



## Sewage Facilities Planning Module

### Component 3

The Urban Redevelopment Authority of Pittsburgh  
East Liberty Site Preparation Contract - Liberty Green  
155 Larimer Avenue, Pittsburgh, PA 15206  
City of Pittsburgh, Allegheny County, Pennsylvania

GAI Project Number: E150758.00

August 2019

Prepared by: GAI Consultants, Inc.  
Southpointe Office  
6000 Town Center Blvd, Suite 300 East  
Canonsburg, Pennsylvania 15317  
412-399-5514  
j.fello@gaiconsultants.com

Prepared for: The Urban Redevelopment  
Authority of Pittsburgh  
200 Ross Street  
Pittsburgh, Pennsylvania 15219



July 10, 2019

Mr. Joseph Fello, P.E.  
GAI Consultants, Inc.  
6000 Town Center Boulevard, Suite 300  
Canonsburg, PA 15317

Subject: Pennsylvania Department of Environmental Protection (PaDEP)  
Sewage Facilities Planning Module (SFPM) – Component 3 Form  
Chapter 94 Consistency Determination  
Liberty Green Plan  
Submitted: June 12, 2019

Dear Mr. Fello:

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module for the Liberty Green Plan (Project) located at 155 Larimer Avenue, Pittsburgh, PA 15206. 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 Ascioffa – PWSA (via email)  
Matthew Smuts, LEED AP – 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)

**To:** Barry King, P.E.

**From:** Robert Herring, P.E.

**Date:** July 8, 2019

**Subject:** DEP Sewage Facilities Planning Module – Component 3  
Chapter 94 Consistency Determination  
Hydraulic Calculation Review  
Liberty Green Plan

Dear Barry,

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module – Component 3 as submitted by GAI Consultants, Inc. (Applicant) for the Liberty Green Plan (Project) located at 155 Larimer Avenue, Pittsburgh, PA 15206. 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

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

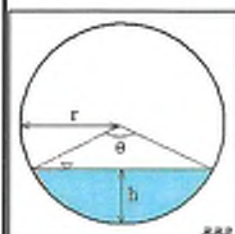
LEGEND:

Input Data

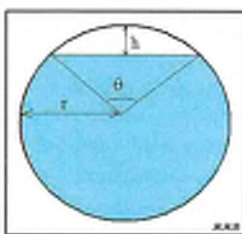
Output Data

PROJECT NAME: Liberty Green  
 PROJECT LOCATION: 155 Larimer Avenue, Pittsburgh, PA 15206  
 TIE-IN LOCATION: Station Street - 8" PVC  
 PWSA REVIEWER: Robert Herring, P.E.  
 DATE: July 8, 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 <sup>3</sup>	Volumetric flowrate
n	Unitless	Manning Roughness Coeff.
A	ft <sup>2</sup>	Cross-Sectional Area of Flow
R	ft	Hydraulic Radius
S	ft/ft	Slope of Hydraulic Grade Line
P	ft	Wetted Perimeter of "A"
r	ft	Radius
h	ft	Depth of Flow or Headspace
θ	radians	Central Angle

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

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

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

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

OR

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

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

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

Section B: Data for Calculations

Variable	Value	Units
n	0.012	unitless
Material	PVC	
S	0.042	ft/ft
h	0.100	ft
D	0.67	ft
h/D	0.149993	ft/ft
P.F.	3	unitless

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

Proposed Project Flows		
Variable	Value	Units
Q <sub>p</sub>	3,858	gpd

Section C: Design Flow Calculations

Variable	Description	Definition
Q <sub>d, peak</sub>	Design Peak Flow	full pipe flow conditions
Q <sub>d, avg</sub>	Design Avg. Flow	full pipe flow conditions divided by the peaking factor



Peak Design Flow Calcs		
Variable	Value	Unit
D	0.667	ft
r	0.333	ft
A	0.349	ft <sup>2</sup>
P	2.094	ft
R	0.167	ft
Q <sub>d, peak</sub>	3	cfs
Q <sub>d, peak</sub>	1,740,962	gpd

Average Design Flow Calcs		
Variable	Value	Unit
Q <sub>d, avg</sub>	580,321	gpd

#### Section D: Existing Flow Calculations

Variable	Description	Definition
Q <sub>ex, avg</sub>	Existing Avg. Flow	existing flow conditions based on flow depth measurement
Q <sub>ex, peak</sub>	Existing Peak Flow	the average existing flow multiplied by the peaking factor

Existing Peak Flow Calcs		
Variable	Value	Unit
D	0.667	ft
r	0.333	ft
θ	1.59	rad
A	0.03	ft <sup>2</sup>
P	0.53	ft
R	0.052	ft
Q <sub>ex, peak</sub>	0	cfs
Q <sub>ex, peak</sub>	84,618	gpd

Existing Average Flow Calcs		
Variable	Value	Unit
Q <sub>ex, avg</sub>	28,206	gpd

#### Section E: Projected Flow Calculations

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

Projected Flow Calculations		
Variable	Value	Unit
Q <sub>proj, peak</sub>	92,900	gpd
Q <sub>proj, avg</sub>	30,967	gpd

#### Section F: Compare Results with Applicant's Submission

Variable	PWSA Calcs, gpd	Applic. Calcs, gpd	Difference, gpd	Difference, %
Q <sub>d, peak</sub>	1,740,962	1,741,479	-517	0%
Q <sub>d, avg</sub>	580,321	580,493	-172	0%
Q <sub>ex, peak</sub>	84,618	83,902	716	1%
Q <sub>ex, avg</sub>	28,206	27,967	239	1%
Q <sub>proj, peak</sub>	92,900	92,148	752	1%
Q <sub>proj, avg</sub>	30,967	30,716	251	1%



July 12, 2019

## Members of the Board

Sylvia C. Wilson  
*Chair Person*Jack Shea  
Rep. Harry Readshaw  
John Weinstein  
Corey O'Connor  
Brenda L. Smith  
Shannah Tharp-Gilliam, Ph.D.Arletta Scott Williams  
*Executive Director*William H. Inks, CPA  
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*Director  
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*Director  
Environmental Compliance*Jeanne K. Clark  
*Director  
Governmental Affairs*Joseph Vallarian  
*Director  
Communications*Joseph A. Fello P.E.  
Engineering Manager  
6000 Town Center Boulevard  
Suite 300  
Canonsburg, PA 15317**Re: Liberty Green – City of Pittsburgh  
PA DEP Sewage Facilities Planning Module  
ALCOSAN Regulator Structure A-42-00**

Dear Mr. Fello:

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 3,858 gpd in the ALCOSAN Allegheny River Interceptor and Woods Run Treatment Plant.

The capacity at the ALCOSAN A-42-00 Regulator is 28.9 MGD. The estimated peak dry weather flow is approximately 6.6 MGD. Dry weather capacity exists for this connection. However, the ALCOSAN Allegheny 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 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 412-732-8004.

Sincerely,

**ALLEGHENY COUNTY SANITARY AUTHORITY**

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

## Attachment

cc: Tina Dera (w/o attachment)  
D. Theston (w/o attachment)  
S. McWilliams (w/o attachment)  
Barry King, PWSA (w/o attachment)  
T. Flanagan/PaDEP (w/o attachment)  
M. Schoer/ACHD (w/o attachment)

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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 East Liberty Site Preparation Contract - Liberty Green

2. Brief Project Description The Urban Redevelopment Authority (URA) proposes to develop a vacant parcel in the City of Pittsburgh's Larimer neighborhood into a public park. The parcel is bordered by Princeton Street, Kalinda Street, Larimer Avenue, and Station Street. The parcel is presently a stockpile area for excess material from surrounding construction. New play facilities will be installed and associated stormwater management facilities will be installed.

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

Municipality Name	County	City	Boro	Twp
City of Pittsburgh	Allegheny	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Layman	Corey			Zoning Administrator
Additional Individual Last Name	First Name	MI	Suffix	Title
Municipality Mailing Address Line 1		Mailing Address Line 2		
200 Ross Street		3 <sup>rd</sup> Floor		
Address Last Line -- City		State	ZIP+4	
Pittsburgh		PA	15219	
Area Code + Phone + Ext.	FAX (optional)	Email (optional)		
412-255-2470	412-255-2561	corey.layman@pittsburghpa.gov		



**C. SITE INFORMATION** (See Section C of instructions)

**Site (Land Development or Project) Name**

East Liberty Site Preparation Contract - Liberty Green

Site Location Line 1  
155 Larimer Avenue

Site Location Line 2

Site Location Last Line -- City	State	ZIP+4	Latitude	Longitude
Pittsburgh	PA	15206	40 27 45	-79 55 11

Detailed Written Directions to Site From PA DEP SW Regional Office take PA 28 North to Exit 6- Highland Park Bridge on the right. Continue 1/2 mile and make a slight right onto Washington Blvd. Continue 1 mile and turn right onto Negley Run Blvd. Continue 0.7 miles and turn left onto East Liberty Blvd. Continue 0.2 miles and turn right onto Larimer Ave.

Description of Site The parcel is presently a stockpile area for excess material from surrounding construction. New play facilities will be installed and associated stormwater management facilities will be installed.

**Site Contact (Developer/Owner)**

Last Name	First Name	MI	Suffix	Phone	Ext.
Martinchich	Paul			412-255-6417	

Site Contact Title	Site Contact Firm (if none, leave blank)
Project Manager	Urban Redevelopment Authority of Pittsburgh

FAX	Email
412-255-6617	pmartinchich@ura.org

Mailing Address Line 1	Mailing Address Line 2
200 Ross Street #13	

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

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

Last Name	First Name	MI	Suffix
Fello	Joseph		A

Title	Consulting Firm Name
Assistant Engineering Manager	GAI Consultants, Inc.

Mailing Address Line 1	Mailing Address Line 2
6000 Town Center Blvd.	Suite 300

Address Last Line -- City	State	ZIP+4	Country
Canonsburg	PA	15317	USA

Email	Area Code + Phone	Ext.	Area Code + FAX
j.fello@gaiconsultants.com	412-399-5514		724-873-3549

**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 (PWSA)

**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 10

Connections 1

Name of:

existing collection or conveyance system MH084D038 (sanitary)

owner PWSA

existing interceptor ALCOSAN Trunk Line along 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 WWTP

NPDES Permit Number for existing facility 25984

Clean Streams Law Permit Number \_\_\_\_\_

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

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 WWTP  
(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 Lichte

Agent Signature \_\_\_\_\_ Date 7/12/19

(Also see Section I. 4.)

**G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)**

**3. PLOT PLAN**

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

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

**4. WETLAND PROTECTION**

YES NO

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

**5. PRIME AGRICULTURAL LAND PROTECTION**

YES NO

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

**6. HISTORIC PRESERVATION ACT**

YES NO

- Sufficient documentation is attached to confirm that this project is consistent with DEP Technical Guidance 012-0700-001 *Implementation of the PA State History Code* (available online at the DEP website at [www.dep.state.pa.us](http://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](http://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 \_\_\_\_\_.

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**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.

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**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 3858 \_\_\_\_\_ 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	580493	1741479	27967	83902	30716	92148
Conveyance		28,900,000	6,100,000	6,600,000	6,200,000	6,700,000
Treatment		250,000,000	194,800,000	250,000,000	194,800,000	250,000,000

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 The Pittsburgh Water and Sewer Authority  
 Name of Responsible Agent Berry King, P.E. / Director of Engineering  
 Agent Signature [Signature] Date 7/9/19




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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Michael D. L. Leta

Agent Signature 

Date 7/12/19

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 Michael D. L. Leta

Agent Signature 

Date 7/12/19

**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 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)

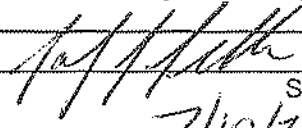
- 9.   Does the project involve the use of large volume onlot sewage disposal systems (Flow > 10,000 gpd)?
- 10.   Does the project require resolution of a conflict between the proposed alternative and consistency requirements contained in §71.21(a)(5)(i), (ii), (iii)?
- 11.   Will sewage facilities 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.

Joseph A. Felio

Name (Print)



Signature

Assistant Engineering Manager

Title

7/10/2019

Date

6000 Town Center Blvd., Suite 300, Canonsburg PA  
15317

Address

4123995514

Telephone Number

**R. REVIEW FEE** (See Section R of instructions)

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

- I request DEP calculate the review fee for my project and send me an invoice for the correct amount. I understand DEP's review of my project will not begin until DEP receives the correct review fee from me for the project.
- I have calculated the review fee for my project using the formula found below and the review fee guidance in the instructions. I have attached a check or money order in the amount of \$500 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)

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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.

$$\#10 \text{ Lots (or EDUs)} \times \$50.00 = \$500.00$$

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:

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

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

The fee is based upon:

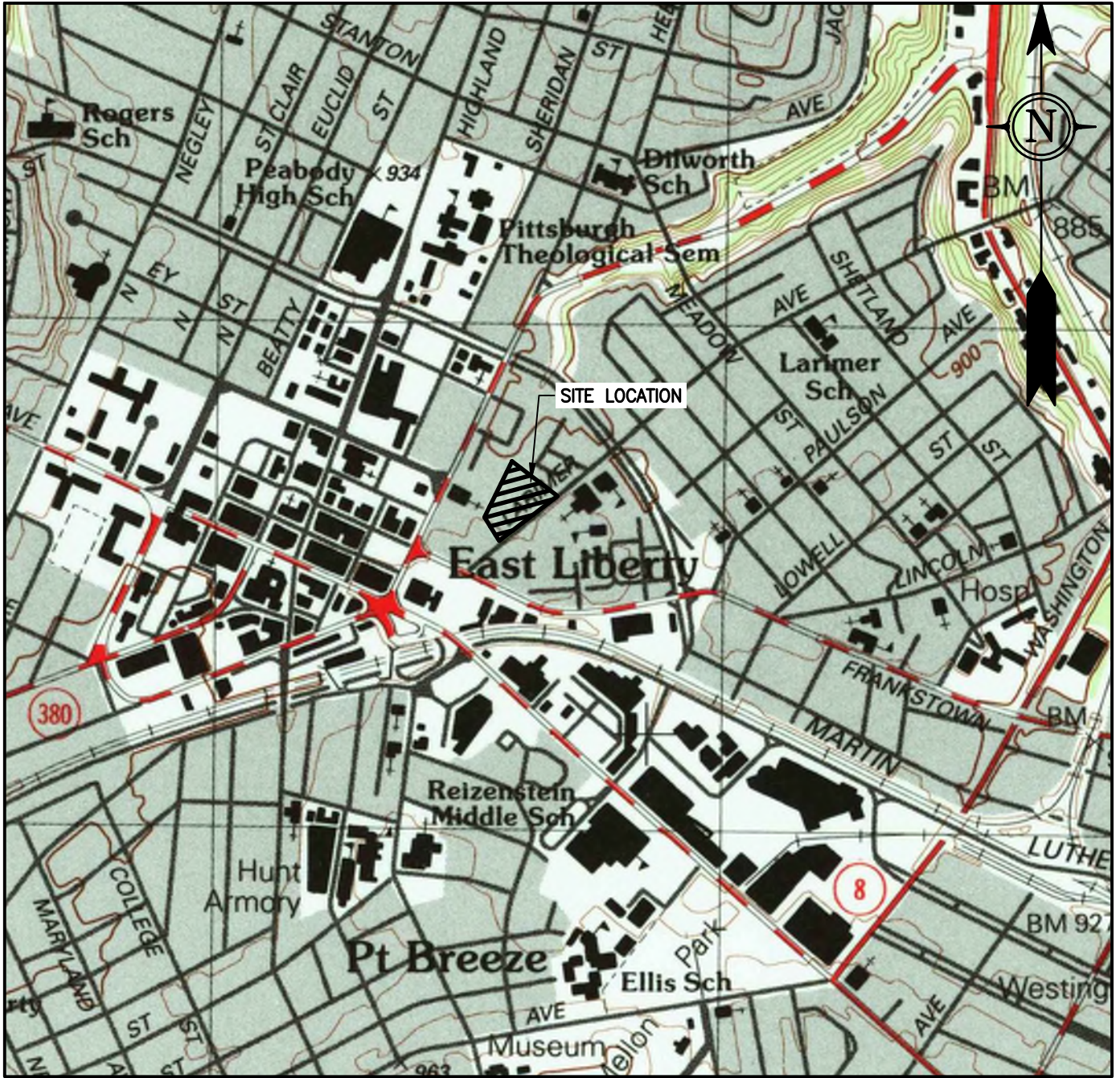
- The number of lots created or number of EDUs whichever is higher.
- For community sewage system projects one EDU is equal to a sewage flow of 400 gallons per day.
- For non-single family residential projects, EDUs are calculated using projected population figures

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

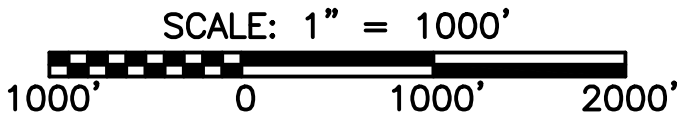
\$ 1,500 per submittal (non-municipal)  
\$ 500 per submittal (municipal)


**ATTACHMENT 1**  
**Site Location Map**

GAI CAD FILE PATH: Z:\ComDev\2015\E150758.00 - LarimerEast Liberty Park\CAD\NE Real Estate\C3D Files - Production\E150758-00-000-00-A2-C001.dwg



MAP REFERENCE:  
U.S.G.S. 7.5 MINUTE SERIES  
PITTSBURGH EAST, PA



DRAWING TITLE		GAI DRAWING NUMBER:		
<b>SITE LOCATION MAP</b>		<b>C001</b>		
PROJECT		GAI FILE NUMBER:		
<b>LARIMER/EAST LIBERTY PARK LARIMER AVE AND STATION ST PITTSBURGH, PA 15206</b>		<b>E150758-00-000-00-A2-C001</b>		
CLIENT		DRAWN BY:	CHECKED BY:	APPROVED BY:
<b>URA OF PITTSBURGH 200 ROSS ST, 12TH FLOOR PITTSBURGH, PA 15219</b>		<b>RILEYSP</b>	<b>KLOGOJ</b>	<b>GREENJE</b>
		SHEET NO.:	SCALE:	ISSUE DATE:
		1 OF 1	1"=1000'	11/09/2016
<b>© 2017 GAI Consultants</b>				

This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.  
ISSUING OFFICE: Pittsburgh | 385 E. Waterfront Drive, Homestead, PA 15120  
PLOTTED ON: 10/27/2017 1:19:21 PM PLOTTED BY: Joe Fello PLOT FILE: GAI.stb



**ATTACHMENT 2**  
**Supplement to Section E – PWSA Water Availability**



July 24, 2018

Mr. Joe Fello  
GAI Consultants, Inc.  
6000 Town Center Boulevard  
Suite 300 East  
Canonsburg, PA 15317

**RE: Water and Sewer Availability  
Liberty Green – Larimer Park  
155 Larimer Avenue - 15206**

Dear Mr. Fello:

In response to your inquiry on 6/3/2018 concerning water and sewer availability for the area referenced above, please be advised that both water and sewers are available near the site, and water and sewer service will be provided in accordance with the policies and procedures of the Pittsburgh Water and Sewer Authority.

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

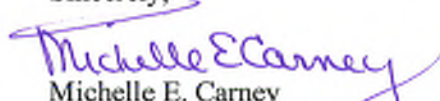
Please note that the Authority in no way guarantees that the available lines have the capacity or pressure adequate for your project's needs. It is the responsibility of the project developer, design consultant, and/or architects to determine, at their expense, the adequacy of the existing water system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

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

**Refer to the Pittsburgh Water and Sewer Authority (PWSA) website ([www.pgh2o.com](http://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) 255-0841. Thank you.

Sincerely,



Michelle E. Carney  
Engineering Technician III

MEC

cc: PWSA File



# PITTSBURGH WATER AND SEWER AUTHORITY

## WATER AND SEWER AVAILABILITY LETTER REQUEST FORM

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

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

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

Information to be submitted by the Applicant:			
Property Owner Name:	Urban Redevelopment Authority of Pittsburgh		
Address of Property:	155 Larimer Ave, Pittsburgh, PA 15206		
Proposed Use of Site:	Public Park		
Closest street intersection to the property:	Larimer Ave and Station St		
Requestor Name:	Joe Fello, GAI Consultants	Date of Request:	6/3/2018
Requestor Address:	6000 Town Center Boulevard, Suite 300 East, Canonsburg, PA 15317		
Requestor Phone Number:	412-399-5514		

Please submit the completed form to:

Pittsburgh Water and Sewer Authority  
Engineering and Construction Division  
1200 Penn Avenue  
Pittsburgh, PA 15222  
Attn: Ms. Michelle Carney (mcarney@pgh20.com)

**RECEIVED**  
JUN 14 2018

BY: PWSA MC

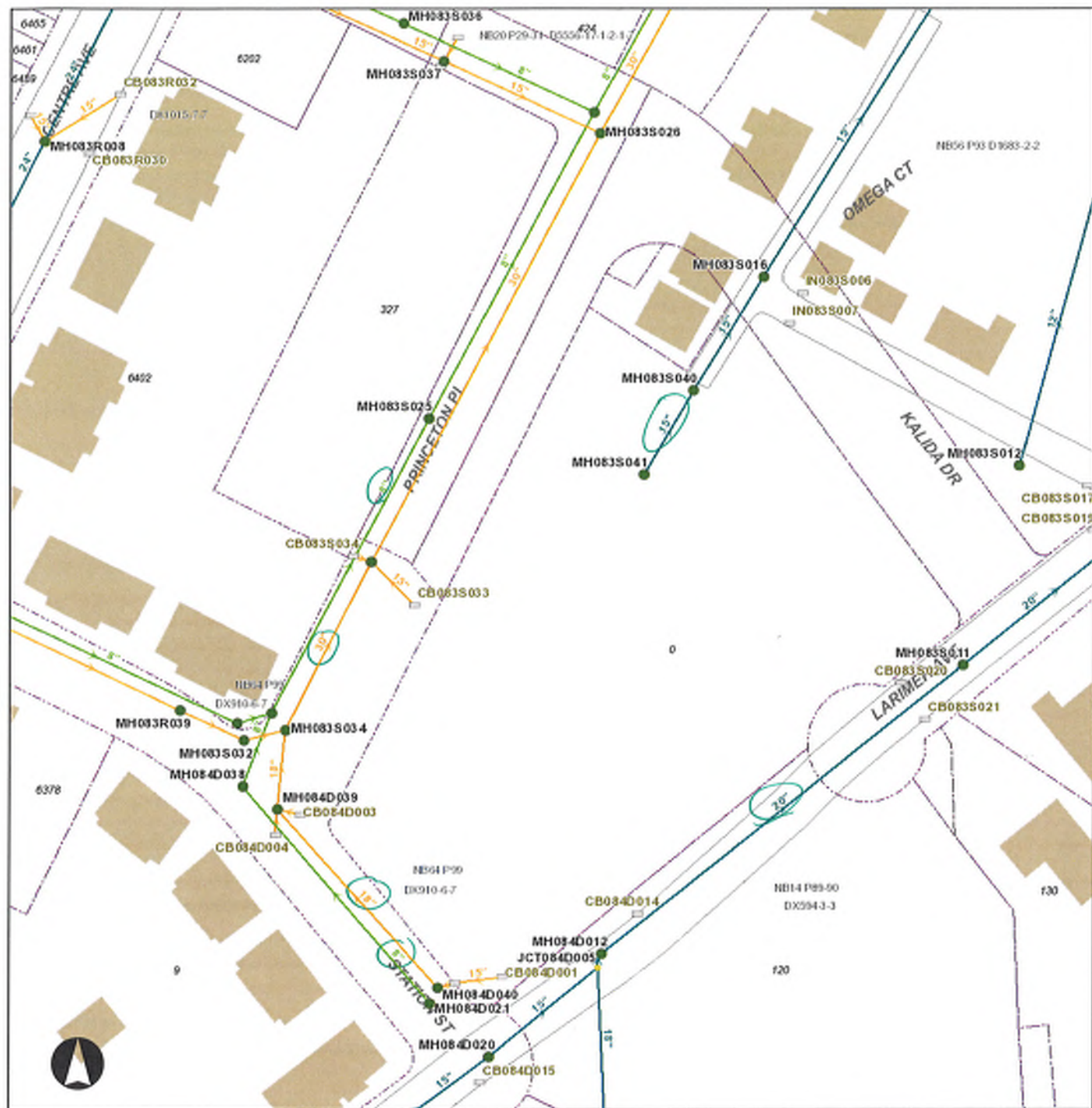
### PWSA Use Only:

PWSA Water Service Available:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Water Size / Location:	20" 8" Larimer Ave
PWSA Sewer Service Available:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Sewer Size / Location:	8" San. Princeton Pl 30" Storm Princeton Pl 20" Larimer Ave; 18" Storm Station at 8" Sanitary Station St
Applicant must contact separate agency for water service:			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Name of separate agency:	N/A			
PWSA Approval Authority:	Signature and Date	Michelle Carney 7-24-2018		
	Name (printed)	Michelle Carney		
	Title	Engineering Tech 3		

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



# Liberty Green / Larimer Park



## Legend

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



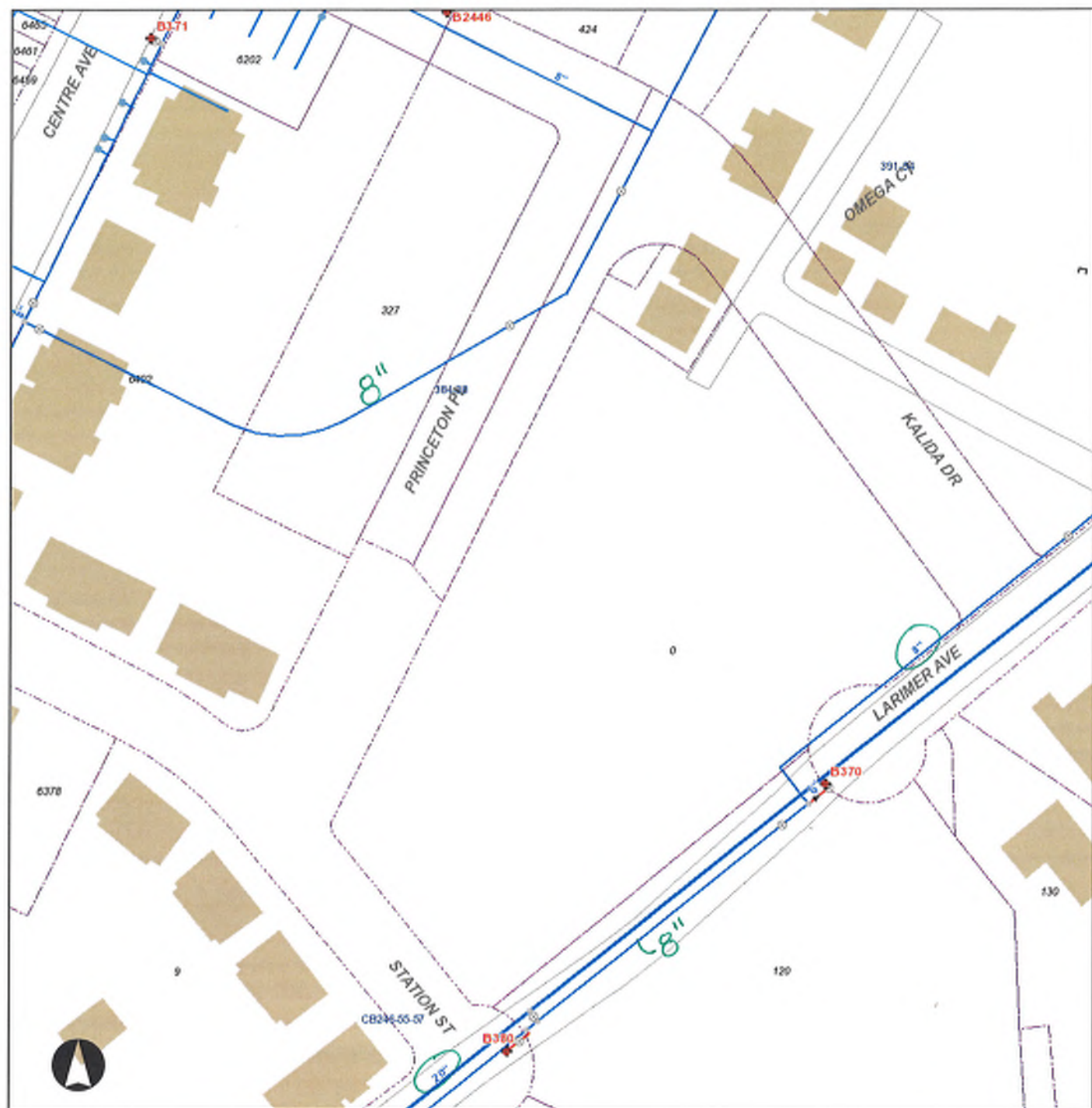
**PGH<sub>2</sub>O**

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. CDP and PWSA assume no responsibility for any understandings or representations made by their agents or employees unless such understandings or representations are expressly set forth in a duly authorized written document, and such document expressly provides that responsibility therefore is assumed by the City or the PWSA.

Date: 7/24/2018



# Liberty Green / Larimer Park



## Legend

Meter	Water Manhole	Outfall
Pump	Rising Main	End Cap
Hydrant	Supply Main	Sewer Pump Station
Hydrant- Out of Service	Transmission Main	Combined Sewer
System Valve	Distribution Main	Sanitary Sewer
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Tee or Cross	Water Service Line	Overflow Sewer
Reducer	Manhole	Interceptor
Coupling	Junction	Sewer Force Main
Wash Out	Inlet	Private Sewer
	Private Inlet	Undefined Sewer



**PGH<sub>2</sub>O**

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, an Engineer assumes any responsibility for any conclusions or interpretations made on the basis of such information. CCIP 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 executed written document, and such document expressly provides that responsibility therefore is assumed by the City or the PWSA.

Date: 7/24/2018

**ATTACHMENT 3**  
**Supplement to Section F – Project Description Narrative**

## **Project Description Narrative**

The Urban Redevelopment Authority (URA) proposes to develop a vacant parcel in the City of Pittsburgh's Larimer neighborhood into a public park. The parcel is bordered by Princeton Street, Kalida Street, Larimer Avenue, and Station Street. New play facilities will be installed on an impervious rubberized play surface. Construction also includes curbs, sidewalks, lighting, utilities, landscaping, and stormwater management facilities.

The parcel is presently stockpile area for excess material from surrounding construction. The parcel had been previously planned for residential development. The existing taps will be terminated at the main per PWSA requirement discussed at a pre-application meeting held at the PWSA office on Friday, March 16, 2018.

The URA aims to develop responsibly. As such, storm water management is a vital component of the site design. The stormwater management system consists of capturing street area and developed area, filtering it, and conveying as much as practical to the Terraced Bioswale. In the Terraced Bioswale, the runoff volume is stored and dewatered slowly through infiltration and evapotranspiration. Overflows and flows from large storms will discharge to the cistern and detention tank below the park facilities for additional volume management and peak rate attenuation. Volume captured in the cistern will irrigate the Terraced Bioswale chambers during dry periods between storm events to encourage the growth of the vegetation in those facilities.

Runoff will be supplied to the terraced bioswale and cistern through on-site conveyance facilities and disconnecting storm inlets in the street from the combination sewer and sending them to the on-site storm facilities.

The path system in the park was designed in order to encourage walkers to view the above-ground Terraced Bioswale. In this way, it is intended to be used for education in order to teach park users about storm water management.

Play facilities on-site include a water feature (spray fountain) and a drinking fountain. For this reason, a public water connection and a public sewer connection will be made to the existing Pittsburgh Water and Sewer Authority systems along with a sanitary sewer outlet.

**ATTACHMENT 4**  
**Supplement to Section G.3 – Plot Plans for Sewage  
Facilities Planning Purposes**



**GENERAL NOTES:**

1. BEFORE PROCEEDING, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE REFERRED AUTHORITIES. THE CONTRACTOR SHALL NOTIFY THE REFERRED AUTHORITIES OF THE LOCATION OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
2. ALL EXISTING UTILITIES SHALL BE AS SHOWN. ALL UTILITIES SHALL BE MAINTAINED AND SHALL BE PROTECTED THROUGHOUT THE PROJECT. ALL UTILITIES SHALL BE MAINTAINED AND SHALL BE PROTECTED THROUGHOUT THE PROJECT.
3. ALL WORK SHALL BE DONE TO THE SATISFACTION OF THE REFERRED AUTHORITIES. ALL WORK SHALL BE DONE TO THE SATISFACTION OF THE REFERRED AUTHORITIES.

**CALL BEFORE YOU DIG!**  
 PENNSYLVANIA LAW REQUIRES A WORKING COPY OF THIS DRAWING TO BE AVAILABLE TO ANYONE WHO MAY BE DIGGING IN YOUR STREET. STOP-CALL-THEM!  
 ONE CALL SYSTEM, INC.  
 1-800-242-4776

PERMISSIVE ACT 18 (1989) REQUIRES NOTIFICATION OF EXISTING UTILITIES TO THE REFERRED AUTHORITIES. CALL PENNSYLVANIA ONE CALL SYSTEM, INC. AT 1-800-242-4776 BEFORE ANY EXCAVATION. PENNSYLVANIA ONE CALL SYSTEM, INC. 20170181145, 20170181146



THE URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 200 BOSS STREET  
 PITTSBURGH, PA 15219

SEWAGE FACILITIES PLANNING MODULE PLOT PLAN  
 SHEET NO. 1 OF 1  
 DATE: 08/20/2019

ENGINEER: GAT CONSULTANTS  
 PROJECT: SEWAGE FACILITIES PLANNING MODULE PLOT PLAN  
 CLIENT: THE URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH

PROJECT: SEWAGE FACILITIES PLANNING MODULE PLOT PLAN  
 CLIENT: THE URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 ADDRESS: 200 BOSS STREET, PITTSBURGH, PA 15219

DATE: 08/20/2019  
 SHEET NO. 1 OF 1  
 SCALE: 1" = 30'

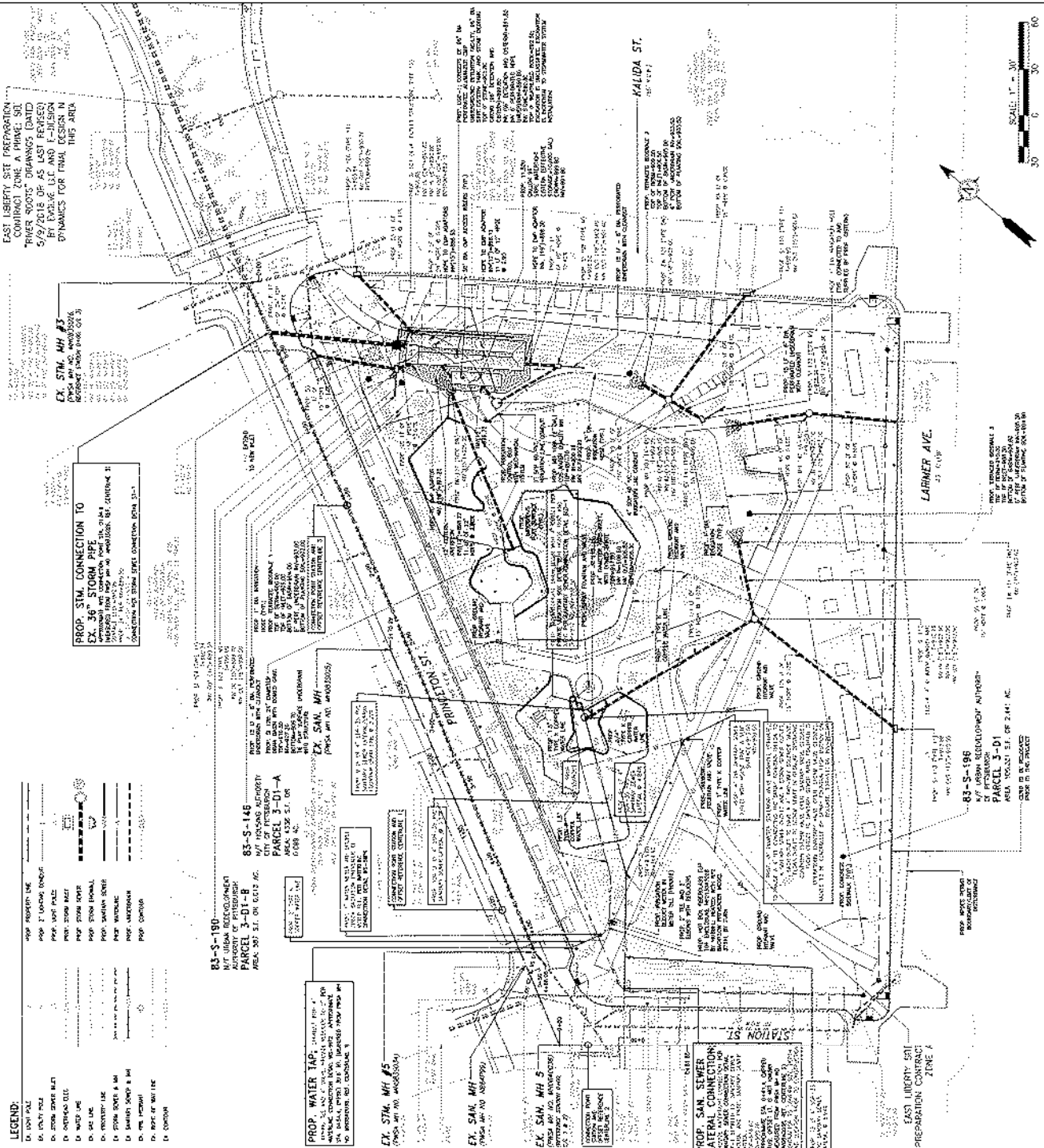
PROJECT: SEWAGE FACILITIES PLANNING MODULE PLOT PLAN  
 CLIENT: THE URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 ADDRESS: 200 BOSS STREET, PITTSBURGH, PA 15219

PROJECT: SEWAGE FACILITIES PLANNING MODULE PLOT PLAN  
 CLIENT: THE URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 ADDRESS: 200 BOSS STREET, PITTSBURGH, PA 15219

PROJECT: SEWAGE FACILITIES PLANNING MODULE PLOT PLAN  
 CLIENT: THE URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 ADDRESS: 200 BOSS STREET, PITTSBURGH, PA 15219

PROJECT: SEWAGE FACILITIES PLANNING MODULE PLOT PLAN  
 CLIENT: THE URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 ADDRESS: 200 BOSS STREET, PITTSBURGH, PA 15219

PROJECT: SEWAGE FACILITIES PLANNING MODULE PLOT PLAN  
 CLIENT: THE URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 ADDRESS: 200 BOSS STREET, PITTSBURGH, PA 15219



- LEGEND:**
- 1. 12\"/>

**83-S-198**  
 NUT URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 PARCEL 3-D1-B  
 AREA 4329 S.F. OR 0.101 AC.

**83-S-146**  
 NUT URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 PARCEL 3-D1-A  
 AREA 4329 S.F. OR 0.101 AC.

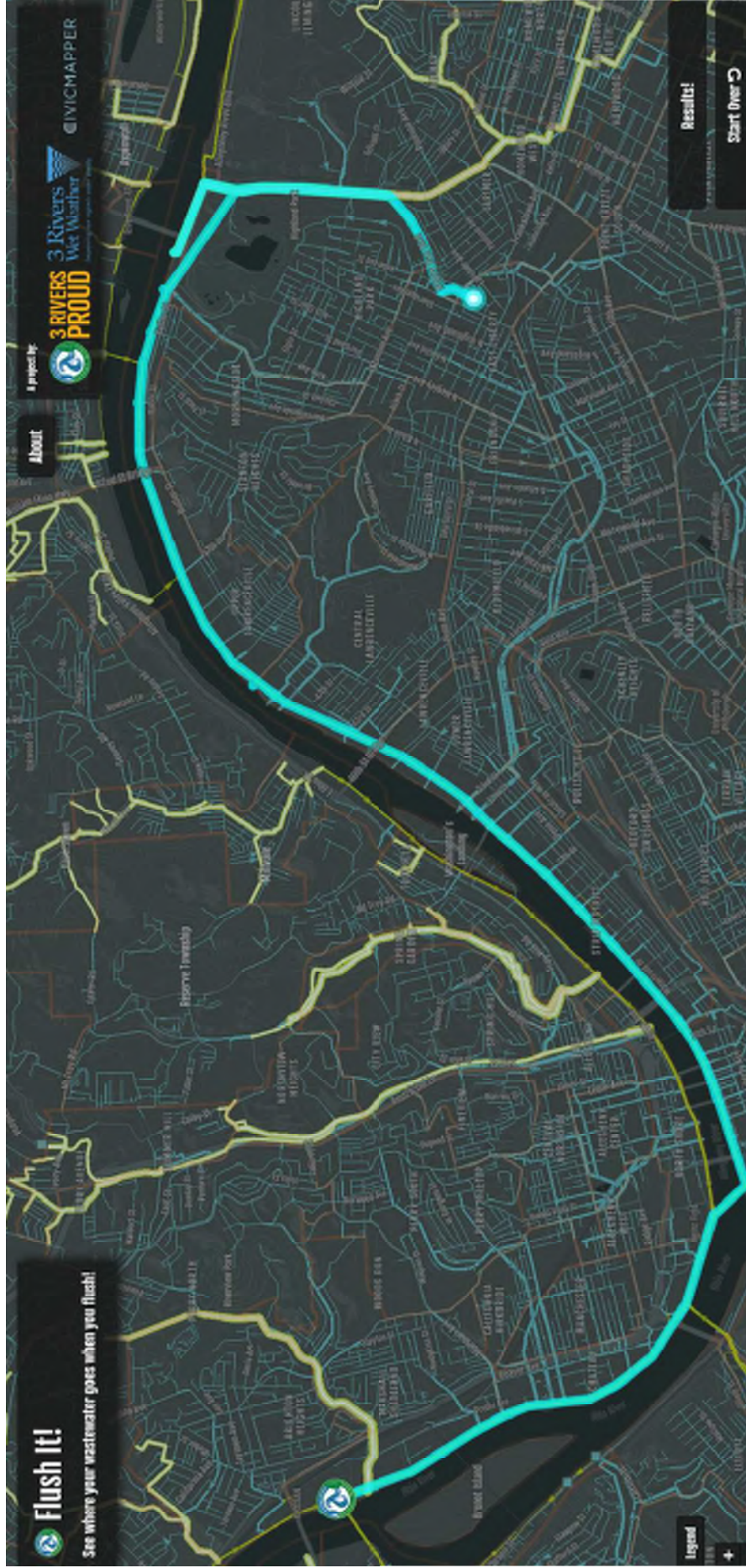
**83-S-196**  
 NUT URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 PARCEL 3-D1  
 AREA 4329 S.F. OR 0.101 AC.

**83-S-196**  
 NUT URBAN REDEVELOPMENT AUTHORITY OF PITTSBURGH  
 PARCEL 3-D1  
 AREA 4329 S.F. OR 0.101 AC.

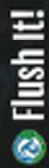
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 PARCEL 3-D1  
 AREA 4329 S.F. OR 0.101 AC.

Liberty Green

Map Showing Path of Flow from Site to ALCOSAN







See where your wastewater goes when you flush!

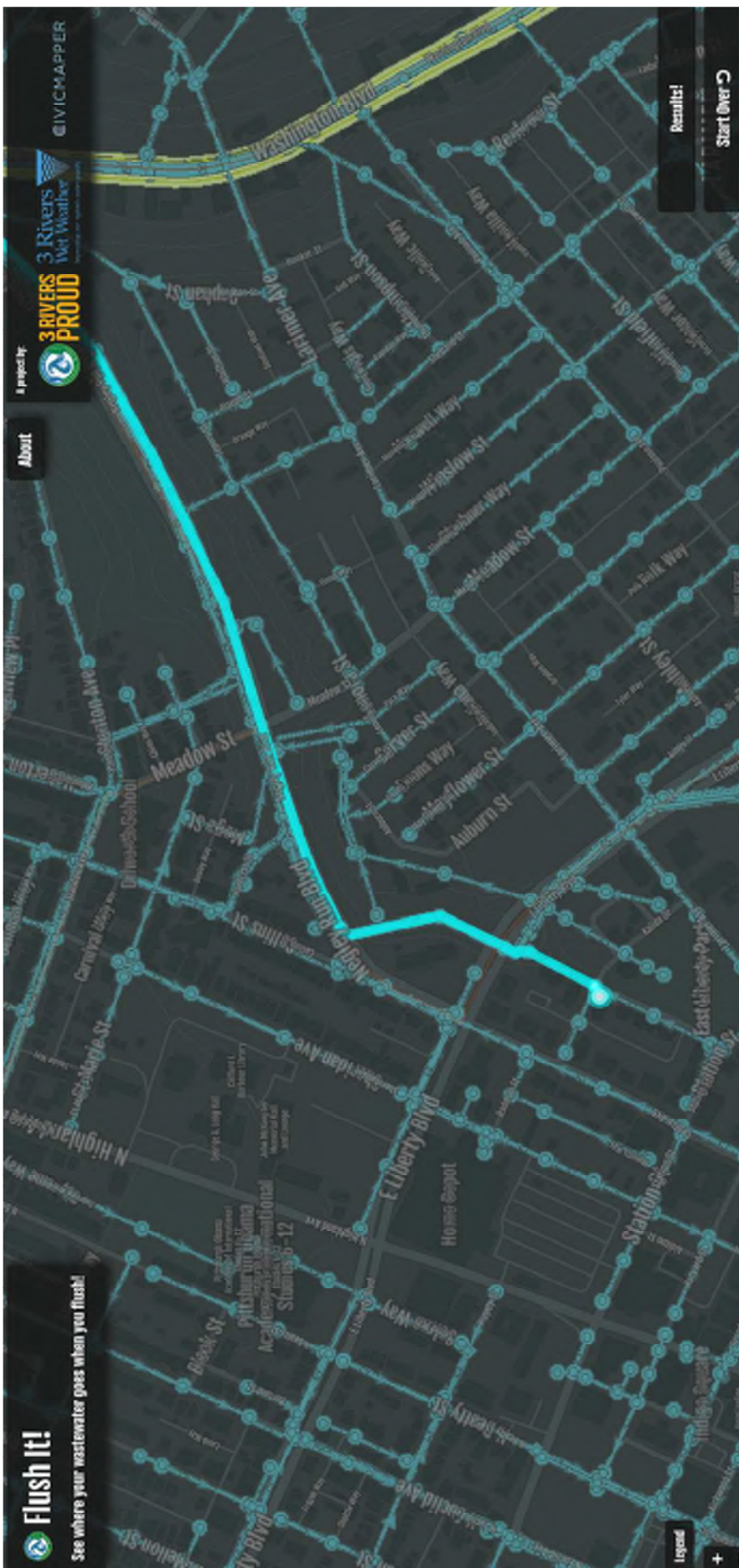
About

A project by



3 RIVERS PROUD  
3 Rivers Wet Weather

CIVICMAPPER



Results!

Start Over

**ATTACHMENT 5**  
**Supplement to Section G.6 – PHMC/SHPO Approval and  
Coordination**





Pennsylvania  
Historical & Museum  
Commission

# PROJECT REVIEW FORM

Request to Initiate SHPO Consultation on  
State and Federal Undertakings

SHPO USE ONLY

5

DATE RECEIVED:

6/13/19

ER NUMBER:

2019-1707-003-A

REV: 10/2014

6/27/19

## SECTION A: PROJECT NAME & LOCATION

Is this a new submittal?  YES  NO OR  This is additional information for ER Number:

Project Name East Liberty Site Preparation Contract - Liberty Green County Allegheny Municipality Pittsburgh  
Project Address 155 Larimer Avenue City/State/ Zip Pittsburgh PA 15206

## SECTION B: CONTACT INFORMATION & MAILING ADDRESS

Name Joseph A. Fello Phone (412) 399-5514  
Company GAI Consultants, Inc. Fax (724) 873-3549  
Street/PO Box 6000 Town Center Blvd., Suite 300 Email j.fello@gaiconsultants.com  
City/State/Zip Canonsburg PA 15317

## SECTION C: PROJECT DESCRIPTION

This project is located on:  Federal property  State property  Municipal property  Private property  
(check all that apply)

List all federal and state agencies and programs providing funds, permits, licenses.	Agency Type	Agency/Program/Permit Name	Project/Permit/Tracking Number (if applicable)
	State	Sewage Facilities Planning Module	
	State	NPDES PAG-02 for Stormwater Discharges	PAC020196

## Proposed Work – Attach project description, scope of work, site plans, and/or drawings

Project includes (check all that apply):  Construction  Demolition  Rehabilitation  Disposition

Total acres of project area: 4.4 Total acres of earth disturbance: 4.4

Are there any buildings or structures within the project area?  Yes  No Approximate age of buildings:

Does this project involve properties listed in or eligible for the National Register of Historic Places, or designated as historic by a local government? Yes  No  Unsure  Name of historic property or historic districts

Please print and mail completed form and all attachments to:

PHMC  
State Historic Preservation Office  
400 North St.  
Commonwealth Keystone Building, 2<sup>nd</sup> Floor  
Harrisburg, PA 17120-0093

### Attachments – Please include the following information with this form

- Map – 7.5' USGS quad showing project boundary and Area of Potential Effect
- Description/Scope – Describe the project, including any ground disturbance and previous land use
- Site Plans/Drawings – Indicate the location and age, if known, of all buildings in the project area
- Photographs – Attach prints or digital photographs showing the project site, including images of all buildings and structures keyed to a site plan

## SHPO DETERMINATION (SHPO USE ONLY)

- There are NO HISTORIC PROPERTIES in the Area of Potential Effect
- The project will have NO EFFECT on historic properties
- The project will have NO ADVERSE EFFECTS on historic properties:
- The project will have NO ADVERSE EFFECTS WITH CONDITIONS (see attached)
- SHPO REQUESTS ADDITIONAL INFORMATION (see attached)

SHPO REVIEWER: Mark Shaffer

DATE: 6/18/19







Photograph 1



Photograph 2





Photograph 3



Photograph 4





Photograph 5



Photograph 6





Photograph 7



Photograph 8





Photograph 9



Photograph 10





Photograph 11



Photograph 12





Photograph 13



Photograph 14





Photograph 15



Photograph 16

**ATTACHMENT 6**  
**Supplement to Section G.7 – Threatened**  
**Species (PNDI)**

## 1. PROJECT INFORMATION

Project Name: **Larimer Park**  
Date of Review: **8/2/2019 09:34:34 AM**  
Project Category: **Development, Other**  
Project Area: **5.39 acres**  
County(s): **Allegheny**  
Township/Municipality(s): **PITTSBURGH**  
ZIP Code: **15206**  
Quadrangle Name(s): **PITTSBURGH EAST**  
Watersheds HUC 8: **Lower Allegheny**  
Watersheds HUC 12: **Allegheny River-Ohio River**  
Decimal Degrees: **40.463035, -79.919296**  
Degrees Minutes Seconds: **40° 27' 46.9262" N, 79° 55' 9.4657" 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

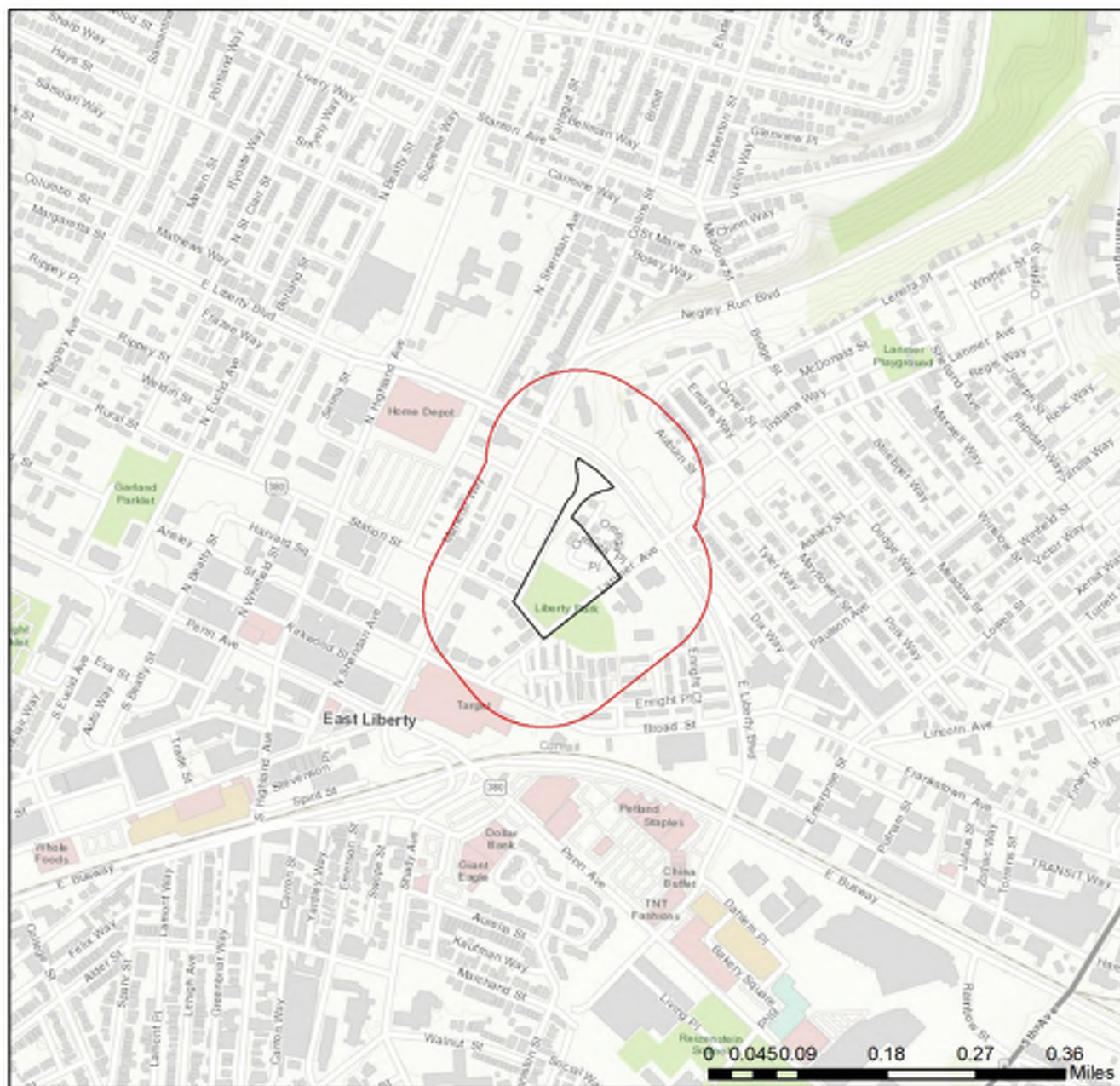
As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with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









## Larimer Park



-  Project Boundary
-  Buffered Project Boundary

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



## RESPONSE TO QUESTION(S) ASKED

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

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

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

**Your answer is:** No

### 3. AGENCY COMMENTS

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

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

#### PA Game Commission

##### RESPONSE:

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

#### PA Department of Conservation and Natural Resources

##### RESPONSE:

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

#### PA Fish and Boat Commission

##### RESPONSE:

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

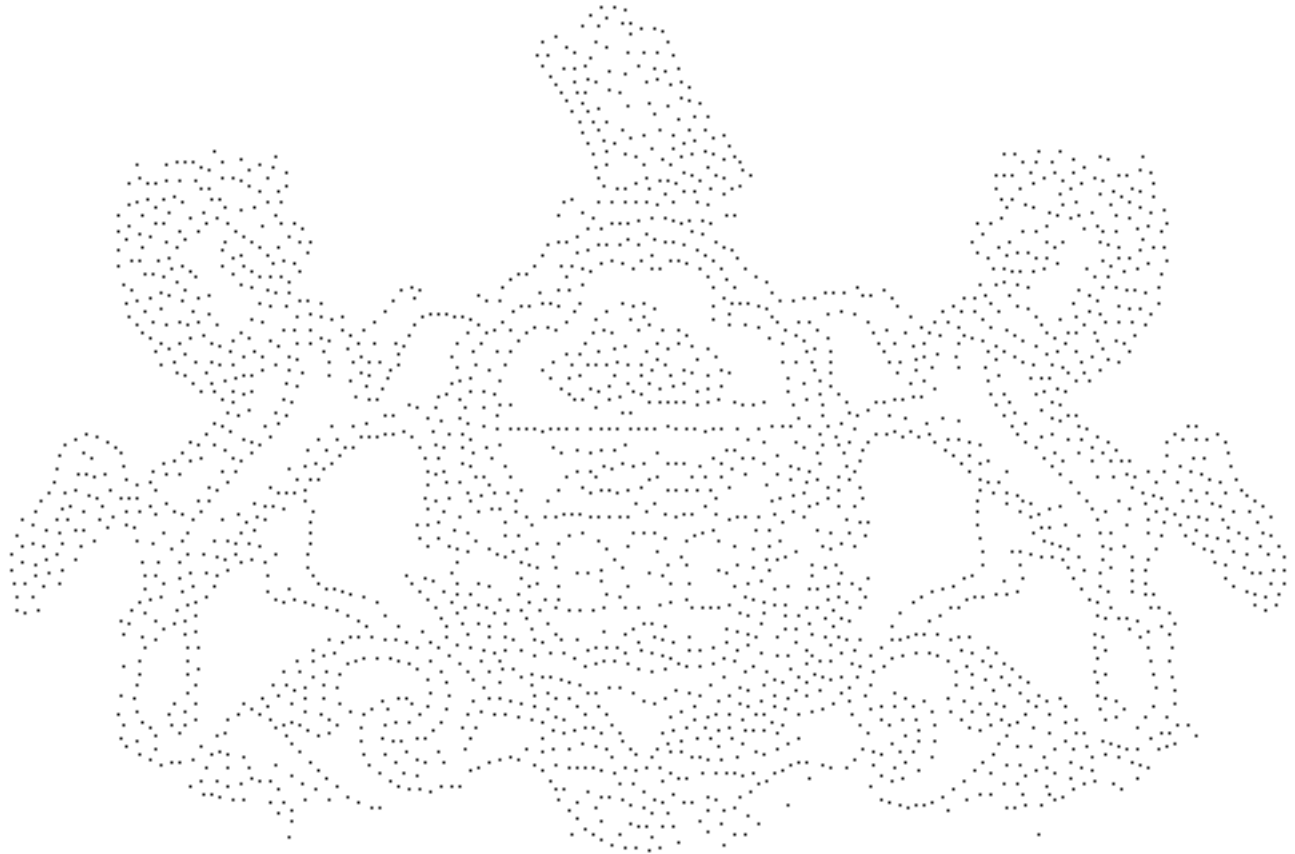
#### U.S. Fish and Wildlife Service

##### RESPONSE:

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](http://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: [PA-HeritageReview@pa.gov](mailto:PA-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: [PA-FBPACENOTIFY@pa.gov](mailto:PA-FBPACENOTIFY@pa.gov)

### PA Game Commission

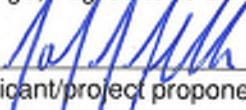
Bureau of Wildlife Habitat Management  
Division of Environmental Planning and Habitat Protection  
2001 Elmerton Avenue, Harrisburg, PA 17110-9797  
Email: [PA-PGC\\_PNDI@pa.gov](mailto:PA-PGC_PNDI@pa.gov)  
NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

Name: Joseph A. Fello  
Company/Business Name: GAI Consultants  
Address: 6000 Town Center Blvd  
City, State, Zip: Canonsburg, PA 15317  
Phone: ( ) 412-399-5514 Fax: ( 724 ) 873-3549  
Email: j.fello@gaiconsultants.com

## 8. CERTIFICATION

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

  
\_\_\_\_\_  
applicant/project proponent signature

8/2/2019  
\_\_\_\_\_  
date

**ATTACHMENT 7**  
**Supplement to Section H – Alternatives**  
**Analysis**

### **ALTERNATIVE SEWAGE DISPOSAL INVESTIGATION**

Construction of the proposed development will produce 3,858 gallons of sewage per day. The alternative design option would have been to tie into the combined sewer on the other side of the site (south end of site). This option is much less desirable because it is a longer lateral run, installation would disrupt existing traffic patterns more, and a new tap would have to be created. With the current design, the lateral is much shorter and we can tie into the existing tap.

**ATTACHMENT 8**  
**Supplement to Section J – PWSA Signed Tap**  
**Allocation Authorization Letter and**  
**Water/Sewer Use Flows Approval**



July 10, 2019

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

Subject: Pennsylvania Department of Environmental Protection (PaDEP)  
Sewage Facilities Planning Module – Component 3 Form  
Tap Allocation Authorization Letter

Dear Mr. Flanagan:

Please be advised that the Pittsburgh Water and Sewer Authority (PWSA) authorizes the sewer taps associated with the following Project:

Liberty Green Plan  
155 Larimer Avenue  
Pittsburgh, PA 15206

Proposed Flowrate, gpd: **3,858**  
EDU's, 400gpd/EDU: **10**

Our review is 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 x5532 or RHerring@pgh2o.com.

Sincerely,

  
Robert Herring, P.E.  
Consultant - Engineering

cc: Barry King, P.E. – PWSA (via email)  
Kate Mechler, P.E. – PWSA (via email)  
Julie Ascioffa – PWSA (via email)  
Matthew Smuts, LEED AP – PWSA (via email)  
GAI Consultants, Inc. (via email)  
Regis Ryan – PaDEP (via email)  
William Vincett – PaDEP (via email)  
eBuilder File (via email)

July 24, 2018

Mr. Joe Fello, P.E.  
GAI Consultants, Inc.  
6000 Town Center Boulevard, Suite 300  
Canonsburg, PA 15317

**RE: Liberty Green – Larimer Park  
155 Larimer Avenue - 15206  
PWSA Project No. 18103.36  
PWSA Water and Sewer Use Application**

Dear Mr. Fello,

The Pittsburgh Water and Sewer Authority (PWSA) is in receipt of the submittal for the above referenced project.

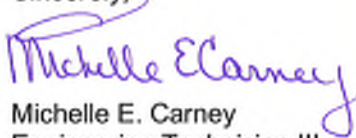
PWSA agrees with your proposed new flows and has approved the PWSA Water and Sewer Use application. I have forward your application along to the other agencies digitally for their review and approval.

Please contact Tom Flanagan at (412) 442-4047 to obtain the correct DEP Sewage Facilities Planning Module (SFPM) form(s) to complete. You must submit the DEP SFPM completed with PA Professional Engineer sealed calculations to PWSA for review and approval. After PWSA and ALCOSAN approve the DEP SFPM you will need to contact the City Law Department to prepare the SFPM Resolution to be approved by City Council. The approved Resolution will need to then be submitted with the completed DEP Sewage Facilities Planning Module to DEP for final review and approval.

Be advised PWSA is not permitted to approve the final water and sewer tap in plans nor issue PWSA permits without the DEP SFPM approved.

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

Sincerely,



Michelle E. Carney  
Engineering Technician III

MEC

Attachment

cc: Michael Lichte – ALCOSAN  
Thomas Flanagan – PA DEP  
Paul Alessio - URA of Pittsburgh  
PWSA File

Project No. 1810336  
(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 Liberty Green  
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 6<sup>th</sup> St.) 155 Larimer Ave  
Pittsburgh, PA 15206
2. Nature of Development. Check appropriate box and provide total flows.
- |  | Total Water Consumption (gpd) | Total Sanitary Flows (gpd) | Total Storm Flows (cfs) |
|--|-------------------------------|----------------------------|-------------------------|
| <input type="checkbox"/> Residential           |                               |                            |                         |
| <input checked="" type="checkbox"/> Commercial | <u>3,858</u>                  | <u>3,858</u>               | <u>6.3</u>              |
3. Acreage of development 4.4 acres
4. Allegheny County Block & Lot Nos. 0083-S-00196-0000-00 11th Ward
5. Ownership of Land Development
- | Name   | Address  |
|--|--|
| <u>Urban Redevelopment Authority of Pittsburgh</u> | <u>200 Ross St #13</u><br><u>Pittsburgh, PA, 15219</u> |
6. Applicant (Subdivider, Developer, or Responsible Project Agent)
- | Name  | Firm/Agency Name                                   |
|---|--|
| <u>Joseph A. Fello</u>  | <u>GAI Consultants</u>                             |
| Address <u>6000 Town Center Blvd, Suite 300, Canonsburg, PA 15317</u> |  |
| Telephone <u>412-399-5514</u>   | Cell _____ Email <u>j.fello@gaiconsultants.com</u> |

**B. WASTEWATER AND STORMWATER FACILITIES**

Provide information on collection and treatment facilities.

1. **COLLECTION SYSTEM**
- Number of proposed connections (sanitary and/or storm) 2 (1 sanitary & 1 storm)
  - Name of existing collection or conveyance system PWSA MH084D038 (sanitary) & MH083S026 (storm)
  - Name of interceptor ALCOSAN Trunk Line along Allegheny River
  - 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.
- Existing building.
  - Lot lines and lot sizes.
  - Remainder of tract.
  - Orientation to North.
  - Show proposed sewer line to the point of connection to existing collection system. Including all components (collection & conveyance lines, pumps, etc.)
  - Existing and proposed right(s)-of-way.
  - Existing and proposed street, roadway, etc.
  - Water bodies and wetland areas.

[Signature]  
Applicant Signature

6/12/2018  
Date



## ESTIMATED SANITARY FLOW SUMMARY

Type of Facility	Measurement Unit	# of Units	GPD/ Unit	Sanitary Flow Per Day	
Spray Fountain	Each	1	3,215	3,215	GPD
Drinking Fountain	Each	1	643	643	GPD

Anticipated Project Flow: 3,858 GPD

Convert Total Project Flow to PWSA EDUs (1 EDU = 300 GPD): 13 EDUs

Tap Fee (\$2,978 Per PWSA EDU): \$ 38,714.00

*✓ MC*  
*7-24-18*

The Spray Fountain uses 15 gallons per minute, or 900 gallons per hour, when operational. The Department of Public Works recommended assuming that the fountain will operate 3 hours on a weekday and 5 hours on a weekend day. The fountain will operate from June 1 to Labor Day (approximately September 1). This equates to approximately 13 weeks per year when the fountain is operational, however to be conservative, the total is based on the daily total without taking credit for weeks when the fountain does not operate.

Total Flow Monday-Friday While Operational:

$$900 \text{ GPH} \times (5 \text{ days} \times 3 \text{ hours}) = 13,500 \text{ Gallons}$$

Total Flow Saturday-Sunday While Operational:

$$900 \text{ GPH} \times (2 \text{ days} \times 5 \text{ hours}) = 9,000 \text{ Gallons}$$

$$\begin{aligned} \text{Weekly Total When Operational} &= 22,500 \text{ Gallons} \\ \text{Daily Total When Operational} &= 3,215 \text{ GPD} \end{aligned}$$

The Drinking Fountain uses 2.5-3.0 gallons per minute, or 180 gallons per hour, when operational. Assuming that the fountain will operate 3 hours on a weekday and 5 hours on a weekend day. The fountain will operate from June 1 to Labor Day (approximately September 1). This equates to approximately 13 weeks per year when the fountain is operational, however to be conservative, the total is based on the daily total without taking credit for weeks when the fountain does not operate.

Total Flow Monday-Friday While Operational:

$$180 \text{ GPH} \times (5 \text{ days} \times 3 \text{ hours}) = 2,700 \text{ Gallons}$$

Total Flow Saturday-Sunday While Operational:

$$180 \text{ GPH} \times (2 \text{ days} \times 5 \text{ hours}) = 1,800 \text{ Gallons}$$

$$\begin{aligned} \text{Weekly Total When Operational} &= 4,500 \text{ Gallons} \\ \text{Daily Total When Operational} &= 643 \text{ GPD} \end{aligned}$$

## 1.0 Project Narrative

The Urban Redevelopment Authority (URA) proposes to develop a vacant parcel in the City of Pittsburgh's Larimer neighborhood into a public park. The parcel is bordered by Princeton Street, Kalida Street, Larimer Avenue, and Station Street. New play facilities will be installed on an impervious rubberized play surface. Construction also includes curbs, sidewalks, lighting, utilities, landscaping, and stormwater management facilities.

The parcel is presently stockpile area for excess material from surrounding construction. The parcel had been previously planned for residential development. The existing taps will be terminated at the main per PWSA requirement discussed at a pre-application meeting held at the PWSA office on Friday, March 16, 2018.

The URA aims to develop responsibly. As such, storm water management is a vital component of the site design. The stormwater management system consists of capturing street area and developed area, filtering it, and conveying as much as practical to the Terraced Bioswale. In the Terraced Bioswale, the runoff volume is stored and dewatered slowly through infiltration and evapotranspiration. Overflows and flows from large storms will discharge to the cistern and detention tank below the park facilities for additional volume management and peak rate attenuation. Volume captured in the cistern will irrigate the Terraced Bioswale chambers during dry periods between storm events to encourage the growth of the vegetation in those facilities.

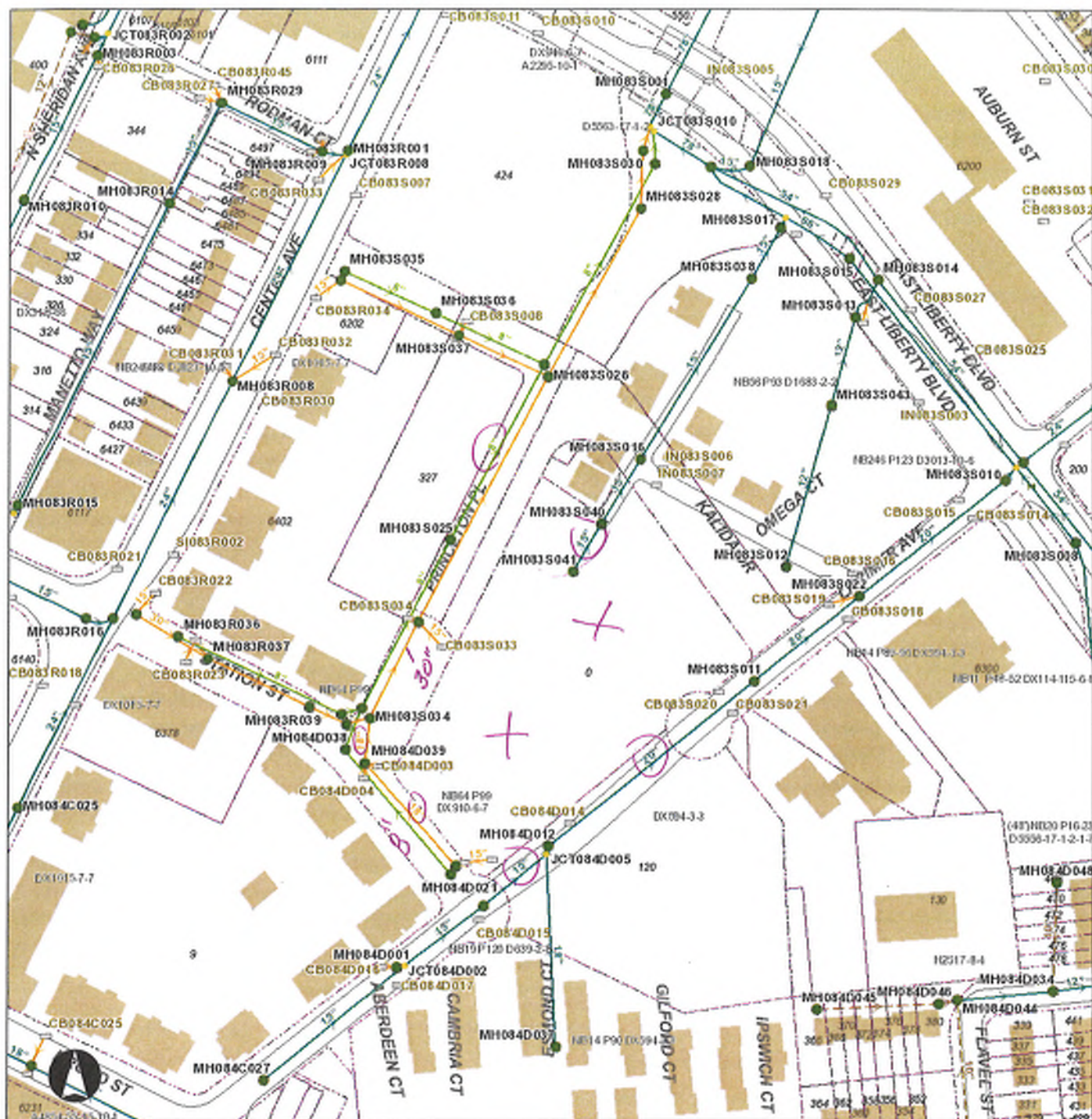
Runoff will be supplied to the terraced bioswale and cistern through on-site conveyance facilities and disconnecting storm inlets in the street from the combination sewer and sending them to the on-site storm facilities.

The path system in the park was designed in order to encourage walkers to view the above-ground Terraced Bioswale. In this way, it is intended to be used for education in order to teach park users about storm water management.

Play facilities on-site include a water feature (spray fountain) and a drinking fountain. For this reason, a public water connection and a public sewer connection will be made to the existing Pittsburgh Water and Sewer Authority systems along with a sanitary sewer outlet.

Construction of the project is expected to begin in mid-2018 with an estimated completion date of mid-2019.

# Larimer Park



## Legend

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

0 115 230 Feet

**PGH<sub>2</sub>O**

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 omissions or interpretations made on the basis of such information. COP and PWSA assume no responsibility for any misunderstanding or misrepresentation 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 therefore is assumed by the City or the PWSA.

Date: 3/16/2016



**ATTACHMENT 9**  
**Component 4A**



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 Liberty Site Preparation Contract - Liberty Green

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

1. Date plan received by municipal planning agency 7-18-19

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.*)?
- 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	
<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 checked="" type="checkbox"/>	<input type="checkbox"/>	16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision? <u>P1-81-F</u>
<input checked="" 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 Battistone</u> Title: <u>Senior Environmental Planner</u> Signature: <u>MBattistone</u> Date: <u>7-22-19</u> Name of Municipal Planning Agency: <u>City of Pittsburgh Environmental Planning and Review</u> Address <u>200 Ross Street 3rd 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.



**ATTACHMENT 10**  
**Component 4C**



**RICH FITZGERALD**  
COUNTY EXECUTIVE

June 14, 2019

Joe Fello  
GAI Consultants, Inc.  
6000 Town Center Blvd, Suite 300  
Canonsburg, PA 15317

**RE: SEWAGE FACILITIES PLANNING MODULE  
LIBERTY GREEN; CITY OF PITTSBURGH, ALLEGHENY COUNTY**

Dear Mr. Fello:

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 June 12, 2019. The project proposes the following:

Project Description:	Liberty Green. 155 Larimer Ave, Pittsburgh, PA 15206. The Urban Redevelopment Authority (URA) proposes to develop a vacant parcel in the City of Pittsburgh's Larimer neighborhood into a public park.
Sewage Flow:	3,858 GPD
Conveyance:	Public sewer connection will be made to the existing Pittsburgh Water and Sewer Authority's MH084D038 (sanitary) to ALCOSAN Trunk Line along Allegheny River to ALCOSAN WWTP
Sewer's Owner:	PWSA
Name of Sewage Treatment Plant:	ALCOSAN

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



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

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

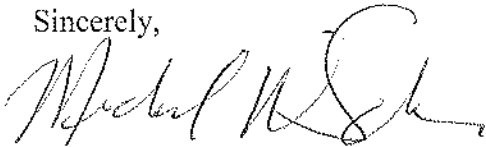


Mr. Joe Fello  
RE: Sewage Facilities Planning Module  
**LIBERTY GREEN; CITY OF PITTSBURGH**  
June 14, 2019  
Page 2

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, please call Ivo Miller, Plumbing Program Manager at 412-578-8393.

The ACHD has no objection to the approval of this project. If you have any questions, please call me at 412-578-8388.

Sincerely,



Michael W. Scheer  
Environmental Health Administrator II  
Water Pollution Control & Solid Waste Management

MWS/cab  
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

Liberty Green

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

1. Date plan received by county or joint-county health department. June 12, 2019

Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency June 14, 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: Michael Scheer

Title: Environmental Health Administrator II

Signature:

Date: June 14 2019

Name of County Health Department: ACHD

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

Telephone Number: 412-578-8388

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

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