



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code #:

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

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

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

Project Name
East Jefferson Townhomes

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

1. Date plan received by municipal planning agency February 24, 2021
2. Date review completed by agency March 8, 2021

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

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

SECTION C. AGENCY REVIEW (continued)

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. Is this plan consistent with the municipal Official Sewage Facilities Plan? If no, describe the inconsistencies _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
<input type="checkbox"/>	<input type="checkbox"/>	If yes, is the proposed waiver consistent with applicable ordinances? If no, describe the inconsistencies _____
17. Name, title and signature of planning agency staff member completing this section: Name: <u>Martina Wolf Battistone</u> Title: <u>Senior Environmental Planner</u> Signature: <u><i>Martina Wolf Battistone</i></u> Date: <u>March 8, 2021</u> Name of Municipal Planning Agency: <u>City of Pittsburgh Department of City Planning</u> Address <u>200 Ross Street 4th Floor Pittsburgh, PA 15219</u> Telephone Number: <u>(412) 255-2516</u>		

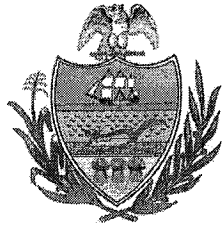
SECTION D. ADDITIONAL COMMENTS (See Section D of instructions)

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

The planning agency must complete this component within 60 days.

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

COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

RECEIVED
MAY 17 2021

May 12, 2021

Adam Ballish, EIT
KU Resources, Inc.
22 South Linden Street
Duquesne, PA 15110

BY:

RE: SEWAGE FACILITIES PLANNING MODULE; ALLEGHENY COUNTY
East Jefferson Street Townhomes, City of Pittsburgh

Dear Mr. Ballish:

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 May 10, 2021. The project proposes the following:

Project Description:	East Jefferson Street Townhomes. Proposing the construction of a 3-story building housing three (3) individual townhomes with each of the three units containing three (3) bedrooms located at 238, 240, & 242 East Jefferson Street in the City of Pittsburgh, Allegheny County.
Sewage Flow:	1,200 GPD
Conveyance:	The flow from this site will be conveyed to the Pittsburgh Water and Sewer Authority (PWSA) collection system to ALCOSAN POC A-48 to the Allegheny River interceptor and then to the ALCOSAN Treatment Plant at Woods Run.
Sewer's Owner:	PWSA (collection) and ALCOSAN (interceptor)
Name of Sewage Treatment Plant:	ALCOSAN

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



DEBRA BOGEN, MD, FAAP, FABM, 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.ALLEGHENYCOUNTY.US/HEALTHDEPARTMENT

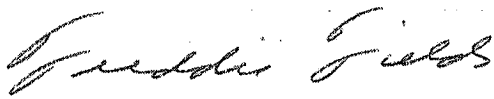


Mr. Adam Ballish, EIT
May 12, 2021
Page 2

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

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

Sincerely,



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

FF/cb
Enclosure

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



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

East Jefferson Street Townhomes

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

1. Date plan received by county or joint county health department May 10, 2021Agency name Allegheny County Health Department (ACHD)2. Date review completed by agency May 12, 2021

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 wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?
If yes, describe _____
3. Is there any known groundwater degradation in the area of this proposal?
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:

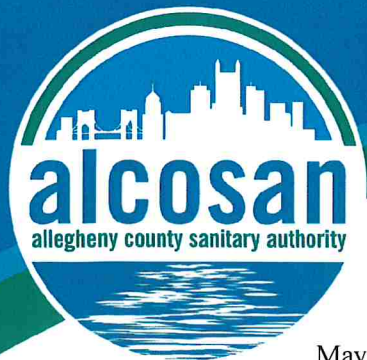
Name: Freddie FieldsTitle: Environmental Health Engineer IIISignature: *Freddie Fields*Date: May 12, 2021Name of County Health Department: ACHDAddress: 3901 Penn Avenue, Building #5, Pittsburgh, PA 15224-1318Telephone Number: 412-578-8046

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.



RECEIVED
MAY - 6 2021

May 4, 2021

BY:

Members of the Board

- Corey O'Connor
Chair Person
- Rep. Harry Readshaw
- Sylvia C. Wilson
- Shannah Tharp-Gilliam, Ph.D.
- Jack Shea
- John Weinstein

- Arletta Scott Williams
Executive Director
- Karen Fantoni, CPA, CGMA
*Director
Finance & Administration*
- Jan M. Oliver
*Director
Regional Conveyance*
- Douglas A. Jackson, P.E.
*Director
Operations & Maintenance*
- Kimberly N. Kennedy, P.E.
*Director
Engineering & Construction*
- Michelle M. Buys, P.E.
*Director
Environmental Compliance*
- Jeanne K. Clark
*Director
Governmental Affairs*
- Joseph Vallarian
*Director
Communications*

Robert L. Smith
KU Resources, Inc.
22 South Linden Street
Duquesne, PA 15110

**Re: East Jefferson Street Townhomes
238, 240 & 242 West Jefferson Street, Pittsburgh, PA 15212
PA DEP Sewage Facilities Planning Module
ALCOSAN Regulator Structure A-48-00**

Dear Mr. Smith:

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 1,200 GPD in the ALCOSAN Allegheny River Interceptor and Woods Run Treatment Plant.

The capacity of the ALCOSAN regulator at A-48-00 is approximately 23.3 MGD. The estimated peak dry weather flow is approximately 4.78 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 during wet weather periods. This limitation will be addressed as ALCOSAN implements its Clean Water Plan.

ALCOSAN has completed and signed the sections required in the Component 3 module and requests that this letter be made part of the planning module submission. If you have any questions regarding this matter, please contact me at 412-732-8046.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY

Joseph Sparbanie

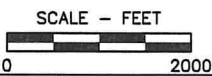
Joseph A. Sparbanie, P.E.
Civil Engineer

Attachment

- cc: T. Dean (w/o attachment) B. King/ PWSA (w/o attachment)
- D. Thornton (w/o attachment) T. Flanagan/ PaDEP (w/o attachment)
- M. Lichte (w/o attachment) F. Fields/ ACHD (w/o attachment)



REFERENCE:
 USGS 7.5-MIN TOPOGRAPHIC
 QUADRANGLE PITTSBURGH WEST
 PENNSYLVANIA DATED 2019



REVISION	DATE	DESCRIPTION
APPROVED		
CHECKED		
DRAWN	APB	
CAD FILE NO.	Site Loca	
PROJECT NO.	KBDG.19492EJS	



KU Resources, Inc.
 22 South Linden Street
 Duquesne, PA 15110
 412.469.9331
 412.469.9336 fax
www.kuresources.com

FIGURE 1
 SITE LOCATION MAP
 EAST JEFFERSON TOWNHOMES
 CITY OF PITTSBURGH
 ALLEGHENY COUNTY, PENNSYLVANIA
 PREPARED FOR
 LONG BOW DEVELOPMENT GROUP
 PITTSBURGH, PENNSYLVANIA

PROJECT NARRATIVE

**EAST JEFFERSON ST TOWNHOMES
238, 240, & 242 W JEFFERSON STREET
25th WARD, CITY OF PITTSBURGH
ALLEGHENY COUNTY, PENNSYLVANIA**

Prepared for:
**LONG BOW DEVELOPMENT
2424 MARBURY ROAD
PITTSBURGH, PENNSYLVANIA 15221**

Prepared by:
**KU RESOURCES, INC.
22 SOUTH LINDEN STREET
DUQUESNE, PENNSYLVANIA 15110**

APRIL 2021

DESCRIPTION OF PROPOSED DEVELOPMENT

Long Bow Development, in partnership with the K Bennet Development Group, is developing a group of three (3) parcels in the Central Northside Neighborhood of the City of Pittsburgh, 25th Ward. Currently the parcels are identified as Lots 23-F-106, 107, and 108 though a simple lot line revision has been approved and is in the process of being recorded which may revise or change the Lot and Block numbering for these three parcels. PWSA will be provided the approved plan upon recording.

The proposed development will include construction of a 3-story building housing three (3) individual Townhomes. The site is located at 238-242 East Jefferson St. in the Central Northside neighborhood of the City of Pittsburgh. Each of the three units will contain three (3) bedrooms.

EXISTING SANITARY FLOWS

A simple lot line revision was performed on the subject lots recently and as such flows for these lots have not been accounted for prior to 1973.

KU Resources Survey Crew obtained 5 flow depth measurements from MH023F100 on 03/09/21 between the hours of 7 AM and 8 AM and are as follows:
7am – 0.12', 7:15am – 0.22', 7:30am – 0.18', 7:45 am – 0.19', 8am – 0.21'.

Maximum flow depth observed was 0.22', which is the value used for design calculations. Existing sewer slope used for design calculations was obtained from the Most Limited Capacity Spreadsheet provided by PWSA in the Water and Sewer Use Approval Letter. Slope (from MH023F099 to MH023F100) = rise/run = $(827.58' - 822.94')/43.14' = 10.76\%$.

PROPOSED SANITARY FLOWS

All sanitary lines will connect into the existing 18-inch combination sewer line in East Jefferson Street.

The daily sanitary flow estimate was determined by applying PA DEP Code Chapter 73.17 Sanitary Sewage Flow Estimates for the following types of establishments:

- 3-Bedroom Units – 400 gpd each = 1,200 gpd (3 EDUs)

Please refer to architectural drawings for the proposed floor plans.

Effluent will ultimately be sent to the Allegheny County Sanitation Authority (ALCOSAN). See the attached Pittsburgh Water and Sewer Authority (PWSA) Sewer System map with the route to ALCOSAN highlighted.

Based on a comparison of previous and proposed flows, a PADEP Planning Module is anticipated to be required.

STORMWATER CONVEYANCE

Storm water management is required on the site due to the City of Pittsburgh's Stormwater Ordinance and applicable PADEP requirements indicating that post-development flows will not exceed pre-development flows. Additional stormwater runoff created by the development will be managed on site by a subsurface stormwater detention system beneath the parking lot. Stormwater will be routed to the subsurface stormwater detention system through a system of yard drains, trench drains, and roof leader connections. The proposed systems are designed to effectively manage the increase in stormwater runoff due to the development's increase in impervious surfaces. Stormwater will be conveyed to the existing PWSA storm sewer located in Alexander Street per the Tap-in Plan Drawings.

ALTERNATIVE SEWAGE FACILITIES ANALYSIS

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

ALCOSAN Treatment Facility. Credit for previous flows have not been considered, therefore there are 3 new EDUs.

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

The adjacent land uses are a mix of residential and commercial. Sanitary flows from the existing location ultimately flow into the same interceptor.

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

No potential for combined public/private project.

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

Public sewers (ALCOSAN).

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

ALCOSAN's Wet Weather Plan (WWP).

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

None.

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

NA

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

Public sewers (ALCOSAN).

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

NA



240 E Jefferson St, Pittsburgh X
 Show search results for 240 E Je...

Network Trace	Input	Output
Upstream	# of Structures: 5 Total Length: 821.29 ft Inch-Miles: 2.39	
Downstream	# of Structures: 68 Total Length: 25174.46 ft Inch-Miles: 475.96	
<input checked="" type="checkbox"/>	Upstream Pipes (5)	
<input checked="" type="checkbox"/>	Downstream Pipes (71)	
<input checked="" type="checkbox"/>	Downstream Structures (66)	
<input checked="" type="checkbox"/>	Upstream Structures (5)	

Export To CSV

Form



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

Code No.

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)

- Project Name East Jefferson Street Townhomes
- Brief Project Description Development of 3 lots into 3 individual townhomes

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

Municipality Name	County	City	Boro	Twp
City of Pittsburgh - 25 th Ward	Allegheny	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Battistone	Martina			Senior Environmental Planner
Additional Individual Last Name	First Name	MI	Suffix	Title
Municipality Mailing Address Line 1	Mailing Address Line 2			
Department of City Planning	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				



KU Resources, Inc.

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April 28, 2021

Mr. Michael Lichte
ALCOSAN
3300 Preble Avenue
Pittsburgh, PA 15233

**RE: Pennsylvania Department of Environmental Protection
Sewage Facilities Planning Module (Re-submission)
East Jefferson Street Townhomes
25th Ward City of Pittsburgh, Allegheny County, Pennsylvania**

Dear Mr. Lichte:

On behalf of Longbow Development, KU Resources, Inc. is resubmitting the attached PADEP Sewage Facilities Planning Module application package for the proposed development of 3 parcels (23-F-106, 23-F-107 & 23-F-108) into three 3-story townhomes. Page 10 of the SFPM Component 3, Section Q (False Sealing Statement), has been signed.

The enclosed application includes the following:

- Project Narrative
- Site Location Map
- 3 Rivers Wet Weather Map
- Dry Weather Flow Calculation Brief
- Sewage Facilities Planning Module, Component 3
- Tap Plan
- PNDI Environmental Review Receipt
- Proof of Ownership - Allegheny County Tax Maps
- Site survey
- Water and Sewer Use Approval Letter
- Water and Sewer Use Preliminary Planning Determination
- Water and Sewer Availability Letter

RECEIVED
4/29/21

Please let us know if you require any more information. Should you have any questions or concerns, please contact Adam Ballish at 412-469-9331 x1080 or at aballish@kuresources.com.

Respectfully submitted,



Adam P. Ballish, E.I.T.
Project Engineer

APB:cak

Enclosures



C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

East Jefferson Street Townhomes

Site Location Line 1 238, 240 & 242 West Jefferson Street		Site Location Line 2		
Site Location Last Line -- City Pittsburgh	State PA	ZIP+4 15212	Latitude 40.459151	Longitude -80.011373
Detailed Written Directions to Site				

Description of Site Site is currently a vacant lot

Site Contact (Developer/Owner)

Last Name Nicols	First Name Cameron	MI	Suffix	Phone 814-673-0370	Ext.
Site Contact Title		Site Contact Firm (if none, leave blank) Long Bow Development			
FAX		Email cameronnicols@gmail.com			
Mailing Address Line 1 5150 Penn Ave		Mailing Address Line 2			
Mailing Address Last Line -- City Pittsburgh	State PA	ZIP+4 15224			

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

Last Name Smith	First Name Robert	MI L	Suffix
Title	Consulting Firm Name KU Resources, Inc		
Project Manager			
Mailing Address Line 1 22 South Linden Street	Mailing Address Line 2		
Address Last Line -- City Duquesne	State PA	ZIP+4 15110	Country USA
Email bsmith@kuresources.com	Area Code + Phone 412-469-9331	Ext.	Area Code + FAX

E. AVAILABILITY OF DRINKING WATER SUPPLY

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

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

If existing public water supply is to be used, provide the name of the water company and attach documentation from the water company stating that it will serve the project.

Name of water company: Pittsburgh Water and Sewer Authority

F. PROJECT NARRATIVE (See Section F of instructions)

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

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

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

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

1. COLLECTION SYSTEM

a. Check appropriate box concerning collection system

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

Clean Streams Law Permit Number _____

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. EDU's 3

Connections 3

Name of:

existing collection or conveyance system W Jefferson Street - 15" VCP

owner Pittsburgh Water and Sewer Authority

existing interceptor Allegheny River

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 Woods Run WWTP

NPDES Permit Number for existing facility PA0025984

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 permittee 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 Joseph A. Sparbanc, P.E.

Agent Signature [Signature] Date 5-4-21

(Also see Section I. 4.)

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)

3. PLOT PLAN

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

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

4. WETLAND PROTECTION

YES NO

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

5. PRIME AGRICULTURAL LAND PROTECTION

YES NO

- Will the project involve the disturbance of prime agricultural lands?
If yes, coordinate with local officials to resolve any conflicts with the local prime agricultural land protection program. The project must be consistent with such municipal programs before the sewage facilities planning module package may be submitted to DEP.
If no, prime agricultural land protection is not a factor to this project.
- Have prime agricultural land protection issues been settled?

6. HISTORIC PRESERVATION ACT

YES NO

- Sufficient documentation is attached to confirm that this project is consistent with DEP Technical Guidance 012-0700-001 *Implementation of the PA State History Code* (available online at the DEP website at www.dep.state.pa.us, select "subject" then select "technical guidance"). As a minimum this includes copies of the completed Cultural Resources Notice

(CRN), a return receipt for its submission to the PHMC and the PHMC review letter.

7. PROTECTION OF RARE, ENDANGERED OR THREATENED SPECIES

Check one:

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

Applicant or Consultant Initials _____.

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

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

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

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

1. Waters designated for Special Protection

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

2. Pennsylvania Waters Designated As Impaired

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

3. Interstate and International Waters

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

4. Tributaries To The Chesapeake Bay

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

Name of Permittee Agency, Authority, Municipality _____

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

See *Special Instructions* (Form 3800-FM-BPNPSM0353-1) for additional information on Chesapeake Bay watershed requirements.

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

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

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

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

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

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

	a. Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd) (2 years for P.S.)	
	Average	Peak	Average	Peak	Average	Peak
Collection	870814	3047848	571411	1999938	600341	2101195
Conveyance		23,300,000	4,420,000	4,780,000	4,460,000	4,830,000
Treatment		250,000,000	190,200,000	250,000,000	219,021,000	295,000,000

3. Collection and Conveyance Facilities

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

YES NO

- a. YES NO This project proposes sewer extensions or tap-ins. Will these actions create a hydraulic overload within five years on any existing collection or conveyance facilities that are part of the system?

If yes, this sewage facilities planning module will not be accepted for review by the municipality, delegated local agency and/or DEP until all inconsistencies with Chapter 94 are resolved or unless there is an approved Corrective Action Plan (CAP) granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the module package.

If no, a representative of the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities must sign below to indicate that the collection and conveyance facilities have adequate capacity and are able to provide service to the proposed development in accordance with both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not affect that status.

b. Collection System

Name of Agency, Authority, Municipality Pittsburgh Water and Sewer Authority

Name of Responsible Agent Barry King, PE, PMP / Director of E&C

Agent Signature  Date 4/19/2021

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Joseph A. Sparanice, P.E.

Agent Signature [Signature]

Date 5-4-21

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. YES NO 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 Joseph A. Sparanice, P.E.

Agent Signature [Signature]

Date 5-4-21

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 purchase the necessary credits and describe the assurance that these credits and offsets will be available for the remaining design life of the non-municipal sewage facility;

(For completion by non-municipal facility agent)

4. Collection and Conveyance Facilities

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

Yes No

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

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

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

- b. Collection System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

- c. Conveyance System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

5. Treatment Facility

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

Yes No

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

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

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

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

(For completion by the municipality)

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

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

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

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

Yes No


1. Does the project propose the construction of a sewage treatment facility ?
2. Will the project change the flow at an existing sewage treatment facility by more than 50,000 gallons per day?
3. Will the project result in a public expenditure for the sewage facilities portion of the project in excess of \$100,000?
4. Will the project lead to a major modification of the existing municipal administrative organizations within the municipal government?
5. Will the project require the establishment of *new* municipal administrative organizations within the municipal government?
6. Will the project result in a subdivision of 50 lots or more? (onlot sewage disposal only)
7. Does the project involve a major change in established growth projections?
8. Does the project involve a different land use pattern than that established in the municipality's Official Sewage Plan?

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

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

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

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

Adam Ballish		04/28/21
Name (Print)	Signature	
Engineer		03/11/21
Title		Date
22 South Linden Street, Duquesne PA 15110		412-469-9331
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 \$_____ 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.

$$\#3 \text{ _____ Lots (or EDUs) X } \$50.00 = \$ \underline{150}$$

The fee is based upon:

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

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

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

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

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

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

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

The fee is based upon:

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

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

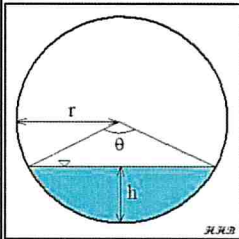
\$ 1,500 per submittal (non-municipal)
\$ 500 per submittal (municipal)

Sewage Facilities Planning Module
Chapter 94 Consistency Determination
Hydraulic Calculations Spreadsheet for Average Present Flow Measurements

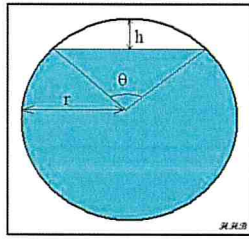
PROJECT NAME: East Jefferson Street Townhomes
DATE: April 7, 2021

LEGEND: Input Data Output Data

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

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

Proposed Project Flows		
Variable	Value	Units
Q _p	1,200	gpd

Variable	Value	Units
Material	VCP	
n	0.015	unitless
S	0.108	ft/ft
h	0.220	ft
D	0.75	ft
P.F.	3.5	unitless

Section C: Calculations for Design and/or Permitted Capacities

Variable	Description	Definition
Q _{d, avg}	Design Capacity, Average	= full pipe flow conditions / peaking factor
Q _{d, peak}	Design Capacity, Peak	full pipe flow conditions

Design Capacity, Average		
Variable	Value	Unit

Design Capacity, Peak		
Variable	Value	Unit

$Q_{d, avg}$	870,814	gpd
--------------	---------	-----

D	0.750	ft
r	0.375	ft
A	0.442	ft ²
P	2.356	ft
R	0.188	ft
$Q_{d, peak}$	5	cfs
$Q_{d, peak}$	3,047,848	gpd

Section D: Calculations for Present Flows

Variable	Description	Definition
$Q_{ex, avg}$	Present Flows, Average	existing flow conditions per site investigations
$Q_{ex, peak}$	Present Flows, Peak	= existing flow conditions x peaking factor

Present Flows, Average		
Variable	Value	Unit
D	0.750	ft
r	0.375	ft
θ	2.29	rad
h/D	0.293333333	ft/ft
A	0.11	ft ²
P	0.86	ft
R	0.126	ft
$Q_{ex, avg}$	1	cfs
$Q_{ex, avg}$	571,411	gpd

Present Flows, Peak		
Variable	Value	Unit
$Q_{ex, peak}$	1,999,938	gpd

Section E: Calculations for Projected Flows in Five (5) Years

Variable	Description	Definition
$Q_{proj, avg}$	Projected Flows in Five (5) Years, Average	= $Q_{proj, peak} \div P.F.$
$Q_{proj, peak}$	Projected Flows in Five (5) Years, Peak	= $(Q_{ex, peak} + Q_p) \times 1.05$

Projected Flow Calculations		
Variable	Value	Unit
$Q_{proj, avg}$	600,341	gpd
$Q_{proj, peak}$	2,101,195	gpd

Section F: Results

Variable	gpd
$Q_{d, avg}$	870,814
$Q_{d, peak}$	3,047,848
$Q_{ex, avg}$	571,411
$Q_{ex, peak}$	1,999,938
$Q_{proj, avg}$	600,341
$Q_{proj, peak}$	2,101,195

KU Resources Survey Crew obtained 5 flow depth measurements from MH023F100 on 03/09/21 between the hours of 7 AM and 8 AM and are as follows:
 7am – 0.12', 7:15am – 0.22', 7:30am – 0.18', 7:45 am – 0.19', 8am – 0.21'.
 Maximum flow depth observed was 0.22', which is the value used for design calculations.



1. PROJECT INFORMATION

Project Name: **East Jefferson Street Townhomes**
Date of Review: **4/21/2021 12:48:59 PM**
Project Category: **Development, Other**
Project Area: **0.31 acres**
County(s): **Allegheny**
Township/Municipality(s): **PITTSBURGH**
ZIP Code:
Quadrangle Name(s): **PITTSBURGH WEST**
Watersheds HUC 8: **Lower Allegheny**
Watersheds HUC 12: **Allegheny River-Ohio River**
Decimal Degrees: **40.459245, -80.011397**
Degrees Minutes Seconds: **40° 27' 33.2803" N, 80° 0' 41.292" W**

2. SEARCH RESULTS

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

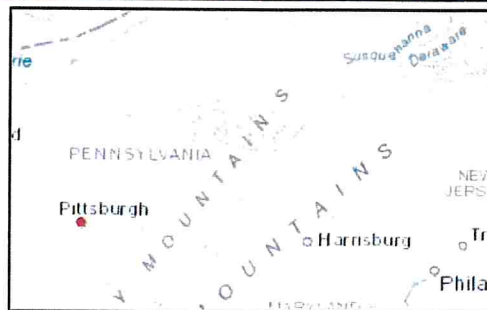
As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with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

East Jefferson Street Townhomes

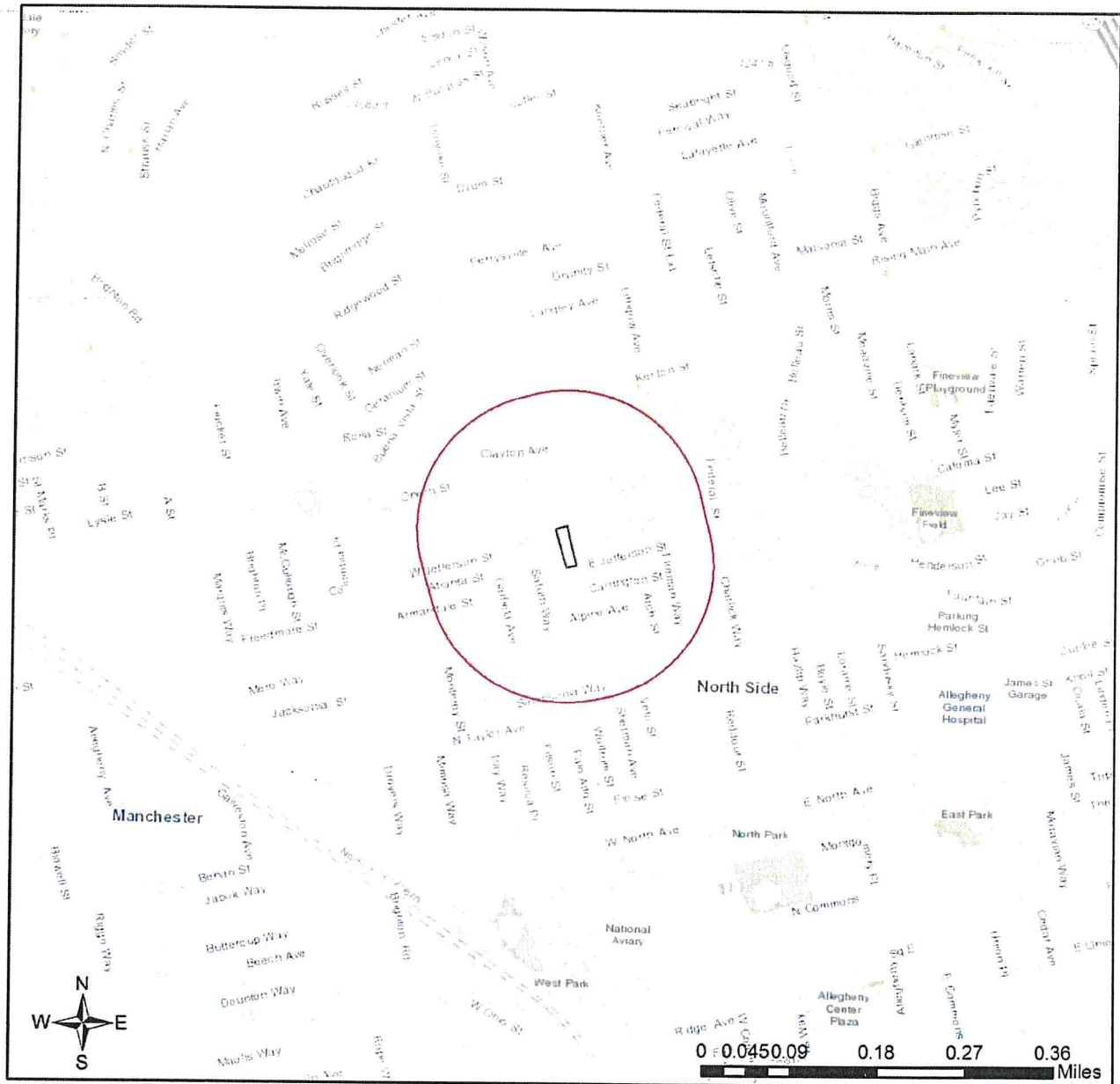


- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

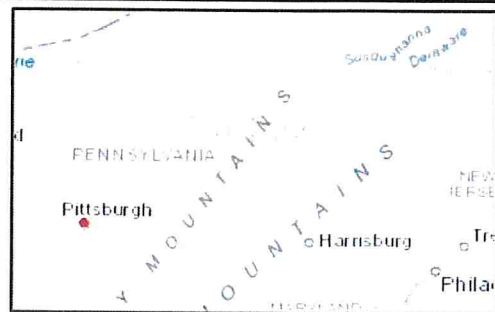


East Jefferson Street Townhomes



- Project Boundary
- Buffered Project Boundary

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



RESPONSE TO QUESTION(S) ASKED

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

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

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

Your answer is: No

3. AGENCY COMMENTS

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

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

PA Game Commission

RESPONSE:

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

PA Department of Conservation and Natural Resources

RESPONSE:

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

PA Fish and Boat Commission

RESPONSE:

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

U.S. Fish and Wildlife Service

RESPONSE:

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

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. 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
Email: IR1_ESPenn@fws.gov
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: Adam Ballish
Company/Business Name: KU Resources, Inc.
Address: 22 South Linden Street
City, State, Zip: Duquesne PA 15110
Phone: (412) 469-9331 Fax: ()
Email: aballish@kuresources.com

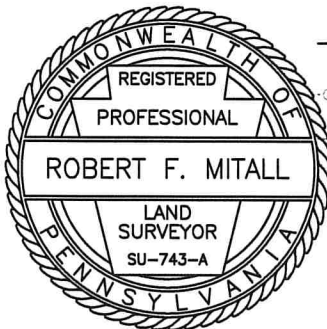
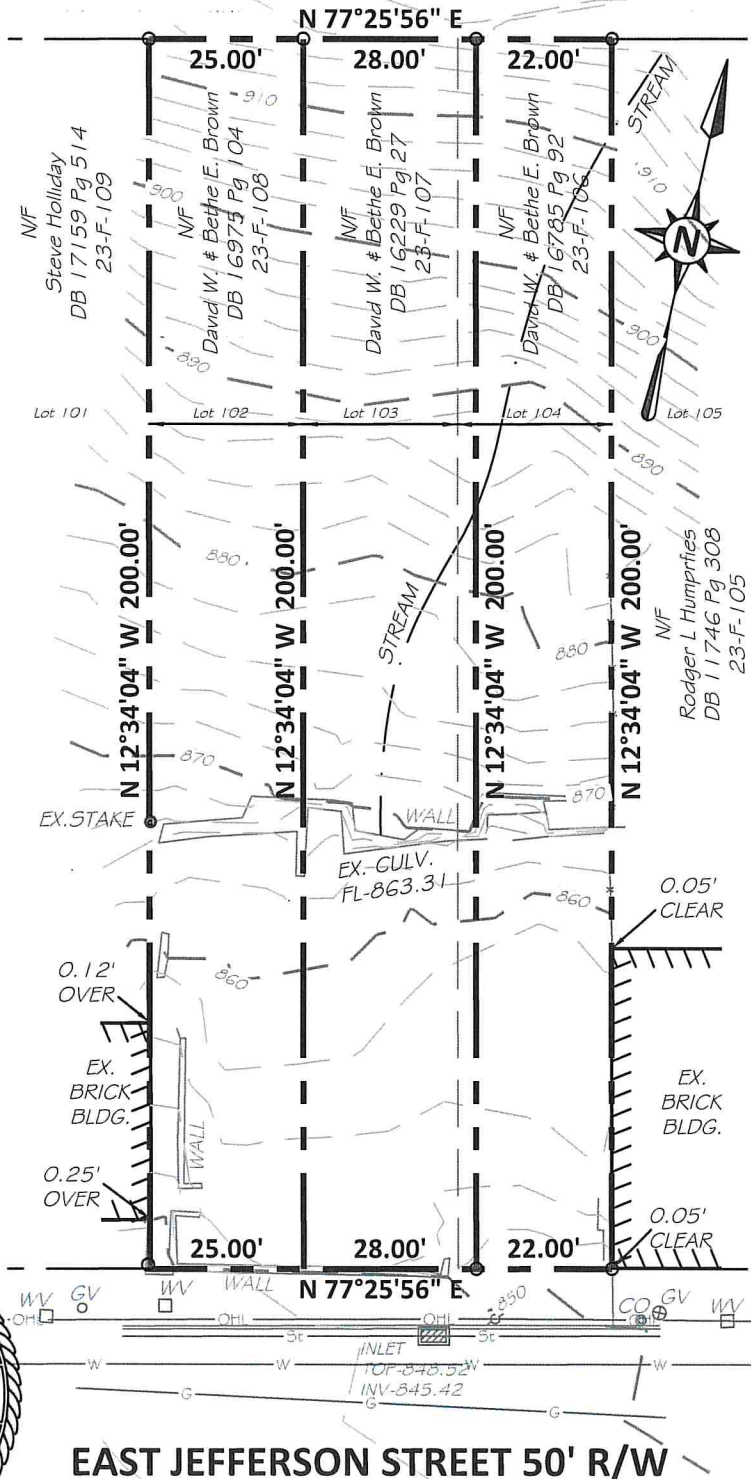
8. CERTIFICATION

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.

Adam Ballish
applicant/project proponent signature

07/21/21
date

STILES WAY 25' R/W



EAST JEFFERSON STREET 50' R/W

- NOTES:**
1. The underground utilities shown hereon have not been physically located by the surveyor, however, the information was obtained from existing plans And PA One Call paint markings. KU Resources Inc., makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The PA One Call noted upon this plan may be ignored by the utility or result in an incomplete response therefore KU Resources Inc., does not warrant that the underground utilities shown are a complete and full representation of existing utilities in the survey area, or are shown in the exact location indicated although they are shown as accurately as possible from the information available.
 2. Basis of Elevation is NAVD 88.
 3. Bearing shown hereon are state plane meridian.

Mitall Division of KU Resources, Inc. 117 SAGAMORE HILL ROAD TEL: (724) 327-7474 PITTSBURGH, PA 15239 FAX: (724) 325-2734	PLAN FOR: K. BENNETT DEVELOPMENT GROUP		Scale: 1"=30' Date: 9-9-2019	Job # 19-492	
	LOTS 102-104	PBV-1 PG-99	25th WARD CITY OF PITTSBURGH	Drafted: MTC	Drawing # EX1
	GEORGE LEDLIE PLAN OF LOTS		ALLEGHENY COUNTY, PA	Checked: WTS Approved: DRH	F.B. # 121 Pg 53
	Approved: DRH				

February 11, 2021

Bob Smith
KU Resources
22 South Linden Street
Duquesne, PA 15110

Subject: Water and Sewer (W&S) Use Approval
Project Name: East Jefferson Street Townhouses (Project)
PWSA Project No.: 20014.24

Dear Bob:

The W&S Use Application for the Project has been approved, as summarized below:

Type of Flow	Sanitary, gpd	Water, gpd	Storm, cfs
<i>Project Flow</i>	1,200	1,200	0.24
<i>Existing Flow</i>	0	0	0.32
<i>Net Flow</i>	1,200	1,200	

The PWSA shall request the Department of Environmental Protection (DEP) to issue a Final Determination on the Need for Sewage Planning. If sewage planning is required, we have enclosed for your use the location of the most limited capacity sewer (MLCS). The hydraulic capacity of the MLCS shall be determined via the following method:

- Peak Flow Depth Measurements (Sanitary Net Flow \leq 2,000 gpd)
- Flow Monitoring (Sanitary Net Flow $>$ 2,000 gpd)

Our review was based on information provided by others 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 x9996 or mbridges@pgh2o.com.

Sincerely,



Digitally signed by Midori Bridges
DN: cn=Midori Bridges, c=US,
o=PWSA, ou=Engineering,
email=mbridges@pgh2o.com
Reason: I am approving this document
Date: 2021.02.11 16:39:24 -05'00'

Midori Bridges
Cooperative Education Intern

Enclosure(s)

cc: Barry King, PE, PMP – PWSA (via email)
Kate Mechler, PE – PWSA (via email)
Robert Herring, PE, PMP – PWSA (via email)
eBuilder – Filing System (via email)



Water and Sewer (W/S) Use Application Form

Instructions The complete W/S Use Application shall be uploaded via e-builder. To obtain an e-builder project folder, please make a request on our website at www.pgh2o.com/permits. In addition, please refer to the Developer’s Manual for detailed information on application requirements.

Requirements Application Fee Application Form Narrative
 Flow Calculations Site Plan Floor Plan


Project Info
Project Name: East Jefferson St Townhouses
Address: 238, 240, 242 East Jefferson St
Pittsburgh, PA 15212

Is the Project located on a lot created prior to May 15, 1972? YES NO
Owner/Developer
Name: Cameron Nicols
Address: 2424 Marbury Road
Pittsburgh, PA 19221
Email: Cameron Nicols <cameronnicols@gmail.com>,Kris Bennett <kbennett1201@gmail.com>
Phone Number: 412-979-4494

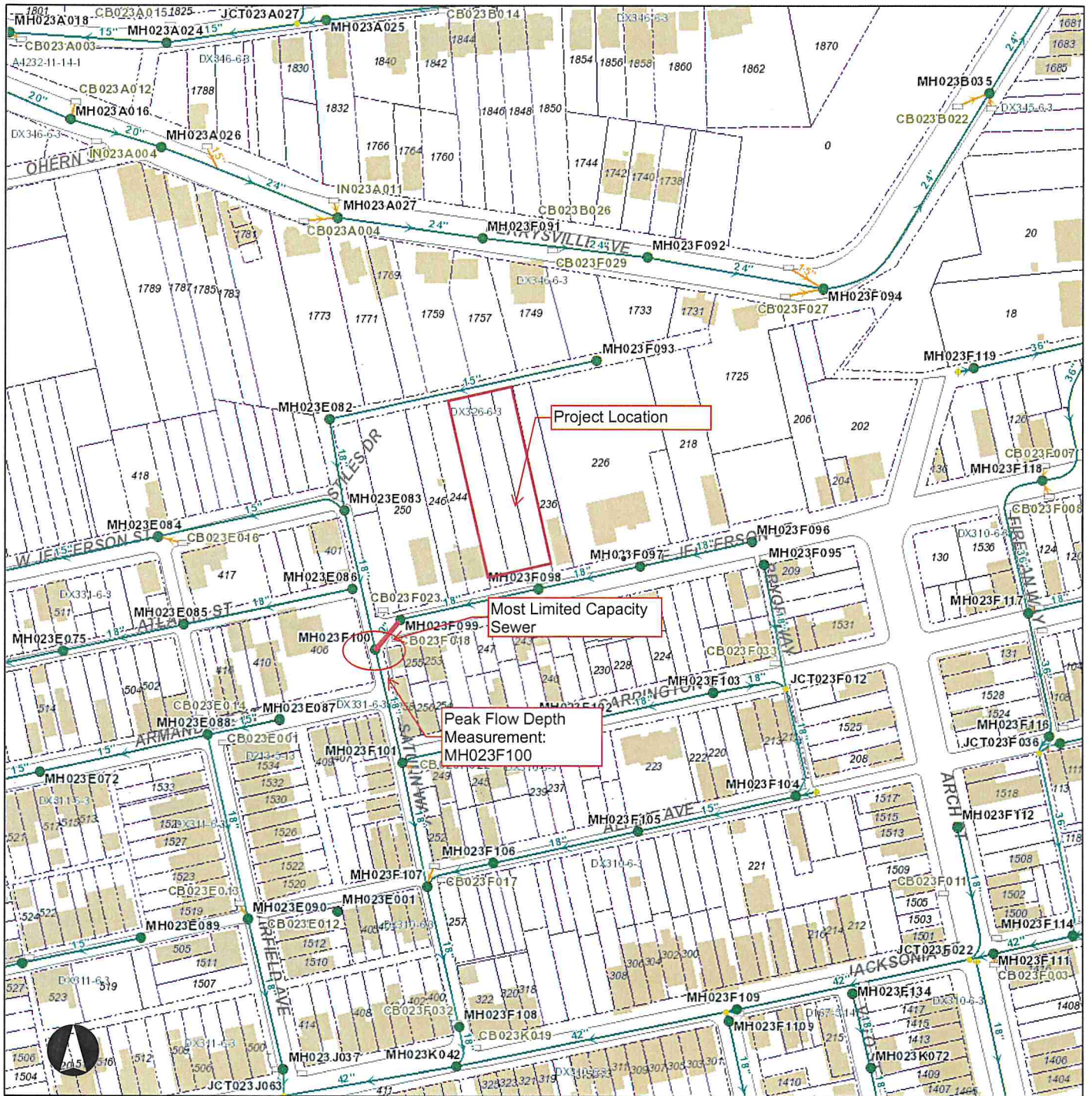
Consultant
Firm Name: KU Resources
Address: 22 South Linden Street
Duquesne, PA 15110
Contact Name: Bob Smith
Email: bsmith@kuresources.com
Phone Number: (412) 469-9331

Flow Data

Type of Flow	Sanitary, gpd	Water, gpd	Storm, cfs
Project Flow	1,200	1,200	0.24
Existing Flow	0	0	0.32
Net Flow	1,200	1,200	Not Required

Signature
By signing below, I hereby certify, to the best of my knowledge, that the information provided within the Water and Sewer Use Application is true, complete and accurate.
Name, printed: Robert L. Smith
Signature: 
Date: 2/8/2021

East Jefferson Street Townhomes



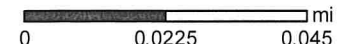
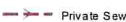
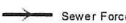
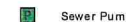
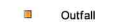
Legend

WATER

- Meter
- Curb Box
- Water System Pump
- Hydrant
- System Valve
- Dividing Pressure Valve
- Coupling
- Tee
- Cross
- Reducer
- End Cap
- Wash Out



SEWER



Neither the City of Pittsburgh nor the PWSA guarantees the accuracy of any of the information hereby made available, including but not limited to information concerning the location and condition of underground structures, and neither assumes any responsibility for any conclusions or interpretations made on the basis of such information. COP and PWSA assume no responsibility for any understanding or representations made by their agents or employees unless such understanding or representations are expressly set forth in a duly authorized written document, and such document expressly provides that responsibility therefor is assumed by the City or the PWSA.

Date: 2/11/2021

Most Limited Capacity Sewer (MLCS) Spreadsheet

PROJECT NAME:	238-242 East Jefferson St.
PWSA PROJECT NUMBER:	20014.24
PWSA REVIEWER:	Midori Bridges
DATE:	February 10, 2021

LEGEND:

Output Data
Input Data
Questionable Data
Hydraulically Limited Sewer

Upstream MH	Downstream MH	Upstream Invert	Downstream Invert	Length, ft	Diam., in.	Material	n	Area, sf	Wetted P, ft	Slope	Flow, gpd
MH023F097	MH023F098	839.51	835.24	113.86	18	VCP	0.013	1.77	4.712	3.75%	13,182,871
MH023F098	MH023F099	835.24	827.58	154.60	18	VCP	0.013	1.77	4.712	4.95%	15,152,745
MH023F099	MH023F100	827.58	822.94	43.14	9	VCP	0.013	0.44	2.356	10.76%	3,516,041
MH023F100	MH023F101	822.94	818.41	127.69	18	VCP	0.013	1.77	4.712	3.55%	12,821,898
MH023F101	MH023F107	818.41	798.53	139.18	18	VCP	0.013	1.77	4.712	14.28%	25,727,728
MH023F107	MH023F108	798.53	787.38	157.32	18	VCP	0.013	1.77	4.712	7.09%	18,122,876
MH023F108	MH023K042	786.85	784.24	46.12	18	VCP	0.013	1.77	4.712	5.66%	16,194,117
MH023K042	JCT023J063	784.24	777.88	193.01	42	Brick	0.016	9.62	10.996	3.30%	96,164,574
JCT023J063	MH023J036	777.88	774.40	101.18	42	Brick	0.016	9.62	10.996	3.44%	98,246,874
MH023J036	MH023J035	774.40	763.80	238.44	42	Brick	0.016	9.62	10.996	4.45%	111,696,569
MH023J035	MH023J031	763.75	763.60	54.49	36	VCP	0.013	7.07	9.425	0.28%	22,678,563
MH023J031	MH023J029	763.78	762.20	171.90	36	VCP	0.013	7.07	9.425	0.92%	41,439,921
MH023J029	MH023J027	761.50	760.94	124.04	36	VCP	0.013	7.07	9.425	0.45%	29,042,998
MH023J027	JCT023J055	760.94	760.50	13.63	36	VCP	0.013	7.07	9.425	3.23%	77,661,670
JCT023J055	MH023J026	759.50	757.69	199.89	36	VCP	0.013	7.07	9.425	0.91%	41,131,265
MH023J026	MH023N106	757.69	753.58	259.32	36	VCP	0.013	7.07	9.425	1.58%	54,416,577
MH023N106	MH023N103	753.58	750.68	244.64	36	VCP	0.013	7.07	9.425	1.19%	47,061,263
MH023N103	MH023N102	750.80	750.44	38.52	36	VCP	0.013	7.07	9.425	0.93%	41,786,541
MH023N102	MH023N135	750.44	743.82	238.53	36	VCP	0.013	7.07	9.425	2.78%	72,008,839
MH023N135	JCT023N041	750.44	742.79	24.63	36	VCP	0.013	7.07	9.425	31.06%	240,894,469
JCT023N041	JCT023N045	742.79	741.25	159.56	36	VCP	0.013	7.07	9.425	0.97%	42,464,563
JCT023N045	MH008B040	741.20	737.19	438.60	78	Brick	0.016	33.18	20.420	0.91%	263,992,017
MH008B040	MH008B079	737.19	731.49	497.59	84	Brick	0.016	38.48	21.991	1.15%	360,018,418
MH008B079	JCT008B009	731.49	731.24	22.29	84	Brick	0.016	38.48	21.991	1.12%	356,236,228
JCT008B009	MH008B080	731.24	724.06	349.56	78	Brick	0.016	33.18	20.420	2.05%	395,638,592
MH008B080	MH008F106	723.84	716.84	338.23	78	Brick	0.016	33.18	20.420	2.07%	397,136,906
MH008F106	JCT008F098	716.37	716.24	13.54	78	Brick	0.016	33.18	20.420	0.96%	270,495,245
JCT008F098	MH008F074	716.24	716.06	47.11	78	Brick	0.016	33.18	20.420	0.38%	170,638,487
MH008F074	MH008F104	716.06	712.67	269.91	108	Brick	0.016	63.62	28.274	1.26%	737,369,948
MH008F104	MH008G069	712.66	711.26	148.91	108	Brick	0.016	63.62	28.274	0.94%	637,495,492
MH008G069	MH008G068	711.26	710.18	258.02	108	Brick	0.016	63.62	28.274	0.42%	425,363,503
MH008G068	MH008G070	710.18	709.99	56.33	108	Brick	0.016	63.62	28.274	0.34%	381,840,471
MH008G070	MH008G134	709.99	709.05	53.64	108	Brick	0.016	63.62	28.274	1.75%	870,351,284
MH008G134	MH008G071	709.05	708.01	351.08	108	Brick	0.016	63.62	28.274	0.30%	357,839,812
MH008G071	JCT008G013	708.01	706.71	131.13	120	Brick	0.016	78.54	31.416	0.99%	866,993,123



February 11, 2021

Mr. Thomas Flanagan
PA Department of Environmental Protection
Clean Water Program
400 Waterfront Drive
Pittsburgh, PA 15222

Subject: Preliminary Determination on the Need for Sewage Planning
Project Name: East Jefferson Street Townhomes
PWSA Project No.: 20014.24

Dear Mr. Flanagan:

Please be advised that the Pittsburgh Water and Sewer Authority has approved the Water and Sewer (W/S) Use Application for the aforementioned Project. We have enclosed the W/S Use Approval Letter and the supporting documentation. The approved sanitary flows are summarized below:

Type of Sanitary Flow	Definition	Flow, gpd
Project Flow	Peak daily flow associated with the Project	1,200
Existing Flow	Peak daily flow within the past five years	0
Net Flow	= Project Flow – Existing Flow	1,200

Please see below for our Preliminary Determination on the Need for Sewage Planning:

- Yes, we believe the Project requires sewage planning
- No, we believe the Project does not require sewage planning

Based on the foregoing, please provide a Final Determination on the Need for Sewage Planning.

Our review was based on information provided by others 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 x9996 or mbridges@pgh2o.com.

Sincerely,

Midori Bridges
Cooperative Education Intern

Enclosure(s)

- cc: Barry King, P.E. – PWSA (via email)
- Kate Mechler, P.E. – PWSA (via email)
- Robert Herring, P.E. – PWSA (via email)
- Bob Smith– Applicant (via email)
- eBuilder – Filing System (via email)



Pittsburgh
Water & Sewer
Authority

February 17, 2020

Bob Smith
22 South Linden Street
Duquesne, PA 15110

RE: Water and Sewer Availability
E. Jefferson Street

Dear Mr. Smith:

In response to your inquiry on 2/13/2020 concerning water and sewer availability for the area referenced above, please be advised that both water and sewers are available near the site, and water and sewer service will be provided in accordance with the policies and procedures of the Pittsburgh Water and Sewer Authority.

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

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

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

Refer to the Pittsburgh Water and Sewer Authority (PWSA) website (www.pgh2o.com) for the complete "Procedure Manual for Developers". All tap in plans and applications must be submitted according to the manual.

If you have any questions, please feel free to contact me at (412) 255-8800 x 8030. Thank you.

Sincerely,

A handwritten signature in cursive script that reads 'Wendy M. Dean'.

Wendy M. Dean
Engineering Tech.II

cc: PWSA File

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



PITTSBURGH WATER AND SEWER AUTHORITY

WATER AND SEWER AVAILABILITY LETTER REQUEST FORM

All persons planning to perform construction, demolition, or renovation work that will involve water and/or sewer services are recommended to complete this form and submit to PWSA.

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

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

Information to be submitted by the Applicant:
Property Owner Name: BROWN DAVID W JR, BROWN BETH E
Address of Property: E JEFFERSON ST, Pittsburgh, PA 15212
Proposed Use of Site: Residential
Closest street intersection to the property: Saturn Way to the west, Pryor Way to the east.
Requestor Name: Bob Smith Date of Request: 02/13/2020
Requestor Address: 22 South Linden Street, Duquesne, PA 15110
Requestor Phone Number: 412-469-9331 x19

Please submit the completed form to:

Pittsburgh Water and Sewer Authority
1200 Penn Avenue
Pittsburgh, PA 15222
Attn: Permits
(permitinfo@pgh2o.com)

PWSA Use Only:
PWSA Water Service Available: [X] Yes [] No Water Size / Location: 6" E Jefferson St
PWSA Sewer Service Available: [X] Yes [] No Sewer Size / Location: 18" E Jefferson St
Applicant must contact separate agency for water and/or sewer service: [] Yes [X] No
Name of separate agency:
PWSA Approval Authority: Signature and Date: [Signature] 2-19-2020
Name (printed): Wendy M. Dean
Title: Engineering Tech II

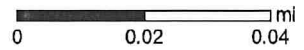
Disclaimer: The information provided by PWSA does not guarantee capacity of the PWSA-owned water and/or sewer lines to satisfy the needs of the proposed development.

E. Jefferson Street - Water



Legend

Water Meter	Pressure Monitoring Station	Outfall
Water Curb Box	Water Manhole	End Cap
Water System Pump	Rising Main	Sewer Pump Station
Hydrant	Supply Main	Combined Sewer
System Valve	Transmission Main	Sanitary Sewer
Dividing Pressure Valve	Distribution Main	Storm Sewer
Coupling	Hydrant Branch	Regulated Combined Sewer
Tee	Private Main	Overflow Sewer
Cross	SEWER	Interceptor
Reducer	Manhole	Sewer Force Main
End Cap	Junction	Private Sewer
Wash Out	Inlet	Undefined Sewer
	Private Inlet	Green Infrastructure Underground Facilities



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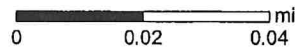
Date: 2/14/2020

E. Jefferson Street - Sewer



Legend

- | | | |
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| | | |
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Date: 2/14/2020