

JVI, LLC. 1265 Miller Road. Wind Gap, PA 18091

JVI, LLC. KRUMSVILLE WAREHOUSE WASTEWATER TREATMENT PLANT SEWAGE FACILITIES PLANNING MODULE

GREENWICH TOWNSHIP
BERKS COUNTY

JULY 2023

JHA Project No. 2023-0213



MONTROSE OFFICE 466 South Main Street Montrose, PA 18801 (844) 542-4757 fax (844) 366-2646

July 10, 2023

Greenwich Township 775 Old Route 22 Lenhartsville, PA 19534 PH: (610) 756-6707

RE: JVI, LLC. (Krumsville Warehouse Project)

Component 3 Sewage Facilities Planning Module

Greenwich Township, Berks County, PA

JHA Project #2023-0213

Dear Board of Supervisors,

On behalf JVI, LLC, JHA Companies herewith respectfully submits one (1) copy of the above referenced Component 3 Sewage Facilities Planning Module for Krumsville Rd (Near intersection of Long Lane Road), Krumsville, PA 19534. This project will consist of constructing a new package treatment plant for the new warehouse.

Included in this package is Component 4A, the Municipal Planning Agency Review form, of the Sewage Facilities Planning Module. JHA Companies respectfully requests that the municipal reviewing agency examine the attached documents and plans and perform an evaluation as outlined by the instructions of said form.

Should you have any questions or wish to discuss this package further, please do not hesitate to contact our office at your convenience.

Respectfully submitted, JHA Companies

Corey Rilk Project Leader

JVI, LLC. KRUMSVILLE WAREHOUSE WASTEWATER TREATMENT PLANT SEWAGE FACILITIES PLANNING MODULE JULY 2023

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Section 1 PADEP PROJECT COMPLETION CHECKLIST



JHA Companies c/o Corey Rilk 466 South Main Street Montrose, PA 18801

Re:

Checklist Letter – Planning Module Component 3

Act 537 Planning

JVI Warehouse Development (WWTP) DEP CODE NO. A3-06933-231-3 Greenwich Township, Berks County

Dear Mr. Rilk:

This checklist letter outlines what is required to be submitted to the municipality and the Department of Environmental Protection (DEP) as a complete module packet for the proposed development. Note, this checklist was developed based on the mailer application information identifying the discharge location as a perennial stream. In the event that this is not the case additional planning information may be required. DEP highly recommends requesting preliminary effluent limits for this discharge. Please contact Bonnie Boylan at 717-705-4813 or at boylan@pa.gov. Also, please consult the guidance document "Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers" (Document Number 391-2000-014). Search in the eLibrary (Home Page - DEP eLibrary (state.pa.us)) using the document number.

Please submit the completed planning modules and supporting information to the municipality(ies) in which the project is located. DEP must receive 2 copies. Please answer all questions within the planning module. Do not simply answer "N/A" or "Not Applicable". If you feel a question does not apply, explain all reasons to support that answer.

A copy of this letter should be attached to the planning module when submitted through the municipality to DEP. This letter is to be used by the applicant (or the applicant's authorized representative) as a checklist and guide to completing the planning modules and does not supersede the rules and regulations found in Chapter 71. The municipality must submit a complete module package. (See end of letter for applicant and municipal certification statements.)

Applicant		DEP
Checklist	Materials Required to be Included in the Planning Package	Completeness
(√ or N/A)	,	Review
DEP Check	list Letter	
X	DEP checklist letter is attached with items checked off by the applicant (or applicant's authorized representative) as included	

April 6, 2023

EP checklist letter certification statement completed and signed	
tter (Form 3850-FM-BCW0355)	
ransmittal Letter is attached, completed and the appropriate	
oxes in Section (i) are checked.	
ransmittal Letter is signed by the municipal secretary	
doption (Form 3850-FM-BCW0356)	
esolution of Adoption is attached and completed	
esolution of Adoption has a visible municipal seal	
- Municipal Planning Agency Review (Form 3850-FM-BCW036)	2A)
omponent 4A is attached, completed, and signed	
Iunicipal Responses to Component 4A comments are included	
- County Planning Agency Review (Form 3850-FM-BCW0362B)
omponent 4B is attached, completed, and signed	
Sunicipal Responses to Component 4B comments are included	
Sewage Facilities Planning Module (Form 3800-FM-BPNPSM035	3)
ection A.1. The Project Name is completed	
ection A.2. The Brief Project Description is completed	
copy of the 7.5-minute USGS Tonographic man is attached	
with the development site outlined as required by the instructions	
reject Consultant Information is completed	
The appropriate how is shocked in Section F	
ne appropriate box is effected in Section E	
rovided	
ject Narrative	
The Project Narrative is attached	
All information required in the module directions has been addresse	
posed Wastewater Disposal Facilities	
Section G.1.a. The collection system boxes are checked	
provided for existing systems	
Section G.1.b. The questions on the collection system are	
completed	
Section G.2.a. The appropriate treatment facility box is checked	w
	exes in Section (i) are checked. ransmittal Letter is signed by the municipal secretary doption (Form 3850-FM-BCW0356) esolution of Adoption is attached and completed esolution of Adoption is signed by the municipal secretary esolution of Adoption has a visible municipal secretary esolution of Adoption has a visible municipal seal - Municipal Planning Agency Review (Form 3850-FM-BCW036) component 4A is attached, completed, and signed funicipal Responses to Component 4A comments are included - County Planning Agency Review (Form 3850-FM-BCW0362B) component 4B is attached, completed, and signed funicipal Responses to Component 4B comments are included - County Planning Module (Form 3800-FM-BPNPSM035) feet Information ection A.1. The Project Name is completed ection A.2. The Brief Project Description is completed ection A.2. The Brief Project Description is completed Information elient Information is completed A copy of the 7.5-minute USGS Topographic map is attached with the development site outlined, as required by the instructions and the checklist ject Consultant Information roject Consultant Information is completed illability of Drinking Water Supply The appropriate box is checked in Section E for existing public water supplies, the name of the company is rovided for public water supplies, the certification letter from the public vater company is attached all information required in the module directions has been addressed placet Narrative The Project Narrative is attached All information required in the module directions has been addressed placet Wastewater Disposal Facilities Section G.1.a. The collection system boxes are checked The Pennsylvania Clean Streams Law (CSL) permit number is provided for existing systems Section G.1.b. The questions on the collection system are

NI/A	For existing treatment facilities, the name is provided				
For existing treatment facilities, the NPDES permit number is					
N/A	provided				
	For existing treatment facilities, the CSL permit number is				
N/A	provided				
	provided				
	Section G.2.b. The certification statement has been completed				
Χ	and signed by the wastewater treatment facility permittee or their				
^	representative.				
	Section G.3. The plot plan is attached and contains all items in				
X	the module instructions under Section G.3				
	The plot plan will show the proposed sewer facilities, sewer				
X	extension and/or point of connection to the existing sewer line or				
	point of discharge				
N/A	Copies of easement(s) or right-of-way(s) are attached				
X	Section G.4. The boxes are checked regarding Wetland				
^	Protection				
X	Section G.5. The boxes are checked regarding Primary				
	Agricultural Land				
X	Section G.6. The boxes are checked confirming consistency with				
	the Historic Preservation Act				
	The PHMC Project Review Form (PRF) is attached. This is				
N/A	required if the project area or residual tract have structures greater				
	than 40 years old.				
N/A	A return receipt for its submission to the PHMC is attached The PHMC review letter is attached				
X	Section G.7. The boxes are checked regarding Pennsylvania				
X	Natural Diversity Inventory (PNDI)				
	Pennsylvania Natural Diversity Inventory (PNDI) Project				
X	Environmental Review Receipt is attached				
	PNDI Review Receipt, if no potential impacts identified, is not				
X	older than 2 years				
	All supporting resolution documentation from jurisdictional				
N/A	agencies (when necessary) is attached and not older than 2 years				
Section H:	Alternative Sewage Facilities Analysis				
X	The Alternative Sewage Facilities Analysis is attached	,			
X	All information required in the module directions has been				
	addressed				
Section I: C	Compliance with Water Quality Standards and Effluent Limitations				
	The box is checked regarding Waters Designated for Special				
N/A	Protection				
N/A	The Social or Economic Justification is attached				
N/A	The box is checked regarding Pennsylvania Waters Designated as				
I N/A	Impaired				

	Try 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
N/A	The box is checked regarding Interstate and International Waters			
N/A	and the required information is provided			
N/A	The Name of Permittee Agency, Authority, Municipality, and the Initials of Responsible Agent are provided			
N/A	If discharge to an intermittent stream, dry swale or manmade ditch is proposed, provide evidence that a certified letter has been sent to each owner of property over which the discharge will flow until perennial conditions are met			
Section K: T	Treatment and Disposal Options			
X	For proposed treatment facilities, the appropriate box is checked indicating the selected Treatment and Disposal Option			
Section M:	Preliminary Hydrogeologic Study			
Χ	The Preliminary Hydrogeologic Study is attached			
X	The Preliminary Hydrogeologic Study is signed and sealed by a Professional Geologist			
Section O: S	Sewage Management			
X	Section O.1. The box is checked indicating municipal or private facilities			
N/A	If municipal, the remainder of Section O is not applicable			
X	If private, the required analysis and evaluation of sewage management options is attached			
X	Section O.2. The Project Flows for the private facilities are provided			
X	Section O.3. The appropriate box is checked regarding the use of nutrient credits or offsets			
X	Section O.4.a. The appropriate box is checked indicating capacity in the existing private Collection and Conveyance Facilities			
X	Section O.4.b. The private Collection System information is completed, signed and dated			
X	Section O.4.c. The private Conveyance System information is completed, signed and dated			
X	Section O.5.a. The appropriate box is checked regarding projected overloads at the private Treatment Facility			
X	Section O.5.b. The private Treatment Facility information is completed, signed and dated			
	Section O.6. The box is checked indicating the municipality will assure proper operation and maintenance of the proposed private facilities			
X The required documentation of sewage management is attached				
Section P:	Public Notification Requirement			
X	All Public Notification boxes in this section are checked			

Χ	The public notice is attached, if public notification is necessary					
	All comments received as a result of the notice are attached					
	The municipal responses to these comments are attached					
	The box is checked indicating that no comments were received, if					
	valid					
Section Q:	False Swearing Statements					
Χ	The planning module preparer's false swearing statement is completed and signed					
Section R:	Planning Module Review Fee					
X	The correct fee has been calculated					
Χ	The correct fee has been paid					
N/A	The request for fee exemption has been checked					
N/A	The deed reference information is provided to support the fee exemption					
Completene	ess Checklist					
X	The module completeness checklist is included					
	All completeness items have been checked as included by the					
	municipality, as appropriate					
	The Municipal Official has signed and dated the checklist					

In all cases, address the immediate and long-term sewage disposal needs of the proposal and comply with 25 Pa. Code, Chapter 71, Subchapter C relating to New Land Development Plan Revisions.

Please complete the certification statement on the next page.

If you have any questions concerning the information required, please contact me at (717) 705-4866 or ligraeff@pa.gov.

Sincerely,

Lindsay M. Graeff

Sewage Planning | Clean Water Program

CERTIFICATION STATEMENT

I certify that this submittal is complete and includes all requested items. I understand that failure to submit a complete module package may result in a denial of the application.

Signed: James Vozar Applicant (or Applicant's authorized representative)	Date:	7.6.2023
Signed: Municipal Secretary	Date:	



X

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

Completeness Checklist

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

Sewage Collection and Treatment Facilities

Name and Address of land development project.

	X	U.S.G.S. 7.5 minute topographic map with development area plotted.
	X	Project Narrative.
I/A		Letter from water company (if applicable).
	X	Alternative Analysis Narrative.
I/A		Details of chosen financial assurance method.
	X	Proof of Public Notification (if applicable).
I/A		Name of existing collection and conveyance facilities.
I/A		Name and NPDES number of existing treatment facility to serve proposed development.
	X	Plot plan of project with required information.
I/A		Total sewage flows to facilities table.
I/A		Signature of existing collection and/or conveyance Chapter 94 report preparer.
1/A	7	Signature of existing treatment facility Chapter 94 report preparer.
I/A		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.
J/A		Permeability information (if applicable).
	X	Preliminary hydrogeology (if applicable).
1/A		Detailed hydrogeology (if applicable).
	Muni	cipal Action
	X	Component 3 (Sewage Collection and Treatment Facilities).
	$\overline{\mathbf{X}}$	Component 4 (Planning Agency Comments and Responses).
	X	Proof of Public Notification.
	X	Long-term operation and maintenance option selection.
		Comments, and responses to comments generated by public notification.
	X	Transmittal Letter
		Signature of Municipal Official
		Date submittal determined complete

Section 2 PADEP TRANSMITTAL LETTER



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

TRANSMITTAL LETTER FOR SEWAGE FACILITIES PLANNING MODULE

		DE	PARTMENT OF E	NVIRONMENTAL PROTEC	CTION (DEP) USE	ONLY	
DE	P CODE #	CLIE	NT ID#	SITE ID#	APS	ID#	AUTH. ID#
So 909	10.00	egional Offic venue	delegated loca e (Clean Water			Date	
Dear Sir/l	Madam:						
Attached	please find a	completed	sewage facilitie	es planning module pre	epared by Cor	ey Rilk	
Consultar	nt (JHA Com	panies)		for <u>J\</u>	/I, LLC. Krums	ville Warehou	(Name) use
a subdivis	<i>Tit</i> sion, comme	,	strial facility loc	ated in <u>Greenwich To</u>		(Name)	
<u>Berks</u>		/O# . D	gh, Township)			County.	
Check or	The planning proposed [Plan], and with the reconstruction of the planning proposed [Planning planning proposed planning planning planning planning proposed planning proposed planning proposed [Planning planning planning planning planning planning planning planning proposed [Planning planning plannin	☑ revision [is ☑ adopte quirements o	supplement of for submission of 25 Pa. Code will not be approximately	for new land develop on to DEP \(\sum \) transmit Chapter 71 and the Potoved by the municipa	ment to its Off ted to the dele ennsylvania Se lity as a propo	ficial Sewage gated LA for ewage Faciliti osed revision	the municipality as a Facilities Plan (Official approval in accordance es Act (35 P.S. §750),
	checked be	elow:	S Official Plan	because the project d	escribed there	in is unaccep	otable for the reason(s)
	Check Box						
	the pl	anning mod	lule as prepare		the applicant.	Attached I	may have an effect on hereto is the scope of
	ordina	nces, officia Code Char	ally adopted co	mprehensive plans ar	nd/or environm	nental plans	posed by other laws or (e.g., zoning, land use, s or plans are attached
	Other	(attach addi	tional sheet giv	ing specifics).			
Municipal approving		Indicate be	low by checki	ng appropriate boxes	which compo	nents are be	eing transmitted to the
⊠ Modu □ 2 Individ	ution of Adopt le Completene dual and Com sal of Sewage	ess Checklist munity Onlot		Collection/Treatment Fa ow Treatment Facilities		County Plann	nning Agency Review ing Agency Review nt Health Department
Municip	pal Secretary (pr	rint)	MIC TO	Signatu	re		Date

Section 3 RESOLUTION OF ADOPTION FORM



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

EP Code No.

RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

Section 4 COMPONENT 3 – SEWAGE COLLECTION AND TREATMENT FACILITIES

Area Code + Phone + Ext.

610-756-6707

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

SEWAG	E FACILIT	ES PLANNIN	IG MC	DULE							
Component 3. Sewage Collection (Return completed module package to approximately package to approximately package).	on and Treat	ment Facilities	-								
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 project (1) a subdivision to be served by sewage collection, conveyance or treatment facilities, (2) a tap-in to an existing collect system with flows on a lot of 2 EDU's or more, or (3) the construction of, or modification to, wastewater collectic conveyance or treatment facilities that will require DEP to issue or modify a Clean Streams Law permit. Planning for a project that will require DEP to issue or modify a permit cannot be processed by a delegated agency. Delegated agency 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 municipality with jurisdiction over the project site for review and approval. All required documentation must be attach for the Sewage Facilities Planning Module to be complete. Refer to the instructions for help in completing this component											
REVIEW FEES: Amendments to the Se planning modules for la the project (DEP or do information on these feet NOTE: All projects must complete Section N if applicable or marked	and development elegated local a es.	t. These fees may agency). Please s	vary de see sect	epending of ion R and	n the ap _l I the ins	oroving agency for tructions for more					
A. PROJECT INFORMATION (S	ee Section A of	instructions)									
Project Name JVI, LLC. Krumsville W	arehouse		411,4								
2. Brief Project Description This project the design and permitting of a package wa to serve the facility. Upon receiving planning discharge into unnamed tributary 63888 (T	stewater treatm ng approval, a V SF) to Maiden	ent plant for an est VQM Permit and a Creek, would be ap	imated on NPDES plied for	lesign flow Minor Sew with PA D	of 15,00	0 gallons per day					
B. CLIENT (MUNICIPALITY) INF		(See Section B of	instructio	ons)							
Municipality Name	County		City		Boro	Twp					
Greenwich	Berks					\boxtimes					
Municipality Contact Individual - Last Name	e First Name		MI	Suffix	Title						
Hollenbach Diane Twp. Administrator Secretary/Treasurer											
Additional Individual Last Name	First Name		MI	Suffix	Title						
Municipality Mailing Address Line 1		Mailing Address	Line 2		-						
775 Old Route 22											
^ddress Last Line City		S	tate	ZIP+4	4						
_enhartsville		P		1953							

Email (optional)

Secretarygreenwichtwp@ptd.net

FAX (optional)

instructions.

C.	SITE INFORMAT	ION (See Section C of	instructio	ons)			
ιe	(Land Development of			51107			
	LLC. Krumsville Wareh	F. 15.					
Site	Location Line 1 nsville Rd			Site Location	Line 2		
	Location Last Line Cinsville	ity	State		P+4 534	Latitude 40.58301	Longitude 9 -75.801409
Deta	iled Written Directions	to Site Exit US Hwy 22 vy 22, just across from t oject is located.	heading	north on Krum	sville Roa	d (Rt 737). Approxin	nately 0.5 miles
Desc	cription of Site Site con nern boundary.	sists of an agricultural fi	eld with	an unnamed tr	ributary 63	888 (TSF) to Maider	Creek near the
Site	Contact (Developer/O	wner)		1.174-		295.	
Last	Name	First Name		MI	Suffix	Phone	Ext.
Voza	ır	James		А		484-788-5704	
Site	Contact Title		5	Site Contact Fi	rm (if none	e, leave blank)	
Princ	cipal			JVI, LLC.			
FAX			E	Email			
		4	j	imvozar@jvi-llo	c.com		
Maili	ng Address Line 1		N	Mailing Addres	s Line 2		
	Miller Rd.						
	ng Address Last Line	City	S	State	ZIF	P+4	
Wind	Gap		F	PA	180	091-9765	
	PROJECT CONSI	ULTANT INFORMA	TION (See Section D	of instruct	ions)	
Last	Name		First Na			MI	Suffix
Rilk			Corey				
Title			Consulti	ng Firm Name			
	ct Leader		JHA Co	mpanies			
Mailir	ng Address Line 1		N	Mailing Address	s Line 2		
	South Main Street						
Addre	ess Last Line – City		State	ZIP+4	4	Country	
Mont			PA	1841	9	USA	
Email		Area Code + Phone		Ext.		Area Code	+ FAX
TO STATE OF THE ST)jhacompanies.com	(570) 204-0138					
E.	AVAILABILITY OF	DRINKING WATE	R SUP	PLY	_		
	The project will be pro	vided with drinking wate	r from th	ne following so	urce: (Che	eck appropriate box)	
		cisterns.			-		
	☐ A proposed public	water supply.					
	☐ An existing public						
	If existing public w from the water con	rater supply is to be use npany stating that it will	ed, provid serve the	de the name of e project.	f the water	company and attac	ch documentation
	Name of water cor	mpany: N/A; water supp	lied by p	proposed on-si	te well.		
F.	PROJECT NARRA	ATIVE (See Section F	of instruc	ctions)			
	A narrative has be	en prepared as describe	ed in Sec	tion F of the in	structions	and is attached.	-
		y choose to include					ection F of the

j.	PR	OP	OSED WASTEWATER DISPOSAL FACILITIES (See Section G of instructions)					
	serv	/ed.	all boxes that apply, and provide information on collection, conveyance and treatment facilities and EDU' This information will be used to determine consistency with Chapter 93 (relating to wastewater treatment nents).					
	1.		DLLECTION SYSTEM					
		a.						
		\boxtimes	New collection system Pump Station Force Main					
			Grinder pump(s)					
		Cl	ean 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 38					
			Connections 1					
			Name of: existing collection or conveyance system There is no existing collection or conveyance system owner There is no existing collection or conveyance system existing interceptor There is no existing interceptor owner There is no existing interceptor					
	2.	WA	ASTEWATER TREATMENT FACILITY					
		ED pro	eck all boxes that apply, and provide information on collection, conveyance and treatment facilities and U's served. This information will be used to determine consistency with Chapter(s) 91 (relating to general visions), 92 (relating to national Pollution Discharge Elimination System permitting, monitoring and appliance) and 93 (relating to water quality standards).					
		a.	Check appropriate box and provide requested information concerning the treatment facility					
			☑ New facility ☐ Existing facility ☐ Upgrade of existing facility ☐ Expansion of existing facility					
			Name of existing facility There is no existing facility					
			NPDES Permit Number for existing facility					
			Clean Streams Law Permit Number N/A					
			Location of discharge point for a new facility. Latitude 40.581264 Longitude -75.805436					
		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 <u>proposed</u> (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 JVI, LLC.					
			Name of Responsible Agent <u>James A. Vozar</u>					
			Agent Signature Date Date					
			(Also see Section I. 4.)					

G.	PROPOSED	WASTEWATER	DISPOSAL	FACILITIES	(Continued
					1

PLOT PLAN

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

- a. Existing and proposed buildings.
- b. Lot lines and lot sizes.
- c. Adjacent lots.
- d. Remainder of tract.
- e. Existing and proposed sewerage facilities. Plot location of discharge point, land application field, spray field, COLDS, or LVCOLDS if a new facility is proposed.
- f. Show tap-in or extension to the point of connection to existing collection system (if applicable).
- g. Existing and proposed water supplies and surface water (wells, springs, ponds, streams, etc.)
- h. Existing and proposed rights-of-way.
- Existing and proposed buildings, streets, roadways, access roads, etc.

- Any designated recreational or open space area.
- k. Wetlands from National Wetland Inventory Mapping and USGS Hydric Soils Mapping.
- Flood plains or Flood prone areas, floodways, (Federal Flood Insurance Mapping)
- m. Prime Agricultural Land.
- n. Any other facilities (pipelines, power lines, etc.)
- o. Orientation to north.
- Locations of all site testing activities (soil profile test pits, slope measurements, permeability test sites, background sampling, etc. (if applicable).
- q. Soils types and boundaries when a land based system is proposed.
- Topographic lines with elevations when a land based system is proposed

4. WETLAND PROTECTION

5.

6.

	YES	NO	
a.	\boxtimes		Are there wetlands in the project area? If yes, ensure these areas appear on the plot plan as shown in the mapping or through on-site delineation.
b.			Are there any construction activities (encroachments, or obstructions) proposed in, along, or through the wetlands? If yes, Identify any proposed encroachments on wetlands and identify whether a General Permit or a full encroachment permit will be required. If a full permit is required, address time and cost impacts on the project. Note that wetland encroachments should be avoided where feasible. Also note that a feasible alternative MUST BE SELECTED to an identified encroachment on an exceptional value wetland as defined in Chapter 105. Identify any project impacts on streams classified as HQ or EV and address impacts of the permitting requirements of said encroachments on the project.
PR	IME A	GRIC	ULTURAL LAND PROTECTION
ΥE	s N	0	
	\triangleright]	Will the project involve the disturbance of prime agricultural lands?
			If yes, coordinate with local officials to resolve any conflicts with the local prime agricultural land protection program. The project must be consistent with such municipal programs before the sewage facilities planning module package may be submitted to DEP.
			If no, prime agricultural land protection is not a factor to this project.
]	Have prime agricultural land protection issues been settled?
HIS	TORIC	PRE	SERVATION ACT
YE	S N	0	
\boxtimes]	Sufficient documentation is attached to confirm that this project is consistent with DEP Technical Guidance 012-0700-001 Implementation of the PA State History Code (available

online at the DEP website at www.dep.state.pa.us, select "subject" then select "technical guidance"). As a minimum this includes copies of the completed Cultural Resources Notice

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

		PROT	ECTION OF RARE, ENDANGERED OR THREATENED SPECIES e:	
		my	"Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt" resulting from search of the PNDI database and all supporting documentation from jurisdictional agencies (wheressary) is/are attached.	
		Forris at plan will r	completed "Pennsylvania Natural Diversity Inventory (PNDI) Project Planning & Environmental Reviews," (PNDI Form) available at www.naturalheritage.state.pa.us , and all required supporting documentation trached. I request DEP staff to complete the required PNDI search for my project. I realize that my ning module will be considered incomplete upon submission to the Department and that the DEP reviews not begin, and that processing of my planning module will be delayed, until a "PNDI Project Environmentation from jurisdictional agencies (when necessary) is/are lived by DEP.	
			Applicant or Consultant Initials	
Н.	AL	TERN	IATIVE SEWAGE FACILITIES ANALYSIS (See Section H of instructions)	
	\boxtimes		alternative sewage facilities analysis has been prepared as described in Section H of the attached uctions and is attached to this component.	
			applicant may choose to include additional information beyond that required by Section H of the attached uctions.	
. COMPLIANCE WITH WATER QUALITY STANDARDS AND EFFLUENT LIMITATIONS Section I of instructions) (Check and complete all that apply.)				
	1.	Wat	ers 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.	Peni	nsylvania 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.	Inter	state 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	Trib	utaries To The Chesapeake Bay	
			The proposed project result in a new or increased discharge of sewage into a tributary to the Chesapeake Bay. This proposal for a new sewage treatment facility or new flows to an existing facility includes total nitrogen and total phosphorus in the following amounts: pounds of TN per year, and pounds of TP per year. Based on the process design and effluent limits, the total nitrogen treatment capacity of the wastewater treatment facility is pounds per year and the total phosphorus capacity is pounds per year as determined by the wastewater treatment facility permitee. The permitee has determined that the additional TN and TP to be contributed by this project (as modified by credits and/or offsets to be provided) will not cause the discharge to exceed the annual total mass limits for these parameters. Documentation of compliance with nutrient allocations is attached. Name of Permittee Agency, Authority, Municipality	
			Initials of Responsible Agent (See Section G 2.b)	
		See	Special Instructions (Form 3800-FM-BPNPSM0353-1) for additional information on Chesapeake Bay	

watershed requirements.

800-FM- orm	00-FM-BPNPSM0353 Rev. 2/2015 rm							
] J. (J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)							
Pr co fa M tre	rojects 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 cilities must be consistent with the requirements of Title 25, Chapter 94 (relating to Municipal Wasteload anagement). If not previously included in Section F, include a general map showing the path of the sewage to the eatment facility. If more than one municipality or authority will be affected by the project, please obtain the formation required in this section for each. Additional sheets may be attached for this purpose.							
1.				gpd	•		Park	
2.	То	tal Sewage Flo	ws to Facilities	(pathway from po	oint of origin thro	ough treatment	plant)	
	ind	inthly Average licate whether	these flows ar	es" sewage flows "peak" in all case e "peak hourly f , estimated, etc.).	s. For "peak flo low" or "peak	ows" in "collecti	on" and "convey.	ance" facilities
	a.	Enter averaç	ge and peak sev	vage flows for each	ch proposed or	existing facility	as designed or p	ermitted.
	b.	Enter the av	erage and peak	sewage flows for	the most restri	ctive sections o	f the existing sev	wage facilities.
	C.	future projec	tive sections of t (other approve	k sewage flows, p the existing sew ed projects) flows.	vage facilities.	years (2 years Include existin	for pump station g, proposed (thi	ns) through the is project) and
		complete the t	able, refer to the	e instructions, Sec	ction J.		- Durings	151 .
			Сара	d/or Permitted city (gpd)	b. Present	Flows (gpd)	c. Projecte 5 yea (2 years	ırs (gpd)
		alla atia m	Average	Peak	Average	Peak	Average	Peak
	-	ollection	Average	Peak	Average	Peak	Average	Peak
	Co	onveyance	Average	Peak	Average	Peak	Average	Peak
3.	Co	onveyance reatment	Average		Average	Peak	Average	Peak
3.	Coll The com ans sign	eatment lection and Co e questions be expleting the Co exerced in coor	nveyance Facilitelow are to be hapter 94 repordination with the st be legally authors.	ties answered by the rt for the collection latest Chapter horized to make re	e sewer authorion and convey 94 annual repenses on for	rity, municipali vance facilities. port and the al or the organizat	ty, or agency re These questic bove table. The ion.	esponsible for ons should be e individual(s)
3.	Coll The con ans	eatment lection and Core questions be impleting the Core wered in coording below must	nveyance Facilitelow are to be hapter 94 repordination with the st be legally authors.	ties answered by the rt for the collection latest Chapter	e sewer authorion and convey 94 annual repensentation for extensions or ta	rity, municipalivance facilities. port and the alor the organizat	ty, or agency re These questic bove table. The ion. se actions crea	esponsible for ons should be e individual(s)
3.	Coll The com ans sign	lection and Co e questions be enpleting the C ewered in coor ning below mus YES NO If yes, this se local agency approved Co	nveyance Facilitelow are to be hapter 94 repordination with the street be legally author This project proverload within the system? wage facilities produced and/or DEP unrective Action F	ties answered by the rt for the collection latest Chapter horized to make reproposes sewer e	e sewer authorion and convey 94 annual repepresentation for xtensions or tany existing collection will not be accencies with Chang an allocation	rity, municipality ance facilities. Port and the allor the organization or the organization or convey opted for review apter 94 are reported for this projection or the projection of the projection o	ty, or agency re These questic bove table. The ion. se actions creat yance facilities the by the municipal	esponsible for one should be e individual(s) te a hydraulic nat are part of lity, delegated as there is an
3.	Coll The com ans sign	lection and Core questions be repleting the Core wered in coording below must YES NO	nveyance Facilities are to be hapter 94 reported in the second with the system? This project proverload within the system? wage facilities produce and/or DEP under the CAP esentative of the port for the college facilities in accordance visities are second in accordance visiti	ties answered by the rt for the collection and the collection are latest Chapter morized to make reproposes sewer en five years on are collanning module would all inconsiste Plan (CAP) granting the collection and the collection are collected as the collection a	e sewer authorion and convey 94 annual repepresentation for xtensions or tany existing collections will not be accencies with Chang an allocation of to the module ty, municipality yance facilities apacity and are	rity, municipality ance facilities. For and the algor the organization or the organization or convey opted for review opter 94 are reduced for this project package. The organization of the organization or convey opted for review opter 94 are reduced for the project package. The organization of the organization or convey opted for review opted for the organization of the organizatio	ty, or agency re These questic cove table. The ion. se actions creat yance facilities th by the municipal solved or unles t. A letter granti esponsible for co to indicate that	esponsible for one should be e individual(s) te a hydraulic nat are part of lity, delegated as there is an ang allocations completing the the collection the proposed
3.	Coll The com ans sign	lection and Core questions be repleting the Core wered in coording below must YES NO	This project proverload within the system? wage facilities project vertice Action Funder the CAP esentative of the port for the collence facilities in accordance vertice ver	ties answered by the rt for the collection and conversed to make reposes sewer ending the five years on article all inconsiste plan (CAP) grantic must be attached the sewer authorication and conversed adequate care.	e sewer authorion and convey 94 annual repepresentation for xtensions or tany existing collections will not be accencies with Chang an allocation of to the module ty, municipality yance facilities apacity and are	rity, municipality ance facilities. For and the algor the organization or the organization or convey opted for review opter 94 are reduced for this project package. The organization of the organization or convey opted for review opter 94 are reduced for the project package. The organization of the organization or convey opted for review opted for the organization of the organizatio	ty, or agency re These questic cove table. The ion. se actions creat yance facilities th by the municipal solved or unles t. A letter granti esponsible for co to indicate that	esponsible for one should be e individual(s) te a hydraulic nat are part of lity, delegated as there is an ang allocations completing the the collection the proposed

Agent Signature _____ Date ____

Name of Responsible Agent _____

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)
c. Conveyance System
Name of Agency, Authority, Municipality
Name of Responsible Agent
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 o 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 loca agency and/or DEP until this inconsistency with Chapter 94 is resolved or unless there is an approved CAF 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 treatmen 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
Name of Responsible Agent
Agent Signature
Date
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.
 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. DET	AILED HYDROGEOLOGIC STUDY (See Section N of instructions)
		ne detailed hydrogeologic information required in Section N. of the instructions is attached.
0.	SEW	AGE MANAGEMENT (See Section O of instructions)
(1-3 6 for	for comple comple	upletion by the developer(project sponser), 4-5 for completion by the non-municipal facility agent and etion by the municipality)
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 assi	respond to the following questions, attach the supporting analysis, and an evaluation of the options available are long-term proper operation and maintenance of the proposed non-municipal facilities. If No, skip the der of Section O.
2.	Project	Flows <u>15,000</u> gpd
	Yes	No
3.		Is the use of nutrient credits or offsets a part of this project?
	If yes, offsets	attach a letter of intent to puchase the necessary credits and describe the assurance that these credits and will be available for the remaining design life of the non-municipal sewage facility;
(For	complet	tion by non-municipal facility agent)
4.		on and Conveyance Facilities
	The qu and cor organiz	estions below are to be answered by the organization/individual responsible for the non-municipal collection nveyance facilities. The individual(s) signing below must be legally authorized to make representation for the ation.
	Ye	
	a. [If this project proposes sewer extensions or tap-ins, will these actions create a hydraulic overload on any existing collection or conveyance facilities that are part of the system?
	If ye ager	s, this sewage facilities planning module will not be accepted for review by the municipality, delegated local acy and/or DEP until this issue is resolved.
	servi	, a representative of the organization responsible for the collection and conveyance facilities must sign w to indicate that the collection and conveyance facilities have adequate capacity and are able to provide ce to the proposed development in accordance with Chapter 71 §71.53(d)(3) and that this proposal will not that status.
	b.	Collection System Name of Responsible Organization JVI, LLC.
		Name of Responsible Agent James A. Vozar
		Agent Signature James Vozar
		Date7.6.2023
	C.	Conveyance System
		Name of Responsible Organization JVI, LLC.
		Name of Responsible Agent James A. Vozar
		Agent Signature James Vozar
		Date 7.6.2023

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		eaunent	eatment Facility						
	The questions below are to be answered by a representative of the facility permittee. The individual signimust be legally authorized to make representation for the organization.								
		Yes	No						
	a.		\boxtimes	If this project proposes the use of an existing non-municipal wastewater treatment plant for the disposal of sewage, will this action create a hydraulic or organic overload at that facility?					
		If yes agenc	this plan y and/or D	ning module for sewage facilities will not be reviewed by the municipality, delegated local DEP until this issue is resolved.					
		capac	ty 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	of Facility	JVI, LLC.					
		Name	of Respor	nsible Agent <u>James A. Vozar</u>					
			Signature						
		Date							
(For	com	_		unicipality)					
6.		The SI	ELECTED	OPTION necessary to assure long-term proper operation and maintenance of the proposed cilities is clearly identified with documentation attached in the planning module package.					
٦.	PU			ATION REQUIREMENT (See Section P of instructions)					
	nev dev loca app	vspaper relopmer al agenc	of genera t projects.	completed to determine if the applicant will be required to publish facts about the project in a I circulation to provide a chance for the general public to comment on proposed new land. This notice may be provided by the applicant or the applicant's agent, the municipality or the					
	pub	ify the m	an applica unicipality	lication in a newspaper of general circulation within the municipality affected. Where an ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to content of the publication notice is found in Section P of the instructions.					
	pub To	ify the molish. The complete	an applica unicipality e required e this sec	ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to					
	To pub	ify the molish. The complete	an applica unicipality e required e this sec	ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to content of the publication notice is found in Section P of the instructions. tion, each of the following questions must be answered with a "yes" or "no". Newspaper					
	To pub	ify the molish. The complete of the complete o	an applica unicipality e required e this sec s required	ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to content of the publication notice is found in Section P of the instructions. tion, each of the following questions must be answered with a "yes" or "no". Newspaper					
	To pub	ify the molish. The complete olication is	an application unicipality a required a this sector required a required Does the	ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to content of the publication notice is found in Section P of the instructions. tion, each of the following questions must be answered with a "yes" or "no". Newspaper if any of the following are answered "yes". e project propose the construction of a sewage treatment facility? project change the flow at an existing sewage treatment facility by more than 50,000 gallons					
	To pub	ify the molish. The complete discation is Yes No	an application unicipality and required at this sector required. Does the Will the per day	ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to content of the publication notice is found in Section P of the instructions. tion, each of the following questions must be answered with a "yes" or "no". Newspaper if any of the following are answered "yes". e project propose the construction of a sewage treatment facility? project change the flow at an existing sewage treatment facility by more than 50,000 gallons? project result in a public expenditure for the sewage facilities portion of the project in excess					
	To pub	ify the molish. The complete c	an application unicipality arequired at this sector required. Does the Will the per day? Will the of \$100, Will the within the	ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to content of the publication notice is found in Section P of the instructions. tion, each of the following questions must be answered with a "yes" or "no". Newspaper if any of the following are answered "yes". e project propose the construction of a sewage treatment facility? project change the flow at an existing sewage treatment facility by more than 50,000 gallons? project result in a public expenditure for the sewage facilities portion of the project in excess 000? project lead to a major modification of the existing municipal administrative organizations is municipal government?					
	To pub 1. 2.	ify the molish. The complete dication is Yes No	an application unicipality and required at this sector required. Does the Will the per day? Will the of \$100, Will the within the Will the	ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to content of the publication notice is found in Section P of the instructions. tion, each of the following questions must be answered with a "yes" or "no". Newspaper if any of the following are answered "yes". e project propose the construction of a sewage treatment facility? project change the flow at an existing sewage treatment facility by more than 50,000 gallons? project result in a public expenditure for the sewage facilities portion of the project in excess 000? project lead to a major modification of the existing municipal administrative organizations					
	1. 2. 3. 4. 5. 6.	ify the molish. The complete complete complete confication is the complete confication is the complete confication is the complete complete confication is the complete comple	an application unicipality arequired at this sector required. Does the Will the per day? Will the of \$100, Will the within the Will the municipal will the will the will the will the municipal will the wil	ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to content of the publication notice is found in Section P of the instructions. tion, each of the following questions must be answered with a "yes" or "no". Newspaper if any of the following are answered "yes". e project propose the construction of a sewage treatment facility? project change the flow at an existing sewage treatment facility by more than 50,000 gallons? project result in a public expenditure for the sewage facilities portion of the project in excess 000? project lead to a major modification of the existing municipal administrative organizations are municipal government? project require the establishment of new municipal administrative organizations within the fall government? project result in a subdivision of 50 lots or more? (onlot sewage disposal only)					
	To pub 1. 2. 3. 4. 5.	ify the molish. The complete dication is Yes No	an application unicipality a required a this sector required. Does the Will the per day? Will the within the within the municipal Will the Does the Does the	ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to content of the publication notice is found in Section P of the instructions. tion, each of the following questions must be answered with a "yes" or "no". Newspaper if any of the following are answered "yes". e project propose the construction of a sewage treatment facility? project change the flow at an existing sewage treatment facility by more than 50,000 gallons? project result in a public expenditure for the sewage facilities portion of the project in excess 000? project lead to a major modification of the existing municipal administrative organizations are municipal government? project require the establishment of new municipal administrative organizations within the all government? project result in a subdivision of 50 lots or more? (onlot sewage disposal only) exproject involve a major change in established growth projections?					
	1. 2. 3. 4. 5. 6.	ify the molish. The complete complete complete confication is the complete confication is the complete confication is the complete complete confication is the complete comple	an application unicipality a required a this sector required. Does the Will the per day? Will the within the within the municipal Will the Does the Does the	ant's agent provides the required notice for publication, the applicant or applicant's agent shall or local agency and the municipality and local agency will be relieved of the obligation to content of the publication notice is found in Section P of the instructions. tion, each of the following questions must be answered with a "yes" or "no". Newspaper if any of the following are answered "yes". e project propose the construction of a sewage treatment facility? project change the flow at an existing sewage treatment facility by more than 50,000 gallons? project result in a public expenditure for the sewage facilities portion of the project in excess 000? project lead to a major modification of the existing municipal administrative organizations are municipal government? project require the establishment of new municipal administrative organizations within the all government? project result in a subdivision of 50 lots or more? (onlot sewage disposal only) exproject involve a major change in established growth projections? exproject involve a different land use pattern than that established in the municipality's Official					

P	UBLIC N	OTIFICATION REQUIREMEN	IT cont'd. (See Section	n P of instructions)			
9.		Does the project involve the use gpd)?	of large volume onlot	sewage disposal systems (Flow > 10,000			
10.	10. Does the project require resolution of a conflict between the proposed alternative and cons requirements contained in §71.21(a)(5)(i), (iii)?						
11.	11. Will sewage facilities discharge into high quality or exceptional value waters?						
\boxtimes	Attached	is a copy of:					
	The second secon	blic notice,					
		mments received as a result of the n	otice.				
		unicipal response to these comment					
		nents were received. A copy of the p					
Q. FA	ALSE SV	VEARING STATEMENT (See S	Section Q of instructions)				
belief. I	understan	tements made in this component and that false statements in this complete falsification to authorities.	re true and correct to the ponent are made subject	e best of my knowledge, information and to the penalties of 18 PA C.S.A. §4904			
Corey Ri	ilk		(m 2 R.				
		Name (Print)		Signature			
Project L	.eader		7/7/2023				
		Title		Date			
6 Sout	th Main Str	eet. Montrose, PA 18419	570-204-0138	-			
		Address		Telephone Number			
R. RI	EVIEW F	EE (See Section R of instructions)					
project a module p "delegate	nd invoice prior to sub ed local ag	the project sponsor OR the project mission of the planning package to	sponsor may attach a se DEP. (Since the fee an	r. DEP will calculate the review fee for the elf-calculated fee payment to the planning ad fee collection procedures may vary if a l contact the "delegated local agency" to			
☐ I required DEP	uest DEP of	calculate the review fee for my proje f my project will not begin until DEP r	ect and send me an involved and involved the correct reviews the correct reviews.	pice for the correct amount. I understand ew fee from me for the project.			
instru PA, I recei	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 \$3,400.00 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						
new l subdi	I request to be exempt from the DEP planning module review fee because this planning module creates only one new lot and is the only lot subdivided from a parcel of land as that land existed on December 14, 1995. I realize that subdivision of a second lot from this parcel of land shall disqualify me from this review fee exemption. I am furnishing the following deed reference information in support of my fee exemption.						
Coun	ity Recorde	er of Deeds for		County, Pennsylvania			
Page	Number		Date Recorded				

R. REVIEW FEE (continued)

ormula:

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:

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)

Section 5 COMPONENT 3 – SECTION F PROJECT NARRATIVE

Section F: Project Narrative

JVI, LLC. is in the planning stages of constructing a large commercial warehouse/distribution facility on a 44.3-acre parcel land located near the intersection of Long Lane Road on Krumsville Road in Greenwich Township, Berks County, Pennsylvania. The purpose of this commercial project is to construct a warehouse to store raw materials or manufactured goods before being exported or distributed. The warehouse construction includes a proposed 15,000 GPD package wastewater treatment facility, three (3) stormwater management basins, parking lots and associated appurtenances within the project area. Approximately 20.7 acres of this parcel is to be developed.

The client and engineering firm are planning to construct an onsite 15,000 gallons per day (GPD) package wastewater treatment plant that will serve the warehouse facility for domestic wastewater needs. The treatment plant will handle the equivalent of 38 EDUs. The wastewater treatment plant will be a non-municipal treatment facility, discharging into an unnamed tributary 63888 of Maiden Creek (TSF) located near the southern boundary of the project area. The tentative outfall will be located at 40° 34′ 52.55″ N, 75° 48′ 19.57″ W.

The proposed facility along with the path of sewage flow can be seen in the Plan Drawing section. The facility will be designed for 400 employees with an estimated 35 GPD per employee per day. This flow figure is consistent with the PADEP Domestic Wastewater Facilities Manual. There are no parcels under the same ownership and adjacent to the property and no previous Act 537 planning is believed to have taken place for the site. Upon completion of sewage facilities planning, the required WQM and NPDES permits application process will proceed.

Section 6
COMPONENT 3 – SECTION H ALTERNATIVE SEWAGE FACILITIES
ANALYSIS

Section H: Alternative Sewage Facilities Analysis

Conveyance of sewage to a proposed on-site package wastewater treatment facility (WWTF) is the ultimate method of disposal chosen for the proposed JVI, LLC. warehouse located on a 44.3 acre parcel of land, near the intersection of Long Lane Road on Krumsville Road, in Greenwich Township, Berks County, Pennsylvania.

This commercial development will produce approximately 15,000 gallons per day (gpd) of waste water. Using the design flow of 15,000 gpd, an Equivalent Dwelling Unit (EDU) factor of 38 was established in accordance with the guidelines laid out in the instructions for Component 3 of the Sewage Facilities Planning Module.

The properties adjacent to the project site vary slightly and include residential, commercial, and agriculture properties. The residential properties surrounding the site are medium density (single family residences). The commercial properties consist of a butcher shop, eatery, a self-storage, a hardware store, and a gift shop. The existing properties currently handle wastewater disposal through on-lot systems or septic tanks.

JHA identified two alternatives to the proposed method of disposal. These alternative options include extending sewer service to the site or construction of an on-lot disposal system to treat the sewage produced by this development.

Alternative 1: Extending Existing Sewer to Site

Construction of a new sewer service lateral to connect to the existing public sewer system is not possible as the proposed warehouse is not near the vicinity of public or private sewer service. Therefore, construction of a new connection would incur undue costs to the developer and result in unnecessary disruption to traffic patterns during construction to extend sewer service to the area.

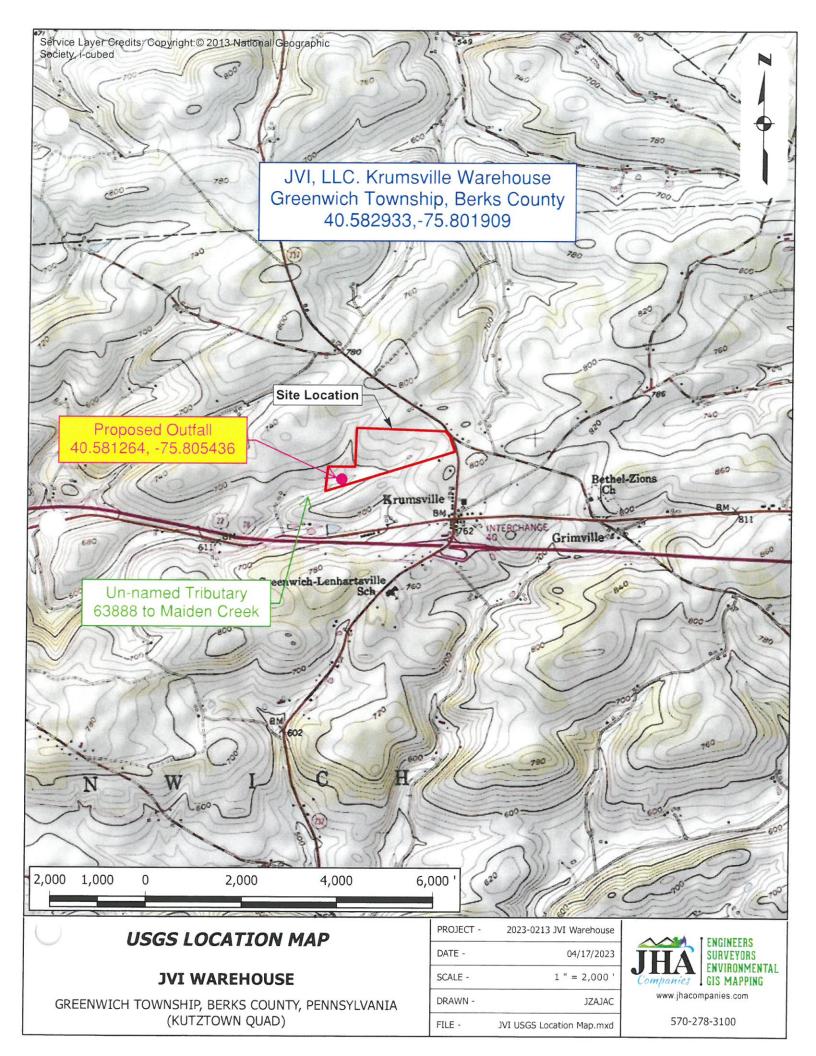
Alternative 2: Construction of an On-lot Disposal System

Construction of an on-lot disposal system to treat the sewage produced by this development would be out of compliance with the Greenwich Township Subdivision and Land Development (SALDO) Plan Section 505 Sanitary Sewage Disposal and Section 506 Soil Probe and Percolation Test Requirements. The soil tests revealed that the soil was marginal for the intended use at the lot size proposed, so an on-lot facility would not be feasible.

Proposed Method: On-site 15,000 GPD Package WWTF

Ultimately, a proposed on-site 15,000 GPD Package WWTF was chosen to serve the warehouse facilities. The location of the WWTF will be situated on the south side of the warehouse facility. Treated effluent from the package plant will discharge into the unnamed tributary 63888 of Maiden Creek (TSF) located near the southern boundary of the project area.

Section 7 COMPONENT 3 – SECTION K.4. REQUESTED INFORMATION



Section 8 COMPONENT 3 – SECTION M PRELIMINARY HYDROGEOLOGICAL STUDY



HYDROGEOLOGIC IMPACT STUDY For Crossroads X Well 2

Crossroads X Property

Greenwich Township, Berks County, Pennsylvania

October 25, 2019 Revised February 12, 2020

Prepared for:

JVI LLC Crossroads X Land Development 1265 Miller Road Wind Gap, Pennsylvania 18091

Reviewed by:

GEOSERVICES, LTD.

Peter G. Robelen, P.G.

President

Prepared by:

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Pennifer S. Reese

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- Appendix B Laboratory Analytical Report (Pure Test Laboratory)
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PREFACE

The Hydrogeologic Impact Study for the Crossroads X development in Greenwich Township, Berks County, Pennsylvania dated October 25, 2019 has been revised. The revisions are necessary to account for the change in proposed sewage disposal for the development. Current plans call for sewage disposal via a package treatment plant rather than on lot disposal. As the treatment plant will discharge treated waste to an unnamed tributary to Maiden Creek rather than to the subsurface at the site, an adjustment in total recharge to ground water at the site is necessary.

The revised text also includes the results of the microparticulate analysis (MPA) sampling and testing completed by the Pennsylvania Department of Environmental Protection (DEP). These results were not available at the time of the submission of the Hydrogeologic Impact Study in October 2019.



1.0 INTRODUCTION

This Hydrogeologic Impact Study has been prepared by GeoServices, Ltd. (GeoServices) to satisfy requirements of Greenwich Township Ordinance Section 517.6. Data on which this report is based was provided in a report by Carlyle Gray Associates (Carlyle Gray) titled, Crossroads X Property Greenwich Township, Berks County, Pennsylvania, Well 2 Non-Transient Water Supply, dated September 23, 2019. The Carlyle Gray report summarizes the results of its pumping test to evaluate aquifer characteristics and pumping effects from Well 2. Well 2 is the planned water supply for a proposed 472,764 square-foot warehouse/distribution center to be located on the western side of the intersection of Krumsville Road (Pa. Route 737) and Long Lane Road in Greenwich Township, Berks County, Pennsylvania (Figure 1).

This Hydrogeologic Impact Study uses Carlyle Gray's pumping test data to provide an independent review and analysis of hydrogeologic parameters, ground water availability within the recharge basin for Well 2, and analysis of anticipated impacts to residential wells in the vicinity of the proposed warehouse. The report also resolves questions raised by LTL Consultants, Ltd. dated May 18, 2018.

Testing of Well 2 conducted by Carlyle Gray included the following:

- A stepped-rate pumping test at rates of 25 and 35 gallons per minute (gpm) on July 26, 2019.
- A 24-hour constant rate pumping test at an approximate rate of 28 gpm from 9:30 AM on July 31, 2019 to 9:30 AM on August 1, 2019.
 - Pumping of Well 2 continued for 30 minutes on August 1, 2019, from 9:30 AM to 10:00 AM, at a rate of 30 gpm for collection of water samples for analysis of Pennsylvania Department of Environmental Protection (DEP) New Source Sampling parameters.
 - DEP staff also collected an MPA (microscopic particulate analysis) sample during the constant rate test.

2.0 BACKGROUND SUMMARY

The property is underlain by shale and graywacke bedrock of the Ordovician-age Hamburg sequence. The driller's log indicates that Well 2 penetrates shale which was encountered at a depth of 34 feet below the ground surface (bgs) (i.e. weathered shale). Competent shale was encountered at 69 feet bgs. A geologic thrust fault is mapped within the southern boundary of the property, trending northeast-southwest (Figure 2) (Wood and MacLachlan, 1978, *Geology and Ground water Resources of Northern Berks County, Pennsylvania*, Pennsylvania Geological Survey, 4th ser., Water Resources Report 44, 130 p.).



Well 2 is a six-inch diameter open rock well drilled to 300 feet bgs. Heavy walled steel casing extends from the surface to 121 feet bgs with a casing stickup of about three feet above the ground surface. The casing is seated into the bedrock with a drive shoe and was pressure grouted with bentonite-cement. The driller's log and report are included in the September 23, 2019 Carlyle Gray report.

Water bearing zones in the well occur at depths of 122, 127, 131, 135, 166, and 214 feet. The static depth to ground water measured on July 31, 2019 was 17.00 feet below the top of the casing (TOC). Ground water movement occurs in bedrock openings along bedding planes, joints, faults, and fractures (Wood and MacLaughlin, 1978). It is expected that ground water at the property flows preferentially along strike (east-west), but is limited by topographic boundaries. Based on surficial topography, ground water flow is to the southwest toward an unnamed tributary to Maiden Creek.

The proposed warehouse will be served with an onsite water supply and an onsite package treatment plant for sewage. Carlyle Gray reports that the planned employee water usage will be 3,325 gallons per day (gpd) to 7,350 gpd (equivalent to 2.31 gallons per minute (gpm) to 5.10 gpm). Crossroads X is requesting a maximum instantaneous withdrawal of 28 gpm for its DEP permit.

A 300,000-gallon water storage tank will be used at the facility for fire suppression. GeoServices assumes that the tank will be filled with water from Well 2 prior to beginning operations at the new facility and will be augmented as needed.

In addition to Well 2, three other wells currently exist on the property. Well 1 was drilled on May 17, 2017 and was tested in August 2017. Well 1 will remain on site as an inactive well. Wells 3 and 4 were drilled as test wells in November 2017 in accordance with Greenwich Township ordinance requirements. Wells 3 and 4 will be properly decommissioned.

3.0 GROUND WATER AVAILABILITY ANALYSIS

Based on the reported maximum number of daily employees of 210 people using 35 gpd, the water withdrawal required from Well 2 will be 7,350 gpd. GeoServices has prepared the following ground water availability analysis to determine if there is a sufficient volume of ground water available within the recharge basin to supply Crossroads X and the other private wells already in use within the recharge basin.

The volume of ground water available to Well 2 is calculated using the topographic recharge area that drains into the cone of depression produced by pumping of Well 2 and the volume of recharge from precipitation that occurs within that recharge area. As delineated on Figure 3, the recharge area is 0.184 mi².



Several publications list ground water recharge rates for the Crossroads X area. Carlyle Gray's use of 13.56 inches per year is within the range listed in Pennsylvania Geological Survey Water Resource Report 70 (Reese and Risser, 2010, Summary of Groundwater-Recharge Estimates for Pennsylvania). As shown on Plates 3 and 6 of Report 70 for the northern Berks County area, recharge is between 10.6 and 16 inches per year. Using the more conservative recharge value of 10.6 inches per year, 504,709 gallons per day per square mile (gpd/mi²) of average annual recharge are available. This value compares favorably with the recharge value provided in a publication by Taylor and Werkheiser, 1984 (Groundwater Resources of the Lower Susquehanna River Basin, Pennsylvania, Pennsylvania Geological Survey Water Resources Report 57, Table 10, after Gerhart and Lazorchick). The Taylor and Werkheiser report provides an average annual recharge rate for "shale containing significant graywacke in the eastern Great Valley" (location of Crossroads X) of 530,000 gpd/mi².

Ground water recharge calculations are summarized in Table 1. Using the more conservative average recharge value of 504,709 gpd/mi² from the literature, this average recharge rate was multiplied by 60% to obtain a 1-in-10-year drought recharge rate of 302,826 gpd/mi². Multiplying this drought recharge rate by the recharge area for Well 2 (0.184 mi²) produces an available drought recharge of 55,720 gpd for Well 2.

The ground water availability is calculated by subtracting the proposed withdrawal of 7,350 gpd from the available drought recharge. The ground water availability calculation can be refined by subtracting other ground water withdrawals in the recharge basin area and subtracting recharge loss due to proposed impervious cover on-site. Based on aerial photography, there are eleven homes and one farm located within the recharge area. Private homes typically use approximately 262.5 gpd of water and farms typically use 2,500 gpd. Recharge loss from an estimated 510,000 square feet, or 0.0183 mi², of impervious cover at the site is calculated at 5,542 gpd. The ground water availability calculations provided on Table 2 indicate that total ground water utilization in a 1-in-10-year drought will be 33 percent of the available water and that 37,440 gpd will remain available within the recharge area after accounting for withdrawals by the existing users and the proposed warehouse facility.

This recharge value should be considered as a conservative value because additional infiltration from the proposed on-site stormwater drainage system and on-lot septic systems at the residential properties and farm also will provide additional recharge not included in the calculation. The calculations indicate that there is more than sufficient ground water available to sustain the Crossroads X proposed withdrawal without causing adverse impacts to the ground water supply.

It is assumed that the fire suppression tank will be filled prior to occupancy and operation of the proposed warehouse. Filling of the tank would take 7.4 days at the tested rate of 28 gpm (equivalent to 40,320 gpd). This short-term higher water usage would not detrimentally impact the aquifer or nearby water users, as demonstrated by the pumping test results described below.



4.0 PUMPING TEST ANALYSIS

Carlyle Gray's step-drawdown tests indicated that Well 2 could be tested for 24 hours at a rate between 25 and 35 gpm without dewatering the shallow water bearing zone at 122 feet bgs. Therefore, a rate of 28 gpm was used for the 24-hour constant-rate pumping test. Due to datalogger malfunction, the water levels in Well 2 were manually measured. Dataloggers were used to monitor the water levels in Wells 3 and 4. Graphs of the datalogger data for Wells 3 and 4 are included in the Carlyle Gray report. However, only manual measurements were provided to GeoServices and are included in Appendix A. After 24 hours, total drawdown in each of the wells was as follows:

- Well 2 (pumping well) 67.70 feet
- Well 3 6.56 feet (located 123.23 feet north of Well 2)
- Well 4 2.06 feet (located 214.06 feet northeast of Well 2)

GeoServices has prepared graphs and analyses of the manual measurments for the constant-rate test that were collected by Carlyle Gray and provided to GeoServices. A semi-log plot of drawdown versus time for Well 2 is provided on Figure 4. This graph shows a projected drawdown of approximately 72 feet (or a water level of 89 feet bgs) if Well 2 were pumped continuously at 28 gpm for about 69 days (100,000 minutes) without recharge from precipitation. This represents extreme drought conditions which are not likely to occur. Because daily demands for the projected 210 employees are expected to be on the order of 7,350 gallons, Well 2 will not be operated continuously at 28 gpm, so impacts will be much less.

If the 300,000-gallon water suppression tank were to be filled at a rate of 28 gpm for 7.4 days, then the drawdown in Well 2 would be 70 feet (water level of 87 feet bgs; see Figure 4). This water level is within the casing of the well and is above the highest water bearing zone. Therefore, there would be no detrimental effects to the water bearing zone in the aquifer by operating the well at 28 gpm for 7.4 days to fill the fire suppression tank.

Total drawdown in Wells 2, 3, and 4 after 24 hours of pumping Well 2 was plotted against the distance from the midpoint of Well 2 (Figure 5). Extending a straight line through the points provides an estimate of the distance where the drawdown equals zero, or where the ground water level will not be lowered by pumping of Well 2. This distance is estimated at 240 feet from Well 2. Note that this distance is considered as an estimate because it does not account for anisotropic aquifer conditions that may elongate the cone of depression in the direction of bedrock strike, generally to the east and west (Wood and MacLaughlin, 1978).

The drawdown data depicted on Figures 4 and 5 were also used to calculate the transmissivity of the aquifer, T, and the coefficient of storage, S. Transmissivity was calculated at 739 gallons per day per foot (gpd/ft) using data for Well 2, and at 666 gpd/ft using the distance-drawdown data. These values compare favorably with each other. A calculated storage coefficient of 3.47×10^{-3} indicates that the aquifer is confined or semi-confined. Equations for transmissivity utilizing the Cooper-Jacob equation and for the storage coefficient are provided on Figures 4 and 5.



Transmissivity was also calculated from the water level recovery data depicted on Figure 6 (residual recovery method) at Well 2. These data were collected to monitor the rate of water level recovery after the pump was turned off at the end of the 24-hour constant rate test. Transmissivity calculated from recovery data is 587 gpd/ft. GeoServices used the middle portion of the drawdown and residual drawdown curves to minimize data interferences from potential casing storage effects and any later effects from recharge or barrier boundaries, as is recommended in literature (F.G. Driscoll, 1986, Groundwater and Wells, Johnson Division, St. Paul, Minnesota).

5.0 ANTICIPATED IMPACTS TO NEARBY WATER USERS

Based on the results of the water availability analysis and the pumping test, no detrimental impacts to nearby water users are expected. The recharge basin has adequate water to supply Crossroads X and the existing domestic water uses. Utilization of the available recharge is calculated at 33 percent and approximately 37,440 gpd would remain available in the basin during drought conditions.

Based on distance-drawdown data, zero drawdown occurred at a distance of 240 feet from Well 2 while pumping at 28 gpm for 24 hours. Since Well 2 is not planned for 24-hour operation, the zero drawdown distance will be less. There are no existing domestic wells within 240 feet of Well 2. The nearest well is more than 1,200 feet to the southeast at the farmhouse located at 685 Old Route 22. The low transmissivity values calculated from the pumping test data suggest that the cone of depression produced by pumping of Well 2 will be deep and narrow, not extending a large distance from Well 2. The drawdown measured in Well 4, located 214 feet away, was only 2.06 feet – not considered a detrimental impact. Drawdown would be less at greater distances.

6.0 WATER QUALITY

Water quality samples were collected from Well 2 by Carlyle Gray or its representative at the conclusion of the 24-hour constant rate test on August 1, 2019. Samples were submitted to Pure Test Laboratory of Myerstown, Pennsylvania for analysis of:

- Volatile organic chemicals
- Inorganic chemicals
- Synthetic organic chemicals
- Radionuclides
- Secondary contaminants
- Bacteria (total coliform and E. coli); three separate samples were collected for bacteria



Analytical results are included herein as Appendix B. None of the analytes were detected above the regulatory limits except total coliform bacteria, which was detected in two of the three samples. Any detection of total coliform above the regulatory limit of 0.0 MPN/100 requires specific analysis for E. coli. E. Coli was undetected in all three bacteria samples. Prior to use of the well, GeoServices recommends that Well 2 be shock chlorinated and retested for bacteriological parameters.

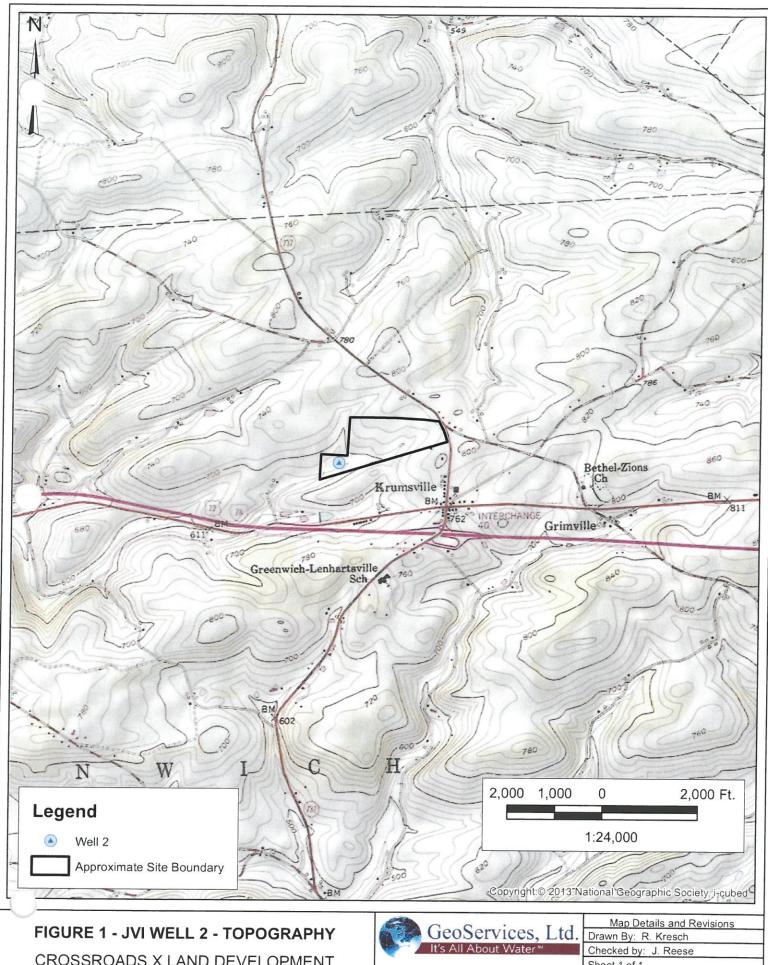
DEP staff also collected samples for microscopic particulate analysis from Well 2. The results of that testing indicates a low risk for surface water influence. The results of the MPA analyses are provided in Appendix C.

7.0 CONCLUSIONS

It is anticipated that up to 7,350 gpd will be needed to supply potable water to the proposed Crossroads X warehouse and distribution facility under planned usage when the facility is fully occupied. Pumping test results indicate that the Crossroads X Well 2 is capable of providing a daily a withdrawal of 40,320 gpd which is more than sufficient to satisfy the demands of 7,350 gpd. The ground water availability analysis indicates that the ground water resources in the recharge basin exceed all withdrawals from the basin (including this project) by 37,440 gpd under drought conditions. Recharge is more than sufficient to provide the water supply needs of the developed site and nearby existing water users. Drawdown during the testing period extended a distance of 240 feet from Well 2. The nearest private well is more than 1,200 feet away from Well 2. Based on these data, the pumping of Well 2 at rates needed to satisfy the demands of the proposed facility will not cause adverse impacts to the residential wells in the vicinity of Well 2.



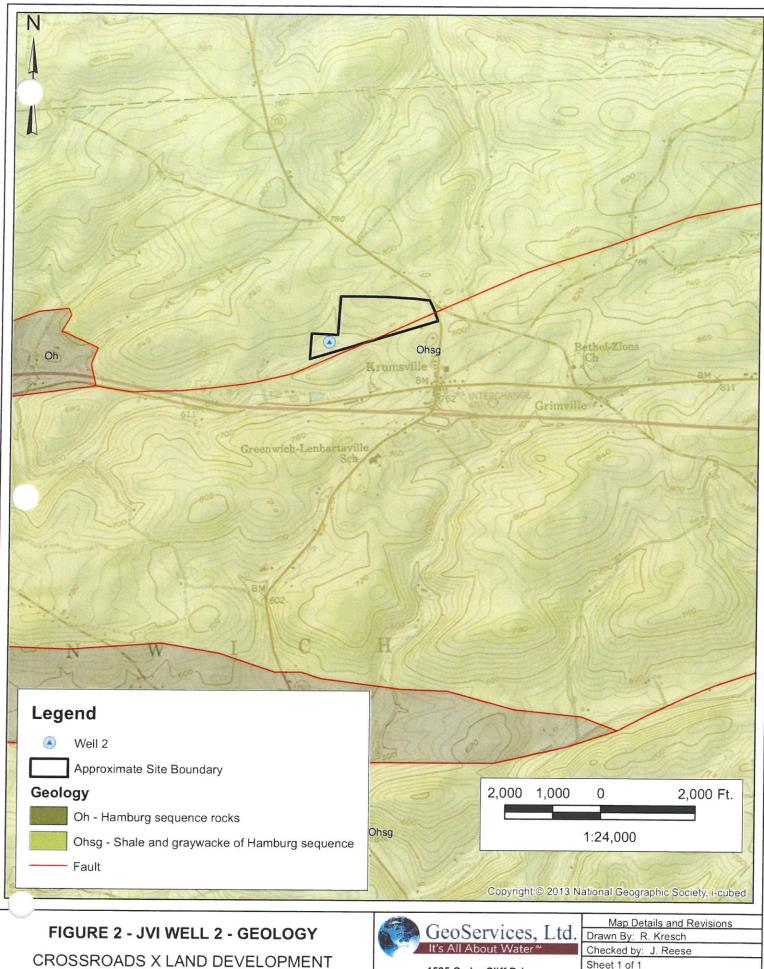




CROSSROADS X LAND DEVELOPMENT GREENWICH TOWNSHIP, BERKS COUNTY, PA

1525 Cedar Cliff Drive

Sheet 1 of 1 GSL No. 1317 Camp Hill, PA 17011 Document ID: JV05 www.geoservicesltd.com Map Updated: 10/11/2019

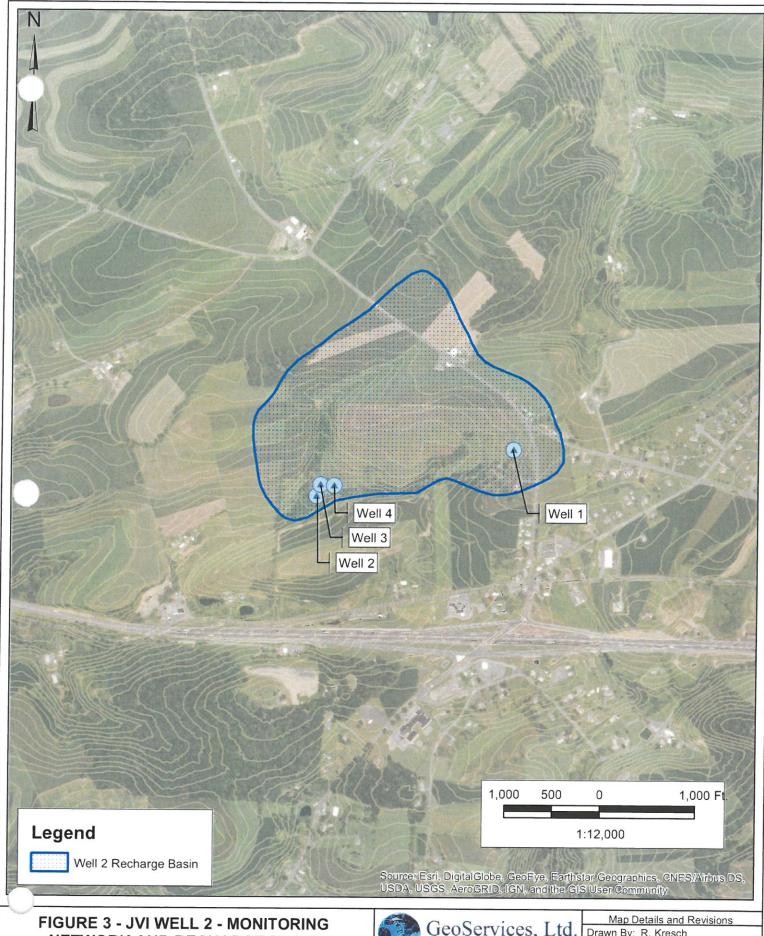


GREENWICH TOWNSHIP, BERKS COUNTY, PA



1525 Cedar Cliff Drive Camp Hill, PA 17011 www.geoservicesltd.com

Sheet 1 of 1 GSL No. 1317 Document ID: JV04 Map Updated: 10/11/2019



NETWORK AND RECHARGE BASIN

CROSSROADS X LAND DEVELOPMENT GREENWICH TOWNSHIP, BERKS COUNTY, PA



1525 Cedar Cliff Drive Camp Hill, PA 17011 www.geoservicesltd.com Drawn By: R. Kresch Checked by: J. Reese

Sheet 1 of 1 GSL No. 1317

Document ID: JV06 Map Updated: 10/11/2019

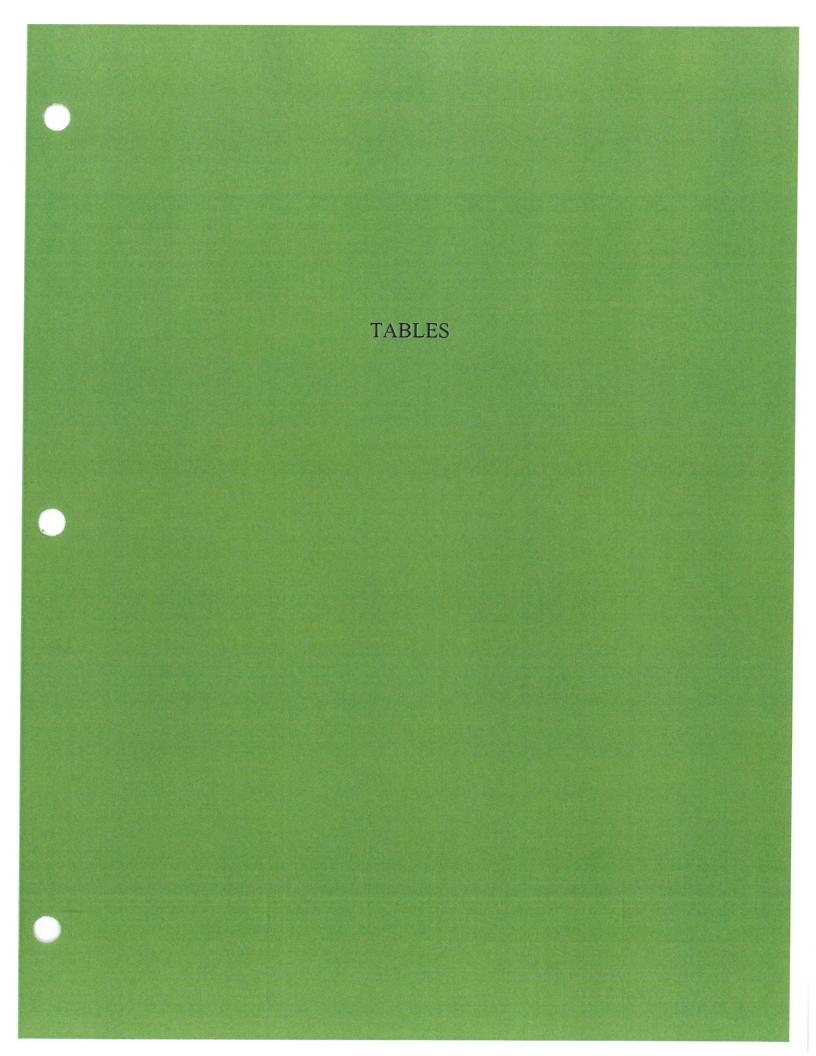


Table 1 Crossroads X Development

Ground Water Recharge Estimate

Aquifer (Formation)	Contributing Area from the Identified Formation (mi ²)	1-in-2-year Recharge Rate (gpd/mi²)	1-in-10-year Drought Recharge Rate (gpd/mi²)	Available 1-in-10-year Drought Recharge (gpd)
Hamburg Sequence	0.184	504,709	302,826	55,720

mi²: square miles gpd: gallons per day

1-in-2-year recharge rate = 10.6" = 504,709 gpd/mi² = 287,832 gallons /acre (Reese and Risser, 2010,

PGS Water Resource Report 70, Plate 6).

1-in-10-year recharge rate = 60% of 1-in-2-year recharge rate.

Available drought recharge = contributing area x drought recharge rate.

Table 2 Crossroads X Development

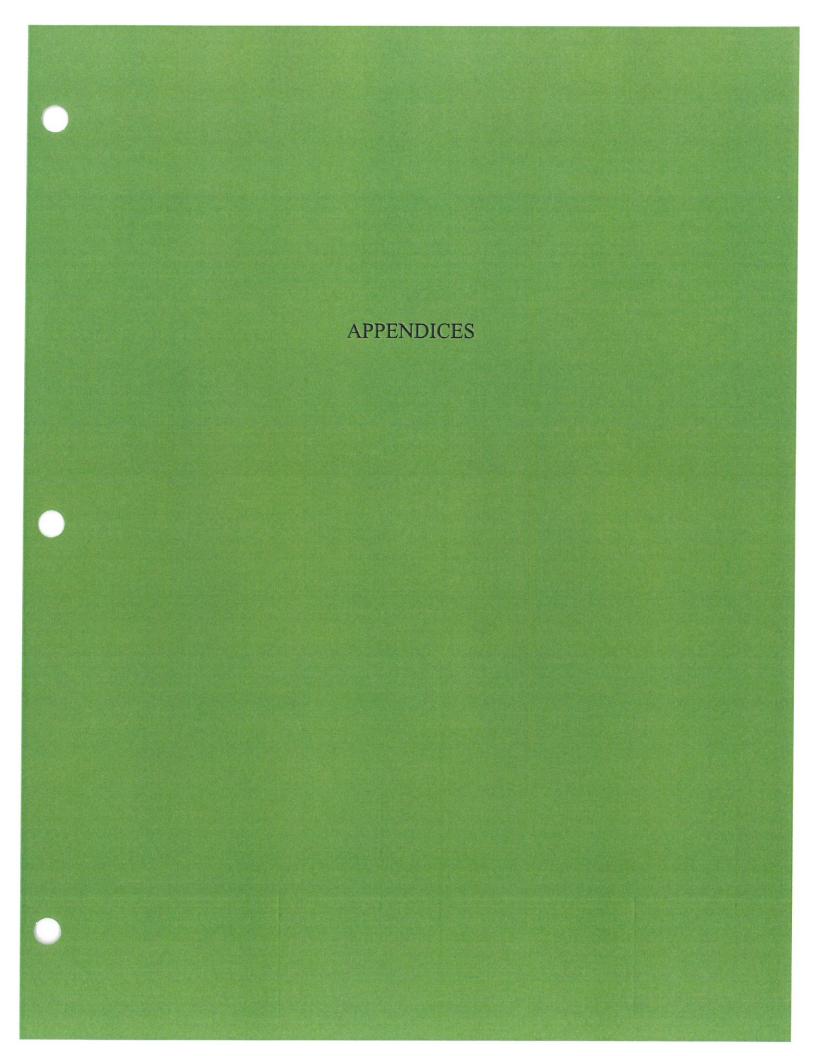
Ground Water Utilization Summary and Availability

Line		Total (gpd)
1	Groundwater Recharge, 1-in-10-year Drought (Table 1, total)	55,720
2	Other Groundwater Withdrawals Within the Recharge Area (assumes 11 properties using 262.5 gpd and one farm using 2,500 gpd)	5,388
3	Groundwater Availability (Line 1 minus Line 2)	50,332
4	Proposed Withdrawal (from Well 2)	7,350
5	Recharge Loss from Proposed Impervious Cover on-site	5,542
6	Remaining Groundwater (Line 1 minus Lines 3, 4, 5)	37,440
7	Percent of Ground Water Remaining in the Recharge Basin During a 1-in-10-year Drought (Line 7 divided by Line 1)	67%
8	Total Percent Utilization of 1-in-10-year Drought Recharge Within the Recharge Area of Well 2	33%

gpd – gallons per day

Impervious area on-site = approximately $510,000 \text{ ft}^2 = 0.0183 \text{ mi}^2$. A conservative recharge loss due to proposed impervious cover on-site = $0.0183 \text{ mi}^2 \times 302,826 \text{ gpd/mi}^2 = 5,542 \text{ gpd}$.





APPENDIX A
Pumping Test Data (provided by Carlyle Gray Associates)

Appendix A

Crossroads X Pumping Test Data from Carlyle Gray Associates Pumping Test performed by Carlyle Gray Associates 7/31-8/2/2019

Well 2

				Elapsed Time After Shutdown, t',	t/t'
	Elapsed Time, t, (min)	Pumping Water Level (ft btoc)	Drawdown (ft)	(min)	
7/31/19 9:30	0	17			
7/31/19 9:32	2	45.7	28.7		
7/31/19 9:34	4	56	39		
7/31/19 9:35	5	58.6	41.6		
7/31/19 9:38	8	65.1	48.1		
7/31/19 9:39	9	67	50		
7/31/19 9:40	10	68.9	51.9		
7/31/19 9:50	20	71.6	54.6		
7/31/19 9:55	25	72.5	55.5		
7/31/19 10:00	30	74.05	57.05		
7/31/19 10:30	60	76.4	59.4		
7/31/19 11:00	90	78.45	61.45		
7/31/19 11:30	120	78.05	61.05		
7/31/19 12:00	150	80.08	63.08		
7/31/19 12:30	180	81.7	64.7		
7/31/19 13:00	210	83.05	66.05		
7/31/19 13:30	240	82.45	65.45		
7/31/19 14:00	270	82.3	65.3		
7/31/19 14:30	300	82.3	65.3		
7/31/19 15:00	330	82.7	65.7		
7/31/19 15:30	360	82.5	65.5		
7/31/19 16:30	420	82.6	65.6		
7/31/19 17:30	480	82.65	65.65		
7/31/19 18:30	540	82.5	65.5		
7/31/19 19:30	600	82.9	65.9		
7/31/19 20:30	660	82.75	65.75		
7/31/19 21:30	720	82.6	65.6		
7/31/19 22:30	780	82.65	65.65		
7/31/19 23:30	840	82.5	65.5		
8/1/19 0:30	900	82.85	65.85		
8/1/19 1:30	960	83.05	66.05		
8/1/19 2:30	1020	83	66		
8/1/19 3:30	1080	83.1	66.1		
8/1/19 4:30	1140	84	67		
8/1/19 5:30	1200	84.5	67.5		
8/1/19 6:30	1260	84.7	67.7		
8/1/19 7:30	1320	84.5	67.5		
8/1/19 8:30	1380	84.7	67.7		
8/1/19 9:30	1440	84.7	67.7		
8/1/19 10:00	1470	87.4	70.4	C	
8/1/19 10:01	1471.5	63	46	1.5	981
8/1/19 10:02	1472.5	43.5	26.5	2.5	589
8/1/19 10:03	1473	39	22	3	
8/1/19 10:05	1475	30.2	13.2	5	295
8/1/19 10:06	1476	27.7	10.7	6	246
8/1/19 10:08	1478	25.4	8.4	8	
8/1/19 10:15	1485	23.8	6.8	15	
8/1/19 10:20	1490	20.6	3.6	20	
8/1/19 10:25	1495	18.9	1.9	25	
8/1/19 10:30	1500	18.45	1.45	30	
8/1/19 11:00	1530	17.86	0.86	60	
8/1/19 11:30	1560	17.05	0.05	90	17.3333

Distance Drawdown Data for Crossroads X Well 2 Pumping Test (July 31 through August 1, 2019)

Well I.D.	Distance (ft)	Drawdown (ft)	Direction from Well 2
Well 2	0.25	67.7	
Well 3	123.23	6.56	N
Well 4	214.06	2.06	NE

APPENDIX B
Laboratory Analytical Report (Pure Test Laboratory)



Mail to: Carlyle Gray Associates 1005 Halfway Drive Myerstown PA 17067 Lab Number: 296952 Date Reported: 09/10/2019

			Maximum	Anal	ysis				
Analyte		Pass/Fail	Contaminant Level	Date	Time Ana	alyst	Method	Reporting	Limit
296952-01 Sampled: 08/01/2019 09:4	5 Sampler: C J Conapitsk	i Source:	Well 2 Crossroads	Greenwick T	Township Be	erks C	ounty	7	
VOLATILE ORGANIC CHEMICALS		N/A	N/A						
1.1.1 - Trishloroethane	<0.0005 mg/L	Pass	0.2 mg/L	08/01/2019	5	sub E	PA 524.2 Rev 4.1	0.0005	7.
1,1,2 - Trichloroethane	<0.0005 mg/L	Pass	0.005 mg/L	08/01/2019	S	sub E	PA 524.2 Rev 4.1	0.0005	
1,1-Dichleroethylene	<0.0005 mg/L	Pass	0.007 mg/L	08/01/2019	S	ub E	PA 524.2 Rev 4.1	0.0005	
1,2,4, - Trichlorobenzene	<0.0005 mg/L	Pass	0.07 mg/L	08/01/2019	S	ub E	PA 524.2 Rev 4.1	0.0005	
1.2-Dichlorobenzene	<0.0005 mg/L	Pass	0.6 mg/L	08/01/2019	S	ub E	PA 524.2 Rev 4.1	0.0005	:
1,2-Dichloroethane	<0.0005 mg/L	Pass	0.005 mg/L	08/01/2019	S	ub E	PA 524.2 Rev 4.1	0.0005	
1,2 - Dichloropropane	<0.0005 mg/L	Pass	0.005 mg/L	08/01/2019	S	ub E	PA 524.2 Rev 4.1	0.0005	•
1,4-Dichlorobenzene	<0.0005 mg/L	Pass	0.6 mg/L	08/01/2019	s	ub E	PA 524.2 Rev 4.1	0.0005	
Benzene	<0.0005 mg/L	Pass	0.005 mg/L	08/01/2019	s		PA 524.2 Rev 4.1	0.0005	
Carbon Tetrachloride	<0.0005 mg/L	Pass	0.005 mg/L	08/01/2019	S	ub E	PA 524.2 Rev 4.1	0.0005	
Monochlorobenzene	<0.0005 mg/L	Pass	0.1 mg/L	08/01/2019			PA 524.2 Rev 4.1	0.0005	
cis-1.2-Dichloroethylene	<0.0005 mg/L	Pass	0.07 mg/L	08/01/2019			PA 524.2 Rev 4.1	0.0005	
Ethylbenzene	<0.0005 mg/L	Pass	0.7 mg/L	08/01/2019			PA 524.2 Rev 4.1	0.0005	
Methylene Chloride	<0.0005 mg/L	NAA	N/A	08/01/2019			PA 524.2 Rev 4.1	0.0005	
Styrene	<0.0005 mg/L	Pass	0.1 mg/L	08/01/2019	St		PA 524.2 Rev 4.1	0.0005	
Tetrachioroethylene	<0.0005 mg/L	Pass	0.005 mg/L	08/01/2019			PA 524.2 Rev 4.1		
Toluene	<0.0005 mg/L	Pass	1.0 mg/L	08/01/2019	St		PA 524.2 Rev 4.1	0.0005	;
1,2-Trans-dichloroethylene	<0.0005 ug/L	N/A	N/A	08/01/2019	SU		A 524.2 Rev 4.1	0.0005	
Trichloroethylene	<0.0005 mg/L	Pass	0.005 mg/L	08/01/2019				0.0005	
Vinyl Chloride	<0.0005 mg/L	Pass	0.003 mg/L	08/01/2019	SU		A 524.2 Rev 4.1	0.0005	
Xylenes, Total	<0.0010 mg/L	Pass		08/01/2019	SU		A 524.2 Rev 4.1	0.0005	
NORGANIC CHEMICALS		N/A	10.0 mg/L	00/01/2019	SU	D EP	A 524.2 Rev 4.1	0.0010	<u>.</u>
	<0.001 mg/L		N/A						
	and the second s	Pass	0.006 mg/L	08/09/2019	SU		A 200.8 Rev 5.4	0.001	
	<0.005 mg/L	Pass	0.05 mg/L	08/09/2019	Sul		A 200.8 Rev 5.4	0.005	- :
	<0.400 mg/L	Pass	2.0 mg/L	08/09/2019	Sul	b EP	A 200.8 Rev 5.4	0.400	-
	<0.0008 mg/L	Pass	0.004 mg/L	08/09/2019	sul	EP.	A 200.8 Rev 5.4	0.0008	
	<0.0005 mg/L	Pass	0.005 mg/L	08/05/2019	bfn	n	SM3113b	0.0005	
	<0.005 mg/L	Pass	0.1 mg/L	08/07/2019	bfn	n	SM3113b	0.005	
	<0.02 mg/L	Pass	1.3 mg/L	08/05/2019	bfm	1	SM3111b	0.02	
	<0.05 mg/L	Pass	0.2 mg/L	08/05/2019	sut)	EPA 335.4	0.05	-;-
luoride	0.1 mg/L	Pass	2.0 mg/L	08/01/2019	19:07 rwf		4110B	0.05	:
ead	<0.002 mg/L	Pass							



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4.004.8			Maximum	Analy	sis			
Analyte	Result	Pass/Fail	Contaminant Level	Date	Time	Analys	t Method	Reporting Limit
Mercury	<0.0002 mg/L	Pass	0.002 mg/L	08/08/2019		bfm	SM3112b	0.0002
Nickel	<0.005 mg/L	N/A	N/A	08/09/2019		sub	EPA 200.8 Rev 5.4	0.005
Nitrale-Nitrogen	4.92 mg/L	Pass	10.4 mg/L	08/01/2019	19:07	rwl	4110B	0.5
Mitrite-Mitrogen	<0.3 mg/L	Pass	1 mg/L	08/01/2019	19:07	rwl	4110B	0.3
Selanium	<0.01 mg/L	Pass	0.05 mg/L	08/09/2019		sub	EPA 200.8 Rev 5.4	0.01
Thallium	<0.001 mg/L	Pass	0.002 mg/L	08/09/2019		sub	EPA 200.8 Rev 5.4	0.001
SYNTHETIC ORGANIC CHEMS		N/A	N/A					0.001
Alachlor	<0.0010 mg/L	Pass	0.002 mg/L	08/05/2019		sub	EPA 505 Rev 2.1	0.0010
Carboluran	<0.010 mg/L	Pass	0.04 mg/L	08/06/2019		sub	EPA 531.1 Rev 3.1	0.010
Chlordane	<0.0010 mg/L	Pass	0.002 mg/L	08/05/2019		sub	EPA 505 Rev 2.1	0.0010
Endothall	<0.045 mg/L	Pass	0.1 mg/L	08/06/2019		sub	EPA 548.1 Rev 1.0	
Endrin	<0.0010 mg/L	Pass	0.0002 mg/L	08/05/2019		sub	EPA 505 Rev 2.1	0.045
Heptachion	<0.0002 mg/L	Pass	0.0004 mg/L	08/05/2019		sub	EPA 505 Rev 2.1	
Heptachlor Epoxide	<0.0001 mg/L	Pass	0.0002 mg/L	08/05/2019		sub	EPA 505 Rev 2.1	0.0002
Hexachlorobenzene	<0.0005 mg/L	Pass	0.001 mg/L	08/05/2019		sub	EPA 505 Rev 2.1	0.0001
Hexachlorocyclopentadiene	<0.0020 mg/L	Pass	0.05 mg/L	08/05/2019		sub	EPA 505 Rev 2.1	0.0005 4
Lindane	<0.0001 mg/L	Pass	0.0002 mg/L	08/05/2019				0.0020
Methoxychitar	<0.0020 mg/L	Pass	0.04 mg/L	08/05/2019		sub	EPA 505 Rev 2.1	0.0001
Oxamyl (Vydate)	<0.010 mg/L	Pass	0.04 mg/L	08/06/2019		sub	EPA 505 Rev 2.1	0.0020
Polychlorinated Biphenyls	0.00 mg/L	Pass	0.0005 mg/L			sub	EPA 531.1 Rev 3.1	0.010 .:
Simazine	<0.0020 mg/L			08/05/2019		sub	EPA 505 Rev 2.1	
Atrazing	<0.0020 mg/L	Pass	0.004 mg/L	08/13/2019		sub	EPA 525.2 Rev 2.0	0.0020
Toxaphene	<0.0020 mg/L	Pass	0.003 mg/L	08/13/2019		sub	EPA 525.2 Rev 2.0	0.0020
Benzo(a)Pyrene		Pass	0.003 mg/L	08/05/2019		sub	EPA 505 Rev 2.1	0.0015
DI(2-Ethylhexyt)Phthalate	<0.0002 mg/L	Pass	0.0002 mg/L	08/13/2019		sub	EPA 525.2 Rev 2.0	0.0002
Di(2-Ethyihexyl)Adipate	<0.0050 mg/L	Pass	0.006 mg/L	08/13/2019		sub	EPA 525.2 Rev 2.0	0.0050
2,4,5-TP Silvex	<0.0020 mg/L	Pass	0.4 mg/L	08/13/2019		sub	EPA 525.2 Rev 2.0	0.0020
	<0.00025 mg/L	Pass	0.05 mg/L	08/12/2019		sub	EPA 515.3 Rev 1.0	0.00025
2,4-D	<0.00100 mg/L	Pass	0.05 mg/L	08/12/2019		sub	EPA 515.3 Rev 1.0	0.00100 4
Dalapon	<0.00100 mg/L	Pass	0.2 mg/L	08/12/2019		sub l	EPA 515.3 Rev 1.0	0.00100
Dinosel)	<0.00100 mg/L	Pass	0.007 mg/L	08/12/2019		sub 8	EPA 515.3 Rev 1.0	0.00100
Pentachlorophenol	<0.00020 mg/L	Pass	0.001 mg/L	08/12/2019			PA 515.3 Rev 1.0	0.00020 :
Picloram	<0.00100 mg/l	Pass	0.5 mg/l	08/12/2019			PA 515.3 Rev 1.0	0.00100
Dibromochloropropana	<0.00002 mg/L	Pass	0.0002 mg/L	08/06/2019			PA 504.1 Rev 1.1	0.00002
thylene Dibromide	<0.00001 mg/L	Pass	0.00005 mg/L	08/06/2019			PA 504.1 Rev 1.1	0.00002
liquat	<0.005 mg/L	Pass	0.02 mg/L	08/05/2019			PA 549.2 Rev 1.0	
						July L	1.0 040.2 NEV 1.0	0.005



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Analysis			Maximum	Analy	ysis				
Analyte	Result	Pass/Fail		Date	Time	Analyst	Method	Reporting	a Lin
Glyphosale	<0.025 mg/L	Pass	0.7 mg/L	08/01/2019		sub	EPA 547 Rev 1.0	0.025	
Dioxin (2.3, c.8-TCDD) 1613	<4.11 pg/L	Pass	30 pg/L	08/19/2019		sub	EPA 1613B	4.11	
Asbestos	None Detected mfl	Pass	7 mfl	08/15/2019		sub	100.2		
RADIONUCLIDES		N/A	N/A						
Radiological, Gross Alpha	2.0 pCi/L	Pass	15 pCi/L	08/29/2019	-	sub	SM7110 B		
Radiológical, Gross Beta	2.3 pCi/L	Pass	50 pCi/L	08/20/2019		sub	SM7110 B		
Radium - 226	0.09 pCi/L	Pass	20 pCi/L	08/16/2019		sub	SM7500-Ra B		
Redium - 228	0.24 pCi/L	Pass	20 pCi/L	08/14/2019		sub	SM7500-Ra D		
Uranium	<0.47 ug/L	Pass	30 ug/L	08/16/2019		sub	EPA 200.8		
SECONDARY CONTAMINANTS		N/A	N/A			300	LFA 200.6		
Alkalinity	47 mg/L	N/A	N/A	08/01/2019	-	- Oh:	CHICAGO		
Sulfates	6.33 mg/L	Pass	250 mg/L	08/01/2019	19:07	ajy	SM2320B	1	
Aluminum	<0.02 mg/L	Pass	0.2 mg/L	08/09/2019	19.07	rwl	4110B	1.5	
Chloride	9.5 mg/L	Pass	250 mg/L		40.07	sub	SM3111D	0.02	
Conductivity .	188 uS/cm	N/A	N/A	08/01/2019	19:07	rwf	4110B	1.5	
Color	4 unit(s)	Pass		08/01/2019		ajy	SM2510B		
Detergents (MBAS)	<0.01 mg/L		15 unit(s)	08/01/2019		rwl	SM2120C		-
Hardness	91 mg/L	Pass	0.5 mg/L	08/01/2019		rwl	SM5540	0.01	. 1
ron	0.02 mg/L	N/A	N/A	08/01/2019		ajy	SM2340C	1	
Manganese		Pass	0.30 mg/L	08/01/2019		ajy	SM3111B	0.01	Ĵ
DH	0.037 mg/l	Pass	0.05 mg/l	08/01/2019		ajy	SM31118	0.001	÷
Gilver	7.42	Pass	6.5 - 8.5	08/01/2019		ajy	SM4500H		
	<0.005 mg/L	Pass	0.1 mg/L	08/09/2019		sub E	PA 200.8 Rev 5.4	0.005	41
emperature	15.1 Celcius	N/A	N/A	08/01/2019		ajy			- 3
otal Dissolved Solids	91 mg/L	Pass	500 mg/L	08/01/2019		ajy	SM2510		3
otal Organic Carbon	<0.5 mg/L ,	N/A	N/A	08/05/2019		sub	SM 5310 C	0.5	
urbidity	<0.050 NTU	Pass	1.0 NTU	08/06/2019		bfm	EPA108.1	0.050	
linc	<0.05 mg/L	Pass	5.0 mg/L	08/07/2019		bfm	SM3111b	0.05	
his sample was collected by a la	ab-authorized sample	г.						0.00	
96952-02 Sampled: 08/01/2019 09:15	Sampler: C J Conapitski	Source: W	ell 7 Crossroads G	roopyeisk Tay	un als f	2 1 4			2.7
acteria - Total Coliform	5.0 MPN/100mL	Fail	0 MPN/100mL		vnsmp 4:24				
acteria - E.coli	0 MPN/100mL	Pass	0 MPN/100mL		4:24	meb	SM9223	0	
his sample was collected by a la	b-authorized com-1-		10 100HIL		7.29	meb	SM9223	0	
96952-03 Sampled: 08/01/2019 09:30			113.5						
acteria - Total Coliform	0 MPN/100mL	Pass	ell 2 Crossroads Gr 0 MPN/100mL						
acteria - E.coli	0 MPN/100mL				4:24	meb	SM9223	0	
	O WIT IN TOURIL	Pass	0 MPN/100mL	08/01/2019 1	4:24	meb	SM9223	0	



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		Maximum	Anal	/sis			
Result I	Pass/Fail	Contaminant Level	Date	Time	Analyst	Method	Reporting Limit
Sampler: C J Conapitski	Source:	Well 2 Crossroads	Greenwick 7	ownshi	p Berks Co	ounty	
2.2 MPN/100mL	Fail	0 MPN/100mL	08/01/2019	14:24	meb	SM9223	0
0 MPN/100mL	Pass	0 MPN/100mL	08/01/2019	14:24	meb	SM9223	0
	ab-authorized sample Sampler: C J Conapitski 2.2 MPN/100mL	ab-authorized sampler. Sampler: C J Conapitski Source: 2.2 MPN/100mL Fail	ab-authorized sampler. Sampler: C J Conapitski Source: Well 2 Crossroads 2.2 MPN/100mL Fail 0 MPN/100mL	Result Pass/Fail Contaminant Level Date ab-authorized sampler. Sampler: C J Conapitski Source: Well 2 Crossroads Greenwick 7 2.2 MPN/100mL Fail 0 MPN/100mL 08/01/2019	Result Pass/Fail Contaminant Level Date Time ab-authorized sampler. Sampler: C J Conapitski Source: Well 2 Crossroads Greenwick Townshi 2.2 MPN/100mL Fail 0 MPN/100mL 08/01/2019 14:24	Result Pass/Fail Contaminant Level Date Time Analyst ab-authorized sampler. Sampler: C J Conapitski Source: Well 2 Crossroads Greenwick Township Berks Co 2.2 MPN/100mL Fail 0 MPN/100mL 08/01/2019 14:24 meb	Result Pass/Fail Contaminant Level Date Time Analyst Method ab-authorized sampler. Sampler: C J Conapitski Source: Well 2 Crossroads Greenwick Township Berks County 2.2 MPN/100mL Fail 0 MPN/100mL 08/01/2019 14:24 meb SM9223

This sample was collected by a lab-authorized sampler.

- 1 Analysis sintingularizated to lab #06-003
- 2. Analysis subscorracted to lab 458-551.
- 3 This parameter is not covered under PADSP accreditation. See www.purelest.com for current accreditation.
- 4 Anelysis subcompeted to lab 406-003
- 5. Analysis subcontracted to lab r36-00037.
- 3 Analysis suprontructed to lob distroilirs Eaton Analytical South Bend

THE PERSON

he Maximum Contaminant Level (MCL) is the maximum permissible level of a contaminant in water per the SDWA. Some parameters have no established MC-Pure-Test is certified #38-00338 by the Pennsylvania Department of Environmental Protection, #345 by the Maryland Department of the Environment.

MDE

Report Approved By:

Andrew T Heist, Lab Technician

APPENDIX C
MPA Testing Results (PADEP Laboratory)



Date of Issue: 08/21/2019 04:01:16

DEP Bureau of Laboratories - Harrisburg P.O. Box 1467 2575 Interstate Drive Harrisburg, PA 17105-1467

NELAP - accredited by

NJ DEP - Laboratory Number: PA059 PA DEP LAP - DEP Lab ID: 22-00223

Contact Phone Number: (717) 346-7200

Water Supply Management Analytical Report For

Date Collected: 08/01/2019 09:57:00 AM

Sample ID: 1342 256

Lab Sample ID: B2019050191

Status: Completed

Name of Sample Collector: Derrick Havice Date Received: 08/02/2019

Location: NOT INDICATED

Municipality: NOT INDICATED

County: NOT INDICATED

State:

Project: NOT INDICATED Reason: Routine Sampling

Standard Anlysis: 8104

Matrix: Water

Stream Condition:

	Reported Results	Date And Time Analyzed	Approved by	Test Method
VIP1 Surface Water Identification Procedure- Brief*		08/02/2019 02:00 PM	PASHENFELD	EPA 9'0/9-29
"Comment "Results are in Giardiab mdb				
ion Procedure- Brief*	orted Results	Date And Time Analyzed 08/02/2019 02:00 PM	Approved by PASHENFELD	

denotes tests that the laboratory is not accredited for ents of

J - Indicates an estimated value, reported between Reporting Limit (RL) and Minimum Detection Limit (NDL).

Taru Upadhyay, Technical Director, Bureau of Laboratories

Analytical Report For Water Supply Management Date Collected: 08/31/2019 09:57:00 AM

Lab Sample ID: 82019050191

Status: Completed

Sample ID: 1342 256

2 of 2

SURFACE WATER IDENTIFICATION REPORT

Source: Collected by: Received:	D.HAVI		Sample I Collection			1342 8/1/20	
llons Collected:	1245	Total Sedime	nt Vol:	0.1	Chlorin	ne:	
		Rotifers	А				
		Crustaceans	А				
	Insec	t / Insect Parts	А				
	Dia	toms (Living)	А				
		lgae (Surface)	А				
		idian Oocysts	A				
	Cellula	ar Plant Debris	A				
		Giardia	Α				
		Other	A		Risk		L
Comments:							
FILTER - BRO	NW						

MPA Classification and Quantification of Particulates

Date: 8/1/19

CROSSROADS X WAREHOUSE

Address NEW V Analyst PA	VELL.						Sample #	: 1342-256
Primary Particulates	1	2	Slide #	4	5	Total	#/100 Gal.	Risk Factor
Giardia	0		A. A	The second second second		()	()	0
Coccidia	0					0	0	0
Diatoins	0					0	0	0
Other Algae	0					0	0	0
Insects/crustacea	0					()	0	0
Rotifers	0					0	0	0
Plant Debris	()					0	0	0
Secondary			Slide#		Risk Facto		Medium	High Risk
Particulates arge Amorphous	1	2	3	4	5	Total	Gal.	Factor
Debris						~		
Fine Amorphous Debris								
Minerals								
Plant Pollen								
Nematodes						and the second s		
iliates/Flagellates								
			harries				Tota	ıl:
					Risk Fa	ctor: Low	Medium	High
						L		



Date of Issue: 08/21/2019 04:02:53

DEP Bureau of Laboratories - Harrisburg P.O. Box 1467 2575 Interstate Drive Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059 PA DEP LAP - DEP Lab ID: 22-00223

Sample ID: 1342 257

Date Collected: 08/01/2019 10:01:00 AM

Water Supply Management

Analytical Report For

Lab Sample ID: 12019019184

Status: Completed

Name of Sample Collector: Derrick Havice Date Received: 08/02/2019

Municipality: NOT INDICATED County: NOT INDICATED

State:

Location: NOT INDICATED Reason: Raw Source

Standard Anlysis: 167 Project: NOT INDICATED

Matrix: Water

Stream Condition:

- COURT - COURT - LEAD TO		THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED		
00410 ALKALIVITY AS CASOS STATE	Reported Results	Date And Time Analyzed	Approved by	Test Method
00403 pH lab (Flectrometric)	SB.8 mg/L	18/02/2019 02:08 PM	MTUZINSKI	SN 2320B
** Comment ** Holding Time Exceeded	7.5 pH units	08/02/2019 02:08 PM	MTUZINSKI	SN 4500-H+ B
00095 SPECIFIC CONDUCT V TY @ 25.0 C	271.00 umhcs/cm	8:06'2019 02:04 PW	MTIIZNISKI	25.00
004031 Temperature at which pH is measured	20.87 C	08/03/2010 03:08 544	AT USE WORL	SN. 451CB
70300U TOTAL DISSOLVED SOLIDS @ 1800 BY LISGS L 1750		COLOR COLOR OF TAIL	MICZINSKI	SM 4500-H+ B
00620A Total Nitrate Nitrogen Coloringto	200 mg/L	08/02/2019 11-32 AM	DEVBARRY	USGS 1-1750
Serio Opposition C	9.22 mg/L	08/02/2019 11:14 AM	TBEAR	EPA 353 2

Analytical Report For

Test Codes / CAS # - Description Sample ID: 1342 257 Date Collected: \$2/01/2019 10:01:00 AM Water Supply Management

00500 TOTAL SOLIDS

00615A Total Nitrite Nitrogen-Colorimetric

Date Collected.	Date Collected. Pero Lizota To of the Mile	rap sample in: 120190 9184	Statu	Status: Completed
	Reported Results	Date And Time Analyzed	Approved by	Test Method
	<.01 mg/L (U)	08/02/2019 £9:49 AM	TBEAR	EPA 353.2
	218 mg/L	08/02/2019 C3:27 PM	LWILKINSON	USGS 1-3750
	C.45 NTU	08/02/2019 11:29 AN	JANBARRY	EPA 180.1

82079A TURBIDITY, NEPHELMETR'C C.45 NTU 08/02/2019 11:29 AM JANBARRY EPA 180.1

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

Indicates an estimated value, reported between Reporting Limit (RL) and Minimum Detection Limit (MDL).

Taru Upadhyay, Technical Director, Bureau of Laboratories

Section 9 COMPONENT 4A



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

INSTRUCTIONS FOR COMPLETING COMPONENT 4A MUNICIPAL PLANNING AGENCY REVIEW

Remove and recycle these instructions prior to mailing component to the approving agency.

Background

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

Who Should Complete the Component?

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

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

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

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

Section A. Project Name

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

Section B. Review Schedule

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

Section C. Agency Review

- 1. Answer the yes/no questions and provide any descriptive information necessary on the lines provided. Attach additional sheets, if necessary.
- 2. Complete the name, title, and signature block.

tion D. Additional Comments

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



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

DEP	Code #:	

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

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning module package and one copy of this Planning Agency Review Component should be sent to the local municipal planning agency for their comments. SECTION A. PROJECT NAME (See Section A of instructions) **Project Name** JVI, LLC. Krumsville Warehouse SECTION B. REVIEW SCHEDULE (See Section B of instructions) Date plan received by municipal planning agency 2. Date review completed by agency _ SECTION C. AGENCY REVIEW (See Section C of instructions) Yes No Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, et seq.)? П Is this proposal consistent with the comprehensive plan for land use? If no, describe the inconsistencies _ 3. Is this proposal consistent with the use, development, and protection of water resources? If no, describe the inconsistencies Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation? Does this project propose encroachments, obstructions, or dams that will affect wetlands? If yes, describe impacts \Box Will any known historical or archaeological resources be impacted by this project? If yes, describe impacts _____ Will any known endangered or threatened species of plant or animal be impacted by this П 7. project? If yes, describe impacts Is there a municipal zoning ordinance? 9. Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____ 10. Does the proposal require a change or variance to an existing comprehensive plan or zoning ordinance? 11. Have all applicable zoning approvals been obtained? П 12. Is there a municipal subdivision and land development ordinance?

AGEN	CY REVIEW (continued)
13.	Is this proposal consistent with the ordinance?
	If no, describe the inconsistencies
14.	Is this plan consistent with the municipal Official Sewage Facilities Plan?
	If no, describe the inconsistencies
15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?
	If yes, describe
16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
	If yes, is the proposed waiver consistent with applicable ordinances?
	If no, describe the inconsistencies
17.	Name, title and signature of planning agency staff member completing this section:
	Name:
	Title:
	Signature:
	Date:
	Name of Municipal Planning Agency:
	Address
	Telephone Number:
ADDITI	ONAL COMMENTS (See Section D of instructions)
does no	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.
and any	additional comments are to be returned to the applicant.
	13. 14. 15. 16. 17. ADDITI does no plan to dency mu

Section 10 COMPONENT 4B

3850-FM-BCW0362B 6/2016
Instructions

pennsylvania

DEPARTMENT OF ENVIRONMENTAL
PROTECTION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

INSTRUCTIONS FOR COMPLETING COMPONENT 4B COUNTY PLANNING AGENCY REVIEW (or Planning Agency with Areawide Jurisdiction)

Remove and recycle these instructions prior to mailing component to the approving agency.

Background

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

Who Should Complete the Component?

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

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

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

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

Section A. Project Name

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

Section B. Review Schedule

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

Section C. Agency Review

- Answer the yes/no questions and provide any descriptive information necessary on the lines provided. Attach additional sheets, if necessary.
- 2. Complete the name, title, and signature block.

Section D. Additional Comments

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



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

DEP Code #:	

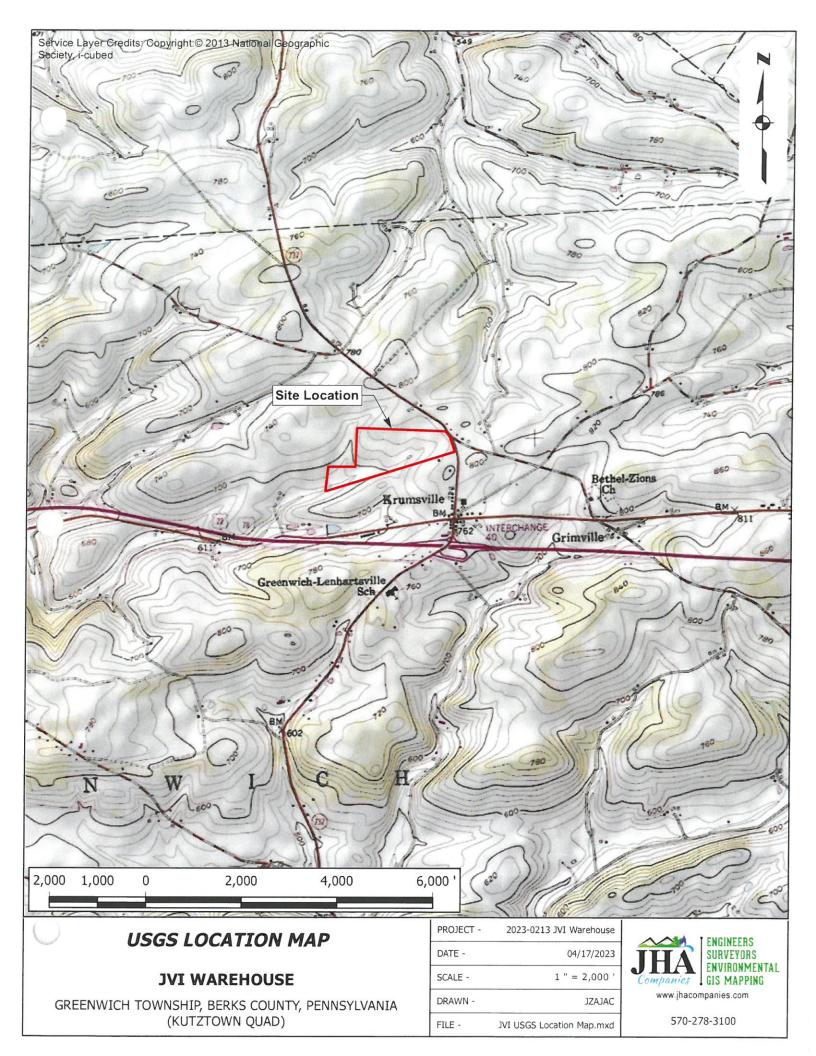
SEWAGE FACILITIES PLANNING MODULE COMPONENT 4B - COUNTY PLANNING AGENCY REVIEW

(or Planning Agency with Areawide Jurisdiction)

one	copy of	this I	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 sdiction for their comments.				
SEC	TION A	. Р	ROJECT NAME (See Section A of instructions)				
Proje	ect Nam	е					
JVI, I	LLC. Krı	umsv	ille Warehouse				
SEC	TION B.	. R	REVIEW SCHEDULE (See Section B of instructions)				
1.	Date p	Date plan received by county planning agency					
2.		e plan received by planning agency with areawide jurisdiction					
	Agenc	y nan	ne				
3.			completed by agency				
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?				
		3.	Does this proposal meet the goals and objectives of the plan?				
			If no, describe goals and objectives that are not met				
		4.	Is this proposal consistent with the use, development, and protection of water resources?				
			If no, describe inconsistency				
		5.	Is this proposal consistent with the county or areawide comprehensive land use planning relative to Prime Agricultural Land Preservation?				
			If no, describe inconsistencies:				
		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?				
			If yes, describe impacts				
		8.	Will any known endangered or threatened species of plant or animal be impacted by the development project?				
			If yes, describe impacts				
		9.	Is there a county or areawide zoning ordinance?				
J		10.	Does this proposal meet the zoning requirements of the ordinance?				
			If no, describe inconsistencies				

PECT	ION C.	A	GENCY REVIEW (continued)
res	No		
		11.	Have all applicable zoning approvals been obtained?
		12.	Is there a county or areawide subdivision and land development ordinance?
		13.	Does this proposal meet the requirements of the ordinance?
			If no, describe which requirements are not met
		14.	Is this proposal consistent with the municipal Official Sewage Facilities Plan?
			If no, describe inconsistency
		15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?
			If yes, describe
		16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
			If yes, is the proposed waiver consistent with applicable ordinances.
			If no, describe the inconsistencies
		17.	Does the county have a stormwater management plan as required by the Stormwater Management Act?
			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:			
Title:			
Signature:			
			Date:
			Name of County or Areawide Planning Agency:
			Address:
			Telephone Number:
SECTIO	ON D.	ADI	DITIONAL COMMENTS (See Section D of instructions)
This co	mpone oosed p	nt do	es not limit county planning agencies from making additional comments concerning the relevancy of other plans or ordinances. If additional comments are needed, attach additional sheets.
The cou	ınty pla	nning	agency must complete this component within 60 days.
This cor	mponei	nt and	any additional comments are to be returned to the applicant.

Section 11 LOCATION MAP



Section 12
PENNSYLVANIA NATURAL DIVERSITY INVENTORY (PNDI)
CORRESPONDENCE

1. PROJECT INFORMATION

Project Name: JVI Warehouse Wastewater Treatment Plant

Date of Review: 3/23/2023 10:05:35 AM

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

Project Area: 42.16 acres

County(s): Berks

Township/Municipality(s): GREENWICH TOWNSHIP

ZIP Code:

Quadrangle Name(s): **KUTZTOWN** Watersheds HUC 8: **Schuylkill**

Watersheds HUC 12: Upper Maiden Creek Decimal Degrees: 40.582814, -75.802182

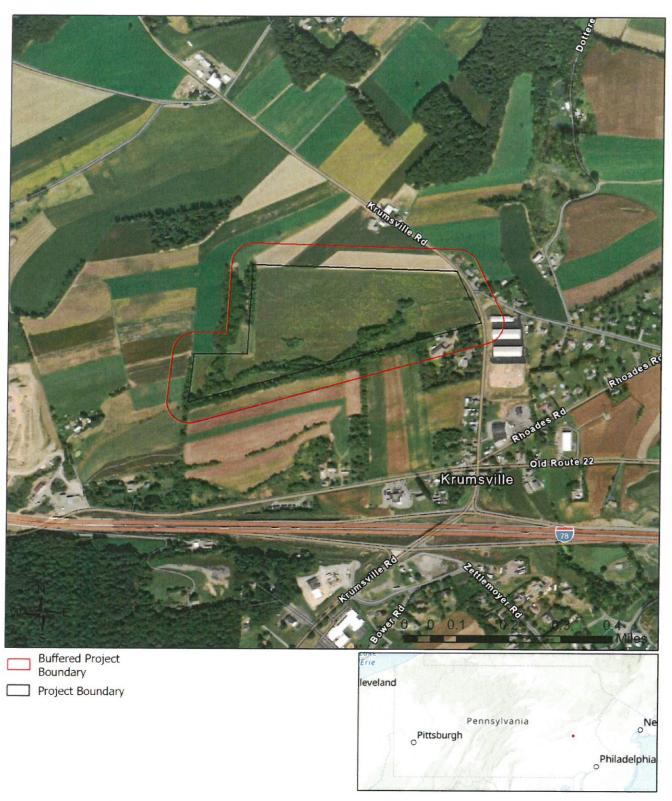
Degrees Minutes Seconds: 40° 34' 58.1303" N, 75° 48' 7.8536" W

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

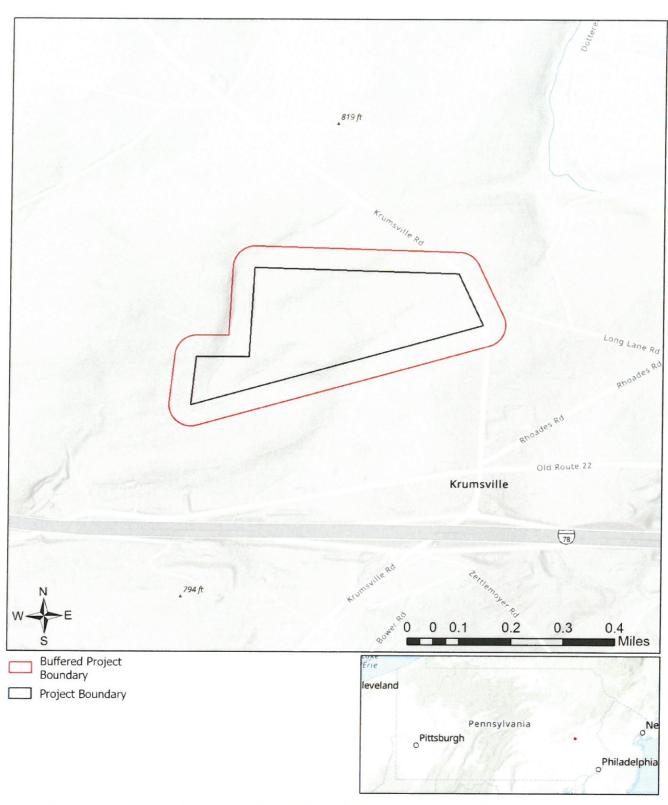
As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with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

JVI Warehouse Wastewater Treatment Plant



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

JVI Warehouse Wastewater Treatment Plant



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

21: Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting JNE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

Your answer is: The entire project and associated discharge, plus a 300-foot buffer around the project area, all occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, railroad bed, maintained lawn, or crop agriculture field.

Q2: 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: The project will affect 1 to 39 acres of forests, woodlots and trees.

Q3: 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 odverse 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.

J.S. Fish and Wildlife Service RESPONSE:

Project Search ID: PNDI-782584

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

4. DEP INFORMATION

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

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

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

PA Fish and Boat Commission

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

Name: Corey Rilk	
Company/Business Name: JHA Companies	
Address: 466 South Main Street	
City, State, Zip: Montrose, PA 18801	
Phone: (570) 204-0138 Fax: (
Email: crilk@jhacompanies.com	
8. CERTIFICATION I certify that ALL of the project information contained size/configuration, project type, answers to question location, size or configuration changes, or if the anschange, I agree to re-do the online environmental reformation.	ns) is true, accurate and complete. In addition, if the project type, wers to any questions that were asked during this online review

Section 13
PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION (PHMC)
CORRESPONDENCE

September 19, 2019

James A. Vozar JVI, LLC 1265 Miller Road Wind Gap, PA 18091

RE: ER 2008-1053-011-E – COE: Krumsville Warehouse Facility, Greenwich Township, Berks County

Dear Mr. Vozar:

Thank you for providing updated information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA 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. Our comments are as follows:

Based on the updated site plan you provided showing the Archaeological Permit Area for this project, in our opinion, the project as proposed will have no effect on significant archaeological resources.

As per our previous review, this project will also have no effect on significant above ground historic resources.

In our opinion, project activities may proceed as planned.

If you have any questions or comments concerning our review, please contact Mark Shaffer at mshaffer@pa.gov or (717) 783-9900.

Sincerely,

Douglas C. McLearen, Chief

Do borst

Division of Environmental Review

Section 14 PUBLIC NOTIFICATION

PUBLIC NOTIFICATION

In accordance with Pennsylvania Department of Environmental Protection regulations, Section 71.53(d)(6) of PA Code, Title 25, Act 537, Greenwich Township is accepting comments for the next thirty (30) days on the proposed adoption of a PA DEP Sewage Facilities Planning Module that will revise the Greenwich Township Act 537 Official Sewage Facilities Plan.

Notice is hereby given that an application to the Pennsylvania Department of Environmental Protection for the approval of a revision to the Greenwich Township Act 537 Plan has been prepared by JHA Companies, on behalf of JVI, LLC. for the proposed JVI, LLC. Krumsville Warehouse commercial subdivision.

The proposed commercial development is located on Krumsville Road (Route 737), directly west across from the intersection of Route 737 and Long Lane Road, in Greenwich Township, Berks County, PA. The proposed commercial development includes one existing tax parcel identified as 45544603019058, totaling in 44.3 acres. The proposed development will consist of a warehouse/distribution center, truck courts, employee parking areas, trailer storage areas, site utilities, landscaping amenities, a storm water collection, conveyance, and management system, and other site improvements. Sanitary sewer service will be provided by a proposed wastewater treatment facility.

The area of the proposed commercial development is approximately 20.7 acres.

The proposed method of sewage disposal is through a proposed wastewater treatment facility discharging treated effluent to an unnamed tributary 63888 to Maiden Creek, passing through the southern part of the property.

The purpose of this notification is to inform the public the following:

- This project involves a different land use pattern than established in the Municipal Official Sewage Plan.
- This project is not served by public sanitary sewers, so it proposes the construction of an on-site wastewater treatment plant that will discharge treated effluent to an unnamed tributary 63888 to Maiden Creek.
- A Pennsylvania Natural Diversity Inventory (PNDI) database search was performed which did not identify any potential impacts. A copy of the PNDI correspondence is included in the planning module and is available for public review.
- A Cultural Resource Notice was submitted to the Pennsylvania Historical and Museum Commission (PHMC). The PHMC review determined that the project will have no effect on historical properties. A copy of the PHMC correspondence is included in the planning module and is available for public review.

There is a thirty-day period during which the Sewage Facilities Planning Module and Land Development Plans are available to be viewed at the Greenwich Township Building, at 775 Old Route 22, Lenhartsville, PA 19534 between the regular hours of operation. The review period shall extend until the close of business on the thirtieth day after the date of this public notice. Written comments on the proposed PA DEP Sewage Facilities Module may be submitted to Ms. Diane Hollenbach, Township Administrator Secretary/Treasurer, at the above address.

Section 15 LONG TERM OPERATIONS AND MAINTENANCE PLAN

Section O: Long Term Operations and Maintenance Plan

The client will create an Operations and Maintenance Manual along with Standard Operating Procedures during the design phase of the treatment facility project. The client will also hire a certified operator to operate and maintain the treatment facility.

Section 16 PLANS