

Mr. Michael P. Hanlon City Clerk City Clerk's Office | City of Allentown 435 Hamilton Street Allentown, PA 18101 January 2, 2024

Re: Allentown Metal Works Building G Sewer Planning Module

AEDC Project: 06-026-04

Dear Mr. Hanlon:

Please find the attached four (4) copies of the full Sewer Planning Module Package for the above project. A digital version of the full Sewer Planning Module has been provided separately to Jesus Sadiua of the City's Planning Department.

The Resolution for Plan Revision for New Land Development is the remaining step necessary to complete the process. We ask that you schedule the adoption of the resolution for the next available City Council meeting. Once approved and executed, please return three (3) copies to us so that we can submit them to the Pennsylvania Department of Environmental Protection.

Should you require any additional information or if you have any questions, please don't hesitate to contact our office.

Sincerely,

R. Scott Unger Executive Director

Cc: Jesus Sadiua



5072 Ritter Rd Suite 102 Mechanicsburg, PA 17055 T: 717-975-6481 F: 717-975-6480

www.pennoni.com

January 2, 2024

AEDCX17001

Michael Hanlon Clerk of City Council Allentown City Hall 435 Hamilton Street Allentown, PA 18101-1699

RE: Planning Module DEP CODE No. 2-39001276-3
Allentown Metal Works Project

Dear Mr. Hanlon:

On behalf of Allentown Economic Development Corporation, Pennoni is hereby submitting a Planning Module Component 3 for the above refered project in accordance with the checklist letter we received on April 7, 2022.

If you have any questions related to our review comments, please feel free to contact me at (717) 620-5948.

Sincerely,

PENNONI ASSOCIATES, INC.

James Illigash, PLA, LEED AP BD+C

 $\hbox{$U:$Accounts\AEDCX\NBTWP17001-Allentown Metal Works Project\DOC\ PREP\Planning\ Module\2022.7.19\_Cover\ Letter } \\$ 

### CITY OF ALLENTOWN LEHIGH COUNTY, PENNSYLVANIA

### SEWAGE FACILITIES PLANNING MODULE

**COMPONENT 3** 

**FOR** 

### **ALLENTOWN METAL WORKS PROJECT**

Project Location Allentown, Pa 606 South 10<sup>th</sup> Street Allentown, PA 17319

July 19, 2022

Prepared by:

PENNONI ASSOCIATES INC. 5072 Ritter Road, Suite 102 Mechanicsburg, PA 17055 www.Pennoni.com

Job No. AEDCX17001

### SEWAGE FACILITIES PLANNING MODULE COMPONENT ALLENTOWN, PA

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  - Sect. G.4. Wetlands Report
  - Sect. G.6. Historic Preservation Act
  - Sect. G.7. PNDI
  - Sect. H Alternative Sewage Facilities Analysis

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1. TRANSMITTAL LETTER
1. TRUE CETTER

Date 4/7/2022

Name AEDC Address 905 HAMILTON ST. ALLENTOWN, PA 18103

RE: Planning Module for New Land Development

Subdivision Altertain Metal Works Building G

Connerated 3570 G7D

City of Allertain (Township)

Lehigh (County)

DEP Code No: 2-3900/276-3

#### Dear

In response to your postcard application, enclosed are the applicable planning modules required for the proposed development. Please submit the completed planning module and supporting information to the municipality(ies) in which the project is located. The Department must receive 3 copies. Please answer all questions. Do Not answer "N/A" or "Not Applicable". If you find a question does not apply, explain all reasons to support that answer.

A copy of the letter <u>MUST</u> be attached to the planning module when resubmitted through the municipality to the Department. This letter is to be used as a completion checklist and guide to completing the planning modules and does not supersede the rules and regulations found in Chapter 71. The <u>municipality must</u> submit the completed module package to the Department, (see end of letter for certification statement).

Effective December 15, 1995, Act 149 required the Department to assess planning module review fees. This fee is based on the type of development and total equivalent dwelling units proposed. The applicant will be billed upon Department approval or denial of the project.

If you are applying for a planning module exemption for this project, the exemption was not granted for the following reason(s):

Materials required	Municipal <u>Checklist</u>		DEP Completeness <u>Review</u>
X		Department cover/Checklist letter	
X		Transmittal letter, completed and signed by the Municipal Secretary.	
——————————————————————————————————————		Resolution of Adoption completed and signed by Municipal Secretary and containing the municipa	
		Component 2-Follow attached guidance.	
$\overline{\chi}$		Component 3-Follow attached guidance.	
		Component 3s-Follow attached guidance.	
X	and the second s	Component 4a-Municipal Planning Agency Revi	ew
$\rightarrow$		Component 4b-County Planning Agency Review	
		Potential Impact(s) has occurred based on your softhe PA Natural Diversity Inventory. These issemust be resolved with each agency before the Department's review of Planning Modules can o	ues
		Sewage management program as per 25 Pa. Cod Subsection 71.72	le 
		Hydrogeologic Study – Analysis of interbasin transfer of water between a Special Protection watershed into a Non-Special Protection watershed.	
	_	Delaware River Basin Commission Notice of Applications Received (NAR) for projects with sewage flows exceeding 10,000 GPD.	
		Preliminary hydrogeology	
		Permeablity testing, to be determined at site testing	
	12417444	Detailed hydrogeologic study	

i miguseu	<u>Carcentor</u>			Completeness Review
		Socio-economic justifica	ion	
the self of transcribing code and a comme		If the project is located in	a Special	
agence and the second s		Protection Watershed, ple Antidegradation Analysis Requirement of Chapter ( and 93.4c(b)(2)	meeting the	•
		mmediate and long range 71. Subchapter C relating		eds of the proposal and comply opment Plan Revisions.
Please note submitted.	that the Depa	utmeat will return the pla	nning module packa	ge if an incomplete revision is
Sincerely				
Robert	T. Corly J			
Robert T. Co Sewage Plan Clean Water	ning Specialis	st		
		CERTIFICATIO	STATEMENT	
*		! is complete and includes in return of package.	all requested items	Failure to submit a complete
Iunicipal Ac	ddress			
Aunisinal Ta		har		
		ber		
igned:	VINIGADA SALANDA	**************************************	. Municipal Secr	etary
		and address that should back provided, no copy will		ning module is returned to the



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

### **Completeness Checklist**

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

#### **Sewage Collection and Treatment Facilities**

X	Name and Address of land development project.
X	U.S.G.S. 7.5 minute topographic map with development area plotted.
$\overline{X}$	Project Narrative.
$\overline{\mathbb{X}}$	Letter from water company (if applicable).
$\boxtimes$	Alternative Analysis Narrative.
	Details of chosen financial assurance method.
	Proof of Public Notification (if applicable).
X	Name of existing collection and conveyance facilities.
$\overline{\mathbb{X}}$	Name and NPDES number of existing treatment facility to serve proposed development.
$\boxtimes$	Plot plan of project with required information.
$\overline{\mathbf{X}}$	Total sewage flows to facilities table.
X	Signature of existing collection and/or conveyance Chapter 94 report preparer.
$\overline{\mathbf{X}}$	Signature of existing treatment facility Chapter 94 report preparer.
X	Letter granting allocation to project (if applicable).
X	Signature acknowledging False Swearing Statement.
X	Completed Component 4 (Planning Agency Review) for each existing planning agency and health department.
X	Information on selected treatment and disposal option.
	Permeability information (if applicable).
	Preliminary hydrogeology (if applicable).
	Detailed hydrogeology (if applicable).
Muni	cipal Action
	Component 3 (Sewage Collection and Treatment Facilities).
	Component 4 (Planning Agency Comments and Responses).
	Proof of Public Notification.
	Long-term operation and maintenance option selection.
	Comments, and responses to comments generated by public notification.
	Transmittal Letter
	Signature of Municipal Official
	Date submittal determined complete



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

### TRANSMITTAL LETTER FOR SEWAGE FACILITIES PLANNING MODULE

		DE	PARTMENT OF	ENVIRONMENTAL PROT	ECTION (DEP) US	E ONLY	
DE	P CODE#	CLIE	NT ID#	SITE ID#	APS	SID#	AUTH. ID#
No 2 P	rtheast R Public Squ			al agency)		Date	
Wil	kes-Barre	e, PA18711-079	0				
Dear Sir/l	Madam:						
Attached	please fir	nd a completed	sewage facilit	ies planning module p	repared by Wi	lliam J Rudy.	P.E.
		ennoni Associa			Allentown Meta		(Name)
		(Title)				(Name)	
a subdivis	sion, com	mercial ,or indu	strial facility lo	ocated in City of Allent	own		
						Coı	unty.
Check or	ne	(City, Borou	gh, Township)				•
☐ (i)	propose Plan), a	ed	supplemer d for submiss	it for new land develo sion to DEP ☐ transm	pment to its On the dele	fficial Sewage egated LA for	y the municipality as a e Facilities Plan (Officia approval in accordance ies Act (35 P.S. §750),
	OR	·		,		on ago , aomi	007101 (001 .0. 3700),
☐ (ii)	land de	nning module v velopment to its d below:	vill not be ap <sub>l</sub> s Official Plar	proved by the municing because the project	pality as a prop described there	osed revision ein is unacce	or supplement for new ptable for the reason(s)
	Check	Boxes					
	the	planning mod	lule as prepa	rformed by or on beh red and submitted b e time schedule for co	y the applican	t. Attached	may have an effect on hereto is the scope of
	ord 25	linances, officia	illy adopted c	comprehensive plans	and/or environi	mental plans	posed by other laws or (e.g., zoning, land use, s or plans are attached
	☐ Ot	ner (attach addi	tional sheet a	iving specifics).			
Municipal approving	Secretai			•	es which comp	onents are b	eing transmitted to the
X Modu ☐ 2 Individ	lution of Ad le Comple dual and C sal of Sew	teness Checklist ommunity Onlot	X 3 Sewaç ☐ 3s Small	ge Collection/Treatment Flow Treatment Facilities	§ <b>⊠</b> 4B	County Planr	inning Agency Review ning Agency Review int Health Department
Municip	oal Secretar	y (print)		Signa	ture		Date

2. RESOLUTION FOR PLAN REVISION



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

DEP Code No.	

# RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE (SUPERVISORS) (COMMISSIONERS) (COUNCILMEN) of \_\_\_\_\_Allentown

(TOWNSHIP) (BOROUGH) (CITY), Lehigh	COUNTY, PENNSYLVANIA (hereinafter "the municipality").
Facilities Act, as Amended, and the rules and Regulation (DEP) adopted thereunder, Chapter 71 of Title 25 of the Sewage Facilities Plan providing for sewage services and and/or environmental health hazards from sewage waster.	1966, P.L. 1535, No. 537, known as the <i>Pennsylvania Sewage</i> ons of the Pennsylvania Department of Environmental Protection Pennsylvania Code, require the municipality to adopt an Official lequate to prevent contamination of waters of the Commonwealth es, and to revise said plan whenever it is necessary to determine new land development conforms to a comprehensive program of
WHEREAS Allentown Economic Development Corpidentified as	poration has proposed the development of a parcel of land
Allentwon Metal Works , and described name of subdivision	in the attached Sewage Facilities Planning Module, and
proposes that such subdivision be served by: _(check	all that apply), ⊠ sewer tap-ins, ⊡ sewer extension, □ new nunity onlot systems, □ spray irrigation, □ retaining tanks, □
WHEREAS, City of Allentown	finds that the subdivision described in the attached
Sewage Facilities Planning Module conforms to applicate ordinances and plans, and to a comprehensive program	able sewage related zoning and other sewage related municipal of pollution control and water quality management.
NOW, THEREFORE, BE IT RESOLVED that the (S	Supervisors) (Commissioners) (Councilmen) of the (Township)
	adopt and submit to DEP for its approval as a revision to the above referenced Sewage Facilities Planning Module which is
1, Se	ecretary,
(Signature)	Councilmen), hereby certify that the foregoing is a true copy of
	, adopted,, 20
Municipal Address:	
	Seal of
	Governing Body
Telephone	



LEHIGH COUNTY AUTHORITY

1053 SPRUCE ROAD \* P.O. BOX 3348 \* ALLENTOWN, PA 18106-0348 610-398-2503 \* FAX 610-398-8413 \* www.lehighcountyauthority.org email: service@lehighcountyauthority.org

August 1, 2022

Mr. Robert Gates Planning Director City of Allentown 435 Hamilton Street Allentown, PA 18101

SUBJECT: Land Development – 606 S 10<sup>th</sup> St – Allentown Metal Works Project Will Serve - Sewer Service

Dear Mr. Gates:

Lehigh County Authority (LCA) is willing to provide public sewer service in the requested amount of 3,570 GPD to the proposed Allentown Metal Works project located at 606 S 10th Street. The final GPD total will be reflected on the approved DEP sewer planning module.

LCA has capacity at this time to provide sewer service in our collection system and at the city wastewater treatment plant for this development.

Tapping fees will be based upon the City of Allentown's ordinances and LCA's schedule of rate fees.

Sewer service is conditioned upon the following:

- 1. The developer obtaining approval of a PA-DEP Sewage Facilities Planning Module.
- 2. LCA approval of the site and plumbing plans.
- 3. Developer obtaining any road opening permits from the municipality and/or PA-DOT to construct the sewer mains and/or services.
- 4. Developer executing a Developer's Sewer System Agreement or a Construction Permit with LCA for construction of the sewer mains and/or services.
- 5. Developer installation of the sewer system in accordance with the approved plans and applicable LCA policies and regulations, including the current General Specifications for Sewer System Construction.
- 6. Developer compliance with the terms and conditions of LCA's Rules and Regulations for Sewer Service, including completion of an Application for Sewer Service and payment of applicable fees and charges in its Schedule of Wastewater Rates & Charges. Tapping fees shall be paid to LCA prior to building permits being provided by the City.

Sincerely,

Jacob Hunsicker

Capital Works Project Specialist

gaeol Hunsicher

cc: William Rudy, PE - Pennoni

3. COMPONENT 3
3. COMPONENT 3



1053 Spruce Road \* P.O. Box 3348 \* Allentown, PA 18106-0348 (610) 398-2503 \* FAX (610) 398-8413 \* Email: service@lehighcountyauthority.org

### LETTER OF TRANSMITTAL

				Date:	September 21, 2022
To:	Brandon J City of Alle 435 Hamil Allentown,	entown			
Re:		Metal Works – 606 Sou Lehigh County, PA	th 10th Stre	eet	
No. of <u>Copies</u> 1 1	<u>Date</u> 9/21/22 9/21/22 9/21/22	Description Completed Sewer Plate Plan Showing Path of Appendix A Cover Let	Sewage to	ule WWTP	
For For	Requested Your Inform Your Comn Action By Y	nents		Approved Approved As N Revise And Re For Your Files	

Comments:

LCA has completed the Sewer Planning Module for the subject property. The hard copy will be sent to you in the mail. Please contact me if you have any questions.

From: Jacob Hunsicker

cc: Scott Novatnak, DEP (via email)

Robert Corby, DEP (via email)
Craig Messinger, COA (via email)
Mark Hartney, COA (via email)
Jesse Sadua, COA (via email)
Phil DePoe, LCA (via email)
Liesel Gross, LCA (via email)
William Rudy, Pennoni (via email)

,			



1053 SPRUCE ROAD \* P.O. BOX 3348 \* ALLENTOWN, PA 18106-0348 610-398-2503 \* FAX 610-398-8413 \* www.lehighcountyauthority.org email: service@lehighcountyauthority.org

September 20, 2022

Brandon Jones Associate Planner City of Allentown 435 Hamilton Street Allentown, PA 18101

RE:

Allentown Metal Works – 606 South 10th Street, City of Allentown

Sewer Module - Chapter 94 Consistency Determination - Appendix A

Dear Mr. Jones,

This letter and approval for the attached Sewage Facilities Planning Module is based on the current estimate of available wastewater capacity. This letter does not promise, guarantee or assure any future conveyance or treatment allocation without compliance with all applicable rules and regulations, payment of all necessary fees and availability of the respective allocation at that time.

In accordance with the Interim Act 537 Plan submitted by the Kline's Island Sewer System (KISS) municipalities to the Pa. Department of Environmental Protection and approved on June 25, 2021, an amount equal to the property or development's wastewater flow will be allocated from the Connection Management Plan at the time of approval of the Sewage Facilities Planning Module. This property or development's wastewater flow need, as represented in the attached Sewage Planning Module, is 3,570 gallons per day. Therefore, the Connection Management Plan balance will be adjusted as follows:

2020 Connection Management Plan Allocation (all numbers in gallons per day)	1,500,000
2021-2025 Connection Management Plan Allocation	3,117,129
Previously allocated from prior planning module submissions (since 1/17/20)	-1,538,444
This submission	-3,570
Remaining Allocation in KISS Connection Management Plan (as of 9/20/22)	3,075,115

Please contact me if you have any questions about this information.

Chief Executive Officer

cc:

Scott Novatnak, DEP Robert Corby, DEP Craig Messinger, COA Mark Hartney, COA Jesse Sadua, COA Phil DePoe, LCA William Rudy, Pennoni

3800-FM-BPNPSM0353 Rev. 2/2015 Form

### W pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

#### 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 Allentown Metal Works
- 2. Brief Project Description Redevelopment of the property located at 606 south 10th street. Including the rehabilitation of 3 buildings and building demolition of existing building, associated parking and reletated site improvements

B. CLIENT (MUNICIPALITY) INFO	DRMATION (S	See Section B of instruction	ns)		
Municipality Name	County	City		oro	Twp
Allentown	Lehigh	$\boxtimes$			
Municipality Contact Individual - Last Name	First Name	МІ	Suffix	Title	
Unger	Scott			Executive	Director
Additional Individual Last Name	First Name	MI	Suffix	Title	
Municipality Mailing Address Line 1		Mailing Address Line 2			
905 Harrison Street					
Address Last Line City		State	ZIP+4		
Allentown		PA	18103		
Area Code + Phone + Ext.	FAX (optional)	Email	(optional)		
(610)435-8890		sunge	r@allentowr	nedc.com	

C. SITE INFORMATION (See Section C	of instruction	nne)				
Site (Land Development or Project) Name	or manach	OIIO/				
Allentown Metal Works						
Site Location Line 1		Site Lo	cation	Line 2		
606 South 10th Street						
Site Location Last Line City	State	W. III	ZIF		Latitude	Longitude
Allentown	PA		180	013	40.59482	6 -75.478121
Detailed Written Directions to Site						
		1 1 6 111	41	t	Maria Ba	f1-1014-41
Description of Site Rehabilitation of 3 buildings site will include repaying drive aisles and revege	s on site and	i renabilita	ating t	ne surrour	iding site areas. Re	nabilitation of the
aisles to a lawn condition, installing two storms	etaung area: ewer outfall:	s along th	e Littl	e Lehiah (	Creek and installing	other utilities.
Site Contact (Developer/Owner)						
Last Name First Na	ame		MI	Suffix	Phone	Ext.
Unger Scott					(610)462-0756	
Site Contact Title		Site Cont	act Fi	rm (if none	e, leave blank)	
Executive Director		Allentowr	Ecor	omic Dev	elopment Corporation	on
FAX		Email				
		sunger@	allent	ownedc.co	m	
Mailing Address Line 1		Mailing A	ddres	s Line 2		
905 Harrison Street						
Mailing Address Last Line City		State		ZIF	P+4	
Allentown		PA		18	103	
D. PROJECT CONSULTANT INFOR	RMATION	(See Sec	tion D	of instruc	tions)	
Last Name	First N	ame			MI	Suffix
Rudy	William				J	
Title	Consul	lting Firm	Name	<del>)</del>		
Senior Engineer	Penno					
Mailing Address Line 1		Mailing A		s Line 2		
5072 Ritter Road		Suite 102				
Address Last Line - City	State		ZIP+		Country	
Mechanicsburg	PA	F. 4	1705	55	US Area Code	LEAV
Email Area Code + Pr wrudy@pennoni.com 717-620-5948	ione	Ext.			Area Code	FTRA
E. AVAILABILITY OF DRINKING W	ATER SU	PPLY				
The first transfer of the contract of the cont				er er gerene.		The second section of the second section secti
The project will be provided with drinking	water from	the follow	ring so	ource: (Ch	ieck appropriate bo	x)
Individual wells or cisterns.						
A proposed public water supply.						
An existing public water supply.						
If existing public water supply is to be from the water company stating that	e used, pro it will serve	vide the r the projec	ame t.	of the wate	er company and atta	ach documentation
Name of water company: Lehigh Co	unty Author	ity				
F. PROJECT NARRATIVE (See Secti	on F of instr	uctions)				

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.	CO	LLECTION SYSTEM				
	a.	Check appropriate box concerning collection system				
		New collection system				
		Grinder pump(s)				
	Cle	an 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 15				
		Connections 1				
	Name of:  existing collection or conveyance system City of Allentown  owner City of Allentown L(A - Agent  existing interceptor Little Lehigh Jordan Citek Interceptor  owner Lehigh County Authority (Allentown WWTP)					
2.	WA	STEWATER 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.	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 Allentown WWTP				
		NPDES Permit Number for existing facility PA 002 6000				
		Clean Streams Law Permit NumberN/ A				
		Location of discharge point for a new facility. Latitude 40.59602 Longitude -75.47545				
	b.	The following certification statement must be completed and signed by the wastewater treatment facility permitee or their representative.				
		As an authorized representative of the permittee, I confirm that the Kline's Island Wwt (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 City of Allentown, LCA - Agent				
		Name of Responsible Agent Liefel M. 6:056				
		Agent Signature Muscl Many Date 9/20/2022				
		(Also see Section I. 4.)				

 $\boxtimes$ 

3800-FM-BPNPSM0353 Rev. 2/2015 Form									
			***, *** **	111	ASTEWATER DISPOSAL FACILITIES	<b>3</b> (C	Continued)		
,	3.			PLAN	। information is to be submitted on a plot plan (	of the	a proposed subdivision		
				_	,	;	Any designated recreational or open space		
		a.		•	and proposed buildings. and lot sizes.	j.	area.		
		b.		it imes Ijacent		k.	Wetlands - from National Wetland Inventory		
		c. d.		*	ler of tract.		Mapping and USGS Hydric Soils Mapping.		
		е.	Ex	disting cation	and proposed sewerage facilities. Plot of discharge point, land application field, Id, COLDS, or LVCOLDS if a new facility is	***	Flood plains or Flood prone areas, floodways, (Federal Flood Insurance Mapping)		
			•	opose		m.	Prime Agricultural Land.		
		f.			o-in or extension to the point of connection to collection system (if applicable).	n.	Any other facilities (pipelines, power lines, etc.)		
		g.			and proposed water supplies and surface	0.	Orientation to north.		
				•	ells, springs, ponds, streams, etc.)	p.	Locations of all site testing activities (soil profile test pits, slope measurements,		
		h. i.	E	kisting	and proposed rights-of-way. and proposed buildings, streets, roadways,		permeability test sites, background sampling, etc. (if applicable).		
			ac	cess r	oads, etc.	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.	WET	LA	ND PR	OTECTION				
		١	/ES	NO					
a.  Are there wetlands in the project area? If yes, ensure these areas shown in the mapping or through on-site delineation.					ensure these areas appear on the plot plan as tion.				
	b. Are there any construction activities (encroachments, or obstructions) proposed in, through the wetlands? If yes, Identify any proposed encroachments on wetlands ar whether a General Permit or a full encroachment permit will be required. If a full required, address time and cost impacts on the project. Note that wetland encro should be avoided where feasible. Also note that a feasible alternative MUST BE SE to an identified encroachment on an exceptional value wetland as defined in Chaldentify any project impacts on streams classified as HQ or EV and address impart permitting requirements of said encroachments on the project.						encroachments on wetlands and identify ent permit will be required. If a full permit is ne project. Note that wetland encroachments at a feasible alternative MUST BE SELECTED nal value wetland as defined in Chapter 105. ied as HQ or EV and address impacts of the		
	5.	PRI	VIE.	AGRIC	CULTURAL LAND PROTECTION				
	YES NO								
				$\boxtimes$	Will the project involve the disturbance of pr	ime :	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 no				
Have prime agricultural land protection issues been settled?					een settled?				
	6. HISTORIC PRESERVATION ACT								
		YES	3	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 <a href="https://www.dep.state.pa.us">www.dep.state.pa.us</a>, 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 ecessary) is/are attached.			
		completed "Pennsylvania Natural Diversity Inventory (PNDI) Project Planning & Environmental Review form," (PNDI Form) available at <a href="www.naturalheritage.state.pa.us">www.naturalheritage.state.pa.us</a> , and all required supporting documentation attached. I request DEP staff to complete the required PNDI search for my project. I realize that my lanning 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 seceived by DEP.			
		Applicant or Consultant Initials			
Н.	ALT	RNATIVE SEWAGE FACILITIES ANALYSIS (See Section H of instructions)			
	$\boxtimes$	In alternative sewage facilities analysis has been prepared as described in Section H of the attached instructions and is attached to this component.			
		he applicant may choose to include additional information beyond that required by Section H of the attached astructions.			
l.		PLIANCE WITH WATER QUALITY STANDARDS AND EFFLUENT LIMITATIONS (See I of instructions) (Check and complete all that apply.)			
	1.	Vaters 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.	nterstate 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	ributaries To The Chesapeake Bay			
		The proposed project result in a new or increased discharge of sewage into a tributary to the Chesapeake Bay. This proposal for a new sewage treatment facility or new flows to an existing facility includes total nitrogen and total phosphorus in the following amounts: pounds of TN per year, and pounds of TP per year. Based on the process design and effluent limits, the total nitrogen treatment capacity of the wastewater treatment facility is pounds per year and the total phosphorus capacity is pounds per year as determined by the wastewater treatment facility permitee. The permitee has determined that the additional TN and TP to be contributed by this project (as modified by credits and/or offsets to be provided) will not cause the discharge to exceed the annual total mass limits for these parameters. Documentation of compliance with nutrient allocations is attached.  Name of Permittee Agency, Authority, Municipality Lehigh County Authority			
		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 3570 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.

		d/or Permitted	b. Present	MGD Flows <del>(gpd</del> )	c. Projected Flows in 5 years ( <del>gpd)</del> * 6i <sup>2</sup> (2 years for P.S.)	
	Average	Peak	Average	Peak	Average	Peak
Collection	1,55	6.21	0.07	0.50	0.08	0.51
Conveyance	58	81	30	78"	31	80 '11
Treatment	40	40	32.3	40	37.4	42

3. Collection and Conveyance Facilities

(1) Peak Hourly Flow - Est. mated

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

YES NO

a. 

This project proposes sewer extensions or tap-ins. Will these actions create a hydraulic overload within five years on any existing collection or conveyance facilities that are part of the system?

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

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

b.	Collection System
	Name of Agency, Authority, Municipality (ity of Allentown, LCA - Agent
	Name of Responsible Agept Liffel M. Gruss
	Agent Signature Muse M (Just Date 9/20/2022

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)					
c. Conveyance System					
Name of Agency, Authority, Municipality (ity of Allentown, LCA - Agent					
Name of Responsible Agent Liesel M. 60055					
Agent Signature					
Date					
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 (ity of Allentown, LCA - Agent					
Name of Responsible Agent Liesel M. Cross					
Agent Signature					
Date9/ro/rar					
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.					
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	. DETAI	LED HYDROGEOLOGIC STUDY (See Section N of instructions)				
	☐ The	detailed hydrogeologic information required in Section N. of the instructions is attached.				
Ο.	SEWA	GE 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.				
	to assure	spond to the following questions, attach the supporting analysis, and an evaluation of the options available long-term proper operation and maintenance of the proposed non-municipal facilities. If No, skip the er of Section O.				
2.	Project F	Flows gpd				
	Yes	No				
3.		Is the use of nutrient credits or offsets a part of this project?				
	If yes, at offsets w	ttach a letter of intent to puchase the necessary credits and describe the assurance that these credits and vill be available for the remaining design life of the non-municipal sewage facility;				
(For	completi	on by non-municipal facility agent)				
4.		n 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					
	a. 🗌	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					

3800-FM-BPNPSM0353 Rev. 2/2015 Form

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 the disposal of sewage, will this action create a hydraulic or organic overload at that for					
				ning module for sewage facilities will not be reviewed by the municipality, delegated local EP until this issue is resolved.		
		capacity	and is	nent facility permittee must sign below to indicate that this facility has adequate treatment able to provide wastewater treatment services for the proposed development in accordance ) and that this proposal will not impact that status.		
	b.	Name o	f Facility			
		Name o	f Respor	nsible Agent		
		Agent S	ignature			
(For	com			unicipality)		
6.		The SEI	LECTED	<b>OPTION</b> necessary to assure long-term proper operation and maintenance of the proposed cilities is clearly identified with documentation attached in the planning module package.		
Ρ,	PU	BLIC N	OTIFIC	ATION 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.			e project propose the construction of a sewage treatment facility?		
	2.		Will the per day	project change the flow at an existing sewage treatment facility by more than 50,000 gallons?		
	3.			project result in a public expenditure for the sewage facilities portion of the project in excess		
	4.		Will the within the	project lead to a major modification of the existing municipal administrative organizations ne municipal government?		
	5.		Will the municip	project require the establishment of new municipal administrative organizations within the eal government?		
	6.			project result in a subdivision of 50 lots or more? (onlot sewage disposal only)		
	7.			e project involve a major change in established growth projections?		
	8.		Does the Sewage	e project involve a different land use pattern than that established in the municipality's Official e Plan?		

P. PUBLIC NOTIFICATION REQUIREMENT cont'd. (See Section P of instructions)				
9. Does the project involve the use of la gpd)?	rge volume onlot sewage disposal systems (Flow > 10,000			
	a conflict between the proposed alternative and consistency ), (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	n Q of instructions)			
	ne and correct to the best of my knowledge, information and not are made subject to the penalties of 18 PA C.S.A. §4904			
Scott Unger	- / /y			
Name (Print)	Signature			
Executive Director Title	8.29.20 23 Date			
905 Harrison Street, Allentown, PA 18103	610-435-8890			
Address	Telephone Number			
R. REVIEW FEE (See Section R of instructions)				
The Sewage Facilities Act establishes a fee for the DEP planning module review. DEP will calculate the review fee for the project and invoice the project sponsor <b>OR</b> 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 <b>only</b> one new lot and is the <b>only</b> 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			

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1.			1.7	_	v ı	_			_	_	. 6 6 16	J1 11	[1 1 1.	151	- Z-I

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.

The fee is based upon:

- The number of lots created or number of EDUs whichever is higher.
- For community sewer system projects, one EDU is equal to a sewage flow of 400 gallons per day.
- 2. For a surface or subsurface discharge system, use the appropriate one of these formulae.
  - A. A new surface discharge greater than 2000 gpd will use a flat fee:
    - \$1,500 per submittal (non-municipal)
    - \$ 500 per submittal (municipal)
  - B. An increase in an existing surface discharge will use:

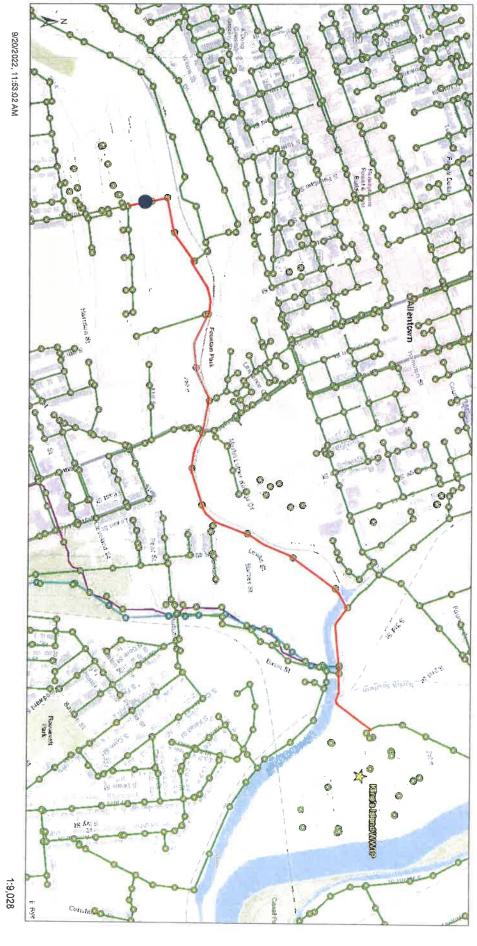
```
#_____ Lots (or EDUs) X $35.00 = $ _____
```

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

The fee is based upon:

- · The number of lots created or number of EDUs whichever is higher.
- For community sewage system projects one EDU is equal to a sewage flow of 400 gallons per day.
- For non-single family residential projects, EDUs are calculated using projected population figures
- C. A sub-surface discharge system that requires a permit under The Clean Streams Law will use a flat fee:
  - \$ 1,500 per submittal (non-municipal)
  - \$ 500 per submittal (municipal)

# LCA Flow Map - 606 S 10th St



Sources: Earl, HERE, Garmin, Intermap, in:
GEBCO, USGS, PAO, NPS, NRCAN, Geobase.
Ordnance Survey, Earl Appan, MEIT, Earl Chinary and Community
OpenStreetMap contributors, and the GIS User Community
Web AppBulker for ArcGIS

Salisbury Manholes COA Sanitary Mains Allentown Customer COA Manholes

Sallsbury
Sanitary Mains
Suburban Force
Mains

4. OTHER REQUIREMENTS - COMPONENT 4

4A. Municipal Planning Agency Review



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

DEP Code #: 2-39001276-3

## 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** Allentown Metal Works - Building G (Phase 1) REVIEW SCHEDULE (See Section B of instructions) SECTION B. Date plan received by municipal planning agency December 14, 2023 2. Date review completed by agency December 26, 2023 AGENCY REVIEW (See Section C of instructions) SECTION C. Yes No Is there a municipal comprehensive plan adopted under the Municipalities Planning Code  $\boxtimes$ 1. (53 P.S. 10101, et seq.)?  $\bowtie$ 2. Is this proposal consistent with the comprehensive plan for land use? If no. describe the inconsistencies Is this proposal consistent with the use, development, and protection of water resources?  $\bowtie$  $\Box$ 3. If no, describe the inconsistencies  $\boxtimes$ Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation? П  $\boxtimes$ Does this project propose encroachments, obstructions, or dams that will affect wetlands? 5. If yes, describe impacts No wetland encroachment (see p. 5 of attached wetalnds report). X 6. Will any known historical or archaeological resources be impacted by this project? If yes, describe impacts No historical/archaeological Impact. (see MOU bet. PHMC and City) П  $\boxtimes$ 7. Will any known endangered or threatened species of plant or animal be impacted by this project? If yes, describe impacts No known impact (see PNDI findings, attached).  $\boxtimes$ Is there a municipal zoning ordinance? П 8. Is this proposal consistent with the ordinance?  $\boxtimes$ 9. If no, describe the inconsistencies 10. Does the proposal require a change or variance to an existing comprehensive plan or zoning  $\boxtimes$ П ordinance? 11. Have all applicable zoning approvals been obtained?  $\boxtimes$ П  $\boxtimes$ 12. Is there a municipal subdivision and land development ordinance?

### 3850-FM-BCW0362A 6/2016

SECTION C.		AGEN	AGENCY REVIEW (continued)						
Yes	No								
$\boxtimes$		13.	Is this proposal consistent with the ordinance?						
			If no, describe the inconsistencies						
		14.	Is this plan consistent with the municipal Official Sewage Facilities Plan?						
			If no, describe the inconsistencies						
		15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?						
			If yes, describe						
		16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision? (not applicable)						
			If yes, is the proposed waiver consistent with applicable ordinances?						
			If no, describe the inconsistencies						
			9						
		17.	Name, title and signature of planning agency staff member completing this section:						
			Name: Jesus Sadiua						
			Title: City Planner						
			Signature:						
			Date: December 26, 2023						
			Name of Municipal Planning Agency: <u>City of Allentown</u>						
			Address 435 Hamilton Street						
			Telephone Number: 610-437-7613 x2865						
SECTIO	N D.	ADDIT	ONAL COMMENTS (See Section D of instructions)						
This com	ponen oposed	t does n plan to	ot limit municipal planning agencies from making additional comments concerning the relevancy other plans or ordinances. If additional comments are needed, attach additional sheets.						
			ust complete this component within 60 days.						
This com	ponen	t and an	y additional comments are to be returned to the applicant.						

4B. Count	y Planning Ag	gency Review	

Planning for the Future of Lehigh and Northampton Counties at 961 Marcon Bivd., Ste 310, Allentown, PA 18109 🔳 (610) 264-4544 🖶 Ivpc@lvpc.org 🖿 www.lvpc.org

STEVEN GLICKMAN Chair

CHRISTOPHER AMATO
Vice Chair

KEVIN SCHMIDT Treasurer

BECKY A. BRADLEY, AICP Executive Director

December 14, 2023

Mr. Thomas Serpico, PE, ENV SP Pennoni 81 Highland Avenue, Suite 230 Bethlehem, PA 18017

Re: Act 537 Review - Sewage Facilities Planning Module

Allentown Metal Works – Building G City of Allentown, Lehigh County DEP Code No. 2-39001276-3

Dear Mr. Serpico:

The Lehigh Valley Planning Commission (LVPC) reviewed the above-referenced planning module according to the requirements of Act 537, the Pennsylvania Sewage Facilities Act. We offer the following comments.

This sewage facilities planning module is intended for the proposed rehabilitation of Building G, an existing 51,004 square foot industrial building located at 606 South 10th Street on a 17.5-acre parcel. The development is proposed to be served by public sewage disposal by connecting to the existing sewer system located within South 10th Street, with ultimate treatment at the Kline's Island wastewater treatment plant. This proposal aligns with the *FutureLV: The Regional Plan* action to 'match development intensity with sustainable infrastructure capacity' (of Policy 1.1) and 'promote development in areas with public sewer and water capacity' (of Policy 3.2).

Enclosed please find an executed Module Component 4b. Please call me if you have any questions regarding this review.

Sincerely.

Susan L. Rockwell

& I. Marlall

Senior Environmental Planner

Enclosure

cc: Brandon Jones, Associate Planner, City of Allentown
Mark Hartney, Deputy Director of Community and Economic Development, City of Allentown
Jesus Sadiua, Senior Planner, City of Allentown
Robert Corby, PA Department of Environmental Protection
Scott Unger, Applicant



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

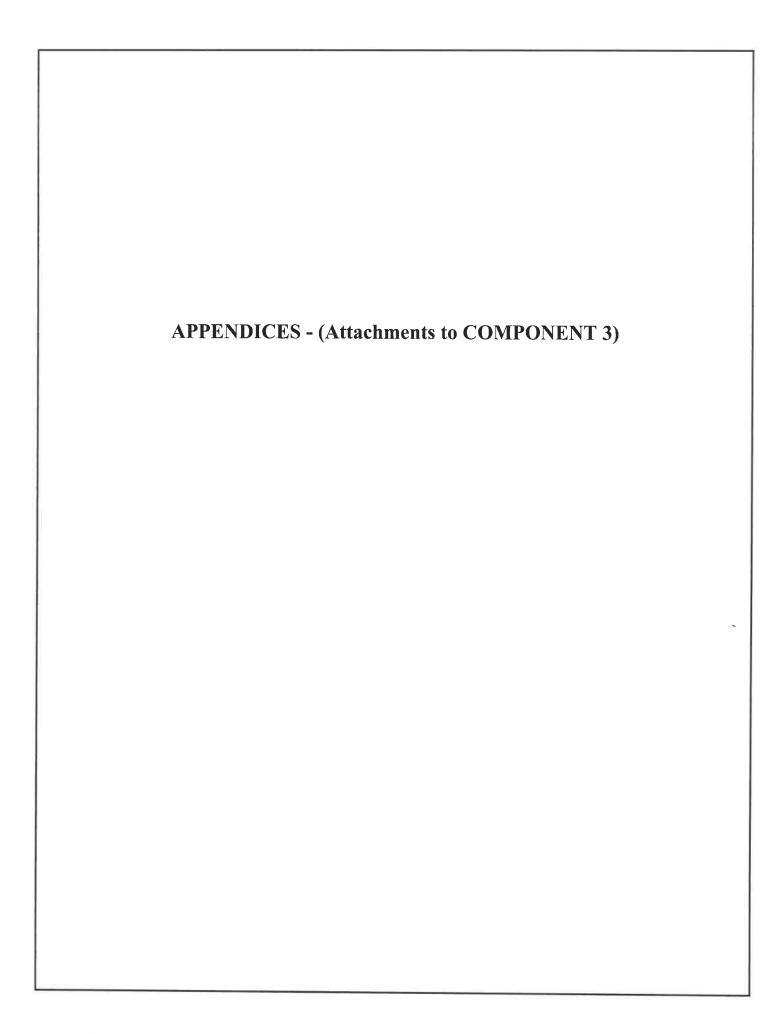
DEP Code #: 2-39001276-3

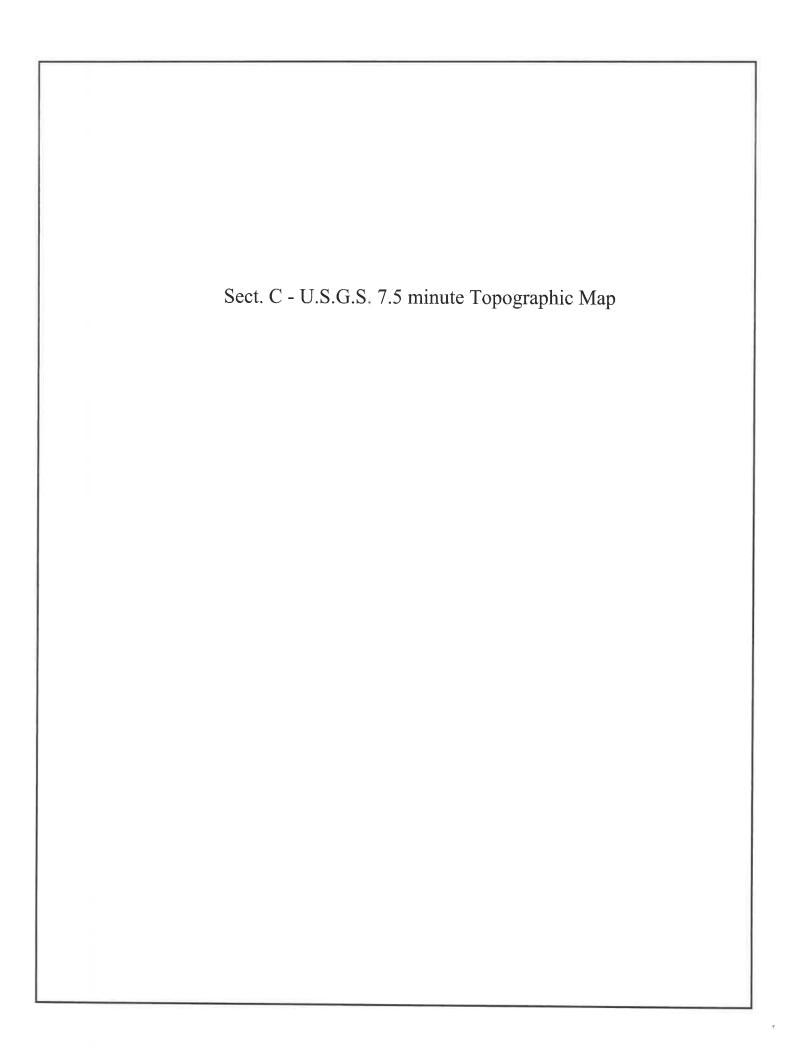
### SEWAGE FACILITIES PLANNING MODULE COMPONENT 4B - COUNTY PLANNING AGENCY REVIEW

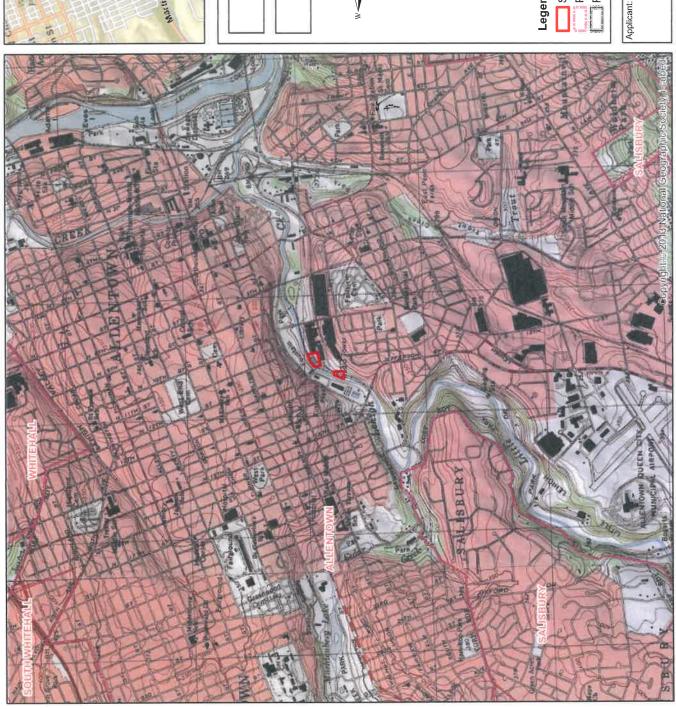
(or Planning Agency with Areawide Jurisdiction)

Onc	copy or	uns r	Sponsor: To expedite the review of your proposal, one copy of your completed planning package and Planning Agency Review Component should be sent to the county planning agency or planning agency soliction for their comments.					
SEC	SECTION A. PROJECT NAME (See Section A of instructions)							
Proj	ect Nam	е						
Aller	itown M	etal V	Vorks - Building G					
SEC	TION B.	. R	EVIEW SCHEDULE (See Section B of instructions)					
1.	Date p	lan re	ceived by county planning agency					
2.	Date p	lan re	ceived by planning agency with areawide jurisdiction December 12, 2023					
	Agenc	y nam	ne Lehigh Valley Planning Commission					
3.	Date re	eview	completed by agency December 14, 2023					
SEC	TION C.	. A	GENCY REVIEW (See Section C of instructions)					
Yes	No	1.	Is there a county or areawide 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? Area designated for					
		3.	Is this proposal consistent with the comprehensive plan for land use? Development in ruture LV  Does this proposal meet the goals and objectives of the plan?  Meets Schaffel goals 1 objectives  If no, describe goals and objectives that are not met					
$\boxtimes$		4.	Is this proposal consistent with the use, development, and protection of water resources?					
			If no, describe inconsistency					
$\boxtimes$		5.	Is this proposal consistent with the county or areawide comprehensive land use planning relative to Prime Agricultural Land Preservation?					
			If no, describe inconsistencies:					
	$\boxtimes$	6.	Does this project propose encroachments, obstructions, or dams that will affect wetlands?					
			If yes, describe impact					
		7.	Will any known historical or archeological resources be impacted by this project? PHMC determine H					
			If yes, describe impacts					
		8.	Will any known endangered or threatened species of plant or animal be impacted by the development project? See PNDI results					
			If yes, describe impacts					
	$\boxtimes$	9.	Is there a county or areawide zoning ordinance?					
		10.	Does this proposal meet the zoning requirements of the ordinance? $\mathcal{V}/\mathcal{A}$					
			If no, describe inconsistencies					

SECTI	ON C.	AG	GENCY REVIEW (continued)
Yes	No		
		11.	Have all applicable zoning approvals been obtained? N/A
$\boxtimes$		12.	Is there a county or areawide subdivision and land development ordinance? Not applicable to the Does this proposal meet the requirements of the ordinance? U/A City of Allentown
		13.	Does this proposal meet the requirements of the ordinance? U/A City of Milentown
			If no, describe which requirements are not met
		14.	Is this proposal consistent with the municipal Official Sewage Facilities Plan? See Municipal of Interpretation
			If no, describe inconsistency interpretential
		15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?
			If yes, describe
		16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision? $\mathcal{U}/\mathcal{H}$
			If yes, is the proposed waiver consistent with applicable ordinances.
			If no, describe the inconsistencies
		17.	Does the county have a stormwater management plan as required by the Stormwater Management Act?
	$\boxtimes$		If yes, will this project plan require the implementation of storm water management measures?
		18.	Name, Title and signature of person completing this section:
			Name: Susan L. Rockwell
			Title: Senior Environmental Planner
			Signature: & S. Partill
			Date: December 14, 2023
			Name of County or Areawide Planning Agency: <u>Lehigh Valley Planning Commission</u>
			Address: 961 Marcon Blvd., Suite 310, Allentown, PA 18109
			Telephone Number: 610-264-4544
SECT	ION D.	ΙA	DDITIONAL COMMENTS (See Section D of instructions)
			oes not limit county planning agencies from making additional comments concerning the relevancy of to other plans or ordinances. If additional comments are needed, attach additional sheets.
The co	ounty pl	lannir	ng agency must complete this component within 60 days.
This c	ompone	ent ar	nd any additional comments are to be returned to the applicant.









# Site Location Map Allentown East, PA USGS 24K Quadrangle

Allentown Metal Works

Allentown, Lehigh County, PA

Mapped By: Justin Clarke Scale: 1:30,000 Date: 1/21/2020

1,300

2,600

Feet 3,900

Legend

Study Area

PA Municipalities PA Counties

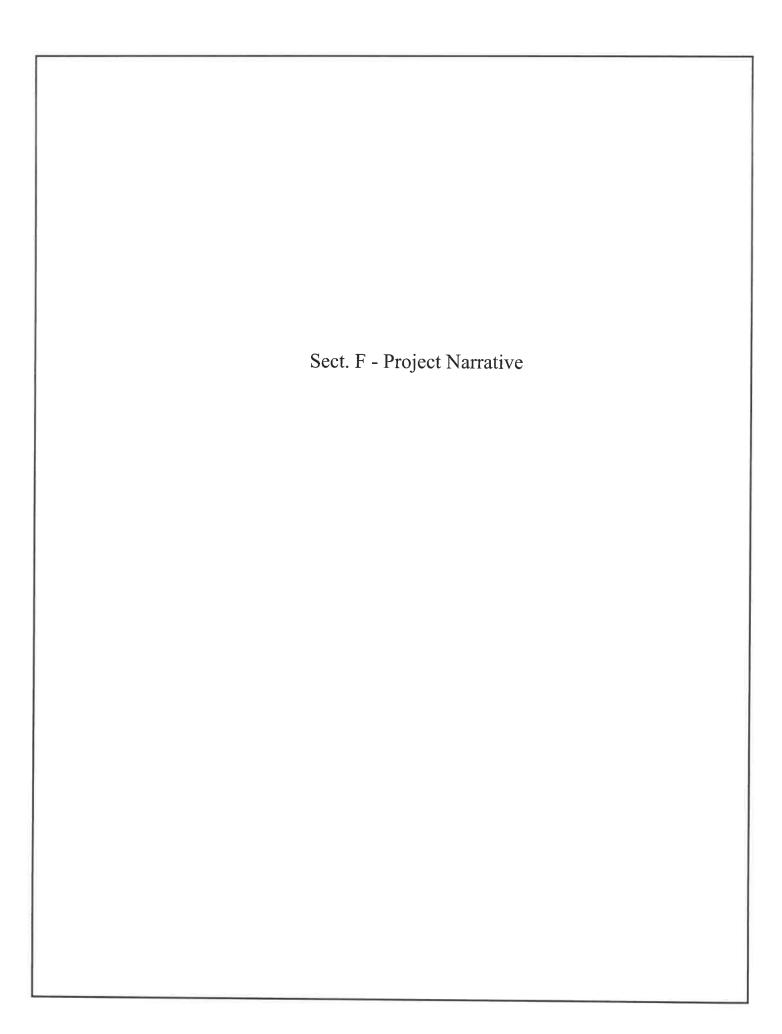
2041 Avenue C, Suite C Bethlehem, PA 18017 Pennoni

Prepared By:

**ECS/** 1095 Mill Road Pen Argyl, PA 18072 (484) 515-6806

Coordinates: 40.593367,-75.48048 HUC12 Watershed: Little Lehigh Creek

Sect. E - Availability of Drinking Water Supply and	Sewer Services



### **Project Narrative**

### Allentown Metal Works Project

### 1. Nature of Development Project

The applicant, Allentown Economic Development Corporation, proposes the redevelopment of 5.14 acres of a 17.5 acre site with an industrial warehouse located on the West Side of S. 10<sup>th</sup> St, City of Allentown, Lehigh County, Pennsylvania. The industrial warehouse is planned to include three (3) buildings and two (2) parking lots with related site improvements. The site is bounded by the Little Lehigh Creek to the north and west, S.10t St. to the east, and industrial use to the south. Other proposed improvements include associated parking for both passenger cars and trailer trucks.

An 8" SDR-26 gravity main will be constructed from existing manhole located in South 10<sup>th</sup> Street near the Bridge over the Little Lehigh. The 8" gravity will extend approximately 1,262' from the existing manhole and tie into both existing Building G and Building B.

### 2. Number of Lots or EDUs

Commercial Connections 1 lot = 15 EDU'S or 3,570 gpd

### 3. Proposed Sewage Collection, Conveyance and Treatment

The sewage flows will be serviced by the Lehigh County Authority Allentown Wastewater Treatment plant the collection, conveyance, and treatment facilities. The flow from this area of the City is than directed to the Little Lehigh Interceptor.

### 4. Projected Project Population and Sewage Flows

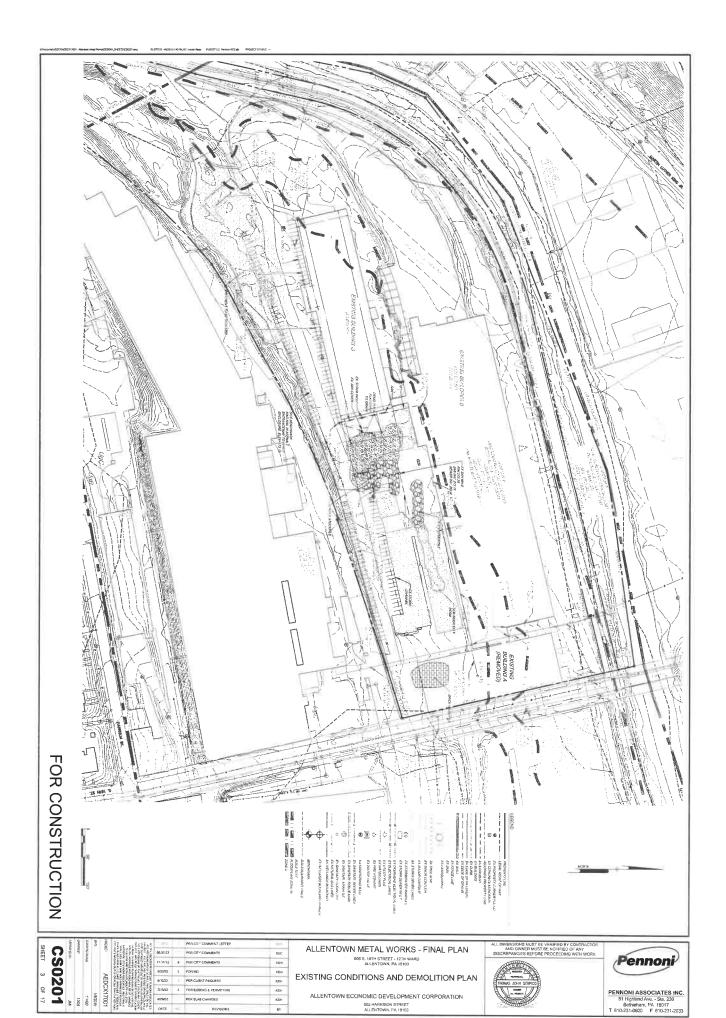
15 EDU's X 238 = 3,570 Gallons Per Day. No Additional future flow is anticipated.

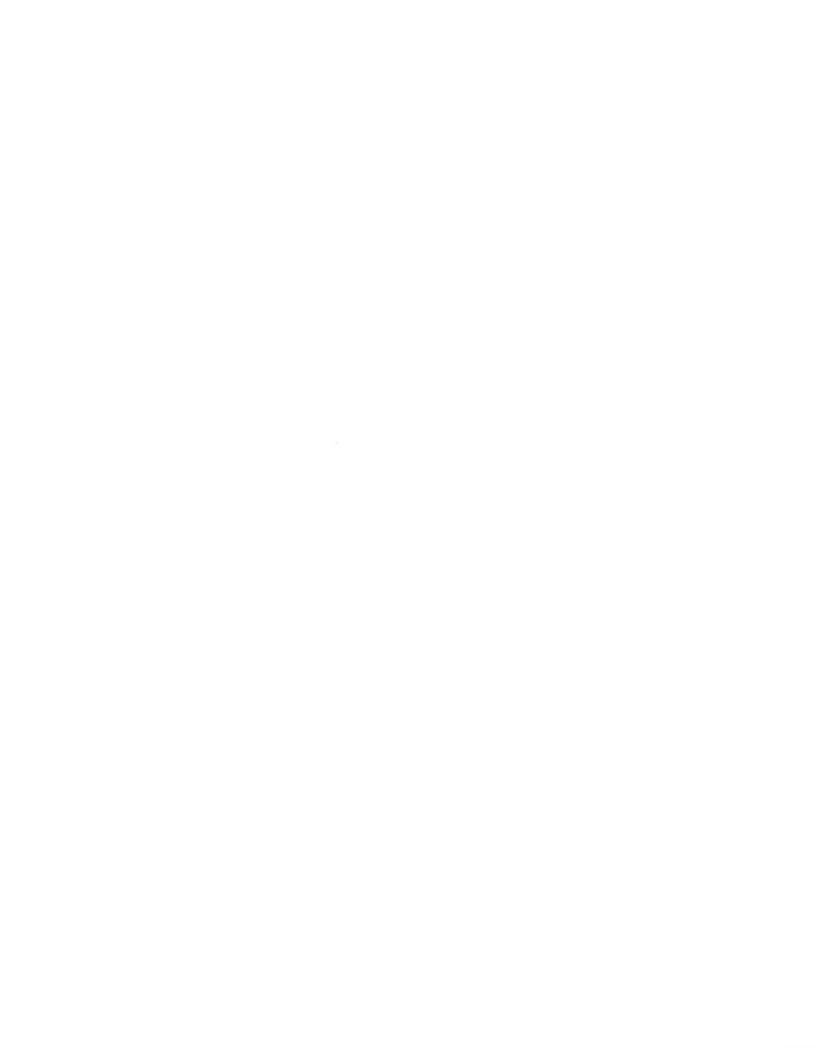
### 5. Adjacent Land Uses/Future Development

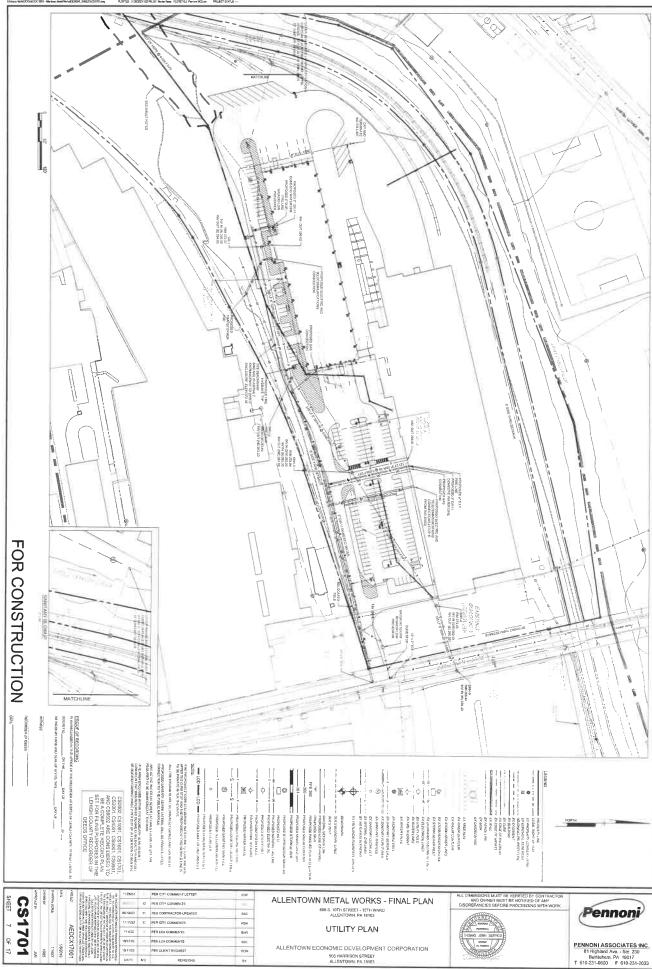
The proposed development is taking place in the General Industrial District or I-3. There is no anticipated additional area of proposed development in the future taking place in this area.

1	
	Sect. G – Proposed Wastewater Facilities Narrative
	Sect. G. Troposed wastewater ractities warrative
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Sect. G.3 - Plot Plan







SSC KOH EHR SSC KOH

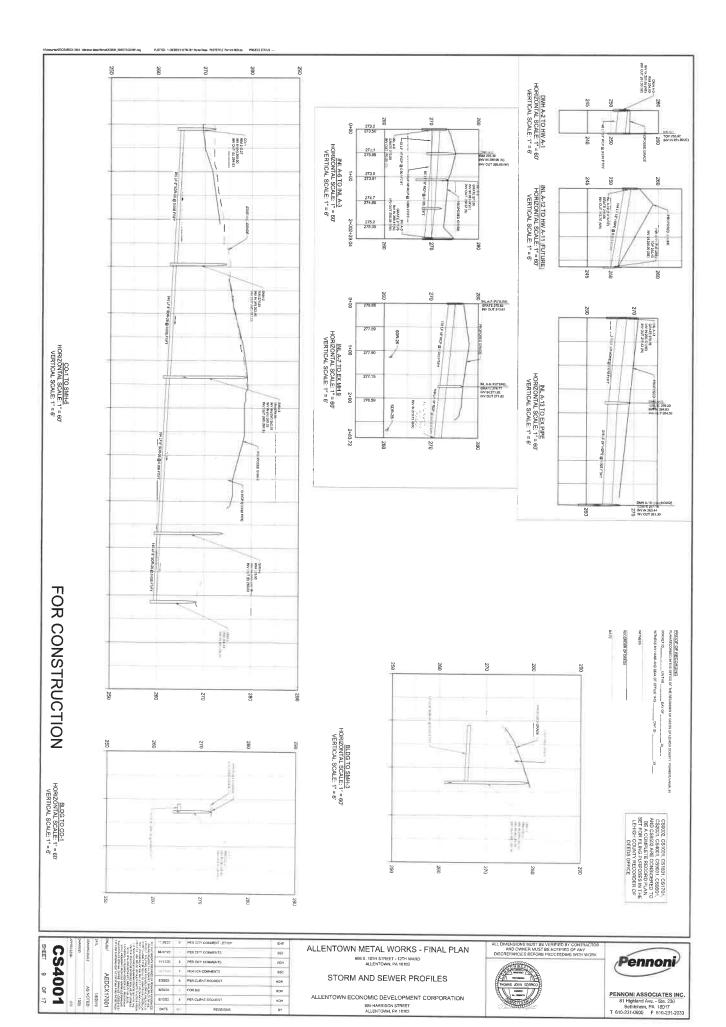
### UTILITY PLAN

ALLENTOWN ECONOMIC DEVELOPMENT CORPORATION 905 HARRISON STREET ALLENTOWN, PA 19103





PENNONI ASSOCIATES INC.
81 Highland Ave. - Ste. 230
Bethlehem, PA 18017
T 610-231-0600 F 610-231-2033



Sect. G.4 – Wetlands Report

### WETLANDS AND OTHER WATERS DELINEATION REPORT

**FOR** 

#### **Allentown Metal Works**

Allentown, Lehigh County Pennsylvania

#### **Prepared For:**

Pennoni 2041 Avenue C, Suite C Bethlehem, PA 18017

January 2020

Prepared By:

Environmental Consultation Services, inc.

1095 Mill Road Pen Argyl, PA 18072 Phone: (484) 515-6806 Email: kevinkeat@envconserv.com

		· ·

#### TABLE OF CONTENTS

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ATTA	CHMENT # 2	AERIAL IMAGERY WITH NATIONAL WETLAND INVENTORY OVERLAY
ATTA	ACHMENT # 3	WETLAND AND OTHER WATERS DELINEATION MAP WITH WEB SOIL SURVEY OVERLAY
ATTA	CHMENT # 4	PHOTOGRAPHIC INDEX
ATTA	CHMENT # 5	FIELD DATA SHEETS

#### I. SCOPE OF SERVICES

Environmental Consultation Services, inc. (ECSi) was retained by Pennoni to: (1) Determine the character and extent of federal and state regulated wetlands and other waters on two project areas on the Allentown Metal Works property; (2) To flag in the field any wetlands and other waters encountered; and (3) To issue a preliminary report describing the delineation methods and findings. The wetlands and other waters delineations were conducted on December 12<sup>th</sup>, 2019 and January 17<sup>th</sup>, 2020.

#### II. SITE DATA

#### Site Location:

The study areas are located on the property of Allentown Metal Works within the city of Allentown, approximately 1.57-miles west of Lehigh River and 0.94-miles east of Salisbury. It is situated east of Jefferson Street and south of Martin Luther King Jr. Dr. on the Little Lehigh Creek (Attachment 1).

Geographical Location:
 City of Allentown

Label Courter PA

Lehigh County, PA

• U.S.G.S. Quad Sheet: East Allentown, PA

Soil Survey: Soil Survey of Lehigh County, Pennsylvania

• Project Areas: 1.0 and 2.13-acres

• Site Coordinates: Latitude: 40.593367, Longitude: -75.48048

#### Project Area Description:

The Allentown Metal Works Project consists of two project areas located along the floodplain of the Little Lehigh Creek. The study areas are 1.0 and 2.33-acre areas that are proposed outfall locations for stormwater discharge pipes. The floodplain is forested and is bordered to the west by a commercial lot and to the east by a forested tract of land. The areas are generally flat along the banks of the Little Lehigh Creek (Attachment 2).

#### **III.REGULATORY REQUIREMENTS**

#### Regulatory Jurisdiction:

Activities in Waters of the United States and Waters of the Commonwealth (including wetlands) are regulated by the U.S. Army Corps of Engineers (USACE), under the authority of Section 404 of the Clean Water Act and by the Pennsylvania Department of Environmental Protection (PADEP), under the authority of the Dams Safety and Encroachments Act.

#### **Definitions:**

In Pennsylvania, the PADEP uses the USACE definition of wetlands as defined in 33 CFR Part 328.3 in administering the above regulatory requirements. In addition, the PADEP has authority to regulate Waters of this Commonwealth (as defined in 25 Pa.C.S. § 105.1). These definitions are as follows:

- A wetland refers to "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."
- Regulated waters of this Commonwealth are "Watercourses, streams or bodies of
  water and their floodways wholly or partly within or forming part of the boundary
  of this Commonwealth."

#### IV. REFERENCE DATA

Available reference data was assembled and evaluated prior to conducting field investigations. This information is presented in the following appendices:

- 1. United States Geologic Service (U.S.G.S.) Map: The East Allentown, Pennsylvania USGS Quadrangle Map indicates the project area elevation is 250-feet above mean sea level (Attachment 1). The project areas are within the floodplain adjacent to the Little Lehigh Creek.
- 2. **2008** Natural Color Aerial Photograph: A 2008 Natural Color Aerial Image (PASDA) was reviewed to assist with the evaluation of existing conditions on the project area (Attachment 2). The aerial imagery shows the site is predominantly a forested floodplain to the Little Lehigh Creek with a commercial area bordering the western side of the creek.

- 3. National Wetlands Inventory (NWI) Map: The NWI map prepared by the U.S. Fish and Wildlife Service (USFWS) does not identify any wetlands within the project area but does identify the Little Lehigh Creek which flows through the project area (Attachment 2).
- 4. Soil Survey of Northampton County, Pennsylvania: The site is located on the Soil Survey of Northampton County, Pennsylvania (Attachment 3). The soil survey indicates there are a total of three (3) soil series that underlie the project area. The Holly (Ho) soil series is a hydric soil and has a minor hydric component of Brinkerton. The Urban Land (UgC) series does not contain any hydric soils. The Urban Land-Duffield Complex (UmD) series contains a minor hydric component of the Thorndale series. Table 1 lists the soils underlying the project area.

Table 1: Project Area Soils.

Soil Series Name	Map Unit Symbol	Slope %	Hydric
Holly silt loam	Но	0	Yes and minor components of Brinkerton
Urban Land	UgC	8-15	No
Urban Land-Duffield Complex	UmD	8-25	Minor components of Thorndale

#### V. METHODOLOGY

The USACE, U.S. Environmental Protection Agency (USEPA), and PADEP require the use of the "Corps of Engineers Wetland Delineation Manual (January 1987)," as a guide for field methodology in order to assure that all wetland boundary delineations are consistent with the federal and state wetland regulations. In addition, the "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region, Version 2.0. April 2012" has been adopted for use in this location.

Field indicators for wetland hydrology, hydric soils, and vegetation were evaluated in accordance with the field methods described in the USACE manual. The data collected was recorded and is reported on the Field Data Sheets (Attachment 5).

Photographs of the site are presented in **Attachment 4**.

#### VI. FIELD INVESTIGATIONS SUMMARY

Six (6) data points (DP1-6) were recorded within the project areas and all were determined to be upland data points. The only watercourse identified within the project area was the Little Lehigh Creek which borders the project area **Attachment 3**.

#### 1. Wetland

No wetlands were identified within the project area.

#### 2. Streams

Stream 1 is the Little Lehigh Creek that flows through the project area. The stream has a High Quality-Cold Water Fishes (HQ-CWF) designation (Chapter 93) and drains into the Lehigh River (HUC12).

#### 3. Other Waters

No other waters were found within the project area.

#### 4. Upland Areas

The project areas are predominantly upland and comprised of deciduous broadleaf woodland characterized by Data Points 1-6 (DP1-6). These data points were all recorded in the floodplain to the Little Lehigh Creek and lacked indicators of hydrology and hydric soils. Data Points 1 and 6 were determined to contain hydrophytic vegetation but lacked indicators of hydrology and soils.

Data Point 1 (DP1) was recorded 40-feet east of the Little Lehigh Creek. The canopy that is composed of white ash (*Fraxinus americana*), box elder (*Acer negundo*), black walnut (*Juglans nigra*), tree-of-heaven (*Ailanthus altissima*). The shrub layer is comprised of tartarian honeysuckle (*Lonicera tatarica*) and the herbaceous layer is comprised of common mugwort (*Artemisia vulgaris*), Japanese stiltgrass (*Microstegium vimineum*), garlic mustard (*Alliaria petiolata*), wingstem (*Verbesina alternifolia*), and *Allium* sp.

Data Point 2 (DP2) was recorded 100-feet east of the Little Lehigh Creek. The canopy is predominantly comprised of tree-of-heaven. The shrub layer is dominated by tartarian honeysuckle and the herbaceous layer consists of Japanese stiltgrass and wingstem.

Data Point 3 (DP3) was recorded in the northeast corner of the project area. The canopy is predominantly comprised of black walnut, tree-of-heaven, and box elder. The shrub layer is dominated by tartarian honeysuckle and butterfly bush (*Buddleja davidii*). The herbaceous layer is comprised of Japanese stiltgrass, wingstem, pink

dogbane (*Apocynum cannabinum*), Japanese honeysuckle (*Lonicera japonica*), and goldenrod (*Solidago* sp.).

Data Point 4 (DP4) was recorded 26-feet north of DP3. The canopy is predominantly comprised of tree-of-heaven and the shrub layer is dominated by tartarian honeysuckle and butterfly bush. The herbaceous layer is comprised of Japanese stiltgrass, wingstem, goldenrod, and common mugwort.

Data Point 5 (DP4) was recorded 30-feet east of the Little Lehigh Creek and 95-feet north of DP1. The canopy is predominantly comprised of black walnut and tree-of-heaven. The shrub layer is dominated by tartarian honeysuckle and the herbaceous layer is comprised of Japanese stiltgrass, wingstem, and rye (Secale sp).

Data Point 6 was recorded in the northern project area. The canopy is comprised of black walnut and box elder. The shrub layer is comprised black walnut saplings, box elder saplings, tartarian honeysuckle, and tree-of-heaven. The herbaceous layer is comprised of poison ivy (*Toxicodendron radiancs*), Japanese stiltgrass, Asian bittersweet (*Celastrus orbiculatus*), wingstem, and wineberry (*Rubus phoenicolasius*) while the vine layer was predominately grape (*Vitis* sp.).

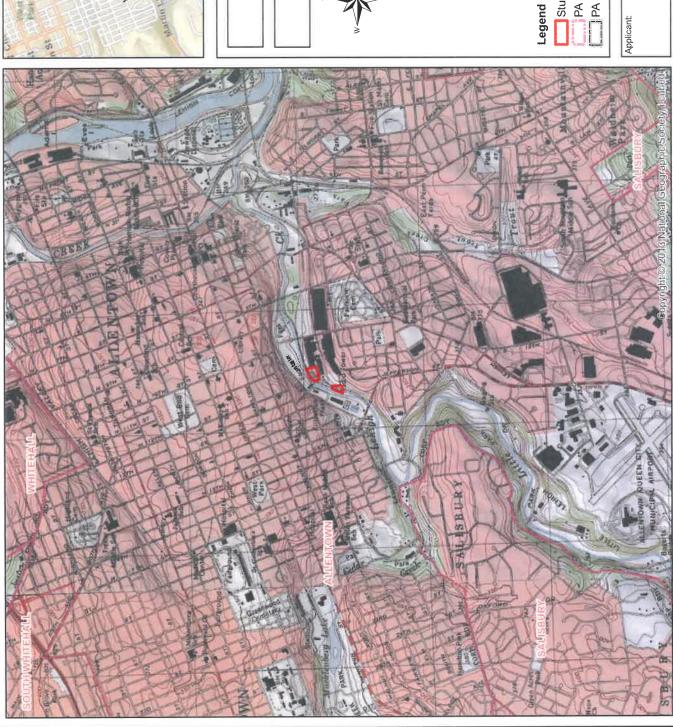
All data points were located within the floodplain to the Little Lehigh Creek but none exhibited wetland indicators for soil or hydrology.

#### VII. SUMMARY

No wetlands were identified within the project areas. The project areas are situated along the banks of the Little Lehigh Creek which intersects the project area boundaries. The wetland and other waters delineation provided by ECSi represents our best professional judgment regarding the boundaries of this resource and can be used for preliminary project planning; however, until a Jurisdictional Determination (JD) is issued by a regulatory agency (USACE and/or PADEP), the delineation can only be considered preliminary without any official governmental approval.

#### **ATTACHMENT 1**

**Site Location Map**Bangor, PA USGS Quadrangle





## Site Location Map Allentown East, PAUSGS 24K Quadrangle

Allentown Metal Works

Allentown, Lehigh County, PA



Date: 1/21/2020 Scale: 1:30,000 1,300

Mapped By: Justin Clarke

2,600

3,900

PA Municipalities Study Area

\_\_\_\_ PA Counties

2041 Avenue C, Suite C Bethlehem, PA 18017 Pennoni

Prepared By:

Coordinates: 40.593367,-75.48048 HUC12 Watershed: Little Lehigh Creek

ECS/ 1095 Mill Road Pen Argyl, PA 18072 (484) 515-6806

#### **ATTACHMENT 2**

Aerial Imagery with National Wetland Inventory Overlay





## Site Aerial with NWI Overlay 2008 Natural Color Orthophotograph (PA DCNR)

## Allentown Metal Works Allentown, Lehigh County, PA



Mapped By: Justin Clarke Date: 1/21/2020

Scale: 1:1,820

150 22

225

**Legend** 

Study Area

- PA Streams

Riverine

- Index Contours Contour Type

Index Depression Contours

Intermediate Depression Contours Intermediate Contours

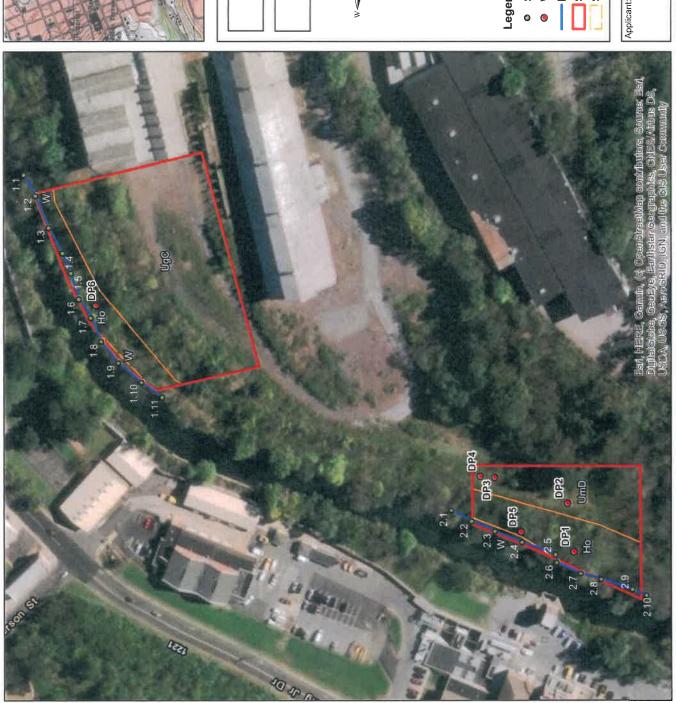
Pennoni 2041 Avenue C, Suite C Bethlehem, PA 18017

Prepared By

Coordinates: 40.593367,-75.48048 HUC12 Watershed: Little Lehigh Creek

#### ATTACHMENT 3

Wetland and Other Waters Delineation Map with Web Soil Survey Overlay (NRCS)





# Wetlands and Other Waters Map 2008 Natural Color Orthophotograph (PA DCNR)

## Allentown Metal Works Allentown, Lehigh County, PA



Mapped By: Justin Clarke Date: 1/21/2020 Scale: 1:1,819

150 22

225

### Legend

- Stream Flagging
- Wetland Evaluation Data Points - ECSi - Delineated Stream Edge
- Soil Boundary (Web Soil Survey via NRCS) Study Area

Pennoni

2041 Avenue C, Suite C Bethlehem, PA 18017

Prepared By

ECSi

Coordinates: 40.593367,-75.48048 HUC12 Watershed: Little Lehigh Creek Hydric Soils: Ho and minor components of UmD

# **ATTACHMENT 4 Photographic Index** Environmental Consultation Services, inc.



Photo 1. A view of Data Point 1, located 40-ft east of the Little Lehigh Creek in the southern project area. This area was comprised of white ash, box elder, black walnut, tree-of-heaven, tartarian honeysuckle, common mugwort, Japanese stiltgrass, garlic mustard, wingstem, and *Allium* sp. It lacked hydrology and soil indictors to be considered a wetland.



Photo 2. A view of Data Point 2, located 100-ft east of the Little Lehigh Creek in the southern project area. This area is dominated by tartarian honeysuckle, Japanese stiltgrass, and wingstem. The data point lacks all indicators to be considered a wetland.



Photo 3. A view of Data Point 3, located in the southeastern portion of the project area. This area was comprised of black walnut, tree-of-heaven, box elder, tartarian honeysuckle, butterfly bush, Japanese stiltgrass, wingstem, pink dogbane, Japanese honeysuckle, and goldenrod. It lacked all indicators to be considered a wetland.



Photo 4. A view of Data Point 4, located in the southernmost project area. This area was comprised of tree-of-heaven, tartarian honeysuckle, butterfly bush, Japanese stiltgrass, wingstem, goldenrod, and common mugwort. It lacked all indicators to be considered a wetland.



Photo 5. A view of Data Point 5, located on the edge of the Little Lehigh Creek in the southernmost project area. This area was composed of black walnut, tree-of heaven, tartarian honeysuckle, Japanese stiltgrass, wingstem, and rye. It lacked all indicators to be considered a wetland.

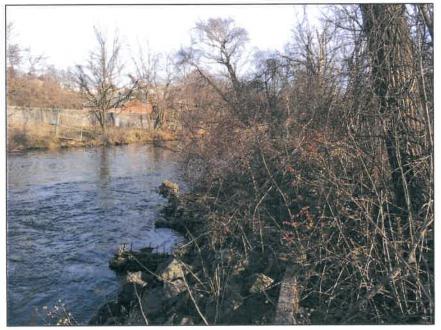


Photo 6. A northerly view of the Little Lehigh in the southernmost project area.



Photo 7. A view of the Little Lehigh Creek bank in the southernmost project area.



Photo 8. A view of the Little Lehigh Creek bank in the southernmost project area.



Photo 9. A view of Data Point 6, located on the bank of the Little Lehigh Creek in the northernmost project area. This area is comprised of black walnut, box elder, tartarian honeysuckle, tree-of-heaven, poison ivy, Japanese stiltgrass, Asian bittersweet, wingstem, and wineberry. The data point lacks indicators of hydrology and soil to be considered a wetland.



Photo 10. An easterly view of the project area.



Photo 11. A northerly view of the proposed drainage pipe.

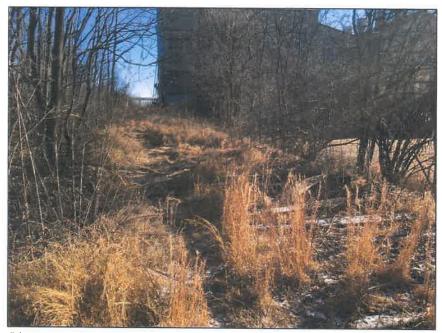


Photo 12. A view of the railroad grade and that runs through the project area.



Photo 13. A view of the railroad grade that runs through the project area.

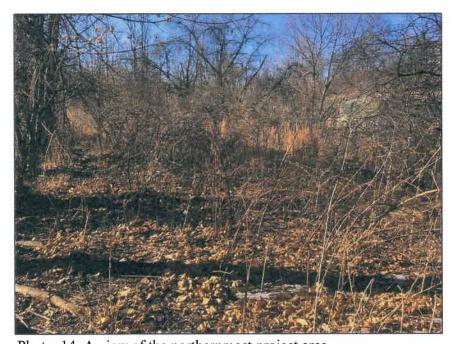


Photo 14. A view of the northernmost project area.



Photo 15. A view of the building on the northern edge of the northermost project area.



Photo 16. A view of the northernmost project area.

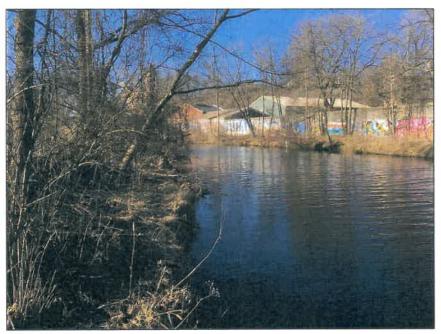


Photo 17. A southerly view of the Little Lehigh Creek in the northernmost project area.

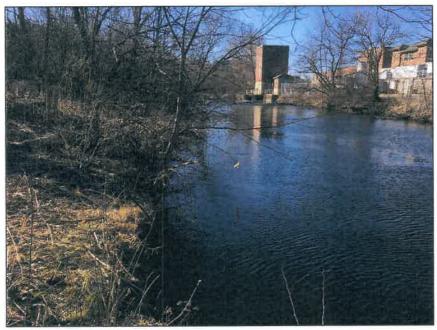


Photo 18. A southerly view of the Little Lehigh Creek in the southernmost project area.

# **ATTACHMENT 5 Field Data Sheets** Environmental Consultation Services, inc.

#### WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Allentown Metal	Works	City/C	county: Allentown/Le	high	Sampling Date: 12/12/2019
Applicant/Owner: Pennoni					Sampling Point: DP1
Investigator(s): David Bonom	0	Section	on, Township, Range: C		
Landform (hillslope, terrace, etc.)	terrace	Local reli	ief (concave, convex, no	<sub>ne):</sub> concave	Slope (%): 0
Subregion (LRR or MLRA): MLF			Long:75		Datum: NAD83
Soil Map Unit Name: Ho: Holly				NWI classific	
Are climatic / hydrologic condition		for this time of year? V			
					present? Yes No
Are Vegetation, Soil					
Are Vegetation, Soil				explain any answe	
SUMMARY OF FINDINGS	3 – Attach site r	nap showing san	npling point location	ons, transects	s, important features, etc.
Hydrophytic Vegetation Present	t? Yes <u>√</u>	No	Is the Sampled Area		
Hydric Soil Present?	Yes	No <b>√</b>	within a Wetland?	Yes	No✓
Wetland Hydrology Present?	Yes	No			
Remarks:					
While hydrophytic vegetat data point.	ion was present,	Tryulic solls and w	retiand flydrology w	ere absent. Th	erefore, uns is an upland
HYDROLOGY					
Wetland Hydrology Indicators	3:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of	one is required; che	ck all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		_ True Aquatic Plants (	(B14)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	_	_ Hydrogen Sulfide Od	lor (C1)	✓ Drainage Pa	atterns (B10)
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim L	ines (B16)
Water Marks (B1)	_	Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)	_	Thin Muck Surface (0	C7)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic	Position (D2)
Inundation Visible on Aeria	I Imagery (B7)			Shallow Aqu	uitard (D3)
Water-Stained Leaves (B9)	)			Microtopogr	aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)
Field Observations:					
I .	Yes No				
		_ Depth (inches):			
	Yes No <u>√</u>	Depth (inches):	Wetland	Hydrology Prese	nt? Yes No✓
(includes capillary fringe) Describe Recorded Data (strea	m gauge, monitoring	well, aerial photos, pre	evious inspections), if av	ailable:	
Remarks:			1.1.2		
					e two secondary indicators
are required (in the absen			ablish welland nydi	ology, welland	Trydrology was
determined to be absent f	rom this data poi	int location.			

VEGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Poir	ıt: <u>D</u>	P1
Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tree Gratain (Flot 9/20)		Species?		Number of Dominant Species	0	
1. Fraxinus americana	20		FACU	That Are OBL, FACW, or FAC:	3	(A)
2. Acer negundo	20		FAC	Total Number of Dominant		
3. Juglans nigra	10		FACU	Species Across All Strata:	5	(B)
4. Ailanthus altissima	10		FACU	Percent of Dominant Species		
5	P			That Are OBL, FACW, or FAC:	60	(A/B)
6	<u> </u>					= ( /
7				Prevalence Index worksheet:		
		= Total Cove	er	Total % Cover of:		
50% of total cover: 30	20% of	total cover:_	12	OBL species x 1	=	
Sapling/Shrub Stratum (Plot size: 15'				FACW species x 2	=	_
1. Lonicera tatarica	20	✓	FACU	FAC species x 3	=	
2				FACU species x 4	=	
3				UPL species x 5		
4				Column Totals:(A)		
					-	
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicate	ors:	
7				1 - Rapid Test for Hydrophytic	Vegetation	
8				✓ 2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0¹		
T00/ 5/ 10 10 10 10 10 10 10 10 10 10 10 10 10		Total Cove		4 - Morphological Adaptations	1 (Provide su	nnortina
50% of total cover: 10	20% of	total cover:_	4	data in Remarks or on a se		_
(Fiot size.	20	,	E40	Problematic Hydrophytic Vege		
1. Microstegium vimineum	30		FAC		ration (LApie	ali 1 <i>)</i>
2. Verbesina alternifolia	20		FAC	<sup>1</sup> Indicators of hydric soil and wetla	nd budealass.	
3. Alliaria petiolata	10		FACU	be present, unless disturbed or pre	oblematic.	must
4. Artemisia vulgaris	10		UPL_	Definitions of Four Vegetation S		
<sub>5.</sub> Allium sp.	5		FACU			
6				Tree – Woody plants, excluding vi	nes, 3 in. (7.6	cm) or
7				more in diameter at breast height (height.	DBH), regard	liess of
8						
9				Sapling/Shrub – Woody plants, e. than 3 in. DBH and greater than or	xcluding vines	s, less
10				m) tall.	equal to 3.20	311 (1
11						
	75 =	Total Cove	r	Herb – All herbaceous (non-wood of size, and woody plants less than	/) plants, rega	ardless
50% of total cover: _ 37.5						
Woody Vine Stratum (Plot size:30'		_		Woody vine – All woody vines green height.	ater than 3.2	8 ft in
1				Height.		
2						
3						
4						
5				Hydrophytic		
	_			Vegetation Present? Yes _ ✓	No	
50% of total cover: 0		Total Cove total cover:		163		
Remarks: (Include photo numbers here or on a separate sh		total cover				
	-	0144				
The percentage of dominant plant species rated hydrophytic.	OBL, FA	CVV, or $FA$	AC is gre	eater than 50%; therefore, the	e vegetation	n is
пускорпуно.						

	cription: (Describe	to the dep	th needed to docume	ent the indicator	or confirm the	absence of indicate	ors.)	
Depth	Matrix		Redox	Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	% Type <sup>1</sup>		exture	Remarks	
0-3	10 YR 3/2	100				SL		
3-16	10 YR 3/4	100			;	SiL		
	× ======							
	×							
	ST							
Type: C=C	oncentration D=Dec	letion RM=	Reduced Matrix, MS=	 Masked Sand Gra	nins. <sup>2</sup> Loc	ation: PL=Pore Lini	ng, M=Matrix.	
Hydric Soil		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Indicators for P		
Histosol	I (A1)		Dark Surface (	(S7)		2 cm Muck (.	A10) <b>(MLRA</b> 1	147)
	pipedon (A2)			ow Surface (S8) <b>(N</b>		Coast Prairie	, ,	)
	istic (A3)			face (S9) (MLRA 1	47, 148)	(MLRA 14		(540)
	en Sulfide (A4)		Loamy Gleyed Depleted Matr	, ,		Piedmont Flo (MLRA 13		i (F19)
	d Layers (A5) uck (A10) <b>(LRR N)</b>		Redox Dark S	• •			v Dark Surface	e (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark	, ,			in in Remarks	
	ark Surface (A12)	,	Redox Depres					,
Sandy N	Mucky Mineral (S1) (I	LRR N,	Iron-Mangane	se Masses (F12) (	_RR N,			
	A 147, 148)		MLRA 136	•		2		
	Gleyed Matrix (S4)			e (F13) (MLRA 13		<sup>3</sup> Indicators of h		-
	Redox (S5)			odplain Soils (F19) aterial (F21) <b>(MLR</b>		wetland hydro unless disturb		
	d Matrix (S6)  Layer (if observed)		Red Parent IVI	ateriai (F21) (MER	A 127, 147)	umess distait	ed of problem	iauc.
Resulctive	Layer (ii observed)							
Tuno					Hv	dric Soil Present?	Yes	No. ✓
	achaa);				l 113	and don't lesent:		
Depth (in	nches):		_					
Depth (in Remarks:	nches):		<u> </u>		himb abusas	- : ttl \ - t 10!!	and no oth	oou buduio.
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	i.e., chroma 1, or	chroma 2 with	high-chroma	n mottles) at 10",	and no oth	ner hydric
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	(i.e., chroma 1, or e, the soil at this (	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	and no oth	ner hydric
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	(i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	, and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	, and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	, and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	, and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	(i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	hìgh-chroma t hydric.	a mottles) at 10",	, and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	, and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	(i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	, and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	(i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	, and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	(i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	, and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	(i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	, and no oth	ner hydric :
Depth (in Remarks: The soil la	cks a low-chrom	a matrix	(i.e., chroma 1, or e, the soil at this o	chroma 2 with data point is no	high-chroma t hydric.	a mottles) at 10",	and no oth	ner hydric :

#### WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Allentown Metal Works	City/County: Allentown/Lehigh	Sampling Date: 12/12/2019
Applicant/Owner: Pennoni		ate: PA Sampling Point: DP2
Investigator(s): David Bonomo Section, Township, Range: City of Allentown		
Landform (hillslope, terrace, etc.): terrace	cal relief (concave, convex, none):	concave Slone (%): 0
Subregion (LRR or MLRA): MLRA 248 Lat: 40.593292	Long: -75.480	
Soil Map Unit Name: UmD: Urban Land-Duffield Complex		NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)		
Are Vegetation, Soil, or Hydrology significantly disturbed?		
Are Vegetation, Soil, or Hydrology naturally pr		in any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.		
		,
Hydrophytic Vegetation Present? Yes No V	Is the Sampled Area	,
Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a Wetland?	Yes No
Remarks:		
There were no wetland indicators present during our visit, therefore this is an upland data point.		
HYDROLOGY		
Wetland Hydrology Indicators:		ondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)		
Surface Water (A1) True Aquatic F		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulf	- · · · · ·	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)		
Drift Deposits (B3) Thin Muck Sur	· , —	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain	• /	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	· —	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No ✓ Depth (inches	):	
Water Table Present?  Yes No ✓ Depth (inches Saturation Present?  Yes No ✓ Depth (inches Depth (inches Saturation Present?)		
(includes capillary fringe)	•	ology Present? Yes No✓
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		
Only one secondary indicator of wetland hydrology was observed during our site visit. Because two secondary indicators		
are required (in the absence of any primary indicators) to establish wetland hydrology, wetland hydrology was		
determined to be absent from this data point location.		

#### DP2 Sampling Point: VEGETATION (Four Strata) - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species 1 Ailanthus altissima 20 ✓ FACU That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: = Total Cover OBL species \_\_\_\_\_ x 1 = \_\_\_\_ 50% of total cover: \_\_\_10 20% of total cover: FACW species \_\_\_\_\_ x 2 = \_\_\_\_ Sapling/Shrub Stratum (Plot size: 15') FAC species \_\_\_\_\_ x 3 = \_\_\_\_ 1. Lonicera tatarica FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_ (B) Prevalence Index = B/A = \_\_\_\_ Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 20 = Total Cover 4 - Morphological Adaptations (Provide supporting 50% of total cover: 10 20% of total cover: data in Remarks or on a separate sheet) Herb Stratum (Plot size: Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) FAC 1. Microstegium vimineum 2 Verbesina alternifolia FAC <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 Herb - All herbaceous (non-woody) plants, regardless 40 = Total Cover of size, and woody plants less than 3.28 ft tall. 50% of total cover: \_\_\_\_20\_\_\_ 20% of total cover: Woody vine - All woody vines greater than 3.28 ft in 30' \_\_\_) Woody Vine Stratum (Plot size: \_\_\_\_\_ height. Hydrophytic Vegetation Present? 0 \_ = Total Cover 50% of total cover: \_\_\_\_0 \_\_\_\_20% of total cover:\_\_\_\_ Remarks: (Include photo numbers here or on a separate sheet.) The percentage of plant species rated OBL, FACW, or FAC equals 50%. Because this percentage must exceed 50% for the vegetation to be considered hydrophytic, the vegetation at this data point is not hydrophytic.

SOIL Sampling Point:

	cription: (Describe	to the dept				or confirm	the absen	ce of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-3	10 YR 2/3	100									
3-12	10 YR 4/4	60	10 YR 5/4	40		M	SL				
	10 11( 4)4		10 11( 5/4				- JL				
		g <del></del> ;									
		s- <u> </u>									
						***************************************					
		(						-			
								+			
		8									
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	 S≃Masked	d Sand Gra	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators:	,	, , , , , , , , , , , , , , , , , , , ,					icators for Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)			
Histic E	pipedon (A2)		Polyvalue Be		ce (S8) (M	ILRA 147,		Coast Prairie Redox (A16)			
Black H	istic (A3)		Thin Dark Su				,	(MLRA 147, 148)			
	en Sulfide (A4)		Loamy Gleye			•		Piedmont Floodplain Soils (F19)			
	d Layers (A5)		Depleted Mar					(MLRA 136, 147)			
	uck (A10) (LRR N)		Redox Dark					Very Shallow Dark Surface (TF12)			
	d Below Dark Surface	e (A11)	Depleted Dar		, ,			Other (Explain in Remarks)			
	ark Surface (A12) /lucky Mineral (S1) <b>(L</b>	DD N	Redox Depre			DD 11					
	147, 148)	.KK N,	Iron-Manganese Masses (F12) (LRR N,								
	Gleyed Matrix (S4)		MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  "Indicators of hydrophytic vegetation and								
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be pre								
Stripped			Red Parent Material (F21) (MLRA 127, 147)  wetland hydrology must be present, unless disturbed or problematic.								
Restrictive	Layer (if observed):							or problemate.			
Type:											
Depth (in	ches):						Hydric Sc	oil Present? Yes No ✓			
Remarks:							yao	105105			
	cks a low-chroma	matriy (i	e chroma 1 o	r chrom	a 2 with	high ohr	oma matt	les) at 10", and no other hydric soil			
indicators v	were observed.	Therefore	the soil at this	na eteh	a z willi int ie not	nign-chi bydric	oma mott	ies) at 10°, and no other hydric soil			
indicators :	word observed.	riciciose	, the son at this	uata po	1111 15 1101	i nyunc.					

DP2

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Allentown Metal Works	City/County: Allent	town/Lehigh	Sampling Date: 12/12/2019
Applicant/Owner: Pennoni			Sampling Point: DP3
	Section, Township,	Range: City of Allentown	
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, c	onvex, none); concave	Slope (%); 0
Subregion (LRR or MLRA): MLRA 248 Lat: 40.593			Datum: NAD83
Soil Map Unit Name: UmD: Urban Land-Duffield Comple	ex	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time	,		
Are Vegetation, Soil, or Hydrology significant s			resent? Yes No
Are Vegetation, Soil, or Hydrology natura		f needed, explain any answer	
SUMMARY OF FINDINGS – Attach site map sho			
	,		
Hydrophytic Vegetation Present? Yes No	/ Is the Samp	led Area	
Hydric Soil Present? Yes NoNo	within a Wet	tland? Yes	No
Wetland Hydrology Present? Yes No	<u> </u>		
There were no wetland indicators present during ou	ır visit, therefore this	is an upland data point.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	ipply)	Surface Soil (	Cracks (B6)
Surface Water (A1) True Aqu	uatic Plants (B14)	Sparsely Veg	etated Concave Surface (B8)
	n Sulfide Odor (C1)	Drainage Pat	
	Rhizospheres on Living R		
	e of Reduced Iron (C4)		Vater Table (C2)
	ron Reduction in Tilled Soil ck Surface (C7)		sible on Aerial Imagery (C9)
	xplain in Remarks)		ressed Plants (D1)
Iron Deposits (B5)	, and the state of	✓ Geomorphic	
Inundation Visible on Aerial Imagery (B7)		Shallow Aqui	
Water-Stained Leaves (B9)		Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:			
Surface Water Present? Yes No Depth (i	nches):		
Water Table Present? Yes No ✓ Depth (i	inches):		,
Saturation Present? Yes No Depth (i	nches):	Wetland Hydrology Presen	t? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aeria	I photos, previous inspecti	ons), if available:	
Remarks:			
Only one secondary indicator of wetland hydrology	was observed during	our site visit. Because	two secondary indicators
are required (in the absence of any primary indicate	ors) to establish wetla	and hydrology, wetland	hydrology was
determined to be absent from this data point location			

VEGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point:	DP3
201	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:30')		Species?		Number of Dominant Species	_
1. Ailanthus altissima	30		FACU	That Are OBL, FACW, or FAC:	2 (A)
2. Acer negundo	20		FAC	Total Number of Deminent	
3. Juglans nigra	20	$\checkmark$	FACU	Total Number of Dominant Species Across All Strata:	6 (B)
4					(2)
5				Percent of Dominant Species	33 (A/B)
				That Are OBL, FACW, or FAC:	33 (A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multip	alv by:
0.5		= Total Cov			
50% of total cover:35	20% of	total cover:	14	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15'				FACW species x 2 =	
1. Lonicera tatarica	25		FACU	FAC species x 3 =	
2. Buddleja davidii	10		FACU	FACU species x 4 =	
3				UPL species x 5 =	
				Column Totals: (A)	
4				(/)	(D)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vege	station
8					Hallon
9				2 - Dominance Test is >50%	
	35	= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover:17.5	20% of	total cover	7	4 - Morphological Adaptations¹ (Pro	vide supporting
Herb Stratum (Plot size: 5' )	20 /0 01	total cover.		data in Remarks or on a separate	e sheet)
1. Microstegium vimineum	60	✓	FAC	Problematic Hydrophytic Vegetation	ı <sup>1</sup> (Explain)
2. Apocynum cannabinum	20				` ' '
			FACU	<sup>1</sup> Indicators of hydric soil and wetland hydric	drology must
3. Verbesina alternifolia	10		FAC_	be present, unless disturbed or problema	atic.
4. Lonicera japonica	5		FACU	Definitions of Four Vegetation Strata:	
5. Solidago sp.	5			- Vogetation offata.	
6				Tree - Woody plants, excluding vines, 3	in. (7.6 cm) or
7				more in diameter at breast height (DBH) height.	, regardless of
8				neight.	
				Sapling/Shrub - Woody plants, excluding	ng vines, less
9				than 3 in. DBH and greater than or equa	l to 3.28 ft (1
10		<u></u>		m) tall.	
11				Herb - All herbaceous (non-woody) plan	nts, regardless
		= Total Cove		of size, and woody plants less than 3.28	ft tall.
50% of total cover:50	20% of	total cover:	20	Woody vine - All woody vines greater th	h 0 00 ft :
Woody Vine Stratum (Plot size:)				height.	ian 3.28 π in
1					
2					
3					
4					
				Hydrophytic	
5	^			Vegetation	/
50% (1.1.		Total Cove		Present? Yes No _	<u> </u>
50% of total cover: 0		total cover:	0		
Remarks: (Include photo numbers here or on a separate shape)					
The percentage of plant species rated OBL, FAC	CW, or FA	AC is less	than 50	%; therefore, the vegetation is upla	and
dominant.	,			re, mererere, me regetation le api	una

SOIL Sampling Point: DP3

oth Matrix		Redox Features		
hes Color (moist)	%	Color (moist) % Type <sup>1</sup> Lo		ture Remarks
0-2 10 YR 3/3	100		Si	<u> </u>
2-12 10 YR 3/4	100		Si	L
O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-	=	Dadward Makriy Mcalled Cond Crains	21 0001	tion: DI =Dovo Lining M=Moteix
ric Soil Indicators:	epietion, Rivi=R	Reduced Matrix, MS=Masked Sand Grains.	Local	tion: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> .
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1) MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)		<ul> <li>Polyvalue Below Surface (S8) (MLRA</li> <li>Thin Dark Surface (S9) (MLRA 147, 1</li> <li>Loamy Gleyed Matrix (F2)</li> <li>Depleted Matrix (F3)</li> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> <li>Iron-Manganese Masses (F12) (LRR MLRA 136)</li> <li>Umbric Surface (F13) (MLRA 136, 12</li> <li>Piedmont Floodplain Soils (F19) (MLRA 127, 122)</li> <li>Red Parent Material (F21) (MLRA 127, 123)</li> </ul>	48) N, 2) RA 148)	Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
trictive Layer (if observed	l):			
ype:		_		
Depth (inches): 12			Hydr	ric Soil Present? Yes No
soil lacks a low-chron cators were observed.	na matrix (i.	e., chroma 1, or chroma 2 with high	n-chroma i	mottles) at 10", and no other hydric

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Allentown Metal Works	City/County: Allentown/Lehigh Sampling Date	e: 12/12/2019
Applicant/Owner: Pennoni	State: PA Sampling P	
	Section, Township, Range: City of Allentown	-
Landform (hillslope, terrace, etc.): terrace	ocal relief (concave, convex, none): CONCAVE	stone (%): 0
Subregion (LRR or MLRA): MLRA 248 Lat: 40.593507		
Soil Map Unit Name: UmD: Urban Land-Duffield Complex	NWI classification: None	turri.
Are climatic / hydrologic conditions on the site typical for this time of		
Are Vegetation, Soil, or Hydrology significant		√ No
Are Vegetation, Soil, or Hydrology naturally p SUMMARY OF FINDINGS – Attach site map showin		
Comment of The brood - Attach site map showing	g sampling point locations, transects, important	reatures, etc.
Hydrophytic Vegetation Present? Yes No ✓	Is the Sampled Area	
Hydric Soil Present? Yes No ✓	- within a Wetland? Yes No✓	
Wetland Hydrology Present? Yes No_ ✓		
Remarks:		
There were no wetland indicators present during our vi	sit, therefore this is an upland data point.	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimum	of two required)
Primary Indicators (minimum of one is required; check all that apply	Surface Soil Cracks (B6)	
Surface Water (A1) True Aquatic	_ ; ; ;	e Surface (B8)
	fide Odor (C1) Drainage Patterns (B10)	
	cospheres on Living Roots (C3) Moss Trim Lines (B16)	
	Reduced Iron (C4) Dry-Season Water Table (C	2)
	deduction in Tilled Soils (C6) Crayfish Burrows (C8)	
	,	' '
Algal Mat or Crust (B4) Other (Explain Iron Deposits (B5)		(D1)
Inundation Visible on Aerial Imagery (B7)	✓ Geomorphic Position (D2)  Shallow Aquitard (D3)	
Water-Stained Leaves (B9)	Microtopographic Relief (D4	)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)	,
Field Observations:		
Surface Water Present? Yes No ✓ Depth (inche	s):	
Water Table Present? Yes No ✓ Depth (inche	s):	
Saturation Present? Yes No ✓ Depth (inche		No ✓
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial pho		
Describe Necorded Data (Stream gauge, monitoring well, aerial pho	los, previous inspections), if available:	
Remarks:		
Only one secondary indicator of wetland hydrology was	s observed during our site visit. Because two second	dary indicators
are required (in the absence of any primary indicators)	to establish wetland hydrology, wetland hydrology w	as
determined to be absent from this data point location.		

VEGETATION (Four Stra	ta) – Use scientific	c names o	f plants.		Sampling Point:	DP4
	201	Absolute			Dominance Test worksheet:	
Tree Stratum (Plot size:	30'	<u>% Cove</u> 30	r Species?  ✓	Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1	(A)
23					Total Number of Dominant Species Across All Strata: 4	(B)
4 5					Percent of Dominant Species That Are OBL, FACW, or FAC: 25	(A/B)
6			_		Prevalence Index worksheet:	_
7					Total % Cover of: Multiply b	W.
			_ = Total Cov		OBL species x 1 =	
	50% of total cover:	15 20%	of total cover	:6		
Sapling/Shrub Stratum (Plot size	ze:)	٥٦	,	E4011	FACW species x 2 =	
1. Lonicera tatarica		25		FACU	FAC species x 3 =	
2. Buddleja davidii		10		FACU	FACU species x 4 =	
3					UPL species x 5 =	
4					Column Totals: (A)	(B)
5					Prevalence Index = B/A =	
6					Hydrophytic Vegetation Indicators:	
7					1 - Rapid Test for Hydrophytic Vegetation	on
8		<del></del>			2 - Dominance Test is >50%	
9					3 - Prevalence Index is ≤3.0 <sup>1</sup>	
			_ = Total Cov	_	4 - Morphological Adaptations <sup>1</sup> (Provide	supporting
	50% of total cover:	17.5 20%	of total cover	:7	data in Remarks or on a separate sh	
Herb Stratum (Plot size:	)	00	,		Problematic Hydrophytic Vegetation <sup>1</sup> (E	•
1. Microstegium vimineum		60		FAC	robicinate riyarophytis vegetation (E	хрічіту
		10		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrolo	oay muet
<sub>3.</sub> Artemisia vulgaris		5		UPL	be present, unless disturbed or problematic.	
4. Solidago sp.		5	_	FAC	Definitions of Four Vegetation Strata:	
5						
6 7					Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), reg height.	
					neight.	
8					Sapling/Shrub - Woody plants, excluding v	
9					than 3 in. DBH and greater than or equal to m) tall.	3.28 ft (1
10			<del></del>		in tan.	
11,		80	= Total Cov	 /er	Herb – All herbaceous (non-woody) plants, of size, and woody plants less than 3.28 ft to	
	201	40 20%	of total cover	:16	Woody vine – All woody vines greater than	3.28 ft in
Woody Vine Stratum (Plot size 1.	/				height.	
2.						
3.						
4.						
5.					Hydrophytic Vegetation	
5			= Total Cov	ıor	Present? Yes No 🗸	
	50% of total cover:		_ = Total Cover	_		
Remarks: (Include photo numb	ers here or on a separa	ate sheet.)				
The percentage of plant s dominant.	pecies rated OBL,	FACW, or	FAC is les	s than 50	0%; therefore, the vegetation is upland	d

SOIL Sampling Point: \_

Profile Description: (Describe to the de	oth needed to document the indicator or confirm	the absence of indicate	ors.)
Depth Matrix	Redox Features	<b>-</b> .	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-14 10 YR 2/1 100		SiL	
			=======================================
1			
	=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lini	
Hydric Soil Indicators:		Indicators for Pr	roblematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface (S7)		A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,		
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 14	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		oodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 13	
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)		V Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Other (Expla	in in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	Iron-Manganese Masses (F12) (LRR N,		
Sandy Gleyed Matrix (S4)	MLRA 136)	31 12 1 51	
Sandy Gleyed Matrix (34)  Sandy Redox (S5)	Umbric Surface (F13) (MLRA 136, 122)		ydrophytic vegetation and
Stripped Matrix (S6)	<ul><li>Piedmont Floodplain Soils (F19) (MLRA 14</li><li>Red Parent Material (F21) (MLRA 127, 147</li></ul>		logy must be present,
Restrictive Layer (if observed):	Red Farent Material (F21) (MLRA 127, 147	uniess disturb	ed or problematic.
'			
Type:			
Depth (inches):		Hydric Soil Present?	Yes No <u></u> ✓
Remarks:			
The soil lacks a low-chroma matrix	(i.e., chroma 1, or chroma 2 with high-chr	oma mottles) at 10".	and no other hydric soil
indicators were observed. Therefo	e, the soil at this data point is not hydric.	,	and no care, ny ano con
	,		

DP4

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Allentown Metal Works	City/County: Aller	ntown/Lehigh	Sampling Date: 12/12/2019		
Applicant/Owner: Pennoni		State: PA			
	Section, Township				
Landform (hillslope, terrace, etc.): terrace					
Subregion (LRR or MLRA): MLRA 248 Lat: 4	40.593621	Long:75.480334	Datum: NAD83		
Soil Map Unit Name: Ho: Holly silt loam			cation: None		
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes	lo (If no, explain in F	Remarks.)		
Are Vegetation, Soil, or Hydrology					
Are Vegetation, Soil, or Hydrology		If needed, explain any answe			
SUMMARY OF FINDINGS – Attach site ma					
	/				
Hydrophytic Vegetation Present? Yes	No V Is the Sam		,		
Hydric Soil Present? Yes	NO within a We	etland? Yes	No		
Wetland Hydrology Present? Yes	INU_\\				
	ring our visit therefore this	is an unland data noin	t ·		
There were no wetland indicators present du	ring our visit, therefore this	is an upland data poin	L.		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is required; check	all that apply)		Cracks (B6)		
Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Concave Surface (B8)					
	Hydrogen Sulfide Odor (C1)		atterns (B10)		
	Oxidized Rhizospheres on Living F				
	Presence of Reduced Iron (C4)		Water Table (C2)		
	Recent Iron Reduction in Tilled So				
	Thin Muck Surface (C7)		isible on Aerial Imagery (C9)		
	Other (Explain in Remarks)		Stressed Plants (D1)		
Iron Deposits (B5)	,	✓ Geomorphic			
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu			
Water-Stained Leaves (B9)			aphic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutra			
Field Observations:			· · ·		
	Depth (inches):				
Water Table Present? Yes No	Depth (inches):				
	Depth (inches):	Wetland Hydrology Prese	nt? Yes No		
(includes capillary fringe)		,			
Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous inspec	tions), if available:			
Remarks:					
Only one secondary indicator of wetland hyd	rology was observed durin	a our site visit Recaus	e two secondary indicators		
are required (in the absence of any primary i	ndicators) to establish wet	land hydrology, wetland	hvdrology was		
determined to be absent from this data point		, 3,,,	, 0,		
·					
I					

VEGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point:	DP5
201	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:30' )		Species?		Number of Dominant Species	
1. Juglans nigra	40		FACU	That Are OBL, FACW, or FAC: 2	(A)
2. Ailanthus altissima	30	<b>√</b>	FACU	Total Number of Dominant	
3		-		Species Across All Strata: 5	(B)
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 40	(A/B)
6				That Ale OBE, I AGW, OF I AG.	(\( \chi_0 \)
7				Prevalence Index worksheet:	
		= Total Cov	er	Total % Cover of: Multiply by	<b>⊼</b> :
50% of total cover: 35		total cover:		OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	
1. Lonicera tatarica	20	✓	FACU	FAC species x 3 =	
2				FACU species x 4 =	
3				UPL species x 5 =	
				Column Totals: (A)	
4				( ,	
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetatio	n
8				2 - Dominance Test is >50%	
9	00			3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% (1.1.)		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide	supporting
50% of total cover: 10  Herb Stratum (Plot size: 5')	20% of	total cover:	4	data in Remarks or on a separate she	
Tiors Gratam (Tior Gizo:	20	,	E40	Problematic Hydrophytic Vegetation¹ (Ex	,
Microstegium vimineum     Verbesina alternifolia	30		FAC		фин
	15		FAC_	<sup>1</sup> Indicators of hydric soil and wetland hydrolo	av must
3. Secale sp.				be present, unless disturbed or problematic.	gy mast
4				Definitions of Four Vegetation Strata:	
5	· ·		-		
6				Tree – Woody plants, excluding vines, 3 in. ( more in diameter at breast height (DBH), reg	7.6 cm) or
7				height.	aruless or
8				Souling/Charle Missississis	
9				Sapling/Shrub – Woody plants, excluding vi than 3 in. DBH and greater than or equal to 3	nes, less 3 28 ft (1
10				m) tall.	3.20 it ( )
11				Herb – All herbaceous (non-woody) plants, n	oo andlaaa
	55_ :	= Total Cove	ər	of size, and woody plants less than 3.28 ft tal	ll.
50% of total cover: <u>27.5</u>	20% of	total cover:	11	Mandanda Allanda	
Woody Vine Stratum (Plot size: 30')				Woody vine – All woody vines greater than 3 height.	3.28 ft in
1					
2					
3					
4					
5				Hydrophytic Vegetation	
		= Total Cove		Present? Yes No _ ✓	
50% of total cover: 0		total cover:	_		_
Remarks: (Include photo numbers here or on a separate sh					
The percentage of plant species rated OBL, FAC		AC io loco	than EO	O/. the refere the constation is all the	
dominant.	VV, OI FA	4C IS 1855	เกลก 50	%; inerefore, the vegetation is upland	

SOIL

Sampling Point: DP5

Profile Desc	ription: (Describe t	o the depth	needed to docum	ent the in	dicator	or confirm	n the abs	ence of indicators.)
Depth	Matrix	0/		Features				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc	Textu	
0-2	10 YR 2/2						SL	<del></del>
2-10	10 YR 4/4	_100_					SL	
			-					
							-	
								<del></del>
1							2,	
Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	=Masked	Sand Gra	ains.		on: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
			Dawle Conford	(07)				-
Histosol	(A1) pipedon (A2)		Dark Surface Polyvalue Beld		o (S8) /M	II DA 1/17		2 cm Muck (A10) <b>(MLRA 147)</b> Coast Prairie Redox (A16)
Black Hi		•	Folyvalue Bei				, 140) _	(MLRA 147, 148)
	n Sulfide (A4)	•	Loamy Gleyed			41, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matr		_,		_	(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S		3)		_	Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dark				-	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depres					
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		s (F12) (I	LRR N,		
	<b>147, 148)</b> Bleyed Matrix (S4)		MLRA 136 Umbric Surfac	•	MI DA 12	6 122\		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floo				48)	wetland hydrology must be present,
	Matrix (S6)		Red Parent M					unless disturbed or problematic.
	Layer (if observed):				, (		1	,
Depth (in							Hydric	Soil Present? Yes No _✓
Remarks:			=				1,	
	rks a low-chroma	matriy (i e	chroma 1 or	· chroma	a 2 with	high-ch	roma m	nottles) at 10", and no other hydric soil
	were observed.							iotacs) at 10 , and 110 other my and son
lindicators	wore observed.	ricicioro,	aro con at tino	aata poi	111 10 110	t rry arro.		

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Allentown Metal Works	City/Co	<sub>unty:</sub> Allentown/Lehigh	Sampling Date: 01/17/2020
Applicant/Owner: Pennoni			Sampling Point: DP6
	Section	, Township, Range: City of Allentow	
Landform (hillslope, terrace, etc.): terrace	l ocal relief	(concave, convex, none). CONCAVE	Slone (%): 0
Subregion (LRR or MLRA): MLRA 248 Lat:		Long: -75.479238	Datum: NAD83
Soil Map Unit Name: Ho: Holly silt loam	<del></del>	NWI classifi	
Are climatic / hydrologic conditions on the site typical for	or this time of year? Vos		
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology			-
SUMMARY OF FINDINGS – Attach site m			,
Hydrophytic Vegetation Present? Yes	- No I	s the Sampled Area	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	_ No_ ✓	within a Wetland? Yes	No
Remarks:			
There were no wetland indicators present d	luring our visit, there	efore this is an upland data poin	t.
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B1	14) Sparsely Ve	getated Concave Surface (B8)
	Hydrogen Sulfide Odor		atterns (B10)
	Oxidized Rhizospheres		ines (B16)
	Presence of Reduced II		Water Table (C2)
	Recent Iron Reduction	·	
	Thin Muck Surface (C7		isible on Aerial Imagery (C9)
	Other (Explain in Rema		Stressed Plants (D1)
Iron Deposits (B5)			Position (D2)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		Shallow Aqu	
Aquatic Fauna (B13)		· -	aphic Relief (D4)
Field Observations:		FAC-Neutra	T Test (D5)
Surface Water Present? Yes No	Depth (inches):		
	Depth (inches):		
	Depth (inches):		nt? Yes No ✓
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring v			
	von, dorial priotoc, provid	odo mopeodorioj, ii avaliable.	
Remarks:			
No indicators of wetland hydrology were ob	served during our s	ite visit.	

#### DP6 VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: Absolute Dominant Indicator Dominance Test worksheet: 30' Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species 1 Juglans nigra 30 **FACU** That Are OBL, FACW, or FAC: (A) 10 FAC 2. Acer negundo Total Number of Dominant 5 Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: \_ = Total Cover OBL species \_\_\_\_\_ x 1 = \_\_\_\_ 50% of total cover: 20 20% of total cover:\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ Sapling/Shrub Stratum (Plot size: 15' FAC species \_\_\_\_\_ x 3 = \_\_\_\_ **FACU** 1 Lonicera tatarica FACU species \_\_\_\_\_ x 4 = \_\_\_\_ FAC 2 Acer negundo UPL species \_\_\_\_\_ x 5 = \_\_\_\_ 10 **FACU** 3. Juglans nigra Column Totals: \_\_\_\_\_ (A) \_\_\_\_ (B) 4. Ailanthus altissima 10 **FACU** Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% \_\_ 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations (Provide supporting 50% of total cover: 25 20% of total cover:\_ data in Remarks or on a separate sheet)

**FAC** 

FAC

**FACU** 

50% of total cover: 5

be present,	unless disturbed or problematic.
Definitions	of Four Vegetation Strata:

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present?

Yes <u>√</u>	No
--------------	----

Remarks: (Include photo numbers here or on a separate sheet.)

Vitis sp. was not identified and can be rated as FACW or FACU. However, even if vegetation is presumed to be hydrophytic, the location lacks hydrology and hydric soils.

20% of total cover:

10

Herb Stratum (Plot size:

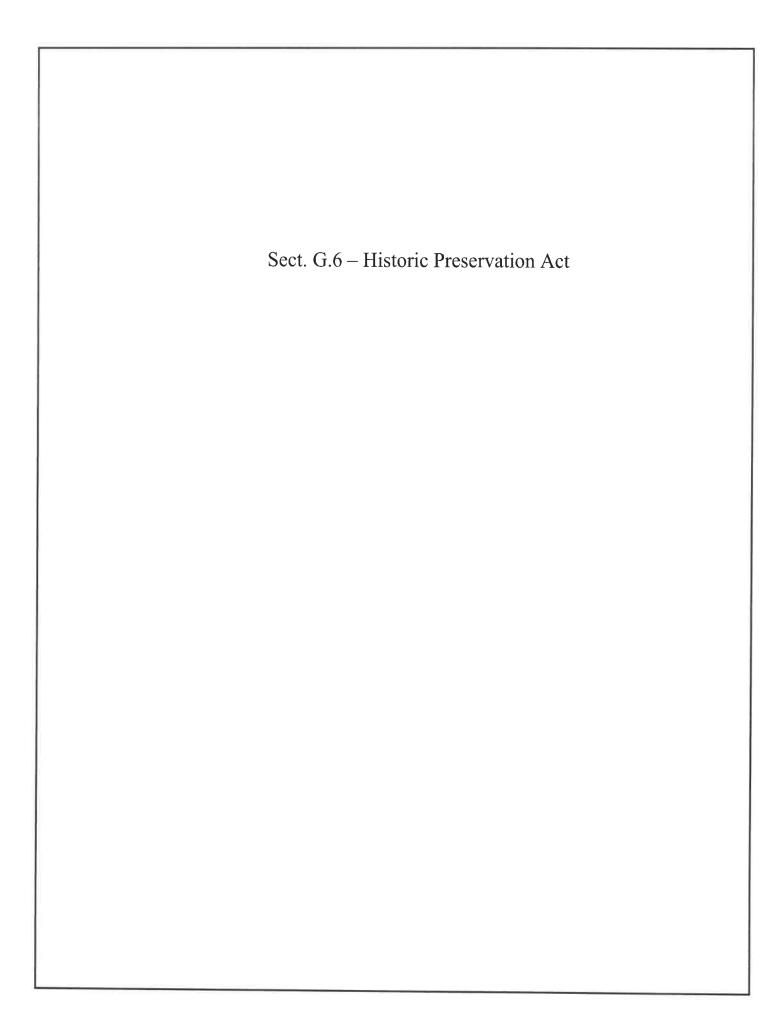
2. Verbesina alternifolia

1 Microstegium vimineum

3. Toxicodendron radicans

Sampling Point: \_\_\_\_DP6

i i	needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features  Color (moist)	Texture Remarks
	Color (moist) % Type Loc	Texture Remarks SiL
0-12 10 YR 2/2 100		
		<del></del>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=R	educed Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	148) Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	Iron-Manganese Masses (F12) (LRR N,	
Sandy Gleyed Matrix (S4)	MLRA 136)	3, , , , , , , , , , , , , , , , , , ,
Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
Stripped Matrix (S6)	<ul><li>Piedmont Floodplain Soils (F19) (MLRA 14</li><li>Red Parent Material (F21) (MLRA 127, 147</li></ul>	, 0, 1
Restrictive Layer (if observed):	Ned Faretti Material (F21) (MLRA 127, 147	unless disturbed or problematic.
Type: Rock		
Depth (inches): 12	_	House a special of the second
Remarks:		Hydric Soil Present? Yes No _✓
indicators was a low-chroma matrix (i.e	e., chroma 1, or chroma 2 with high-chr	oma mottles) at 10", and no other hydric soil
indicators were observed. Therefore,	the soil at this data point is not hydric.	





# Commonwealth of Pennsylvania Pennsylvania Historical and Museum Commission Bureau for Historic Preservation

Commonwealth Keystone Building, 2<sup>nd</sup> Floor 400 North Street Harrisburg, PA 17120-0093 www.phmc.state.pa.us

26 October 2015

Mr. David Kimmerly Bureau of Planning & Zoning 435 Hamilton Street Allentown, PA 18101-1699

> RE: ER No. 2015-0609-077-C HUD: Allentown Metal Works Revitalization Allentown, Lehigh County

Dear Mr. Kimmerly:

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

### Archaeological Resources

In our opinion no archaeological resources will be affected by this project.

### **Above Ground Resources**

Based on the information provided and contained within our files, the proposed project has the potential to affect two historic properties. The Traylor Engineering & Manufacturing Company was determined eligible for listing in the National Register of Historic Places in 2015, under Criterion A in the area of Industry, with a period of significance of 1905 to ca. 1959. The Mack Brothers Motor Car Company was determined eligible for listing in the National Register of Historic Places in 2015, under Criterion A in the area of Industry, with a period of significance of 1904. The proposed project includes retention of a large building (identified as Building A in the submitted documentation) historically associated with the Mack Brothers Motor Car Company; no additional work is proposed elsewhere on the historic property. The project also proposes demolition of four of the six buildings historically associated with the Traylor Engineering & Manufacturing Company. Therefore, it is our opinion that this project will have an effect on historic properties. Furthermore, it is our opinion that this project will adversely affect the National Register-eligible Traylor Engineering & Manufacturing Company. To comply with the regulations of the Advisory Council on Historic Preservation, the federal agency must follow the procedures outlined in 36 CFR 800.6, when the effect is adverse. The federal agency, or those acting on their behalf, will need to notify the Advisory Council of the effect finding and continue to consult with the Bureau for Historic Preservation to seek ways to avoid, minimize, or mitigate the effects on historic properties.

While we understand that demolition of four smaller buildings is necessary to allow for the retention and re-use of the three largest buildings on the site, it is our opinion that this plan will *minimize* the effect of the undertaking on historic properties; however, measures must also be sought to *mitigate* the effect of the undertaking on historic properties. Therefore, we suggest coordinating with our office and other consulting parties to discuss potential mitigation measures further.

2015-0609-077-C D. Kimmerly Page 2 of 2

Lastly, this project has the potential to affect historic properties. In accordance with the regulations for Section 106 (36 CFR 800.2.a.4), federal agencies or those acting on their behalf are required to consider the effects of their undertakings on historic properties in consultation with identified historic preservation stakeholders. Consultation is defined as the process of seeking, discussing and considering the views of other participants and, where feasible, seeking agreement with them regarding matters arising in the Section 106 process. Please provide documentation of your agency's efforts to identify consulting parties with an interest in the effect of this project on historic properties.

For further information or questions concerning this review, please contact Emma Diehl at <a href="mailto:emdiehl@pa.gov">emdiehl@pa.gov</a> or (717) 787-9121.

Sincerely,

Douglas C. McLearen, Chief

(A) 674\_

Division of Archaeology and Protection

DCM/ekd



May 2, 2016

Mr. David Kimmerly Senior Planner, Bureau of Planning & Zoning 435 Hamilton Street Allentown, PA 18101-1699

RE: 2015-0609-077-F; HUD: Allentown Metal Works Project; Allentown, Lehigh County; Memorandum of Agreement

Dear Mr. Kimmerly,

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

The PA SHPO has executed the enclosed Memorandum of Agreement (MOA) regarding the Allentown Metal Works Redevelopment Project in the City of Allentown. Please forward the MOA, along with supporting documentation, to the Advisory Council on Historic Preservation for acceptance.

For future submittals and/or notifications regarding the mitigation stipulations and/or Administrative Condition # 5 (Monitoring and Reporting), please contact Emma Diehl at <a href="mailto:emdiehl@pa.gov">emdiehl@pa.gov</a> or (717) 787-9121.

Sincerely,

Orcheat Harbonald

Ms. Andrea L. MacDonald

Director, Pennsylvania State Historic Preservation Office

### MEMORANDUM OF AGREEMENT

BETWEEN THE CITY OF ALLENTOWN, CITY, ALLENTOWN ECONOMIC DEVELOPMENT CORPORATION, AND THE PENNSYLVANIA STATE HISTORIC PRESERVATION OFFICE REGARDING THE ALLENTOWN METAL WORKS REDEVLOPMENT PROJECT IN THE CITY OF ALLENTOWN, LEHIGH COUNTY, PENNSYLVANIA

Whereas, the City of Allentown is acting as the federal agency for the proposed Allentown Metal Works Redevelopment Project which intends to use funding from an Environmental Protection Agency Revolving Loan Fund grant, and U.S. Department of Housing and Urban Development (HUD) funding under various programs was used to acquire the property, thereby making the project a federal undertaking subject to review under Section 106 of the National Historic Preservation Act (NHPA), 16 USC 470f, and its implementing regulations at 36 CFR Part 800; and

Whereas, the owner of the Allentown Metal Works property is the Allentown Commercial and Industrial Development Authority (ACIDA) and Allentown Economic Development Corporation (AEDC) has a long term lease with ACIDA. AEDC is the developer of the property and intends to redevelop the property for industrial use and AEDC is a concurring party to this agreement, and;

Whereas, The City of Allentown and the Pennsylvania State Historic Preservation Office (PA SHPO) agreed on an Area of Potential Effect which includes the area outlined and as indicated on the attached map; and

Whereas, the proposed undertaking includes the demolition of buildings C, D, E, and F as shown on the attached map; and

Whereas, the City has identified that the Mack Brothers Motor Car Company Plant #2 (building A on the attached map) and the Traylor Engineering and Manufacturing Company (buildings B, C, D, E, F and G on the attached map) are historic properties, eligible for listing in the National Register of Historic Places, and within the project's Area of Potential Effect (APE). The proposed demolition will have an adverse effect on the Traylor Engineering and Manufacturing Company and the PA SHPO has agreed with these findings; and

Whereas, the Allentown Economic Development Corporation has agreed to retain the Mack Brothers Motor Car Company Plant #2 (building A on the attached map) and to retain the remaining buildings associated with the Traylor Engineering and Manufacturing Company (buildings B and G on the attached map), this will minimize the effect of the project on the historic properties; and

Whereas, in accordance with 36 CFR 800.6(1)(1) the Advisory Council for Historic Preservation (ACHP) was notified of the adverse effect to the historic property on January 7, 2016 and given the opportunity to comment and participate in the process pursuant to 36 CFR800.6(a)(1)(iii), ACHP has chosen not to comment or participate; and

Whereas, the City of Allentown has consulted with the Lehigh County Historical Society, Allentown Historical Architectural Review Board, Old Allentown Preservation Association and the Allentown Preservation League who were afforded the opportunity to offer comment during a meeting held on November 19, 2015, and other informal discussions have occurred regarding the proposed demolition; and

Whereas, the project involves ground disturbing activities and therefore in accordance with HUD regulations 24 CFR 58 the Tribal Preservation Officer (TPO) with potential interest in the project location, specifically the Onondaga Nation of New York, was notified on December 23, 2015 and given the opportunity to comment on the project, and have chosen not to comment; and

**Now therefore,** the City of Allentown, Allentown Economic Development Corporation and the PA SHPO agree to the following mitigation measures to be carried out so as to create ways to foster the communities understanding and appreciation of the historical significance of the Mack Brothers Motor Car Company Plant #2 and the Traylor Engineering and Manufacturing Company.

The City of Allentown shall ensure that the following measures are carried out:

- 1. Review of Proposed Design Plans. The Allentown Economic Development Corporation, throughout their ownership of the property, shall provide to the PA SHPO, for their review and comment, a copy of proposed design plans for the property and will notify the PA SHPO of any proposed changes to the exterior of buildings that remain on the property.
- 2. Salvage of Architectural Details. Prior to demolition of Traylor Engineering Company buildings C, D, E, and F, Allentown Economic Development Corporation shall provide Allentown Preservation League an opportunity to conduct a walk-through of the buildings to be demolished to identify any exterior or interior architectural features that may be salvaged from the buildings for reuse. If architectural salvage does occur the Allentown Preservation League shall create a list of important interior and/or exterior architectural features to be salvaged from the building. Architectural features salvaged from the building shall be donated to the Allentown Preservation League and transported to the League's warehouse at the expense of Allentown Economic Development Corporation. The date of the walk-through at the project site and list of salvaged architectural features, if any, will be included as part of the annual reporting procedures outlined in Administrative Condition 5 contained in this document.
- 3. Public Interpretation. Allentown Economic Development Corporation shall create a public historic interpretive panel documenting the history and significance of the Mack Brothers Motor Company Plant #2. The panel is to be located on or near the Mack Brothers Motor Company Plant #2 on South 6<sup>th</sup> Street. The panel shall include a website reference and/or a QR code that directs the reader to the Allentown History website and interactive map currently being developed by the City of Allentown. A draft of the interpretive panel and proposed location shall be reviewed by the PA SHPO prior to fabrication and installation. After the interpretive panel has been put in place it will remain in place for a period of at least 5 years. After 5 years it is at the option of Allentown Economic Development Corporation or the current owner of the property to retain the interpretive panel. Photographs showing the final installation of the public display will be provided to the PA SHPO for inclusion in their files and included as part of the annual reporting procedures outlined in Administrative Condition 5 contained in this document.

### A. Administrative Conditions

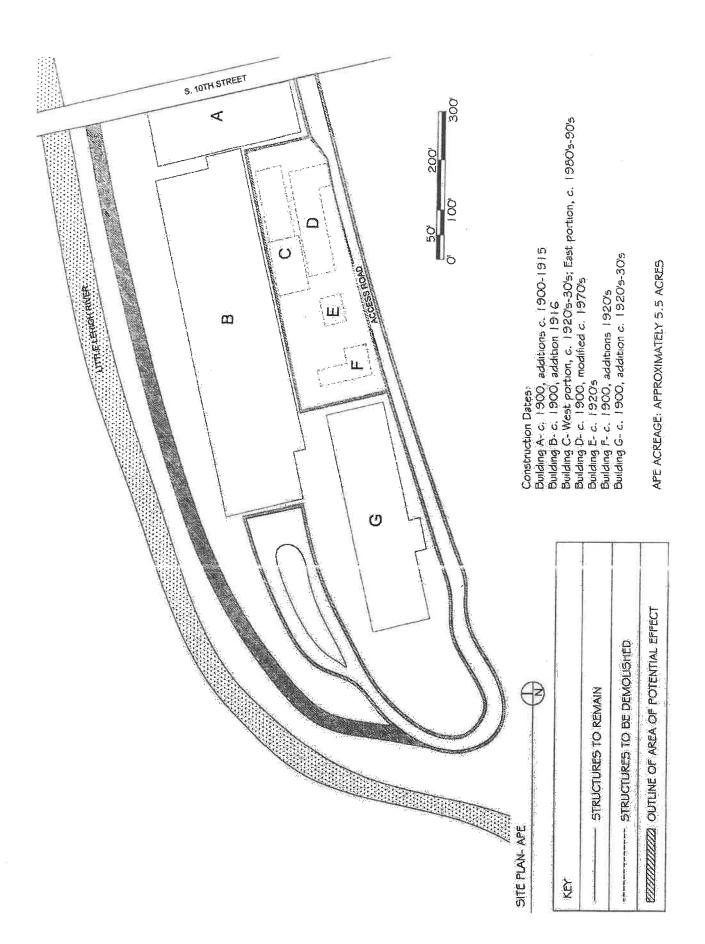
- Dispute Resolution. Should any signatory or concurring party to this agreement object to the implementation of the terms of this agreement, that party shall consult with the other signatories of the agreement to resolve objection. If the signatories cannot resolve the objection to mutual satisfaction the PA SHPO shall contact the ACHP and provide all pertinent project documentation for ACHP review. Within 30 days of the receipt of the project documentation the ACHP will respond with recommendations. If the ACHP does not respond within 30 days the City of Allentown may make a decision on the dispute and proceed accordingly. Prior to reaching such a decision the City of Allentown shall prepare a written response that takes into account any timely comments regarding the dispute from the signatories and concurring parties to this agreement and provide copies of the comments to the ACHP
- 2. **Post Review Discoveries.** If any unanticipated discoveries of historic properties or archaeological sites are encountered during the implementation of this undertaking all work in the APE will be suspended. Allentown Economic Development Corporation shall notify the PA SHPO and shall, within three days meet at the location of the discovery to determine appropriate treatment of the discovery.
- 3. Amendments and Addenda. If any signatory of this agreement believes that an amendment or an addendum to this agreement is necessary, that party shall immediately notify the other parties and request consultation to consider an amendment or addendum to the agreement. If an amendment or addendum is deemed necessary the parties of this agreement shall consult in accordance with 36 CFR Part 800.5(e)(5).
- 4. **Termination.** Any signatories of this agreement may terminate the agreement by providing 30 days written notice to the other signatories, provided that the parties will consult during the period prior to termination to seek agreement on amendments or other action that would avoid termination. In the event of termination, compliance must be reached in accordance with 36 CFR Part 800.4.
- 5. **Monitoring and Reporting.** Twice a year following the execution of the agreement, until it expires or is terminated, the City of Allentown shall provide all parties to this agreement a summary report detailing work undertaken pursuant to its terms. Such report shall include any scheduling changes proposed,

- any problems encountered, and any disputes and objections received in the City's efforts to carry out the terms of this agreement.
- 6. **Duration.** This agreement will expire if the terms are not carried out within 5 years from the date of its execution. Prior to such time the City of Allentown may consult with other signatories to reconsider the terms of this agreement and amend it in accordance with administrative condition 3 above (Amendments and Addenda).

City of Allentown	, ,
By: 151 V - ( -	Date_4 (14(16
Printed Name/Title Ed Pawlowski, Mayor	
Pennsylvania State Historic Preservation Office  By:	Date 5 2 2016 servation Officer
Concurring party:	
Allentown Economic Development Corporation	
By: Cly	Date4.4-16

Printed Name/Title R. Scott Unger, Executive Director

SIGNATORIES:



Sect. G.7 – PNDI

## 1. PROJECT INFORMATION

Project Name: Allentown Metal Works
Date of Review: 8/1/2022 04:07:10 PM

Project Category: Development, New commercial/industrial development (store, gas station, factory)

Project Area: 20.72 acres

County(s): Lehigh

Township/Municipality(s): ALLENTOWN

ZIP Code:

Quadrangle Name(s): ALLENTOWN EAST

Watersheds HUC 8: Lehigh

Watersheds HUC 12: Little Lehigh Creek-Lehigh River

Decimal Degrees: 40.594826, -75.478121

Degrees Minutes Seconds: 40° 35' 41.3753" N, 75° 28' 41.2358" 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.

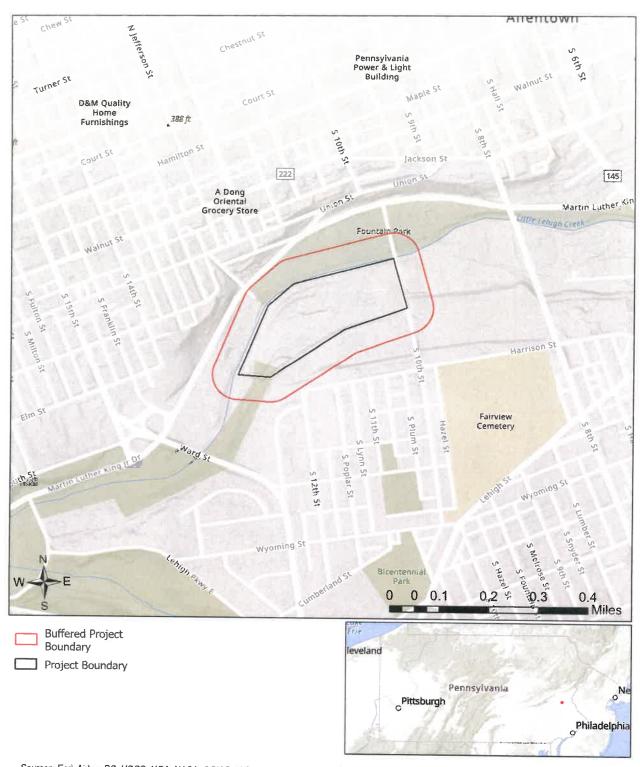
Project Search ID: PNDI-674177

## Allentown Metal Works



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

## Allentown Metal Works



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

## RESPONSE TO QUESTION(S) ASKED

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

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

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

Your answer is: No

## 3. AGENCY COMMENTS

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

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

### **PA Game Commission**

### RESPONSE:

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

## PA Department of Conservation and Natural Resources RESPONSE:

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

### **PA Fish and Boat Commission**

### RESPONSE:

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

### U.S. Fish and Wildlife Service

### **RESPONSE:**

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

Project Search ID: PNDI-674177

## 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 <a href="https://conservationexplorer.dcnr.pa.gov/content/resources">https://conservationexplorer.dcnr.pa.gov/content/resources</a>.

Project Search ID: PNDI-674177

### Project Search ID: PNDI-674177

### 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 (<a href="www.naturalheritage.state.pa.us">www.naturalheritage.state.pa.us</a>). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

## 6. AGENCY CONTACT INFORMATION

## PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section 400 Market Street, PO Box 8552 Harrisburg, PA 17105-8552 Email: RA-HeritageReview@pa.gov

### PA Fish and Boat Commission

Vyla Havdt

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

### U.S. Fish and Wildlife Service

Pennsylvania Field Office Endangered Species Section 110 Radnor Rd; Suite 101 State College, PA 16801 Email: IR1\_ESPenn@fws.gov NO Faxes Please

### **PA Game Commission**

Bureau of Wildlife Management Division of Environmental Review 2001 Elmerton Avenue, Harrisburg, PA 17110-9797

Email: RA-PGC\_PNDI@pa.gov

NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

Name: Kyle Hayut	
Company/Business Name: Pennoni Associates Inc.	
Address: 2041 Avenue C, Suite 100	
City, State, Zip: Bethlehem, PA 18017	Tent to the second
Phone: (610) 422-2409 Fax: ()	
Email: khaydt@pennoni.com	
	The state of the s
8. CERTIFICATION	
I certify that ALL of the project information contained in this receipt (inclusize/configuration, project type, answers to questions) is true, accurate a location, size or configuration changes, or if the answers to any question change, I agree to re-do the online environmental review.	and complete. In addition, if the project type
- Vigle Haught	8/1/22
applicant/project proponent signature	date

·	
	Sect. H – Alternative Sewage Facilities Analysis
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## **Alternatives Analysis**

The fact that there are public sewers located within the street rights-of-way adjacent to the project site, the only design option considered was a connection to the existing sewers, as required by the City. It has been confirmed that the Authority will have capacity to receive the sewage flows from the proposed development, in the collection system and the treatment plant.