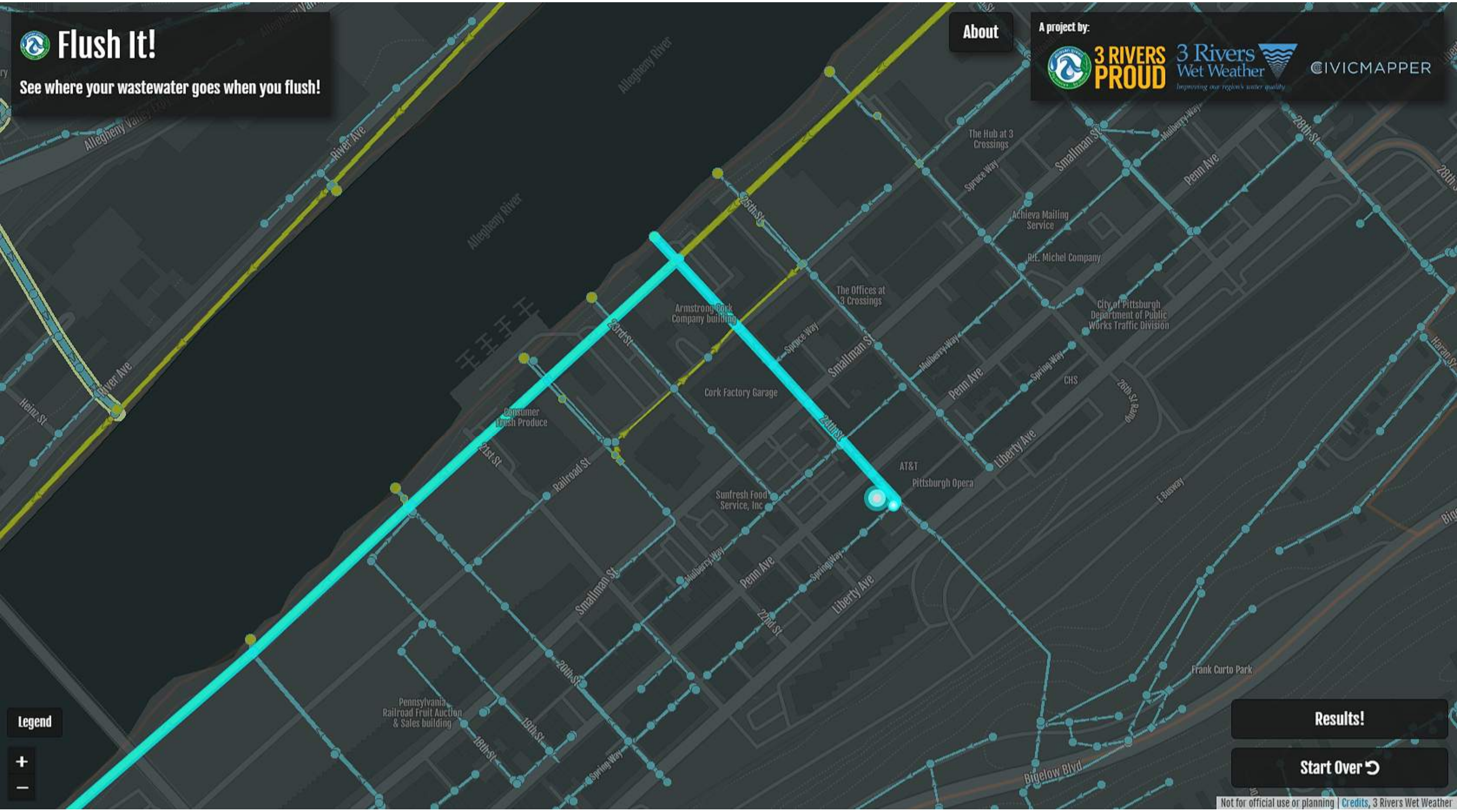
3 Rivers Wet Weather
Improving our region's water quality

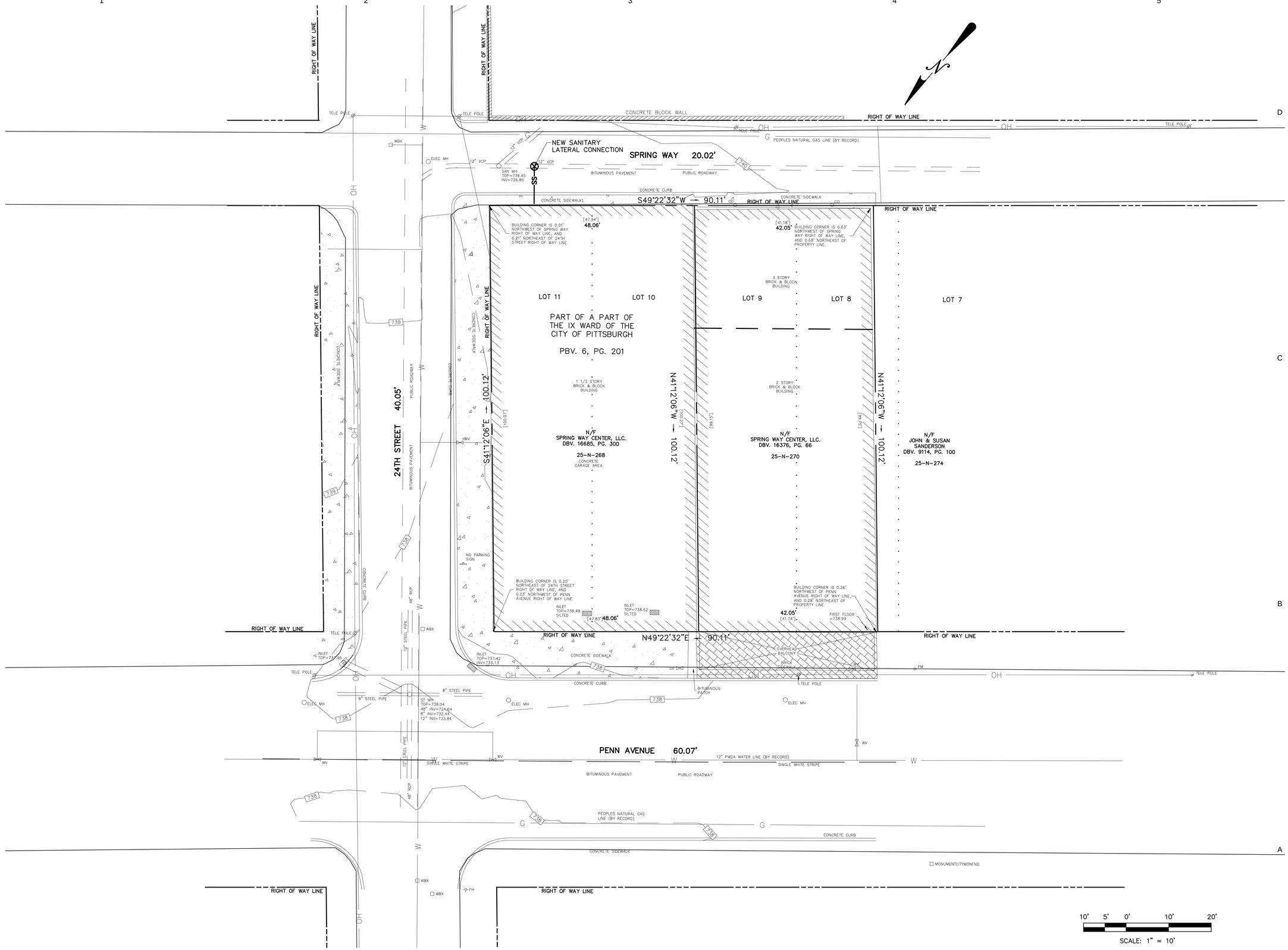
CIVICMAPPER

Legend

Results!

Start Over


Flush It!
See where your wastewater goes when you flush!
About
A project by:
3 RIVERS PROUD
3 Rivers Wet Weather
Improving our region's water quality
CIVICMAPPER
Allegheny River
River Ave
Allegheny Valley Expy
Heinz St
25th St
The Hub at 3 Crossings
Spruce Way
Smallman St
Mulberry Way
Penn Ave
28th St
Achieva Mailing Service
R.E. Michel Company
City of Pittsburgh Department of Public Works Traffic Division
Armstrong Cork Company building
The Offices at 3 Crossings
23rd St
Cork Factory Garage
Spring Way
CHS
26th St Ramp
Consumer Fresh Produce
21st St
Railroad St
24th St
AT&T
Pittsburgh Opera
Liberty Ave
Sunfresh Food Service, Inc
E Busway
22nd St
Frank Curto Park
20th St
Pennsylvania Railroad Fruit Auction & Sales building
19th St
18th St
Bigelow Blvd
Legend
Results!
Start Over
Not for official use or planning | Credits, 3 Rivers Wet Weather



H.F. LENZ COMPANY
Engineering
1407 Scalp Avenue
Johnstown, PA 15904
Phone: 814-269-9300
FAX: 814-269-9301
www.hflenz.com

Consultants:

Seal:

Seal:

Project Identification:

2330 Penn Avenue
Pittsburgh, Pa.

No.:	Date:	Description:

Sheet Title:
SANITARY SEWER LATERAL CONNECTION PLAN

Project No.:	2017-0323.01
Cadd File:	tap plan-ss01.dwg
Drawn By:	REA
Checked By:	BJC
Date:	10/04/2017
Copyright:	© 2017 H.F. LENZ COMPANY

Drawing Number
SS-1
Sheet 0 of 00

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