



WILLISTOWN TOWNSHIP
Board of Supervisors Meeting
February 23, 2026
7:00 p.m.

Agenda

LOCATION: Township Building, 688 Sugartown Road, Malvern, PA 19355 and via Zoom

A. CALL TO ORDER

B. PLEDGE OF ALLEGIANCE TO THE FLAG

C. ANNOUNCEMENTS

The Board of Supervisors will hold a special meeting at 7 PM on February 26, 2026, at 688 Sugartown Road for a continued Public Hearing on conditional use application No **C-02-25** and to consider Land Development application **L-01-25**, both regarding the construction of an age-restricted apartment development at 27 & 29 Industrial Boulevard.

D. REGULAR BUSINESS ITEMS

1. Approve the Minutes for the meeting of February 9, 2026, and February 12, 2026
2. Approve the list of expenditures dated February 20, 2026
3. Police Report
4. Resolution
 - a. Resolution 9 of 2026 – Act 537 Special Study for the Decommissioning of the Deerfield Knoll Wastewater Treatment Plant

E. OLD BUSINESS ITEMS

F. DISCUSSION/ACTION ITEMS

1. Motion to approve purchase of a BWISE 18' Hydraulic Tilt Trailer in the amount of \$9,656.24
2. Motion to approve purchase of Hathorn H12+ Camera System and Reel for \$12,067.60
3. Motion to approve 2026 Emergent Sewer Repairs Award to Doli Construction Corp for \$292,907.00

G. PUBLIC COMMENT

H. ADJOURNMENT

Next Regular Meeting: Monday, March 9, 2026, at the Willistown Township Administration Building, 688 Sugartown Road, Malvern



WILLISTOWN TOWNSHIP

Willistown Board of Supervisors Meeting

February 9, 2026

7:00 PM

Minutes

LOCATION: Willistown Township Administration Building, 688 Sugartown Road, Malvern

Members Present:

Supervisor Molly H.B. Perrin, Chair; Supervisor Matthew McCarry, Vice Chair; Supervisor William R. Shoemaker

Absent: None.

Township Representatives Present:

Township Manager Shanna Lodge, Secretary; Max O'Keefe, Solicitor; Jeffrey Heim, Chief of Police; Stephen Jones, Lieutenant; Bill Hagan, Jr., Director of Public Works; Susan D'Amore, Office Administrator

A. CALL TO ORDER

Supervisor Perrin called the meeting to order at 7:01 p.m.

B. PLEDGE OF ALLEGIANCE

Supervisor Perrin led the Pledge of Allegiance.

C. ANNOUNCEMENTS

1. Supervisor Perrin announced that the Board of Supervisors met in Executive Session on February 3, February 6 and February 9 regarding real estate and legal matters.
2. Supervisor Perrin announced that the Board of Supervisors will hold a public hearing at 7:00 PM on February 12, 2026, at General Wayne Elementary School to consider the approval of the expenditure of Township Open Space Funds on the acquisition of that property located at 185 Grubb Road, Malvern.
3. Supervisor Perrin announced that the Township Office will be closed on Monday, February 16 in honor of Presidents' Day.

D. REGULAR BUSINESS ITEMS

1. Minutes

MOTION: To approve the minutes for the meeting of January 29, 2026.
(Shoemaker/McCarry)

COMMENTS: None.

ACTION: Passed, 3-0.

2. Expenditures

MOTION: To approve the list of expenditures dated February 6, 2026.
(Shoemaker/McCarry)

COMMENTS:

Mike Kerr, Stonehenge. Mr. Kerr asked if BlueScope submits prevailing wage records with their invoices. Manager Lodge answered yes.

ACTION: Passed, 3-0.

3. Police Report

Chief Heim thanked the Township Public Works road crew for doing an excellent job responding to the winter weather. Chief Heim reminded everyone to be safe and mindful of their speed and distance from other cars, especially due to the recent snow. He reported that there are ongoing email and phone fraud cases and encouraged residents to report suspicious activity. Chief Heim stated that, in December, there were 29 crashes of which 8 were deer related. In January, there were 18 crashes of which 2 were deer related. The Chief informed those in attendance that the annual presentation of Police Awards will take place during the Board meeting on March 23 at General Wayne Elementary.

Kevin Rice, Colonial Way. Mr. Rice asked what time the awards meeting would take place. Chief Heim responded that the meeting would take place at 7 PM.

4. Sewer Update

Supervisor Perrin thanked Director Hagan for leading the winter weather response. Director Hagan replied that he needs to share the accolades with his team for all their hard work.

Director Hagan provided a report of the Willistown VFSA Televising that was cumulative from 2024, 2025 & 2026. He explained that most pipes were cleaned during the televising.

SEWER TELEVISIONING SUMMARY

Sewer footage covered	Condition of pipe	Notes
19,000	Good	Mostly PVC
50,000	Fair	Material concrete asbestos pipe or terracotta older and more susceptible to failure.
20,000	Root Affected	Some repaired in 2024 Remaining will be scheduled for treatment

16,000	Structural Issues	Includes hairline cracks up to emergent conditions
6,500	Multiple Issues	Includes roots affected, infiltration etc.
3,500	Emergent Issues	Currently PW is working on. Eisenhower is included in this.

Director Hagan continued that he is confident this is accurate and clear data. The sewer crew are prioritizing projects based on this data and are preparing to incorporate this into the routine work plan. He expressed appreciation for the support from the Board, management and the residents for allowing this crucial sewer work to be complete.

Supervisor Perrin appreciated the report and the depth of the knowledge learned.

COMMENTS:

Joe Heenan, no address stated. Mr. Heenan thanked Director Hagan for the terrific, professional report.

Mike Kerr, Stonehenge. Mr. Kerr asked if there the manholes were analyzed during the televising. Director Hagan responded in the affirmative; manholes were inspected.

Kevin Rice, Colonial Way. Mr. Rice asked for an explanation about the concrete asbestos piping. Director Hagan explained that these pipes in low pressure sewer areas are affected by the gases from the low-pressure grinder pump systems.

5. Advertisements

- a. MOTION: To approve authorization to advertise for bid the 2026 Resurfacing Contract for Willistown Township (Shoemaker/McCarry)

COMMENTS: None.

ACTION: Passed, 3-0.

6. Resolutions

- a. MOTION: To approve Resolution 8 of 2026 – Disposition of Municipal Records (Shoemaker/McCarry)

COMMENTS:

Manager Lodge stated that this Resolution allows Municipal Records to be shredded in accordance with the State Records Retention Manual.

Mike Kerr, Stonehenge. Mr. Kerr asked if the records were scanned prior to being shredded. Manager Lodge said that the records are not scanned. Supervisor Perrin added that these are records that the Township is no longer required to keep.

Louis Pettinos, no address stated; Mr. Pettinos asked what kind of records are included. Supervisor Shoemaker and Manager Lodge stated the types of records as listed Exhibit A of Resolution 8.

ACTION: Passed, 3-0.

7. Building & Planning

- a. Conditional Use Hearing C-02-25 – Mainline Views Benefit LLC/Willistown Senior Apartments - Application to permit an age restricted apartment development within the Industrial Zoning District, and to encroach steep slopes to install stormwater management facilities. Solicitor O’Keefe opened a Public Hearing regarding Conditional Use Application C-02-25 – Mainline Views Benefit LLC/Willistown Senior Apartments. Solicitor O’Keefe stated that this hearing was held in compliance with the requirements in the Municipalities Planning Code for the exclusive purpose of continuing the hearing on Thursday, February 26 at 7 pm. at the Township Building. Solicitor O’Keefe stated that this continued hearing will not be publicly re-advertised; however, it will be posted on the Township’s website. A court reporter was present at the hearing, and a transcript is on file at the Township office.
- b. Subdivision & Land Development – L-01-25 – Mainline Views Benefit LLC/Willistown Senior Apartments. Solicitor O’Keefe stated that the applicant has granted an extension to the Township and this will be tabled to a future date.

E. OLD BUSINESS

None

F. DISCUSSION/ACTION ITEMS

1. MOTION: To approve the purchase of ABI Force Z23SLT aerator and seeder attachments for \$8,397.00 (Shoemaker/McCarry)

COMMENTS:

None.

ACTION: Passed, 3-0.

2. MOTION: To approve Sewer Televising Change Order No. 2 for Sewer Televising in the decreased amount of -\$5,343.23 (Shoemaker/McCarry)

COMMENTS:

None.

ACTION: Passed, 3-0.

3. MOTION: To Provide Notice of Contemplated Condemnation of a Portion of 209 Spring Road Under the Agricultural Area Security Law (Shoemaker/McCarry)

COMMENTS:

Mike Kerr, Stonehenge. Mr. Kerr asked for an explanation on this topic. Supervisor Perrin stated that they cannot comment due to ongoing litigation over this matter. However, she noted that emergency vehicles are not able have proper access due to the failed culvert on Spring Road, and this is the next step to ensure the ongoing safety of Willistown residents.

Unknown commenter, no name or address stated. Commentor asked if this means that Spring Road will be reopened. Supervisor Perrin stated that at some point it will be reopened.

ACTION: Passed, 3-0.

4. MOTION: To accept recommendation from the Police Pension Advisory Board to Lower the Discount Rate for the Police Pension Plan from 6.00% to 5.75% (Shoemaker/McCarry)

COMMENTS:

None.

ACTION: Passed, 3-0.

5. MOTION: To accept recommendation from the Police Pension Advisory Board to Lower the Discount Rate for the OPEB Plan from 6.00% to 5.75% (Shoemaker/McCarry)

COMMENTS:

None.

ACTION: Passed, 3-0.

1. PUBLIC COMMENT

Paul Donald Forbes, Long Lane. Mr. Forbes thanked the Board for this opportunity to present an observation and recommendation in respect to Willistown walkability and safety. Mr. Forbes explained a hazard faced by pedestrians, bike riders and children due to hampered visibility on the walking path on School Lane between Long Lane and Havey Lane. He recommended that the Board consider adding a speed bump. Supervisor Shoemaker stated that this may partially be on Township right-of-way, and he will ask the Police Traffic department for input.

Frank Martinsky, Line Road. Mr. Martinsky requested that the Township perform a compliance review of the franchise fees. He stated that the Township ordinance allows this audit and he offered his assistance.

Joe Heenan, no address stated. Mr. Heenan asked if there was a date scheduled for the first draft of the Circulation Study. Manager Lodge stated that there is no date scheduled for the draft. The public meetings will begin in the spring and will be announced on the website.

Glenn Johnson, Sheperd Road. Mr. Johnson stated that he supports the walkability efforts presented from other residents. He noted the areas of Warren Avenue to Paoli Pike and that the Sugartown Preserve was difficult to access. Manager Lodge encouraged Mr. Johnson and those in attendance to come to the Circulation Study public meetings. Supervisor Shoemaker noted that area of Warren Avenue to Paoli Pike is in Malvern Borough; however, he noted that the Borough is also looking at similar walkable methods.

Pam Schafer, no address stated; Zoom participant. Ms. Schafer asked how much cash is available to the Township in reference to the purchase of property to be addressed at the hearing on 2/12. Ms. Shafer also asked when the Township will issue financial statements on a committed basis. Supervisor Perrin stated that as of 2/2, there is \$4.1 M in the Open Space Fund.

Fred Haack, no address stated; Zoom participant. Mr. Haack stated that he is glad of the Township support to the CRC Watersheds organization. He informed those in attendance of the organization's website, crcwatersheds.org, and urged all to sign up for CRC emails. Manager Lodge added that the Streams Cleanup event will be held on 3/21.

Kevin Rice, Colonial Way. Mr. Rice asked if the Circulation Study Update meetings will be advertised. Manager Lodge stated that the meetings will be advertised as the Circulation Study and the dates should be in the next Town Crier publication in addition to the Township website. She added that email signup category has been created and is on the website.

Lewis Pettinos, no address stated. Mr. Pettinos thanked Director Hagan and the Public Works crew for all their work during the snow, sleet and extreme cold.

2. ADJOURNMENT

Seeing no further business, the meeting adjourned at 7:36 pm.

Special Hearing Meeting: February 12, 2026, at the General Wayne Elementary School

Next Regular Meeting: February 23, 2026, at the Willistown Township Administration Building, 688 Sugartown Road, Malvern, 7:00 p.m.

Respectfully submitted,

Shanna Lodge
Township Secretary



WILLISTOWN TOWNSHIP

Willistown Board of Supervisors Meeting

February 12, 2026

7:00 PM

Minutes

LOCATION: General Wayne Elementary School, 20 Devon Road, Malvern

Members Present:

Supervisor Molly H.B. Perrin, Chair; Supervisor Matthew McCarry, Vice Chair; Supervisor William R. Shoemaker

Absent: None.

Township Representatives Present:

Township Manager Shanna Lodge, Secretary; Max O'Keefe, Solicitor; John Gaadt, Township Planner

A. CALL TO ORDER

Supervisor Perrin called the meeting to order at 7:02 p.m.

B. DISCUSSION/ACTION ITEMS

1. A Public Hearing was held to consider the approval of the expenditure of Township Open Space Funds on the acquisition of that property located at 185 Grubb Road, Malvern. Supervisor Perrin provided an introductory statement, and Solicitor O'Keefe introduced Board exhibits. Supervisor Shoemaker provided a summary of Open Space Review Board reports regarding the subject property. Public comment was received.

A court reporter was present and a transcript of the hearing is on file in the Township office.

MOTION: To approve the expenditure of up to \$4,000,000 of Township Open Space Funds on the acquisition of the property located at 185 Grubb Road. (Shoemaker/McCarry)

ACTION: Passed, 3-0

C. ADJOURNMENT

There being no further business before the Board, the meeting was adjourned.

Respectfully submitted,

Shanna Lodge
Township Secretary

Willistown Township
List of Expenditures
February 20, 2026

<u>Fund</u>	<u>Expenditures (A/P & Wires)</u>
General Fund	\$277,821.67
Open Space Fund	-
Penns Preserve Sewer Fund	\$6,630.07
Valley Forge Sewer Fund	\$255,256.51
Valley Forge Sewer Fund - Capital	\$10,850.00
Agency Escrow Fund	-
Low Pressure Sewer Fund	-
Bartram Bridge Fund	\$145.00
Capital Reserve Fund	\$7,785.06
Storm Water Infrastructure Fund	-
Operating Reserve Fund	-
State Liquid Fuels Fund	\$28,673.80
Payroll Fund	\$27,287.83
Municipal Pension Fund	-
Municipal Life Insurance Fund	-
Police Pension Fund	-
Police Hospitalization Fund	-
Total	\$614,449.94

Bank Transfers to/from Pension Funds

Approved:

Molly H.B. Perrin

Matthew McCarry

William R. Shoemaker

Report Criteria:
 Report type: GL detail

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice GL Period	Invoice Amount
BARTRAM BRIDGE PRESERVATION							
02/26	02/18/2026	12370	1895	FIDELITY BURGLAR & FIRE ALARM	364182	226	145.00
Total BARTRAM BRIDGE PRESERVATION:							145.00
CAPITAL PROJECTS - SEWER							
02/26	02/18/2026	12376	132932	HORGAN TREE EXPERTS	13558	226	10,850.00
Total CAPITAL PROJECTS - SEWER:							10,850.00
CAPITAL RESERVE ACCOUNT							
02/26	02/18/2026	12381	132898	KAUFFMAN GAS INC	26081	226	1,785.06
02/26	02/18/2026	12382	133120	KEYSTONE ENGINEERING GROUP IN	2600247	226	6,000.00
Total CAPITAL RESERVE ACCOUNT:							7,785.06
GENERAL FUND							
02/26	02/11/2026	12333	174	PAOLI FORD	61644666	226	103.75- V
02/26	02/18/2026	12350	16	21ST CENTURY MEDIA-PHILLY CLUST	2785673	226	946.78
02/26	02/18/2026	12350	16	21ST CENTURY MEDIA-PHILLY CLUST	2789095	226	268.21
02/26	02/18/2026	12350	16	21ST CENTURY MEDIA-PHILLY CLUST	2789191	226	85.34
02/26	02/18/2026	12350	16	21ST CENTURY MEDIA-PHILLY CLUST	2791834	226	93.69
02/26	02/18/2026	12351	130396	ACES CLEANING SERVICE	01302026	226	1,787.50
02/26	02/18/2026	12351	130396	ACES CLEANING SERVICE	01302026	226	400.00
02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	327.80
02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	1,358.91
02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	423.72
02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	86.19
02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	86.19
02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	629.19
02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	120.67
02/26	02/18/2026	12353	10	AQUA PA	233054522601	226	25.75
02/26	02/18/2026	12353	10	AQUA PA	242134042601	226	125.66
02/26	02/18/2026	12355	130877	ASCENSUS TRUST	PI-03665332	226	1,227.50
02/26	02/18/2026	12356	133121	AT BUCKS COUNTY LLC	X311044483.01	226	55.47
02/26	02/18/2026	12357	131903	AT&T MOBILITY	287286167456X02082026	226	554.93
02/26	02/18/2026	12358	131903	AT&T MOBILITY	287289482596X02082026	226	214.95
02/26	02/18/2026	12359	132363	BARRY STRUBE III	021226	226	50.54
02/26	02/18/2026	12360	126586	CHESTER COUNTY TREASURER	20260151260	226	527.98
02/26	02/18/2026	12360	126586	CHESTER COUNTY TREASURER	20260151262	226	453.44
02/26	02/18/2026	12361	1844	CODY COMPUTER SERVICES INC	14271	226	6,977.66
02/26	02/18/2026	12362	2031	COMCAST CABLE	012226	226	162.76
02/26	02/18/2026	12363	2031	COMCAST CABLE	012826	226	329.85
02/26	02/18/2026	12364	132998	COMPLETE DOCUMENT SOLUTIONS	IN913195	226	590.00
02/26	02/18/2026	12365	453	EAGLE POWER AND EQUIPMENT CO	P30197	226	90.66
02/26	02/18/2026	12367	1722	ELEANOR J. SCHWANDT RMR	021226	226	200.00
02/26	02/18/2026	12368	132472	ELITE GLASS TINTING LLC	19399	226	390.00
02/26	02/18/2026	12369	132514	FBINAA EASTERN PA CHAPTER	021726	226	100.00
02/26	02/18/2026	12371	155	GALLS LLC	033653868	226	160.24
02/26	02/18/2026	12371	155	GALLS LLC	033796605	226	136.49
02/26	02/18/2026	12372	120	GAWTHROP GREENWOOD PC	222087223	226	738.00
02/26	02/18/2026	12372	120	GAWTHROP GREENWOOD PC	222087224	226	82.00
02/26	02/18/2026	12372	120	GAWTHROP GREENWOOD PC	222087225	226	994.00

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice GL Period	Invoice Amount
02/26	02/18/2026	12372	120	GAWTHROP GREENWOOD PC	222087226	226	2,813.50
02/26	02/18/2026	12372	120	GAWTHROP GREENWOOD PC	222087229	226	248.00
02/26	02/18/2026	12372	120	GAWTHROP GREENWOOD PC	222087230	226	820.00
02/26	02/18/2026	12372	120	GAWTHROP GREENWOOD PC	222087231	226	779.00
02/26	02/18/2026	12372	120	GAWTHROP GREENWOOD PC	222087232	226	464.50
02/26	02/18/2026	12372	120	GAWTHROP GREENWOOD PC	222087233	226	690.00
02/26	02/18/2026	12373	23	GOSHEN FIRE CO.	2026Q1	226	25,517.57
02/26	02/18/2026	12374	672	GREAT VALLEY LOCKSHOP INC.	0020260456	226	6.00
02/26	02/18/2026	12375	68	H A WEIGAND INC	127024	226	842.00
02/26	02/18/2026	12376	132932	HORGAN TREE EXPERTS	13562	226	675.00
02/26	02/18/2026	12377	258	ID CHECKING	856446	226	193.00
02/26	02/18/2026	12378	1929	INTERCON TRUCK EQUIPMENT INC.	1118915-IN	226	1,809.48
02/26	02/18/2026	12378	1929	INTERCON TRUCK EQUIPMENT INC	1119035-IN	226	566.00
02/26	02/18/2026	12379	2132	J C EHRlich	656678C	226	90.33
02/26	02/18/2026	12379	2132	J C EHRlich	656678C	226	125.00
02/26	02/18/2026	12380	131704	JOHNSON CONTROLS	1-137075450370	226	2,245.50
02/26	02/18/2026	12380	131704	JOHNSON CONTROLS	1-137076442559	226	1,254.50
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	390206	226	1,063.75
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	390365	226	1,451.25
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	390369	226	752.50
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	390373	226	1,236.25
02/26	02/18/2026	12384	133138	LANDSTUDIES	9000141208	226	1,973.90
02/26	02/18/2026	12385	132825	LEXIPOL LLC	INVLEX11262485	226	13,473.24
02/26	02/18/2026	12386	131826	MAIN LINE HEALTH OCCUPATIONAL	203781	226	125.00
02/26	02/18/2026	12387	178	MAIN LINE MOWER	10818	226	1,001.06
02/26	02/18/2026	12387	178	MAIN LINE MOWER	10861	226	91.48
02/26	02/18/2026	12388	29	MALVERN FIRE CO.	2026Q1	226	67,550.64
02/26	02/18/2026	12389	391	MALVERN PUBLIC LIBRARY	2026Q1	226	14,289.75
02/26	02/18/2026	12390	132502	MOTOROLA SOLUTIONS INC	1411228763	226	11.53
02/26	02/18/2026	12391	34	NEWTOWN SQ. FIRE CO.	2026Q1	226	9,669.89
02/26	02/18/2026	12393	2007	PA RECREATION & PARK SOCIETY	6653	226	140.00
02/26	02/18/2026	12394	37	PAOLI FIRE CO.	2026Q1	226	49,061.90
02/26	02/18/2026	12395	174	PAOLI FORD	6164466	226	103.75
02/26	02/18/2026	12396	392	PAOLI PUBLIC LIBRARY	2026Q1	226	14,289.75
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2157263	226	166.71
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2157263	226	166.71
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2158392	226	561.40
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2158392	226	327.61
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2158392	226	19.97
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2158392	226	33.06
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2158392	226	417.73
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2160731	226	475.59
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2160734	226	785.96
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2160734	226	458.85
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2160734	226	27.96
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2160734	226	46.29
02/26	02/18/2026	12398	127237	PUPPETS PIZZAZZ	020926	226	250.00
02/26	02/18/2026	12399	133212	SIRCHIE ACQUISITION COMPANY LLC	0730064-IN	226	495.00
02/26	02/18/2026	12400	127782	SLEEPY HOLLOW FARM INC.	020926	226	2,160.00
02/26	02/18/2026	12401	126175	THOMAS G KEYES INC	13259	226	320.50
02/26	02/18/2026	12402	132761	THOMSON REUTERS	23278456	226	2,581.32
02/26	02/18/2026	12405	132131	VERIZON	01312026	226	170.44
02/26	02/18/2026	12407	126874	VERIZON COMMUNICATIONS	012426	226	189.00
02/26	02/18/2026	12408	110299	VERIZON WIRELESS	842595473-0001	226	91.45
02/26	02/18/2026	12410	125331	WEEDS INC.	0065171	226	4,950.00
02/26	02/18/2026	12411	129401	WIGGINS SHREDDING INC	125382	226	116.07

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice GL Period	Invoice Amount
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	251212	226	1,063.00
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260049	226	441.06
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260050	226	1,158.00
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260051	226	1,665.57
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260053	226	386.00
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260054	226	241.25
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260055	226	386.00
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260056	226	627.25
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260059	226	184.00
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260060	226	248.07
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260061	226	482.50
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260062	226	482.50
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260064	226	2,594.63
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260065	226	1,034.75
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260066	226	608.00
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260067	226	361.88
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260068	226	965.00
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260070	226	193.00
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260071	226	193.00
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260072	226	410.13
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260073	226	619.75
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260074	226	674.44
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260075	226	141.75
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260076	226	426.31
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260079	226	1,775.07
02/26	02/18/2026	20260224	125629	NATIONWIDE FINANCIAL	202603	226	1,397.74 M
02/26	02/18/2026	20260224	125629	NATIONWIDE FINANCIAL	202603	226	317.44 M
02/26	02/18/2026	20260224	125629	NATIONWIDE FINANCIAL	202603	226	522.13 M
02/26	02/18/2026	20260224	125629	NATIONWIDE FINANCIAL	202603	226	415.02 M
02/26	02/18/2026	20260224	125629	NATIONWIDE FINANCIAL	202603	226	325.00 M
02/26	02/18/2026	20260224	125629	NATIONWIDE FINANCIAL	202603	226	2,373.64 M
02/26	02/18/2026	20260225	131917	BENEFIT DESIGN SPECIALISTS	021226	226	61.93 M
02/26	02/18/2026	20260226	131897	PITNEY BOWES BANK INC PURCHAS	021526	226	21.00 M
02/26	02/18/2026	20260228	1157	PECO	0171168602602	226	1,338.33 M
02/26	02/18/2026	20260231	1157	PECO	1191685842602	226	40.13 M
02/26	02/18/2026	20260232	1157	PECO	1209966352602	226	64.44 M
02/26	02/18/2026	20260235	1157	PECO	1278174372602	226	1,172.74 M
02/26	02/18/2026	20260236	1157	PECO	1278874262602	226	753.30 M
02/26	02/18/2026	20260238	1157	PECO	1638006292602	226	611.13 M
02/26	02/18/2026	20260239	1157	PECO	6407641052602	226	62.21 M
02/26	02/18/2026	20260240	1157	PECO	60430152072602	226	47.82 M

Total GENERAL FUND: 277,821.67

PAYROLL FUND

02/26	02/18/2026	1239	129073	CITADEL FEDERAL CREDIT UNION	202602	226	510.00
02/26	02/18/2026	1240	129073	CITADEL FEDERAL CREDIT UNION	202603	226	510.00
02/26	02/18/2026	20260221	130877	ASCENSUS TRUST	202603	226	19,026.76 M
02/26	02/18/2026	20260221	130877	ASCENSUS TRUST	202603	226	1,525.59 M
02/26	02/18/2026	20260222	125627	AXA EQUITABLE LIFE	202603	226	204.95 M
02/26	02/18/2026	20260223	133041	PNC INSTITUTIONAL ASSET MANAGE	202603	226	5,510.53 M

Total PAYROLL FUND: 27,287.83

PENNS PRESERVE SEWER REVENUE

02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	1.29
-------	------------	-------	--------	-----------------------	--------	-----	------

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice GL Period	Invoice Amount
02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	12.29
02/26	02/18/2026	12353	10	AQUA PA	191283572601	226	22.72
02/26	02/18/2026	12353	10	AQUA PA	566283242601	226	22.72
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2158392	226	9.32
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2160731	226	10.61
02/26	02/18/2026	12406	132131	VERIZON	013126	226	103.96
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260057	226	323.75
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260058	226	1,400.00
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260077	226	330.07
02/26	02/18/2026	12412	46	YERKES ASSOCIATES INC	260078	226	4,316.88
02/26	02/18/2026	20260224	125629	NATIONWIDE FINANCIAL	202603	226	6.91 M
02/26	02/18/2026	20260224	125629	NATIONWIDE FINANCIAL	202603	226	69.55 M
Total PENNS PRESERVE SEWER REVENUE:							6,630.07

STATE LIQUID FUELS ACCOUNT

02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7134819	226	1,610.58
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7138035	226	1,557.20
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7138036	226	1,601.33
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7138037	226	1,526.60
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7138038	226	1,643.32
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7138039	226	1,588.51
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7140612	226	1,499.55
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7140613	226	1,533.71
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7140614	226	1,539.41
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7140615	226	1,507.38
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7140616	226	1,530.87
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7140617	226	1,486.74
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7141681	226	1,721.60
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7141682	226	1,575.70
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7141683	226	1,663.95
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7141684	226	1,582.11
02/26	02/18/2026	2158	127498	CHEMICAL EQUIPMENT LABS	7141758	226	224.40
02/26	02/18/2026	2159	1157	PECO ENERGY	24156990002602	226	834.42
02/26	02/18/2026	2159	1157	PECO ENERGY	61579722222602	226	2,446.42
Total STATE LIQUID FUELS ACCOUNT:							28,673.80

VALLEY FORGE SEWER FUND

02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	14.22
02/26	02/18/2026	12352	125172	ALLIED ADMINISTRATORS	202603	226	134.23
02/26	02/18/2026	12353	10	AQUA PA	183171332601	226	22.72
02/26	02/18/2026	12353	10	AQUA PA	183172672601	226	22.72
02/26	02/18/2026	12353	10	AQUA PA	243013322601	226	67.19
02/26	02/18/2026	12354	132034	AQUA PA WW	2025-07	226	64,274.88
02/26	02/18/2026	12366	132503	EASTTOWN TOWNSHIP SEWER RENT	100124Q4-2025	226	305.91
02/26	02/18/2026	12366	132503	EASTTOWN TOWNSHIP SEWER RENT	100125Q4-2025	226	309.67
02/26	02/18/2026	12366	132503	EASTTOWN TOWNSHIP SEWER RENT	100126Q4-2025	226	306.00
02/26	02/18/2026	12366	132503	EASTTOWN TOWNSHIP SEWER RENT	100127Q4-2025	226	307.93
02/26	02/18/2026	12366	132503	EASTTOWN TOWNSHIP SEWER RENT	100128Q4-2025	226	307.93
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	389815	226	45.00
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	389816	226	280.00
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	389817	226	280.00
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	389818	226	280.00
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	389819	226	280.00
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	389820	226	280.00

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice GL Period	Invoice Amount
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	390360	226	33.75
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	390362	226	235.00
02/26	02/18/2026	12383	522	LAMB MCERLANE PC	390432	226	235.00
02/26	02/18/2026	12392	499	PA ONE CALL SYSTEM INC	1137713	226	94.60
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2158392	226	101.73
02/26	02/18/2026	12397	126565	PETROLEUM TRADERS CORP	2160731	226	115.82
02/26	02/18/2026	12403	8	VERIZON	012626	226	99.80
02/26	02/18/2026	12404	132131	VERIZON	122225	226	175.52
02/26	02/18/2026	12409	133175	VORTEX SERVICES LLC	319922	226	81,143.91
02/26	02/18/2026	12409	133175	VORTEX SERVICES LLC	319956	226	95,928.18
02/26	02/18/2026	20260224	125629	NATIONWIDE FINANCIAL	202603	226	759.07 M
02/26	02/18/2026	20260224	125629	NATIONWIDE FINANCIAL	202603	226	75.38 M
02/26	02/18/2026	20260227	1157	PECO	0169979792602	226	6,151.70 M
02/26	02/18/2026	20260229	1157	PECO	0183156712602	226	141.56 M
02/26	02/18/2026	20260230	1157	PECO	0365718792602	226	831.63 M
02/26	02/18/2026	20260233	1157	PECO	1248115082602	226	705.01 M
02/26	02/18/2026	20260234	1157	PECO	1248115702602	226	794.42 M
02/26	02/18/2026	20260237	1157	PECO	1278800422602	226	50.44 M
02/26	02/18/2026	20260241	1157	PECO	1301829622602	226	65.59 M

Total VALLEY FORGE SEWER FUND: 255,256.51

Grand Totals: 614,449.94

Date: _____

Treasurer: _____

Report Criteria:
 Report type: GL detail

**THE BOARD OF SUPERVISORS
WILLISTOWN TOWNSHIP,
CHESTER COUNTY, PENNSYLVANIA**

RESOLUTION NO. 9 OF 2026

**A RESOLUTION FOR MINOR ACT 537 UPDATE PLAN REVISION
SPECIAL STUDY FOR THE DECOMMISSIONING OF THE DEERFIELD
KNOLL WASTEWATER TREATMENT PLANT**

WHEREAS, Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act," as amended, and the Rules and Regulations of the Department of Environmental Protection (DEP) adopted there under, Chapter 71 of Title 25 of the Pennsylvania Code, requires the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to meet the sewage disposal needs of the municipality, and

WHEREAS, the Township's current Act 537 Plan addresses sewage facilities planning for the south western portion of the Township in an area entitled the Chesterdale Service Area, and;

WHEREAS, the Deerfield Knoll Residential Community, consisting of 125 single-family residential dwelling units, is located within the Chesterdale Service Area, and whose associated sewage flows are currently being treated by the Deerfield Knoll Wastewater Treatment Plant, which is owned and operated by Aqua Pennsylvania Wastewater Inc., and;

WHEREAS, Pennoni Associates Inc., at the request of Aqua Pennsylvania Wastewater Inc., has prepared an Act 537 Special Study for the Decommissioning of the Deerfield Knoll Wastewater Treatment Plant, which provides a sewage disposal alternative for the decommissioning of the existing treatment plant, and for the connection of these associated sewage flows to a separate treatment plant, known as the Willistown Woods Wastewater Treatment Plant, which is also owned and operated by Aqua Pennsylvania Wastewater Inc., and;

WHEREAS, the Act 537 Special Study for the Decommissioning of the Deerfield Knoll Wastewater Treatment Plant has demonstrated that there exists adequate capacity for the connection of these 125 single-family residential dwelling units at the Willistown Woods Wastewater Treatment Plant, which will create an additional estimated 9,700 gallons per day (GPD), and;

WHEREAS, the decommissioned Deerfield Knoll Wastewater Treatment Plant will be converted into the Deerfield Knoll Sewer Pumping Station which will convey these sewer flows to the Willistown Woods Wastewater Treatment Plant, and;

WHEREAS, Aqua Pennsylvania Wastewater Inc. will be enacting this alternative including planning approval, permit approval, and related construction activities to be consistent with the project implementation schedule outlined in this Special Study, and;

WHEREAS, the Township finds that the Act 537 Special Study for the Decommissioning of the Deerfield Knoll Wastewater Treatment Plant conforms to the applicable sewage related zoning, subdivision, and other municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the Board of Supervisors of Willistown Township, Chester County, Pennsylvania, hereby adopts and submits to DEP for its approval as a revision to the "Official Plan" of the municipality, the above referenced Act 537 Special Study. The municipality hereby assures DEP of the complete and timely implementation of the said plan as required by law (Section 5, Pennsylvania Sewage Facilities Act, as amended).

RESOLVED AND ADOPTED THIS 23rd DAY OF FEBRUARY 2026.

**BOARD OF SUPERVISORS
WILLISTOWN TOWNSHIP**

Molly H.B. Perrin, Chair

ATTEST

Matthew V. McCarry, Vice Chair

Shanna Lodge, Secretary

William R. Shoemaker, Member

Township of Willistown
Chester County, PA

PA Department of Environmental Protection
Special Study

Decommissioning of Deerfield Knoll
Wastewater Treatment Plant

September 2025
Revised February 19, 2026

Prepared For:

Aqua Pennsylvania Wastewater, Inc.

762 W. Lancaster Ave
Bryn Mawr, PA 19010



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

www.pennoni.com

Table of Contents

1.0 TRANSMITTAL LETTER

2.0 COMPONENT 3M MODULE

SECTION F - PROJECT NARRATIVE

SECTION I - PROPOSED WASTEWATER FACILITIES

PENNSYLVANIA NATURAL DIVERSITY INDEX (PNDI) CONSISTENCY

COMPREHENSIVE PLAN CONSISTENCY

COOPERATION WITH PA HISTORICAL AND MUSEUM COMMISSION (PHMC)

SECTION J- ALTERNATIVE ANALYSIS

SECTION L - INSTITUTIONAL EVALUATION

SECTION M - PROJECT COST AND FUNDING ANALYSIS

SECTION N - PROJECT IMPLEMENTATION SCHEDULE

SECTION O - PUBLIC NOTIFICATION

SECTION Q - CORRESPONDENCE

SECTION R - RESOLUTION OF ADOPTION

3.0 SEWAGE TREATMENT FACILITY CLOSING PLAN

1.0 TRANSMITTAL LETTER



**TRANSMITTAL LETTER
FOR SEWAGE FACILITIES PLANNING MODULE**

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

TO: Approving Agency (DEP or delegated local agency)
 Pennsylvania DEP
 2 East Main Street
 Norristown, PA 19401

Date February 19, 2026

Dear Sir/Madam:

Attached please find a completed sewage facilities planning module prepared by Pennoni Associates Inc.
Robert M. Campbell, Sr. Engineer for Aqua Pennsylvania Wastewater
(Title) (Name)
 a subdivision, commercial ,or industrial facility located in Willistown Township
(City, Borough, Township) Chester County.

Check one

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

OR

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

Check Boxes

- Additional studies are being performed by or on behalf of this municipality which may have an effect on the planning module as prepared and submitted by the applicant. Attached hereto is the scope of services to be performed and the time schedule for completion of said studies.
- The planning module as submitted by the applicant fails to meet limitations imposed by other laws or ordinances, officially adopted comprehensive plans and/or environmental plans (e.g., zoning, land use, 25 Pa. Code Chapter 71). Specific reference or applicable segments of such laws or plans are attached hereto.
- Other (attach additional sheet giving specifics).

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

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Resolution of Adoption | <input checked="" type="checkbox"/> 3 Sewage Collection/Treatment Facilities | <input checked="" type="checkbox"/> 4A Municipal Planning Agency Review |
| <input type="checkbox"/> Module Completeness Checklist | <input type="checkbox"/> 3s Small Flow Treatment Facilities | <input checked="" type="checkbox"/> 4B County Planning Agency Review |
| <input type="checkbox"/> 2 Individual and Community Onlot Disposal of Sewage | | <input checked="" type="checkbox"/> 4C County or Joint Health Department Review |

Municipal Secretary (print)

Signature

Date

2.0 COMPONENT 3M MODULE



SEWAGE FACILITIES PLANNING MODULE FOR MINOR ACT 537 UPDATE REVISION

Code No.

Component 3m. Municipal or Authority Sponsored Minor Sewage Collection Project

(Return completed module package to appropriate municipality)

DEP USE ONLY				
DEP CODE #	CLIENT ID #	SITE ID #	APS ID #	AUTH ID #

This document provides a simplified planning format for municipalities and municipal authorities proposing the construction of a sewer extension primarily serving existing development. Typically, this format would be used for projects involving the extension of sewer service to no more than 100 equivalent dwelling units (EDUs) and where the majority of the project serves existing development. For projects where more than 50 percent of the proposed customers will result from new land development, a Component 3 Sewage Facilities Planning Module would typically be used. For larger projects or if the project would involve the construction or modification of a wastewater treatment facility, then a general Act 537 Update Revision, meeting all of the requirements of Title 25 Pennsylvania Code, Chapter 71 § 71.21, is appropriate.

DEP staff will make a final determination as to the appropriate type of planning for a given project based on the review of a plan of study. Eligibility for a grant to offset the cost of planning will be determined by DEP staff based upon review of a *Task/Activity Report* (3850-FM-BCW0005). The project sponsor submits both documents. **DO NOT** use this form without coordinating with your local DEP staff. Refer to the instructions.

This planning document, along with any other documents specified in the cover letter, must be completed and submitted to the municipality with jurisdiction over the project site for review and approval. All required documentation must be attached for the Sewage Facilities Planning Module to be complete. Refer to the instructions for help in completing this component.

A. PROJECT INFORMATION (See Section A of instructions)

1. Project Name

Deerfield Knoll Wastewater Treatment Plant Decommissioning

2. Brief Project Description

Abandonment of the existing WWTP and diversion to Willistown Woods WWTP.

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

Municipality Name	County	City	Boro	Twp
Willistown Township	Chester	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Municipality Contact - Last Name	First Name	MI	Suffix	Title
Lodge	Shanna			Township Manager
Additional Individual - Last Name	First Name	MI	Suffix	Title
O'Connor Zonning	Caroline			Interim Director of Planning and
Municipality Mailing Address Line 1	Mailing Address Line 2			
688 Sugartown Road				
Address Last Line - City		State	ZIP+4	
Malvern		PA	19355	
Phone + Ext.	FAX (optional)	Email (optional)		
610-647-5300		slodge@willistown.pa.us		

C. SITE INFORMATION (See Section C of instructions)

Site Name

Deerfield Knoll Wastewater Treatment Plant;

Site Location Line 1

Deerfield Knoll

Site Location Line 2

Site Location Last Line - City	State	ZIP+4	Latitude	Longitude
Willistown	PA	19380	39.965337	-75.495642

Detailed Written Directions to Site

Traveling West on West Chester Pike, north side of the roadway past the entrance to 6022 West Chester Pike.

Description of Site

Wastewater Treatment Plant with lift station, surge tank, treatment tank, and chlorination basin.

Site Contact - Last Name	First Name	MI	Suffix	Phone	Ext.
Carney	Sean				

Site Contact Title	Site Contact Firm (if none, leave blank)
Project Engineer	

FAX	Email
	scarney@aquaamerica.com

Mailing Address Line 1	Mailing Address Line 2
762 W. Lancaster Ave	

Mailing Address Last Line – City	State	ZIP+4
Bryn Mawr	PA	19010

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

Last Name	First Name	MI	Suffix
Campbell	Robert	M	

Title	Consulting Firm Name
Senior Engineer	Pennoni Associates Inc.

Mailing Address Line 1	Mailing Address Line 2
1900 Market Street	Suite 300

Address Last Line - City	State	ZIP+4	Country
Philadelphia	PA	19103	

Email	Phone	Ext.	FAX
rcampbell@pennoni.com	215-254-7747		

E. AVAILABILITY OF DRINKING WATER SUPPLY (See Section E of instructions)

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

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

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

Name of water company: Aqua - Pennsylvania, Inc. - No new connections proposed

F. PROJECT NARRATIVE (See Section F of instructions)

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

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

G. SEWAGE DISPOSAL NEEDS IDENTIFICATION (See Section G of instructions)

Conduct sanitary and water supply surveys per DEP's publication entitled *Sewage Disposal Needs Identification*. This is highly recommended for all projects. It is required if PENNVEST funding is to be sought for the project, or if required by DEP as indicated by the checked box opposite this item.

H. EXISTING WASTEWATER FACILITIES (See Section H of instructions)

1. COLLECTION SYSTEM

Provide requested information concerning the existing treatment facility.

- a. Name of existing collection system Aqua Pennsylvania: Deerfield Knoll & Proposed Discharge to Willistown Woods

Clean Streams Law Permit Number 1586408 T-3 & WQM 1583426 T-2

- b. Name of interceptor N/A

Clean Streams Law Permit Number _____

2. WASTEWATER TREATMENT FACILITY

Provide requested information concerning the existing treatment facility.

Name of existing facility Deerfield Knoll & Willistown Woods Wastewater Treatment Plant

NPDES Permit Number for existing facility 1586408 T-3 & WQM 1583426 T-2

I. PROPOSED WASTEWATER FACILITIES (See Section I of instructions)

1. Provide an estimate of the immediate and five year projected flow from the proposed sewer extension. Address the capacity for this flow in the existing conveyance and treatment facilities in terms of the most recent wasteload management annual report for these facilities.

2. PLOT PLAN

The following information is to be submitted on a plot plan or map of the proposed project that clearly reflects the relationship between the proposed facilities and the identified features.

- | | |
|--|--|
| a. Existing and proposed buildings. | h. Existing and proposed streets, roadways, access roads, etc. |
| b. Lot lines and lot sizes. | i. Any designated recreational or open space area |
| c. Adjacent lots. | j. Wetlands - from National Wetland Inventory Mapping and USGS Hydric Soils Mapping. |
| d. Existing and proposed sewerage facilities. | k. Flood plains or Floodprone area soils, floodways, watercourses, water bodies (from Federal Flood Insurance Mapping) |
| e. Show tap-in or sewer extension to the point of connection to existing collection system. | l. Prime Agricultural Land. |
| f. Existing and proposed water supplies and surface water (wells, springs, ponds, streams, etc.) | m. Any other facilities (pipelines, power lines, etc.) |
| g. Existing and proposed rights-of-way. | n. Orientation to north. |

I. PROPOSED WASTEWATER FACILITIES (continued)

3. WETLAND PROTECTION

YES NO

- a. Are there wetlands in the project area? If yes, indicate these areas 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 HQ or EV streams and address impacts of the permitting requirements of said encroachments on the project.

4. PRIMARY AGRICULTURAL LAND PROTECTION

- a. Will your project involve the disturbance of any prime agricultural lands? If "yes" indicate any alternatives to this disturbance that were considered and the reasons they were not deemed feasible. Identify any primary or secondary impacts of the project on the Commonwealth's prime agricultural lands. Evaluate alternatives to avoid or mitigate undesirable impacts. The selected sewage facilities plan must be consistent with local measures in place to protect prime agricultural lands.

5. STORMWATER MANAGEMENT IMPACTS:

- a. Will the project impact an area covered by a DEP approved County Stormwater Management Plan? If yes show that the proposed facilities are consistent with that plan.

6. PENNSYLVANIA NATURAL DIVERSITY INDEX (PNDI) CONSISTENCY:

Check one:

- The "Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt" resulting from my search of the PNDI database and all supporting documentation from jurisdictional agencies (when necessary) is/are attached.
- A *Manual Project Submission Form* was submitted to each jurisdictional agency and their responses are attached.
- A concurrent review has been requested. I realize that all supporting documentation from each jurisdictional agency must be submitted to the DEP before the end of the technical review due date or my planning module may be denied. Applicant or Consultant Initials RMC

7. COMPREHENSIVE PLAN CONSISTENCY:

- A narrative and mapping to show that the proposed project is consistent with any comprehensive plan developed under the Pennsylvania Municipalities Planning Code (Act 247) is attached. Document that the proposed project is consistent with land use and all other requirements stated in the comprehensive plan.

8. COOPERATION WITH PA. HISTORICAL AND MUSEUM COMMISSION (PHMC):

- Applicants shall coordinate with the State Historic and Preservation Office (SHPO) and the Pennsylvania Historic and Museum Commission (PHMC) using the PA-SHARE online consultation tool at <https://www.pa.gov/agencies/phmc/pa-share.html>. The planning submittal must include the response received by the applicant from PA-SHARE. Note that the Commission may require archeological surveys if federal funds, including PENNVEST, will be used in the project. If PENNVEST funds are to be used, DEP cannot recommend the project to PENNVEST for consideration until any required surveys have been done and the project has been "cleared" by the Commission.

9. ADDITIONAL REQUIREMENTS FOR PENNVEST PROJECTS:

- A copy of the additional information is attached. If PENNVEST funding is to be sought for the project, address these additional items in terms of any project impacts and measures to avoid or mitigate same.
- Cost Effectiveness
 - Air quality
 - Floodplains
 - Wild and scenic rivers
 - Coastal zone management
 - Socio-economic impacts
 - Water supplies
 - Other environmentally sensitive areas

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

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

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

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

- Projects that propose the use of existing municipal collection, conveyance or wastewater treatment facilities, or the construction of collection and conveyance facilities to be served by existing municipal wastewater treatment facilities must be consistent with the requirements of Chapter 94 of DEP's rules and regulations (relating to Municipal Wasteload Management). If more than one municipality or authority will be affected by the project, please obtain the information required in this section for each. Additional sheets may be attached for this purpose.

1. Project Flows 11000 gpd
2. Total Sewage Flows to Facilities
 - a. Enter average and peak sewage flows for each proposed or existing facility as designed or permitted.
 - b. Enter the present average and peak sewage flows for the critical sections of existing facilities.
 - c. Enter the average and peak sewage flows projected for 5 years through the critical sections of existing facilities which includes existing, proposed, or future projects.

To complete the table, refer to Section K of instructions.

	a. Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd)	
	Average	Peak	Average	Peak	Average	Peak
Collection	9700	11000	9700	11000	9700	11000
Conveyance						
Treatment	175000	210000	99500	110500	110500	122772

3. Collection and Conveyance Facilities

The questions below are to be answered by the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities. These questions should be answered in coordination with the latest Chapter 94 annual report and the above table.

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

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

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

c. Collection System

Name of Agency, Authority, Municipality Aqua Pennsylvania Wastewater, Inc.

Name of Responsible Agent Kyle Roberts

Agent Signature 

Date 2/19/2026

d. Conveyance System

Name of Agency, Authority, Municipality Aqua Pennsylvania Wastewater, Inc.

Name of Responsible Agent Kyle Roberts

Agent Signature 

Date 2/19/2026

K. CHAPTER 94 CONSISTENCY DETERMINATION (continued)

4. Treatment Facility

The questions below are to be answered by the facility permittee in coordination with the information in the table and the latest Chapter 94 report.

This project proposes the use of an existing wastewater treatment plant for the disposal of sewage. Will this action create a hydraulic or organic overload within 5 years at that facility? Yes No

a. If yes, this planning module for sewage facilities will not be reviewed by the municipality, delegated local agency and/or DEP until this inconsistency with Chapter 94 is resolved or unless there is an approved plan and schedule granting an allocation for this project. A letter granting allocations to this project under the plan and schedule must be attached to the planning module.

b. If no, the treatment facility permittee must sign below to indicate that this facility has adequate treatment capacity and is able to provide wastewater treatment services for the proposed development in accordance with Chapter 94 requirements and that this proposal will not impact this status

c. Name of Agency, Authority, Municipality Aqua Pennsylvania Wastewater, Inc.

Name of Responsible Agent Kyle Roberts

Agent Signature 

Date 2/19/2026

L. INSTITUTIONAL EVALUATION (See Section L of instructions)

An institutional evaluation is attached. Identify the entity which will design, obtain necessary permits, construct, own and operate the proposed facilities. If a low pressure vacuum or effluent sewer are proposed, discuss purchase, installation, operation and maintenance responsibilities for the individual pumping, valves, tanks, etc.

M. PROJECT COST AND FUNDING ANALYSIS (See Section M of instructions)

- A detailed cost estimate and present worth analysis for the project is attached. Provide a financing plan for the project, identifying the funding source(s) and identifying estimated tap fees and user rates. For projects proposing the use of PENNVEST funds, see Section I. 9. **ADDITIONAL REQUIREMENTS FOR PENNVEST PROJECTS.** Complete the following table:

Cost and Funding Information (Estimated)	(Financed by Aqua PA)
COST	
Construction cost	\$ 667,175.00
Administrative, legal, engineering cost	\$ 153,450.25
Total project cost	\$ 820,625.25
Annual O/M cost	\$
FUNDING	
Tap-in fees (\$ per EDU X no. EDUs)	\$ 0
Proceeds from primary funding source	\$
Proceeds from other funding sources	\$ 0
USER COSTS	
Initial user base	EDUs
Monthly debt service per EDU	\$ 0
Monthly O/M cost per EDU	\$ 0
Total estimated monthly user cost per EDU	\$ 0

N. PROJECT IMPLEMENTATION SCHEDULE (See Section N of instructions)

- A project implementation schedule showing milestone dates for submission of DEP permit applications, initiation and completion of construction and any other milestones significant to this particular project is attached to this component

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

- Attached is a copy of the public notice. All comments received as a result of the notice are attached.
- Municipal response to these comments is attached.
- No comments were received. A copy of the public notice is attached.

P. ADDITIONAL CHAPTER 71 PLANNING ELEMENTS (See Section P of instructions)

a. Additional planning elements are required by DEP.

- _____
- _____
- _____
- _____
- _____

Q. PLANNING AGENCY REVIEW (See Section Q of instructions)

- Local Planning Commission comments or Component 4a are attached.
- County, Area, Or Region Planning Commission comments or Component 4b are attached.
- County or Joint County Health Department comments (if appropriate) or Component 4c are attached.

R. RESOLUTION OF ADOPTION (See Section R of instructions)

- An original, signed, and sealed Resolution of Adoption is attached.

SECTION F.
PROJECT NARRATIVE

Project Narrative – Component 3M Section F

Aqua Pennsylvania Wastewater's Deerfield Knoll Wastewater Treatment Plant (WWTP) serves the Deerfield Knoll residential community in Willistown Township, Chester County, Pennsylvania. Properties tributary to the wastewater treatment plant are residential, there are no commercial or industrial users. Aqua wishes to consolidate wastewater treatment operations and remove the Deerfield Knoll WWTP from service. The Deerfield Knoll WWTP is to be decommissioned, and pumping system improvements shall be undertaken to redirect flow to the Willistown Woods WWTP for treatment and disposal.

To convey Deerfield Knoll's wastewater to the Willistown Woods WWTP, a new pumping station must be added to the Deerfield Knoll collection system. The proposed solution is to first convert the Deerfield Knoll WWTP into a temporary pump station and then following the decommissioning of the treatment plant, the existing Cohasset pump station will be upgraded, and the temporary pump station will be removed.

In the first phase of the project, the existing equalization basin at the Deerfield Knoll WWTP will be reconfigured into a pumping station which will pump flow to the Willistown Woods WWTP via a proposed force main installed in PA Route 3. Willistown Woods WWTP will provide ultimate treatment and disposal of wastewater flow from the Deerfield Knoll subdivision. During this time, the existing Cohasset Pump Station, which currently conveys all of the wastewater flow from the Deerfield Knoll community to the treatment plant, will continue to convey flows to the Deerfield Knoll WWTP site. Following decommissioning of the Deerfield Knoll WWTP, the Cohasset Pump Station will be upgraded to allow direct pumping to the Willistown Woods WWTP. The new pumping station will subsequently convey flow to the Willistown Woods WWTP. A new force main will be constructed between this new Deerfield Knoll Pumping Station and the Willistown Woods WWTP. Once the new pump station is commissioned, the remainder of the Deerfield Knoll WWTP will be decommissioned and the temporary pump station installed in the first phase of the project will be removed. The existing collection system and the new pump station will be capable of conveying flows from a potential expansion of the collection system to provide service to the neighboring Cratin Lane development. Cratin Lane consists of 15 residential properties.

The basis of design for the Deerfield Knoll Pump Station uses an average flow of 9,700 gpd which is based on the 5-year annual average effluent flow from the Deerfield Knoll WWTP from 2020 through 2024. Using a conservative peaking factor of 4.5, the minimum required flow rate for the proposed Deerfield Knoll Pump Station is 30.3 gpm. A higher flow rate may be required to meet DEP's design guideline criteria for scouring velocity in force mains. Scouring velocity is needed to prevent the buildup of solids in the force main, and the required flow rate to achieve scouring velocity is dependent on the pipe size. 3-inch and 4-inch nominal diameter pipe sizes are being considered for this proposed force main, but the final selection will be made during the design of the pump station and force main. The design will consider a variety of technical factors to determine the appropriate force main size including: the hydraulic condition of the pump station, pump availability, and considerations for potential future connections not included in this Special Study.

The new force main will be constructed along PA Route 3. The force main will be installed via directional drilling to the greatest extent possible. The alignment will be selected to avoid conflict with the existing water main, and minimize traffic and environmental impacts.

The PaDEP identified that Willistown Township had two (2) open items with the PaDEP. The first item is a Component 3M submitted by the Township regarding the potential connection of thirteen (13) existing

properties located along West Chester Pike to public sewers. The area is referred to as the West Chester Pike service area. This item has been approved and no longer pending.

The second item involves a special study submitted by the Township to evaluate the need to provide sewer service to the Chesterdale Service Area. The Chesterdale Service Area would convey flow to the Willistown Woods WWTP. The evaluation concluded that conveying Deerfield Knoll's effluent to the Willistown Woods WWTP will not preclude the ability to maintain capacity to provide public sewer to the Chesterdale Service Area. As agreed with Willistown Township, Aqua will maintain capacity at the Willistown Woods WWTP to accommodate the potential 43,425 gpd average wastewater flow from the Chesterdale Service area.

SECTION I.
PROPOSED WASTEWATER FACILITIES

U:\ACCOUNTS\PSWCX\PSWCX22003 - DEERFIELD ACT 537 PLAN UPDATE\DESIGN\SHEETS\DEERFIELD_KNOLL_AERIAL_EXHIBIT_25-07.31.DWG
 PLOTTED: 8/4/2025 10:16:25 AM, BY: OLIVIA SZABO PLOTSTYLE: PENNONI_NCS.STB, PROJECT STATUS: -----

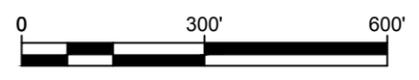


LEGEND:

EXISTING	PROPOSED

EXISTING HOUSE
 PROPERTY LINE
 SANITARY SEWER, MANHOLE
 SANITARY SEWER, PIPE
 GAS, PIPE
 OVERHEAD ELECTRIC
 UTILITY POLE
 WATER MAIN, PIPE
 WATER MAIN, HYDRANT

SANITARY SEWER FM, PIPE



Pennoni Associates Inc.
 Engineers • Surveyors • Planners
 Landscape Architects
 1900 Market Street, Suite 300 • Philadelphia, PA 19103
 T 215.222.3000 • F 215.222.3588

DRAWN BY: OMS	CHECKED BY: ML	PROJECT NO.
SCALE: 1"=300'	DATE: 2025-07-10	PSWCX22003

DEERFIELD KNOLL STP DIVERSION PLAN
WILLISTOWN TOWNSHIP
537 PLAN UPDATE
 PREPARED FOR
 AQUA PENNSYLVANIA WASTEWATER
 762 WEST LANCASTER AVE
 BRYN MAWR, PA 19010

DRAWING NO.	
1.0	

1. PROJECT INFORMATION

Project Name: **Deerfield Act 537**

Date of Review: **9/4/2025 10:46:10 AM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **5.34 acres**

County(s): **Chester**

Township/Municipality(s): **Willistown Township**

ZIP Code:

Quadrangle Name(s): **MEDIA; WEST CHESTER**

Watersheds HUC 8: **Lower Delaware**

Watersheds HUC 12: **Ridley Creek**

Decimal Degrees: **39.965230, -75.502422**

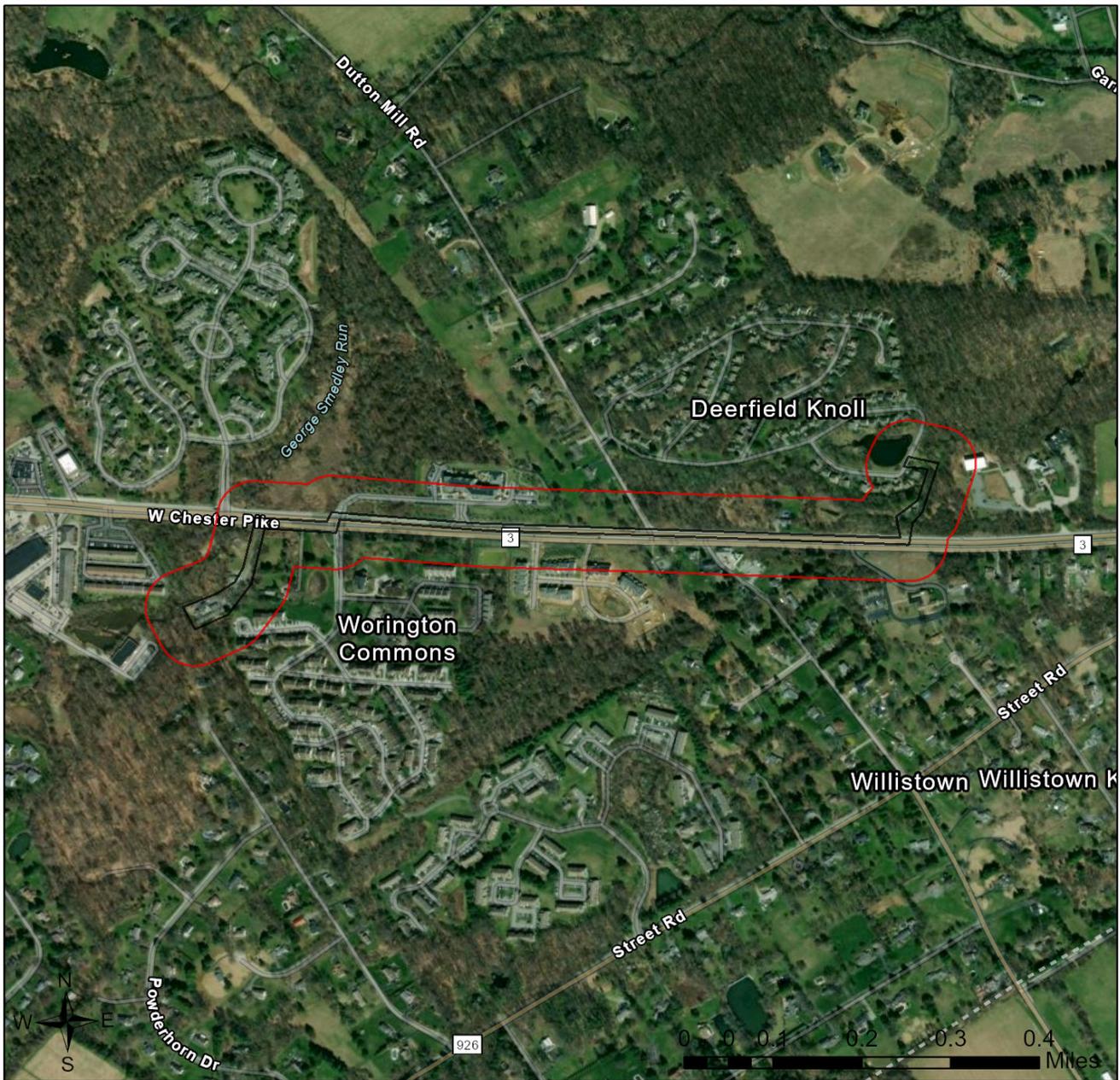
Degrees Minutes Seconds: **39° 57' 54.8289" N, 75° 30' 8.7193" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Conservation Measure	No Further Review Required, See Agency Comments
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	Potential Impact	MORE INFORMATION REQUIRED, See Agency Response

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Deerfield Act 537

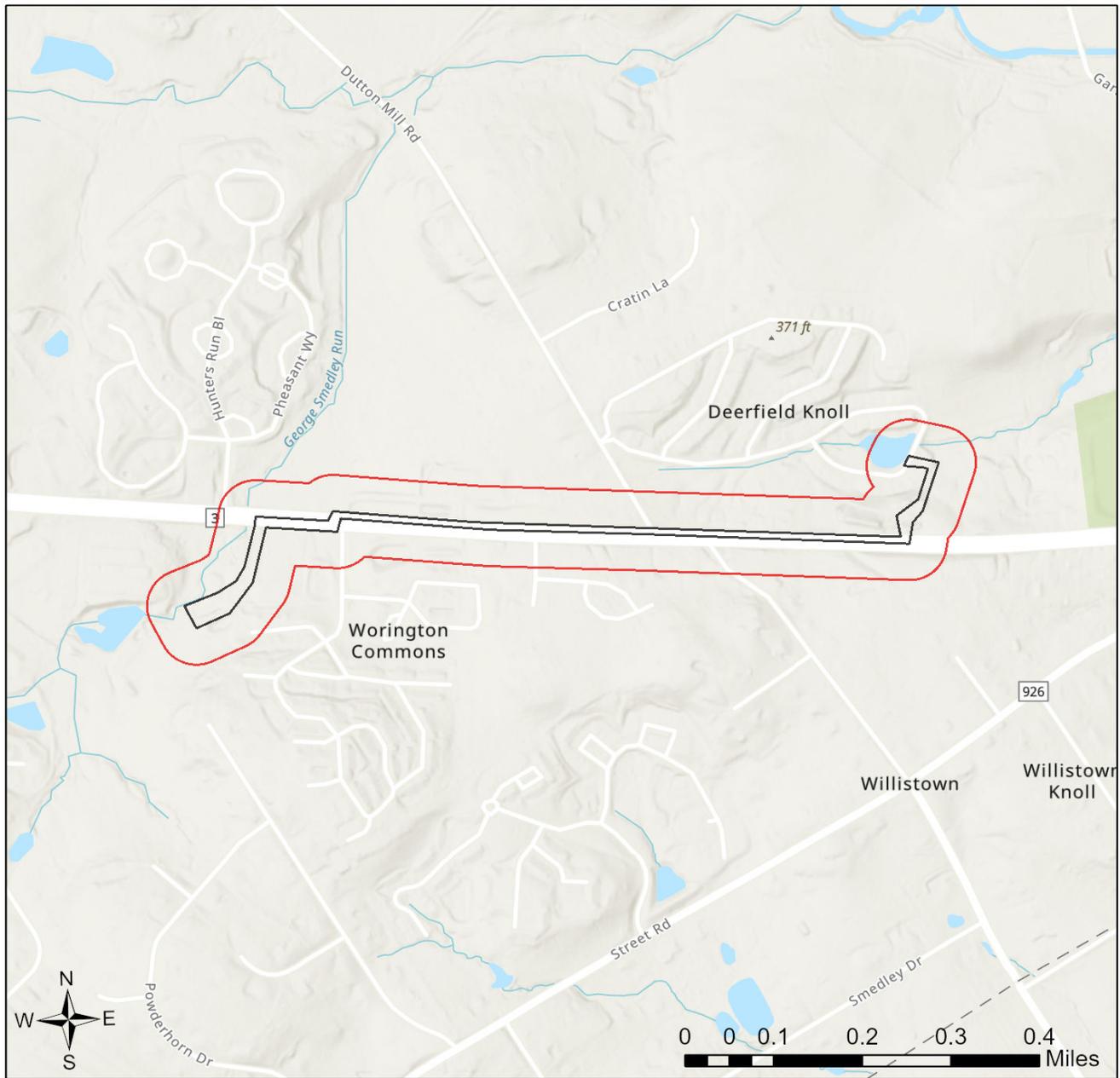


-  Buffered Project Boundary
-  Project Boundary



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Deerfield Act 537



-  Buffered Project Boundary
-  Project Boundary



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA,

RESPONSE TO QUESTION(S) ASKED

Q1: Will the action include disturbance to trees such as tree cutting (or other means of knocking down, or bringing down trees, tree topping, or tree trimming), pesticide/herbicide application or prescribed fire?

Your answer is: No

Q2: Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, culverts, or tunnels that could provide habitat for hibernating bats?

Your answer is: No

Q3: Will the action include disturbance to trees such as tree cutting (or other means of knocking down, or bringing down trees, tree topping, or tree trimming), pesticide/herbicide application or prescribed fire?

Your answer is: No

Q4: Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, culverts, or tunnels that could provide habitat for hibernating bats?

Your answer is: No

3. AGENCY COMMENTS

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

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

PA Game Commission

RESPONSE:

Conservation Measure: Potential impacts to state and federally listed species which are under the jurisdiction of both the Pennsylvania Game Commission (PGC) and the U.S. Fish and Wildlife Service may occur as a result of this project. As a result, the PGC defers comments on potential impacts to federally listed species to the U.S. Fish and Wildlife Service. No further coordination with the Pennsylvania Game Commission is required at this time.

PA Department of Conservation and Natural Resources

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here:

<https://conservationexplorer.dcnr.pa.gov/content/survey-protocols>)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Dichanthelium oligosanthes var. scribnerianum	Scribner's Panicgrass	Special Concern Species*	Threatened	Vernal terminal panicles May - early July, or late summer or early fall
Sensitive Species**		Threatened	Threatened	Flowers remain open for few hours; flowers late June - July
Symphotrichum depauperatum	Serpentine Aster	Threatened	Threatened	Flowers August - October

PA Fish and Boat Commission

RESPONSE:

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

U.S. Fish and Wildlife Service

RESPONSE:

Information Request: Your project is within the range of the federally listed bog turtle. Enter project information into IPaC (<http://ecos.fws.gov/ipac/>). Follow the step-by-step process to review this project's potential effect on federally listed species. For step-by-step instructions, please see our Project Review Page (<https://www.fws.gov/office/pennsylvania-ecological-services/project-revi...>)

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

*If information was requested by USFWS, applicants must submit their project using [IPaC](#), following the [USFWS Project Submission](#) Instructions. USFWS will not accept or review project materials uploaded via the Conservation Explorer.

Check-list of Minimum Materials to be submitted:

___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

___ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

___ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

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



5. ADDITIONAL INFORMATION

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

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

6. AGENCY CONTACT INFORMATION

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

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

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

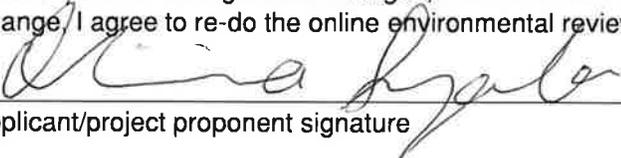
PA Game Commission
Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Olivia Szabo
Company/Business Name: Pennoni Associates Inc.
Address: 1900 Market Street
City, State, Zip: Philadelphia, PA, 19103
Phone: (215) 222 - 3000 Fax: ()
Email: oszabo@pennoni.com

8. CERTIFICATION

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


applicant/project proponent signature

9.10.2025
date



September 11, 2025

PNDI Number: 800900
Version: Final_2; 9/4/2025

Olivia Szabo

Pennoni

1900 Market Street, Suite 300
Philadelphia, PA 19103
Email: oszabo@pennoni.com (hard copy will not follow)

Re: Deerfield Act 537
Willistown Township, Chester County, PA

Dear Olivia Szabo,

Thank you for the submission of your field survey for Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 800900 (Final_2) for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated per Survey

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. DCNR requested a botanical survey for several species on January 16, 2024. A survey was conducted by Anthony Silva of DuBois on July 17 and September 27, 2024. No species of special concern were found on the project site. Therefore, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

Recommended Best Management Practices:

- Use a conservative approach to project design that minimizes permanent and temporary disturbances to soil and native vegetation. This will conserve habitat and limit opportunities for invasive plants.
- Clean boot treads, tools, construction equipment, watercraft, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other worksites.
- Use clean project materials (e.g., weed-free straw, topsoil, rock fill, etc.) or materials native to the worksite to avoid introducing invasive species from contaminated sources.
- Do not use seed mixes that include invasive species. More information about invasive plants in Pennsylvania can be found at the following link:
<http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx>
- Use habitat appropriate seed mixes and, when available, use PA ecotypes. For example, use a riparian seed mix when reseeding along a waterway. The Bureau of Forestry Planting & Seeding Guidelines can be found at the following link for recommendations:
http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf

- Use native plants for landscaping, revegetation, and stormwater management. Do not use nonnative invasive species. Reduce the area of lawn and impermeable surfaces to the fullest extent practicable in favor of native gardens or habitat restoration (e.g., forest, meadow, wetland, etc.). More information about lawn conversion can be found at the following link: <https://www.dcnr.pa.gov/Conservation/Water/LawnConversion/Pages/default.aspx>
- Plant forest buffers where trees were historically present along streams, wetlands, and bodies of water. Buffers should be a minimum of 35 feet in width (ideally at least 100 feet in width). Where trees are not appropriate (e.g., powerline rights-of-way), buffer with native shrubs and herbaceous plants. More information about riparian buffers can be found at the following link: <https://www.dcnr.pa.gov/Conservation/Water/RiparianBuffers/Pages/default.aspx>
- Manage road/utility rights-of-way, median strips, edges, and other green spaces for diverse native plant communities and wildlife (e.g., common and swamp milkweed for monarch butterfly). In seed mixes, include PA native wildflowers that have overlapping bloom periods and provide forage for pollinators throughout the growing season.
- Avoid blanket herbicide applications; instead, spot-treat undesirable tall woody vegetation and invasive weeds. Where mowing is necessary, reduce frequency to once every few years during the dormant season (i.e., after first frost in late fall and before bird nesting in early spring), leaving some refugia for overwintering wildlife.
- Monitor for invasive plants before, during, and after project activities and promptly control any identified infestations. Frequent monitoring allows for early detection and rapid response.

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Alexander Dogonniuck, Ecological Information Specialist, by phone (717-783-3913) or via email (c-adogonni@pa.gov).

Sincerely,



Greg Podnieszinski, Section Chief
Natural Heritage Section

conserve

sustain

enjoy



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pennsylvania Ecological Services Field Office
110 Radnor Road Suite 101
State College, PA 16801-7987
Phone: (814) 234-4090 Fax: (814) 234-0748

In Reply Refer To:

09/04/2025 15:00:34 UTC

Project Code: 2025-0144755

Project Name: Decommissioning of Deerfield Knoll Wastewater Treatment Plant

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

- USFWS National Wildlife Refuges and Fish Hatcheries

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Pennsylvania Ecological Services Field Office

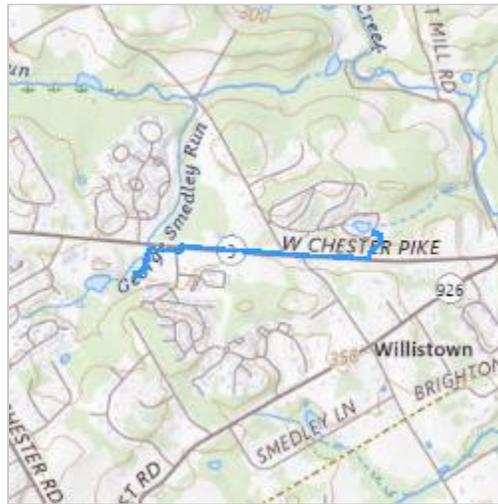
110 Radnor Road Suite 101
State College, PA 16801-7987
(814) 234-4090

PROJECT SUMMARY

Project Code: 2025-0144755
Project Name: Decommissioning of Deerfield Knoll Wastewater Treatment Plant
Project Type: Wastewater Pipeline - New Constr - Below Ground
Project Description: The Deerfield Knoll WWTP is to be decommissioned, and pumping system improvements shall be undertaken to redirect flow along PA Route 3 to the Willistown Woods WWTP for treatment and disposal.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@39.965150550000004,-75.50025490786516,14z>



Counties: Chester County, Pennsylvania

ENDANGERED SPECIES ACT SPECIES

There is a total of 5 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

REPTILES

NAME	STATUS
Bog Turtle <i>Glyptemys muhlenbergii</i> Population: Wherever found, except GA, NC, SC, TN, VA No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6962	Threatened

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: County of Chester
Name: Olivia Szabo
Address: 1900 Market Street
Address Line 2: Suite 300
City: Philadelphia
State: PA
Zip: 19103
Email: oszabo@pennoni.com
Phone: 2158579724



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pennsylvania Ecological Services Field Office
110 Radnor Road Suite 101
State College, PA 16801-7987
Phone: (814) 234-4090 Fax: (814) 234-0748

In Reply Refer To:

09/04/2025 17:02:47 UTC

Project code: 2025-0144755

Project Name: Decommissioning of Deerfield Knoll Wastewater Treatment Plant

Federal Nexus: no

Federal Action Agency (if applicable): County of Chester

Subject: Record of project representative's no effect determination for 'Decommissioning of Deerfield Knoll Wastewater Treatment Plant'

Dear Olivia Szabo:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on September 04, 2025, for 'Decommissioning of Deerfield Knoll Wastewater Treatment Plant' (here forward, Project). This project has been assigned Project Code 2025-0144755 and all future correspondence should clearly reference this number. **Please carefully review this letter.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the **Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey)**, invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.***

Determination for the Northern Long-Eared Bat and/or Tricolored Bat

Based upon your IPaC submission and a standing analysis, your project has reached the following effect determinations:

Species	Listing Status	Determination
Northern Long-eared Bat (<i>Myotis septentrionalis</i>)	Endangered	No effect

Tricolored Bat (*Perimyotis subflavus*)

Proposed
Endangered

No effect

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17).

Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no consultation with the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13].

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Bog Turtle *Glyptemys muhlenbergii* Threatened
- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened

You may coordinate with our Office to determine whether the Action may affect the animal species listed above and, if so, how they may be affected.

Next Steps

If there are no updates on listed species, no further consultation/coordination for this project is required with respect to the species covered by this key. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location

of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place to ensure compliance with the Act.

If you have any questions regarding this letter or need further assistance, please contact the Pennsylvania Ecological Services Field Office and reference Project Code 2025-0144755 associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

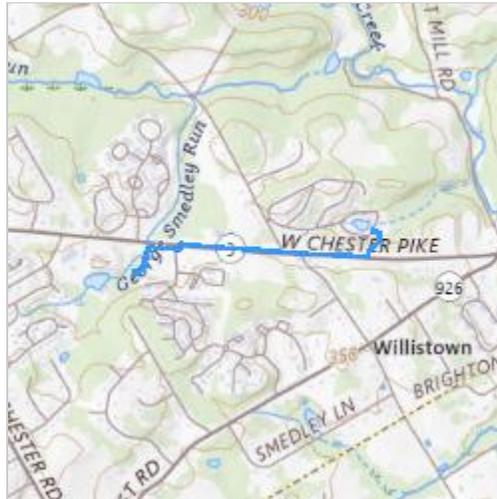
Decommissioning of Deerfield Knoll Wastewater Treatment Plant

2. Description

The following description was provided for the project 'Decommissioning of Deerfield Knoll Wastewater Treatment Plant':

The Deerfield Knoll WWTP is to be decommissioned, and pumping system improvements shall be undertaken to redirect flow along PA Route 3 to the Willistown Woods WWTP for treatment and disposal.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@39.965150550000004,-75.50025490786516,14z>



DETERMINATION KEY RESULT

Based on the information you provided, you have determined that the Proposed Action will have no effect on the species covered by this determination key. Therefore, no consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required for those species.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

4. Does the proposed action involve **wind or solar energy**?

No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Note for projects in Pennsylvania: Projects requiring authorization under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act would be considered as having a federal nexus. Since the U.S. Army Corps of Engineers (Corps) has issued the Pennsylvania State Programmatic General Permit (PASPGP), which may be verified by the PA Department of Environmental Protection or certain Conservation Districts, the need to receive a Corps authorization to perform the work under the PASPGP serves as a federal nexus. As such, if proposing to use the PASPGP, you would answer 'yes' to this question.

No

6. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

Automatically answered

No

7. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

No

8. Does the action area contain (1) talus or (2) anthropogenic or naturally formed rock shelters or crevices in rocky outcrops, rock faces or cliffs?

No

9. Will the action cause effects to a bridge?

Note: Covered bridges should be considered as bridges in this question.

No

10. Will the action result in effects to a culvert or tunnel at any time of year?

No

11. Are trees present within 1000 feet of the action area?

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

12. Does the action include the intentional exclusion of bats from a building or building-like structure? **Note:** Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

No

13. Does the action involve removal, modification, or maintenance of a human-made building-like structure (barn, house, or other building) **known or suspected to contain roosting bats?**

No

14. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

15. Will the action include or cause any construction or other activity that is reasonably certain to increase average night-time traffic permanently or temporarily on one or more existing roads? **Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.). .

No

16. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

17. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

Note: For information regarding NSF/ANSI 60 please visit <https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects>

No

18. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

19. Will the action include drilling or blasting?

Yes

20. Will the drilling or blasting produce noise or vibrations above existing background levels that will affect suitable summer habitat for northern long-eared bats and/or tricolored bats?

Note: Additional information defining suitable suitable summer habitat for the northern long-eared bat and/or tricolored bat, can be found in Appendix A in the USFWS' Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>

No

21. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use at night)?

No

22. Will the proposed action involve the use of herbicides or pesticides (e.g., fungicides, insecticides, or rodenticides)?

No

23. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No

24. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No

25. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

No

26. Will the proposed action result in the use of prescribed fire?

Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

No

27. Does the action area intersect the northern long-eared bat species list area?

Automatically answered

Yes

28. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known NLEB hibernacula or winter roost? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

29. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

30. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency. Have you contacted the appropriate agency to determine if your action is within 150 feet of any documented northern long-eared bat roosts?

Note: A document with links to Natural Heritage Inventory databases and other state-specific sources of information on the locations of northern long-eared bat roosts is available here. Location information for northern long-eared bat roosts is generally kept in state natural heritage inventory databases – the availability of this data varies by state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited.

Automatically answered

No

31. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?

If unsure, answer "Yes."

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

32. Does the action area intersect the tricolored bat species list area?

Automatically answered

Yes

33. Is the action area located within 0.5-mile of radius of an entrance/opening to any known tricolored bat hibernacula or winter roost?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

Automatically answered

No

34. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

35. Has a presence/probable absence bat survey targeting the [tricolored bat and following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines](#) been conducted within the project area?

No

36. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?

(If unsure, answer ""Yes."")

Note: If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#).

Yes

37. Do you have any documents that you want to include with this submission?

No

PROJECT QUESTIONNAIRE

IPAC USER CONTACT INFORMATION

Agency: County of Chester
Name: Olivia Szabo
Address: 1900 Market Street
Address Line 2: Suite 300
City: Philadelphia
State: PA
Zip: 19103
Email: oszabo@pennoni.com
Phone: 2158579724



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pennsylvania Ecological Services Field Office
110 Radnor Road Suite 101
State College, PA 16801-7987
Phone: (814) 234-4090 Fax: (814) 234-0748

In Reply Refer To:

09/04/2025 15:19:24 UTC

Project code: 2025-0144755

Project Name: Decommissioning of Deerfield Knoll Wastewater Treatment Plant

Federal Nexus: no

Federal Action Agency (if applicable): County of Chester

Subject: Technical assistance for 'Decommissioning of Deerfield Knoll Wastewater Treatment Plant'

Dear Olivia Szabo:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on September 04, 2025, for “Decommissioning of Deerfield Knoll Wastewater Treatment Plant” (here forward, Project). This project has been assigned Project Code 2025-0144755 and all future correspondence should clearly reference this number.

The Service developed the IPaC system and associated species’ determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northeast Determination Key (Dkey), invalidates this letter. **Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.**

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no further consultation with, or concurrence from, the Service is

required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required (except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect (NLAA)" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Bog Turtle (<i>Glyptemys muhlenbergii</i>)	Threatened	NLAA
Indiana Bat (<i>Myotis sodalis</i>)	Endangered	NLAA

Conclusion

Coordination with the Service is complete. This letter serves as technical assistance. All conservation measures should be implemented as proposed. Thank you for considering federally listed species during your project planning.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the species identified above. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project implements any changes which are final or commits additional resources.

Other Species and Critical Habitat that May be Present in the Action Area

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the Pennsylvania Ecological Services Field Office and reference the Project Code associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

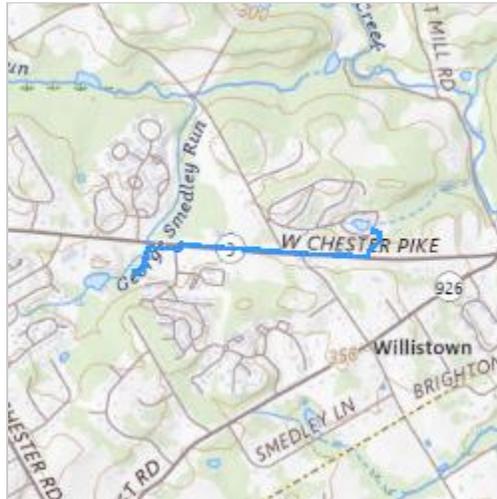
Decommissioning of Deerfield Knoll Wastewater Treatment Plant

2. Description

The following description was provided for the project 'Decommissioning of Deerfield Knoll Wastewater Treatment Plant':

The Deerfield Knoll WWTP is to be decommissioned, and pumping system improvements shall be undertaken to redirect flow along PA Route 3 to the Willistown Woods WWTP for treatment and disposal.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@39.965150550000004,-75.50025490786516,14z>



QUALIFICATION INTERVIEW

1. As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer questions truthfully?

Yes

2. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

Note: This question could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered, or proposed species.

No

3. Does the proposed action involve wind or solar energy?

No

4. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Note: for projects in Pennsylvania: Projects requiring authorization under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act would be considered as having a federal nexus. Since the U.S. Army Corps of Engineers (Corps) has issued the Pennsylvania State Programmatic General Permit (PASPGP), which may be verified by the PA Department of Environmental Protection or certain Conservation Districts, the need to receive a Corps authorization to perform the work under the PASPGP serves as a federal nexus. As such, if proposing to use the PASPGP, you would answer 'yes' to this question.

No

5. Will the proposed project involve the use of herbicide where listed species are present?

No

6. Will the proposed project involve herbaceous native vegetation removal (including prescribed fire that would result in burning of plants) or mowing?

No

7. Will all activities occur within an area that is currently paved, graveled, routinely maintained lawn, and/or inside a structure?

Yes

8. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **birds** (e.g., plane-based surveys, new or enlarged communication towers or broadcast towers, high voltage transmission lines, any type of towers with or without guy wires)?

No

9. Will the proposed project result in **permanent** changes to surface water or groundwater quantity, retention, quality or timing?

Note: Projects may affect stream flow, surface water, or groundwater through various activities such as; water withdrawal, water recharge, well drilling, infiltration impacts, stormwater outlets, hydropower production, water impoundments, intake structures, stream diversion, mining operations, dams, surface water drainage, or hydroelectric turbines.

If a project only involves temporary and limited reductions in water that will not displace listed species or significantly alter their water availability (meaning there are no changes to their feeding, breeding, or sheltering), you can answer "No" to this question.

This question specifically addresses the quantity of water in a stream. Other water quality issues, such as sedimentation and turbidity, will be covered in subsequent questions.

No

10. Does the project include activity in or within 300 feet of a freshwater wetland?

Note: This encompasses various project activities related to wetlands, including activities taking place within wetlands, activities occurring within 300 feet of wetlands that could impact them, and water withdrawals and/or discharge of contaminants, even if covered by a National Pollutant Discharge Elimination System (NPDES) permit

Examples of such activities include, but are not limited to; wetland draining, ditching, tilling, filling, excavation, stream diversion, impoundments, mowing, grazing vegetation, construction of access roads, creation of detention basins, installation of water or sewer lines, irrigation, increase of impervious surfaces, and application of pesticides, deicing agents, or fertilizers.

Yes

11. Will the proposed project involve earth moving or other ground disturbance that could cause erosion and sedimentation, and/or contamination within 300 feet of a freshwater wetland or along a stream or tributary of a stream where listed species may be present?

Note: Answer "Yes" to this question if erosion and sediment control measures will be used.

Yes

12. Will the proposed project impact streams or tributaries of streams where listed species may be present through activities such as, but not limited to, valley fills, large-scale vegetation removal that could result in ground destabilization, and/or change in site topography?

No

13. Will the proposed project involve vegetation removal within 300 feet of a perennial stream bank where aquatic listed species may be present?

No

14. Will erosion and sedimentation control Best Management Practices (BMPs) associated with applicable state and/or Federal permits, be applied to the project?

Note: If BMPs have been provided by and/or coordinated with and approved by the appropriate Ecological Services Field Office, answer "Yes" to this question.

Yes

15. Is the project being funded, lead, or managed in whole or in part by U.S Fish and Wildlife Restoration and Recovery Program (e.g., Partners, Coastal, Fisheries, Wildlife and Sport Fish Restoration, Refuges)?

No

16. Does the proposed project involve construction or installation of a non-commercial boat dock on a stream?

No

17. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **bats** (e.g., plane-based surveys)?

No

18. Will the proposed project affect wetlands in areas where **bats** may be present?

No

19. Will the proposed project involve blasting where bats may be present?

No

20. Does the project intersect the Indiana bat species list area?

Automatically answered

Yes

21. Are there any caves, mines, or mine features that are suitable for hibernating Indiana bats within the area expected to be impacted by the project?

No

22. Are trees present within the action area?

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats (i.e., live trees and/or snags ≥ 5 inches dbh (12.7 centimeter)), answer "Yes". If you are unsure, answer "Yes." Or refer to Appendix A of the Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines for definitions and an assessment form that will assist you in determining if suitable habitat is present within your project's action area. Suitable summer habitat for Indiana bat consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags ≥ 5 inches dbh (12.7 centimeter) that have exfoliating bark, cracks, crevices, and/or hollows), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of other forested/wooded habitat.

Yes

23. Has a presence/probable absence bat survey following the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#) been conducted within the action area?

No

24. Does the project involve removal or modification of a human-made structure (barn, house, or other building) known or suspected to contain roosting bats? **Note:** Most maintenance and general human disturbance in and around structures will not affect Indiana bats as bats roosting in human structures are adjusted to a certain level of routine noise and are generally expected to roost away from areas with excessive disturbance. Answer 'no' if the proposed action will not include disturbance to human structures known or suspected to contain roosting bats or if the structure does not offer suitable roosting habitat for northern long-eared bats. If unsure, answer 'yes.'

No

25. Does the project include removal/modification of an existing bridge or culvert?

No

26. Will the project include tree cutting, other means of knocking down or bringing down trees, or tree trimming?

No

27. Will the project result in the use of prescribed fire?

No

28. Does the project include temporary or permanent lighting of roadway(s), facility(ies), and/or parking lot(s)?

No

29. Does the project intersect the Bog Turtle species list area?

Automatically answered

Yes

30. Does the project intersect the PA consultation area?

Automatically answered

Yes

31. Is this a PennDOT project in Pennsylvania covered under the [Programmatic Biological Opinion on the Effects of Transportation Actions on the Bog Turtle in PA](#)?

Note: If you answer yes, your Northeast Dkey generated letter will have a May Affect determination for bog turtle. This determination will be superceded by the concurrence on the bog turtle PBO project submittal form. Please see the [PennDOT Procedures for Completing Project Reviews](#) for more details.

No

32. Do you have any other documents that you want to include with this submission?

No

PROJECT QUESTIONNAIRE

1. Approximately how many acres of trees would the proposed project remove?

0

2. Approximately how many total acres of disturbance are within the disturbance/
construction limits of the proposed project?

0.5

3. Briefly describe the habitat within the construction/disturbance limits of the project site.

Directional drilling within the right of way along Route 3

IPAC USER CONTACT INFORMATION

Agency: County of Chester
Name: Olivia Szabo
Address: 1900 Market Street
Address Line 2: Suite 300
City: Philadelphia
State: PA
Zip: 19103
Email: oszabo@pennoni.com
Phone: 2158579724



Pennsylvania State Historic Preservation Office

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

August 8, 2024

Sent Via PA-SHARE

RE: ER Project # 2024PR03704.001, Act 537 Planning Deerfield Knoll, Department of Environmental Protection, Willistown Township, Chester County

Dear Submitter,

Thank you for submitting 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.

Above Ground Resources

No Above Ground Concerns - Environmental Review - No Effect - Historic Properties Present - Above Ground

The following historic properties, listed in or eligible for the National Register of Historic Places, are located in the project area of potential effect: Okehocking Historic District (1989RE00191). Based on the information received and available in our files, in our opinion, the proposed project will have No Effect on these historic properties. Should the scope of the project change and/or should you be made aware of historic property concerns, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning above ground resources, please contact Taylor Napoleon at tnapoleon@pa.gov.

Archaeological Resources

No Archaeological Concerns - Environmental Review - No Effect - Archaeological

Based on the information received and available in our files, in our opinion, the proposed project should have No Effect on archaeological resources. Should the scope of the project be amended to include additional ground-disturbing activity and/or should you be made aware of historic property concerns regarding archaeological resources, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning archaeological resources, please contact Taylor Napoleon at tnapoleon@pa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Emma Diehl". The signature is fluid and cursive, with a long horizontal stroke at the end.

Emma Diehl

Environmental Review Division Manager

SECTION J.
ALTERNATIVE SEWAGE FACILITIES ANALYSIS

Alternative Analysis – Component 3M Section J

Deerfield Knoll

The Deerfield Knoll Wastewater Treatment Plant serves a residential community in Willistown Township, Chester County, Pennsylvania. Properties tributary to the wastewater treatment plant are residential, there are no commercial or industrial users. AQUA wishes to consolidate wastewater treatment operations by conveying the Deerfield Knoll wastewater to the Willistown Woods Wastewater Treatment Plant.

AQUA has identified three (3) alternatives for conveying flow to the Willistown Woods WWTP:

1. No Action
2. Pump to the existing Solana Pump Station
3. Pump to gravity collection system at the Willistown Point development.
4. Pump directly to the Willistown Woods WWTP

1. No Action:

The Deerfield Knoll WWTP is an aging facility that is nearing the end of its useful life. The existing facilities will require significant remediation to extend their service life. Additionally, this facility requires significant operator attention. Undertaking a rehabilitation of the Deerfield Knoll WWTP will be more expensive and require more operator attention than consolidating operations. The No Action alternative is not an acceptable solution.

2. Pump to the Existing Solana Pump Station:

By pumping to the existing Solana Pump Station, AQUA would be required to replace the existing pumps in the Cohasset Lift Station with higher head pumps to allow conveyance to the Solana Lift Station or construct a new pump station at the Deerfield Knoll WWTP. Additionally, the discharge force main will need to be replaced with a minimum 2.5-inch diameter force main to reduce discharge piping friction losses. Finally, the Solana Lift Station pumps will need to be upgraded in order to convey the additional flow for Deerfield Knoll.

3 & 4. Pump to Willistown Woods WWTP:

Pumping to the Willistown Woods WWTP can be achieved by: upgrading the Cohasset Lift Station and force main, constructing a pumping station at the Deerfield Knoll WWTP to convey flow to the gravity collection system at Willistown Point, or constructing a pumping station at the Deerfield Knoll WWTP to convey flow directly to the Willistown Woods WWTP. To discharge into the gravity collection system, a construction easement would be required, however, no easement would be required if the proposed force main discharged directly into the Willistown Woods WWTP.

Discussion of Alternatives:

Options 2 through 4 allow the Deerfield Knoll WWTP to be removed from operation and convey flows to the Willistown Woods WWTP. Options 3 and 4 do not impact the Solana Lift Station. Additionally, Options 3 and 4 do not require additional flow to be pumped by the Solana Lift Station, thereby reducing operating and maintenance costs. Options 3 and 4 are the desirable option. For option 3, the proposed force main discharge would be into a manhole located in the Willistown Woods HOA open space. This would require the approval of and an easement from the HOA. The distance required to install the proposed force main directly to the Willistown Woods WWTP is only slightly longer than discharging into the manhole in the Willistown Woods HOA's open space, however, it will have less impact to the local communities and

minimize easements required for this project. Thus, we recommend Option 4: Pumping directly to the Willistown Woods WWTP.

Options 2 through 4 all include repurposing the equalization tank to serve as a wet well for a new pump station or building a new pumping station are viable temporary options to allow time to procure a construction easement for the Cohasset Pump Station upgrade. Construction of a new pump station at the Deerfield Knoll WWTP site to operate until the Cohasset Pump Station can be upgraded is the recommended scenario.

SECTION L.
INSTITUTIONAL EVALUATION

Institutional Evaluation – Component 3M Section L

Aqua owns, operates, and maintains the Deerfield Knoll Wastewater Treatment Plant (WWTP) and the property on which the WWTP is located. Aqua has decided to decommission the WWTP and divert the flow to Willistown Woods WWTP. Aqua will operate and maintain a new pumping facility in the current location of the WWTP.

The Willistown Woods WWTP has a permitted average flow of 175,000 gpd and a hydraulic capacity of 210,000 gpd. The Willistown Woods WWTP must possess adequate capacity to meet their current flows, treat the new flows from the Deerfield Knoll system, and possess adequate capacity for potential connections from the Chesterdale area collection system. The following is a summary of the capacity requirements:

Willistown Woods 5-yr Avg:	99,500 gpd
Potential Chesterdale Flows:	43,425 gpd
<u>Deerfield Knoll 5-yr Avg:</u>	<u>9,700 gpd</u>
Total Demand:	152,625 gpd

The total projected flows are below the permitted average of 175,000 gpd. The Willistown Woods WWTP has the capacity to treat the flows generated by the Deerfield Knoll service area while maintaining adequate capacity to serve potential connections in the Chesterdale service areas.

SECTION M.
PROJECT COST AND FUNDING ANALYSIS

Project Cost and Funding Analysis - Component 3M, Section M

Aqua will fund the decommissioning of the Deerfield Knoll WWTP. The cost of these projects will be spread across Aqua's customers, however, these projects will eliminate the need for future capital expenses at the Deerfield Knoll WWTP. The Deerfield Knoll WWTP is near the end of its useful lives and would otherwise require major capital projects to rehabilitate or replace the existing facilities. Additionally, decommissioning the Deerfield Knoll WWTP and sending their flows to the Willistown Woods WWTP will increase operational efficiencies.

Cost Estimate				
	Quantity	Unit	Unit Price	Total Price
Deerfield Knoll				
Connection at EQ Tank	1	EA	\$ 6,000.00	\$ 6,000.00
Connection at Plant	1	EA	\$ 6,000.00	\$ 6,000.00
By-Pass Pumping	5	Month	\$ 2,500.00	\$ 12,500.00
Force Main - Directional Drill	4100	LF	\$ 75.00	\$ 307,500.00
Force Main - Open Cut	200	LF	\$ 250.00	\$ 50,000.00
Air Release valve W/Manhole	1	EA	\$ 11,000.00	\$ 11,000.00
Flushing Station	4	EA	\$ 9,000.00	\$ 36,000.00
EQ Tank conversion	1	EA	\$ 30,000.00	\$ 30,000.00
New pump Station	1	EA	\$ 50,000.00	\$ 50,000.00
Deerfield Knoll WWTP Demolition	1	LS	\$ 90,000.00	\$ 90,000.00
Gas Main Crossing	1	LS	\$ 20,000.00	\$ 20,000.00
Traffic Control	1	LS	\$ 40,000.00	\$ 40,000.00
Pavement Restoration PennDot Full Depth	33	SY	\$ 175.00	\$ 5,775.00
Gravel Drive Restoration	240	SY	\$ 10.00	\$ 2,400.00
Subtotal				\$ 667,175.00
Bonding and Insurance	3	%		\$ 20,015.25
Contingency	20	%		\$ 133,435.00
Total Deerfield Knoll				\$ 820,625.25

SECTION N.
PROJECT IMPLEMENTATION SCHEDULE

Project Implementation Schedule – Component 3M Section N

ANTICIPATED IMPLEMENTATION SCHEDULE	
DESCRIPTION	DATE
PRELIMINARY DESIGN	COMPLETE
FINAL DESIGN	MARCH 2026
537 SEWER PLANNING SUBMISSION	FEBRUARY 2026
537 SEWER PLANNING APPROVAL	MAY 2026
WQM PART II PERMIT SUBMISSION	JUNE 2026
WQM PART II PERMIT APPROVAL	SEPTEMBER 2026
CONNECTION TO PUBLIC SEWER	DECEMBER 2026
BEGIN WWTP DECOMMISSIONING	JANUARY 2027
COMPLETE WWTP DECOMMISSIONING	JANUARY 2028
FINAL APPROVALS	MARCH 2028

SECTION O.
PUBLIC NOTICE

PUBLIC NOTICE

In accordance with the requirement of the Pennsylvania Sewage Facilities Act No. 537, Willistown Township, Chester County, Pennsylvania is preparing to submit to the Pennsylvania Department of Environmental Protection (PaDEP) a Sewage Facilities Planning Act 537 Special Study to address the decommissioning of the Deerfield Knoll Wastewater Treatment Plant and the diversion of flow to the Willistown Woods Wastewater Treatment Plant. Both plants are owned and operated by Aqua Pennsylvania Wastewater, Inc..

The Special Study is designed to provide for the decommissioning of the Deerfield Knoll WWTP which provides wastewater service to the properties in the Deerfield Knoll Homeowner's Association, and conveyance of flows to the Willistown Woods WWTP by upgrading the existing pump station on Cohasset Ln and installing a new force main which will be located mostly within the West Chester Pike road right-of-way. These improvements will be reflected in a future rate case study submitted to the Pennsylvania Public Utility Commission which will render a decision in regard to any rate increase which may be approved.

The 30-day public comment period has been established commencing on the date of this advertisement. The general public may review the Special Study between the hours of 9:00 a.m. and 5:00 p.m. at the Willistown Township Building, 688 Sugartown Road, Malvern, PA 19355. Please contact the Township at (610) 647-5300 to make an appointment to review the Special Study. The Special Study is also available for review on the Township website (<https://www.willistown.pa.us/>)

Written comments from the public regarding the Special Study may be forwarded to Shanna Lodge, Willistown Township Manager, at the above address or to comments@willistown.pa.us. All written comments must be received prior to the end of the 30-day public comment period. All written comments will be addressed prior to submitting the Special Study to the PaDEP.

SECTION Q.
CORRESPONDENCE



Submitted via e-mail on 11/4/2025
Resubmitted via e-mail on 11/19/2025
No comments received

November 3, 2025

MORAM 09007

Willistown Township Planning Commission
688 Sugartown Road
Malvern, PA 19355

RE: 537 Plan Special Study

Dear Ms. O'Connor:

On behalf of Aqua Pennsylvania Wastewater, Inc. (Aqua), we prepared the attached 537 Plan Special Study as an update to the Willistown Township 537 Plan. In accordance with PaDEP requirements, we request Planning Commission review of the Special Study.

The Special Study proposes the decommissioning of the existing Deerfield Knoll Wastewater Treatment Plant (WWTP), temporary construction and operation of a new transfer pumping station, upgrades to Aqua's existing Cohasset Pump Station, and force main installation to convey existing and allowable future flow to Aqua's Willistown Woods WWTP.

The Deerfield Knoll WWTP has reached its useful life. The tankage is failing and major improvements, replacements, and upgrades are needed to continue operating in the current location. Conveyance to the nearby Willistown Woods WWTP is a better alternative as it consolidates operation and maintenance for a similar capital investment.

The primary objective of this Special Study is:

- To confirm capacity allocation and treatment requirements necessary for future regional growth.
- To develop a plan for continued treatment of the sanitary sewage from the Deerfield Knoll community.

We believe that this Plan is in the best interest of all parties in that: It will maintain the capacity to serve existing customers, add capacity for future growth, combine two (2) treatment plants in deteriorating condition, and provide high quality effluent capable of meeting or exceeding potential discharge requirements proposed for the health of the Delaware River.

Public notice of the 537 Plan is being advertised concurrently with a 30-day review period.

Copies of comments should be sent to RCampbell@pennoni.com of this office as well to Willistown Township.

Sincerely,

A handwritten signature in black ink, appearing to read "R. M. Campbell", is written over a light blue circular stamp.

Robert M. Campbell, P.E.
Senior Engineer

PENNONI ASSOCIATES INC.

Attachments via E-mail Hyperlink

Cc: Shanna Lodge, Township Manager, Willistown Township
Sean Carney, PE, Aqua



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
Decommissioning of Deerfield Knoll Wastewater Treatment Plant

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

1. Date plan received by municipal planning agency _____
2. Date review completed by agency _____

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

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

SECTION C. AGENCY REVIEW (continued)

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	13. Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____
<input type="checkbox"/>	<input type="checkbox"/>	14. Is this plan consistent with the municipal Official Sewage Facilities Plan? If no, describe the inconsistencies _____
<input type="checkbox"/>	<input type="checkbox"/>	15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
<input type="checkbox"/>	<input type="checkbox"/>	16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
<input type="checkbox"/>	<input type="checkbox"/>	If yes, is the proposed waiver consistent with applicable ordinances? If no, describe the inconsistencies _____
17. Name, title and signature of planning agency staff member completing this section:		
Name: _____		
Title: _____		
Signature: _____		
Date: _____		
Name of Municipal Planning Agency: _____		
Address _____		
Telephone Number: _____		

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

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

The planning agency must complete this component within 60 days.

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



November 3, 2025

MORAM 09007

Chester County Planning Commission
601 Westtown Road, Suite 270
West Chester, PA 19380-0990

RE: 537 Plan Special Study

Dear Mr. Edmond:

On behalf of Aqua Pennsylvania Wastewater, Inc. (Aqua), we prepared the attached 537 Plan Special Study as an update to the Willistown Township 537 Plan. In accordance with PaDEP requirements, we request Planning Commission review of the Special Study.

The Special Study proposes the decommissioning of the existing Deerfield Knoll Wastewater Treatment Plant (WWTP), temporary construction and operation of a new transfer pumping station, upgrades to Aqua's existing Cohasset Pump Station, and force main installation to convey existing and allowable future flow to Aqua's Willistown Woods WWTP.

The Deerfield Knoll WWTP has reached its useful life. The tankage is failing and major improvements, replacements, and upgrades are needed to continue operating in the current location. Conveyance to the nearby Willistown Woods WWTP is a better alternative as it consolidates operation and maintenance for a similar capital investment.

The primary objective of this Special Study is:

- To confirm capacity allocation and treatment requirements necessary for future regional growth.
- To develop a plan for continued treatment of the sanitary sewage from the Deerfield Knoll community.

We believe that this Plan is in the best interest of all parties in that: It will maintain the capacity to serve existing customers, add capacity for future growth, combine two (2) treatment plants in deteriorating condition, and provide high quality effluent capable of meeting or exceeding potential discharge requirements proposed for the health of the Delaware River.

Public notice of the 537 Plan is being advertised concurrently with a 30-day review period.

Copies of comments should be sent to RCampbell@pennoni.com of this office as well to Willistown Township.

Sincerely,

A handwritten signature in black ink, appearing to read "R. M. Campbell", is written over a circular stamp or seal.

Robert M. Campbell, P.E.
Senior Engineer

PENNONI ASSOCIATES INC.

Attachments via E-mail Hyperlink

Cc: Shanna Lodge, Township Manager, Willistown Township
Sean Carney, PE, Aqua



**SEWAGE FACILITIES PLANNING MODULE
 COMPONENT 4B - COUNTY PLANNING AGENCY REVIEW
 (or Planning Agency with Areawide Jurisdiction)**

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

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

Project Name & Municipality Deerfield Knoll WWTP Decommissioning, Willistown Township

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

1. Date plan received by county planning agency. November 12, 2025
2. Date plan received by planning agency with areawide jurisdiction N/A Agency name N/A
3. Date review completed by agency January 08, 2026

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

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. Is there a county or areawide comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101 <i>et seq.</i>)? <u>Landscapes3, the Chester County Comprehensive Policy Plan, was adopted in 2018. Watersheds 2045, the Chester County Integrated Water Resources Plan, was adopted in 2024.</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Is this proposal consistent with the comprehensive plan for land use? <u>According to the Landscapes map adopted in 2018, the proposed subdivision/land development includes land designated as the Suburban Landscape. The vision for the Suburban Landscape is predominantly residential communities with locally-oriented commercial uses and facilities, accommodating growth at a medium density that retains a focus on residential neighborhoods, with enhancements in housing diversity and affordability. Both on-lot and public sewer systems are supported in this landscape.</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Does this proposal meet the goals and objectives of the plan? If no, describe goals and objectives that are not met
<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Is this proposal consistent with the use, development, and protection of water resources? If no, describe inconsistency <u>Landscapes3 Protect Objective A states: "Guide development away from sensitive natural resources and toward areas appropriate for accommodating growth." According to PA Code Title 25, Chapter 93, this proposal is located in a watershed or sub-watershed that has a stream use designated as High Quality Waters, the Ridley Creek watershed. These streams are given high priority when considering watershed protection measures. The applicant may need to conduct further coordination with DEP or other agencies in order to comply with the water quality standards set forth in this regulation.</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. Is this proposal consistent with the county or areawide comprehensive land use planning relative to Prime Agricultural Land Preservation? If no, describe inconsistencies:
<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Does this project propose encroachments, obstructions, or dams that will affect wetlands? If yes, describe impact: <u>Landscapes3 Protect Objective B supports comprehensive protection and restoration of the county's ecosystems, including wetlands. The project site contains delineated wetlands, although it does not appear that any proposed development activity will encroach upon them. The applicant should be aware that placement of fill in wetlands is regulated by Section 404 of the Clean Water Act (1977) and PA DEP Chapter 105 Rules and Regulations.</u>
<input type="checkbox"/>	<input type="checkbox"/>	7. Will any known historical or archaeological resources be impacted by this project? Not Known. If yes, describe impacts
<input type="checkbox"/>	<input checked="" type="checkbox"/>	8. Will any known endangered or threatened species of plant or animal be impacted by the development project?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. Is there a county or areawide zoning ordinance?
<input type="checkbox"/>	<input type="checkbox"/>	10. Does this proposal meet the zoning requirements of the ordinance? N/A

SECTION C. AGENCY REVIEW (continued)

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	11. Have all applicable zoning approvals been obtained?
<input type="checkbox"/>	<input type="checkbox"/>	12. Is there a county or areawide subdivision and land development ordinance?
<input type="checkbox"/>	<input type="checkbox"/>	13. Does this proposal meet the requirements of the ordinance? If no, describe which requirements are not met _____
<input type="checkbox"/>	<input type="checkbox"/>	14. Is this proposal consistent with the municipal Official Sewage Facilities Plan? If no, describe inconsistency _____
<input type="checkbox"/>	<input type="checkbox"/>	15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
<input type="checkbox"/>	<input type="checkbox"/>	16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
<input type="checkbox"/>	<input type="checkbox"/>	If yes, is the proposed waiver consistent with applicable ordinances. If no, describe the inconsistencies _____
<input type="checkbox"/>	<input type="checkbox"/>	17. Does the county have a stormwater management plan as required by the Stormwater Management Act?
<input type="checkbox"/>	<input type="checkbox"/>	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: _____		

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

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

The county planning agency must complete this component within 60 days.

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



November 3, 2025

MORAM 09007

Chester County Health Department
601 Westtown Road, Suite 295
West Chester, PA 19380-0990

RE: 537 Plan Special Study

Dear Ms. Franklin:

On behalf of Aqua Pennsylvania Wastewater, Inc. (Aqua), we prepared the attached 537 Plan Special Study as an update to the Willistown Township 537 Plan. In accordance with PaDEP requirements, we request Health Department review of the Special Study.

The Special Study proposes the decommissioning of the existing Deerfield Knoll Wastewater Treatment Plant (WWTP), temporary construction and operation of a new transfer pumping station, upgrades to Aqua's existing Cohasset Pump Station, and force main installation to convey existing and allowable future flow to Aqua's Willistown Woods WWTP.

The Deerfield Knoll WWTP has reached its useful life. The tankage is failing and major improvements, replacements, and upgrades are needed to continue operating in the current location. Conveyance to the nearby Willistown Woods WWTP is a better alternative as it consolidates operation and maintenance for a similar capital investment.

The primary objective of this Special Study is:

- To confirm capacity allocation and treatment requirements necessary for future regional growth.
- To develop a plan for continued treatment of the sanitary sewage from the Deerfield Knoll community.

We believe that this Plan is in the best interest of all parties in that: It will maintain the capacity to serve existing customers, add capacity for future growth, combine two (2) treatment plants in deteriorating condition, and provide high quality effluent capable of meeting or exceeding potential discharge requirements proposed for the health of the Delaware River.

Public notice of the 537 Plan is being advertised concurrently with a 30-day review period.

Copies of comments should be sent to RCampbell@pennoni.com of this office as well to Willistown Township.

Sincerely,

A handwritten signature in black ink, appearing to read "R. M. Campbell", is written over a circular stamp or seal.

Robert M. Campbell, P.E.
Senior Engineer

PENNONI ASSOCIATES INC.

Attachments via E-mail Hyperlink

Cc: Shanna Lodge, Township Manager, Willistown Township
Sean Carney, PE, Aqua



DEP Code #:

SEWAGE FACILITIES PLANNING MODULE COMPONENT 4C - COUNTY OR JOINT HEALTH DEPARTMENT REVIEW

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

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

Project Name
 Decommissioning of Deerfield Knoll Wastewater Treatment Plant

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

1. Date plan received by county or joint county health department _____
 Agency name _____
2. Date review completed by agency _____

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

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	1. Is the proposed plan consistent with the municipality's Official Sewage Facilities Plan? If no, what are the inconsistencies? _____
<input type="checkbox"/>	<input type="checkbox"/>	2. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
<input type="checkbox"/>	<input type="checkbox"/>	3. Is there any known groundwater degradation in the area of this proposal? If yes, describe _____
<input type="checkbox"/>	<input type="checkbox"/>	4. The county or joint county health department recommendation concerning this proposed plan is as follows: _____
		5. Name, title and signature of person completing this section: Name: _____ Title: _____ Signature: _____ Date: _____ Name of County Health Department: _____ Address: _____ Telephone Number: _____

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

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

The county planning agency must complete this component within 60 days.
 This component and any additional comments are to be returned to the applicant.



THE COUNTY OF CHESTER



COMMISSIONERS

Josh Maxwell
Marian D. Moskowitz
Eric M. Roe

JEANNE E. FRANKLIN, MPH, PMP
County Health Director

CHESTER COUNTY HEALTH DEPARTMENT
Chester County Government Services Center
601 Westtown Road, Suite 295
West Chester, PA 19380-0990
610-344-6225 FAX: 610-344-6727
www.chesco.org/health

January 2026

Pennoni
1900 Market Street, Suite 300
Philadelphia, PA 19103

RE: Act 537 Plan Special Study

Dear Aqua Pennsylvania Wastewater,

The Chester County Health Department (CCHD) is in receipt of the above noted Act 537 Special Study for Willistown Township, including The Aqua Pennsylvania Wastewater, Inc. This Act 537 update was prepared by Pennoni, dated November 3rd, 2025, and was received by CCHD on December 16th, 2025.

This Act 537 update was reviewed in accordance with Title 25, Environmental Protection, Chapter 71, Administration of Sewage Facilities Planning Program, Chapter 71 § 71.31.(b). Based on the information presented and after review of the Act 537 update, CCHD has no comments for consideration.

Thank you for the opportunity to review this Act 537 update. Please contact me if you have any questions or concerns. I can be reached at 610-344-6684 or nkrebs@chesco.org

Sincerely,

Nicholas Krebs
Environmental Health Supervisor
Chester County Health Department
(610) 344-6684
nkrebs@chesco.org

CC: Carrie Conwell, Chester County Planning Commission
Robert M. Campbell, P.E. Pennoni Associates Inc.
PA DEP – SE Regional Office
File



February 4, 2026

Ms. Shana Lodge
Township Manager
Willistown Township
688 Sugartown Road
Malvern, PA 19355

Re: Aqua PA Wastewater – Deerfield Knoll Act 537 Planning – 30-Day Public Notice Comments and Response – Deerfield Knoll HOA

Dear Ms. Lodge,

The following comments and questions were posed by the Deerfield Knoll Homeowners Association (HOA) in an email dated 11-19-25 in response to their review of the draft Act 537 Plan for Deerfield Knoll currently under consideration by the Township. The HOA's comments and questions were part of the official 30-day Public Notice period and as such need to be addressed here. Aqua offers the following responses and additional information.

A. Project Scope:

Question 1: There is no mention of Cratin Lane (Dutton Mill north of Deerfield Knoll) or adjacent Veritable (Rt 3 east of Deerfield Knoll) connection. Is there any intention now or in future to tie in these requirements with the work being done in Deerfield Knoll? Page 15 of the proposal.

Answer: This is correct. Cratin Lane may be tied into the force main at some point in the future as may Plumsock to the east however we did not wish to complicate matters with the Act 537 Planning needed for Deerfield as we have greater concern for Deerfield's tankage. Deerfield HOA years back did not want another system (Cratin Lane) tied into the Deerfield system which would be taking away some treatment as well as subsurface effluent disposal capacity. Cratin Lane would likely tie into the proposed force main for Deerfield (as well as Plumsock) at Dutton Mill Road.

We are taking a look at force main size and pump models for Deerfield as well as Plumsock systems to ensure they work well together. We do have experience with multiple pumps tied into a common force main.

Question 2: The project involves a significant upgrade of the Cohasset Lane Lift Station. Further description of the size, scope, and plan is needed. Due increased size and potential odor and noise, it is suggested to move the pumping station further from homes but still in the existing open area. Page 15 of the proposal.

Answer: Actually, replacement of it is planned. We will be able to provide this when full design is undertaken. With regard to the new pump station location, this is exactly as we are thinking Jim. In fact we would like to do a boring in the general open space area where I show the red arrow below on pic snip. We are working on a pump station upgrade at Plumsock and will be doing a soil boring for the relocated PS at Plumsock too. We would like to kill 2 birds with one stone and do a boring to check presence or absence of rock to an approximate depth for the wet well. This boring has been taken for the proposed new Cohasset Pump Station at the location pictured / attached here as Exhibit A.

Question 3: Paragraph N Milestones, page 68 of the proposal, needs to include phases involving new Cohasset

station and Hedgerow Lane leach field decommissioning.

Answer 3: Given that the existing Deerfield Knoll Treatment Plant Tankage is in very poor shape and the length of time it will take to complete a formal design and permitting for a new Cohasset Pump Station our plan is to temporarily use the Equalization Tank chamber of the existing treatment tankage as a temporary pump station which will be tied into the proposed force main from Deerfield Knoll to Aqua's Willistown Woods WWTF. At the same time Aqua will be preparing a formal new Cohasset Pump Station design for DEP Permitting. When the pump station is permitted by PA DEP we will construct the pump station and extend a pipe from the general area of where the branch pipe along Route 3 comes down into the Deerfield Knoll site to the new pump station by directional drill insofar as the existing pump station force main up to the plant is 2" in diameter. A 3" or 4" pipe may likely be required for solids handling pumps. When the new pipe to the new Cohasset PS is completed, the new force main will be directed to it and tied into the new pump station valve vault discharge piping. On the other end of this pipe, the temporary force main to the pumps in the plant EQ Tank will be severed and the new force main from the new Cohasset PS will be connected. The station will then be placed into permanent service.

With regard to the existing subsurface disposal area noted near Hedgerow Lane, this area has precast concrete tankage exposed at the ground surface as well as some PVC piping sticking up from the existing pressure dosed bed system. The top two (2) feet of the precast concrete vaults will be removed. Any remaining water in the tanks will be sucked out with a pumper truck, sodium hypochlorite solution sprayed into the tanks for disinfection, and holes in the bottoms of those tanks broken. The tanks will be filled with stone with the top two feet receiving soil which will be seeded. The subject PVC piping will be cut off 2 feet below grade and disturbed areas of the tanks and piping which are removed will be revegetated and protected with E&S controls. The existing groundwater monitor wells will need to be maintained until the treatment plant is decommissioned and is not discharging to the beds for a minimum of 6 months during which time Aqua will be required by DEP to monitor the groundwater monitor wells as we currently do.

Question 4: Project narrative proposes to operate an interim approach pumping up to the Deerfield Knoll existing station for second stage pumping to Willistown Woods WWTP (proposal page 15.) The project also calls for a 'new' or 'upgraded' Cohasset Lane Lift Station. Why not build the new station first and skip the interim step? Page 18 of the proposal.

Answer: This is correct in that when the force main is completed in Route 3 over to Willistown Woods, pumps will be temporarily installed within the existing EQ chamber as that will be faster than waiting for Cohasset PS replacement, permitting, and construction to be completed. Due to the time it will take to complete the formal design, DEP Permitting, ordering of the pumps and generator needed and our concern for the existing WWTF tankage being further damaged drives us to this approach; time is of the essence to avoid environmental damage.

B. Cohasset Lane Lift Station:

Question 1: Increased size for larger pumps is a concern due to proximity to residences. More noise, more visible, and potentially more odor. See scope suggestion above.

Answer: Noise from the pumps themselves is unlikely as much as noise from the odor control unit (hum of the fan) which may be just moved from the existing wet well to the new wet well. Aqua will address noise issues should they occur. In terms of visibility this will be addressed in the design period with trees such as the fast growing Leyland Cypress around the fenced in pump station site which will have vinyl slats woven into the chain link fencing. Odor will also be address if it occurs. Odor is not typical in a gravity sewer collection system as much as being generated in a force main and hydrogen sulfide odor being released at the point of force main discharge. Aqua has existing odor control units on site at the treatment plant as well as at the existing Cohasset

Pump Station and will ensure odor is not an issue with which the residents will be impacted at the new pump station as well as at the Plant during the temporary pump period.

Question 2: Consider moving further from homes, as mentioned above.

Answer: Aqua agrees and will move the existing Pump Station to a new location to the east of the existing further away from the nearby homes. The Pump Station will be cited in the general location of the soil boring most recently taken to assess bearing capacity and the presence or absence of rock.

Question 3: Specify and budget for odor remediation in future lift station, page 66 of the proposal.

Answer: We believe the 55-gallon carbon odor unit we have will work at the new Cohasset Pump Station however if odor becomes an issue we will provide a larger one. To be honest, sewer odor doesn't generally form in gravity sewer pipe as much as a force main from a pump station. The existing FM has caused odors over the years until we added the odor control unit at the plant and covered the receiving tank. Further, once the new Cohasset PS is placed in permanent service the opportunity for odor at the existing plant site will be gone as the new Cohasset PS will discharge into the Force Main heading to Willistown Woods WWTF. We will still provide odor control for the new PS either way rest assured.

Question 4: Specify and budget noise abatement, page 66 of the proposal.

Answer: As we note in B3, odor control will be provided at the new Cohasset Pump Station. This may likely be the source of noise at the Pump Station site. Should this crop up Aqua will address this with noise suppression on the odor units fan as we have done in the past.

Question 5: Maintenance of power to this pumping station has been an environmental concern in the past. Continuous and back-up power to this station will be increasingly important in the new configuration. Specifically specifying this is suggested. Page 82 of proposal

Answer: The underground power supply will likely continue to be provided from the power source up at the Treatment Plant site where 3-phase power exists (but not in the development proper). We will be adding a new sound attenuated generator, possibly Onan Quite Site II, at the Pump Station site with landscaping around the chain link fenced-in-area with vinyl inserts in the chain link until the likely Leyland Cypress trees I am contemplating get large enough to fully screen the Pump Station site.

C. Leach (Seepage beds) Field:

Question 1: Restoration of the leach field area north of Hedgerow lane is not specified or budgeted pm page 66 of the proposal. Page 83 of proposal)

Answer: Aqua will remove the top of the precast concrete siphon chambers, pump out the chambers, spray them with bleach (sodium hypochlorite) for disinfection, punch a few holes in the bottom of the tanks, fill them with soil and regrade the soil surface and revegetate with grass. PVC pipe cleanouts will be removed two (2) feet below grade and filled in. Disturbed areas will be graded and revegetated. Monitor wells will be abandoned and filled with concrete / bentonite mix 6 months after plant shut down as DEP requires. We have to sample for that period of time to get go-ahead from DEP for well abandonment.

D. Existing Treatment Plant Site:

Question 1: During the interim phase of this site having temporary pumps, what provision for odor remediation is planned? The treatment plant currently has an odor remediation system for effluent pumped into the treatment system tank. This is considered vital even in the interim period.

Answer: The same odor control as existing for the EQ and Effluent dosing chamber will be provided. This is on the same tank and the existing odor control system will continue to be used. Wastewater will be pumped into the Force Main running down Route 3 rather than into the Deerfield Plant treatment tankage.

Question 2: The plan calls for demolition of the plant but no detail regarding site finishing following demolition. (pages 82 and 83 of the proposal)

Answer: When new Pump Station on Cohasset Lane is activated the treatment tankage will be pumped out, disinfected, holes burned into the tank bottom, side walls burned off at least 2 feet below grade. Control building will be razed however electric meter will need to remain we believe. Goal would be to regrade and revegetate the area, so it doesn't look like a plant was there to start.

Question 3: What is the long-term plan regarding the current location of the Deerfield Knoll treatment plant. Will access and management of this site revert to Deerfield Knoll following demolition?

Answer: We believe so. Aqua envisions the area reverting to similar vegetation as exists adjacent to the treatment plant site aside from the need to maintain the existing electric service which may presently include an electrical transformer. Alternately the HOA could let it revert to what exists between Rt 3 and the homes themselves and the same in the disposal bed area or mow it as the HOA desires.

E. Sequence of work:

Question 1: The interim step may present a period of odorous operation while the cutover is executed. Could the new, repositioned, lift station be constructed complete for quick cut over and no interim pumping step? See above suggested scope modification.

Answer: Aqua doesn't believe it will be any different than today. We will pump up to the EQ Tank and pump out of the EQ into the force main heading toward Route 3 (instead of into the treatment process) and on to Willistown Woods WWTF. Aqua will still be operating the odor control at the Treatment Plant and at the Cohasset Pump Station. The new Pump Station will be completed for quick changeover from the existing Cohasset Pump Station to the new station. The new station will be completely constructed and tied into the existing force main as the last step. Aqua will confirm pump operation with new pumps and turn off the existing pump station pumps and demo the existing pump station wet well and valve vault site. Aqua will cap the sewer line heading toward the existing Pump Station and remove the temporary plug on the pipe in the manhole heading toward the new Pump Station wet well.

We trust the above satisfactorily addresses the HOA's comments and questions.

Very truly yours,



Mark J. Bubel, P.E.
Senior Project Engineer

xc: Sean Carney
Robert Campbell



Jim Stetson
 116 Hedgerow Lane
 West Chester, PA 19380
 Mobile: [REDACTED]

On Fri, Oct 17, 2025 at 5:30 PM Bubel, Mark J <MJBubel@aquaaamerica.com> wrote:

Absolutely Rick. I was involved in Deerfield including the on-site water system circa 1992 with Moore Environmental Management if Jim remembers that name

Best,
 Mark
 (M) 610-804-9537

-----Original Message-----

From: Rick Kiewel [REDACTED]
 Sent: Friday, October 17, 2025 5:25 PM
 To: Bubel, Mark J <MJBubel@aquaaamerica.com>; Jim Stetson [REDACTED]
 Subject: [EXTERNAL] Plan for Deerfield Knoll Wastewater plant shutdown

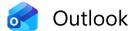
CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Mark:

Thanks for the advance copy of the plan to be submitted for the shutdown. I have forwarded a copy to Jim Stetson, who lives in our community and has offered to be our representative for the Knoll. Jim is an engineer, and ran our plant when it was privately run by us. We are currently reviewing your plan.

Thanks to the both of you and if you could keep me in the conversations I would most appreciate it. Here's to a successful project!

Rick



RE: [EXTERNAL] Plan for Deerfield Knoll Wastewater plant shutdown

From Bubel, Mark J <MJBubel@aquaaamerica.com>

Date Tue 2/3/2026 10:55 AM

To Jim Stetson [REDACTED]; Rick Kiewel [REDACTED]

Cc Adams, Blake <BAAdams@aquaaamerica.com>; Carney, Sean <SCarney@aquaaamerica.com>; [REDACTED]

Good morning Jim,
Please see my comments [below](#).

Thanks,
Mark

Mark J. Bubel, P.E.*
Aqua Pennsylvania Wastewater, Inc.
762 W. Lancaster Ave.
Bryn Mawr, PA 19010-3489
M: 610.804.9537
*PA, DE, MD, NC, FL

From: Jim Stetson [REDACTED]
Sent: Friday, October 24, 2025 6:22 PM
To: Bubel, Mark J <MJBubel@aquaaamerica.com>
Cc: Rick Kiewel [REDACTED]
Subject: Re: [EXTERNAL] Plan for Deerfield Knoll Wastewater plant shutdown

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mark,

I'm following up on Rick's introduction. I look forward to working with you on this project. **MJB: As do I Jim**

It sounds like you were involved with our plant before me. **MJB: I believe so 1992 ish timeframe Jim** I was the committee head for Sewer and Water in the community from 1999 to 2001. At that time we were not involved with Aqua, basically subcontracting to operators to run the plant. I also have good experience as a technology supplier to the municipal and industrial WWTP spaces, mainly in air pollution control, agitation, strainers, and filtration. **MJB: got it** I know the terms and basic technology and not an expert. I was involved with the plant again a few years ago when the two biofilters were installed to remediate odor issues. **MJB: yes – one at the plant site and one at the PS**

I'm preparing for a community meeting to explain what is happening and when. As you can guess, the interest will be significant.

The following is a list of topics I'd like to discuss one day in the week ahead. Please let me know a good time for a call. I'm pretty open other than Tuesday AM and afternoon on Friday.

A. Project Scope:

1. There is no mention of Cratin Lane (Dutton Mill north of Deerfield Knoll) or adjacent Veritable (Rt 3 east of Deerfield Knoll) connection. **MJB: correct. Cratin Lane may be tied into the force main at some point in the future as will Plumsock to the east however we did not wish to complicate matters with the Act 537 Planning needed for Deerfield as we have greater concern for Deerfield's tankage. Deerfield HOA years back did not want another system (Cratin Lane) tied into the Deerfield system which would be taking away some treatment as well as subsurface effluent disposal capacity. Cratin Lane would likely tie into the proposed force main for Deerfield (as well as Plumsock) at Dutton Mill Road. Is there any intention now or in future to tie in these requirements with the work being done in Deerfield Knoll? Page 15 of the proposal. MJB: We are taking a look at force main size and pump models for Deerfield as well as Plumsock systems to ensure they work well together. We do have experience with multiple pumps tied into a common force main.**
2. The project involves a significant upgrade of the Cohasset Lane Lift Station. **MJB: replacement of it actually.** Further description of the size, scope, and plan is needed. **MJB: We will be able to provide this when full design is undertaken** Due increased size and potential odor and noise, it is suggested to move the pumping station further from homes but still in the existing open area. Page 15 of the proposal. **MJB: exactly as we are thinking Jim. MJB: In fact we would like to do a boring in the general open space area where I show the red arrow below on pic snip. We are working on a pump station upgrade at Plumsock and will be doing a soil boring for the relocated PS at Plumsock too. We would like to kill 2 birds with one stone and do a boring to check presence or absence of rock to an approximate depth for the wet well.**
3. Paragraph N Milestones, page 68 of the proposal, needs to include phases involving new Cohasset station **MJB: We will address in the 30-day public comment period which the Twp. authorized at the BOS meeting; likely published within the next week or so to start the 30-day public notice period and Hedgerow Lane leach field decommissioning. MJB: same comment as Cohasset in response to 30-day public notice**
4. Project narrative proposes to operate an interim approach pumping up to the Deerfield Knoll existing station for second stage pumping to Willistown Woods WWTP (proposal page 15.) **MJB: correct – within existing EQ chamber as that will be faster than waiting for Cohasset PS replacement and permitting** The project also calls for a 'new' or 'upgraded' Cohasset Lane Lift Station. Why not build the new station first and skip the interim step? Page 18 of the proposal. **MJB: due to the time it will take to complete the formal design, DEP Permitting, ordering of the pumps and generator needed and our concern for the existing WWTF tankage being further damaged.**

B. Cohasset Lane Lift Station:

1. Increased size for larger pumps is a concern due to proximity to residences. More noise, more visible, and potentially more odor. **MJB: noise from the pumps themselves is unlikely as much as noise from the odor control unit (hum of the fan) which may be just moved from the existing wet well to the new wet well. See scope suggestion above.**
2. Consider moving further from homes as mentioned above. **MJB: absolutely agree.**
3. Specify and budget for odor remediation in future lift station, page 66 of the proposal. **MJB: we believe the 55 gallon carbon odor unit we have will work however if odor becomes an issue we will provide a bigger one. To be honest sewer odor doesn't generally form in gravity sewer pipe as much as a force main from a PS. The existing FM has caused odors over the years until we added the odor unit at the plant and covered the tank. We will still provide odor control for the new PS either way rest assured – Blake Adams would not have it any other way.**
4. Specify and budget noise abatement, page 66 of the proposal. **MJB: as mentioned above but we can also address in comments of the 30-day public comment period as DEP will require when published in the Daily Local.**
5. Maintenance of power to this pumping station has been an environmental concern in the past. Continuous and back up power to this station will be increasingly important in the new configuration. Specifically specifying this is suggested. Page 82 of proposal **MJB: the underground power supply will likely continue to be provided from the power source up at the WWTF site where 3-phase power exists (but not in the development proper). We will be adding a new likely Onan Quite Site II back up generator at the PS site with landscaping around the chain link fenced in area with vinyl inserts in the chain link until the likely Leyland Cypress trees I am contemplating get large enough to fully screen the PS site.**

C. Leach (Seepage beds) field:

1. Restoration of the leach field area north of Hedgerow lane is not specified or budgeted pm page 66 of the proposal. Page 83 of proposal) **MJB: What I said in the BOS meeting was that we would remove the top of the precast concrete siphon chambers, pump out the chambers, spray them with bleach (sodium hypochlorite), punch a few holes in the bottom of the tanks, fill them with soil and regrade the soil surface and revegetate with grass. This can be added in public comments as well. Monitor wells will be abandoned and filled with concrete / bentonite mix 6 months after plan shut down as DEP requires. We have to sample for that period of time to get go-ahead from DEP.**

D. Existing Treatment Plant Site:

1. During the interim phase of this site having temporary pumps, what provision for odor remediation is planned? **MJB: same as existing Jim** The treatment plant currently has an odor remediation system for effluent pumped into the treatment system tank. This is considered vital even in the interim period. **MJB: the EQ and Effluent dosing chamber is on the same tank and the existing odor control system will continue to be used. WW will be pumped into the FM down Rt 3 rather than the plant.**
2. The plan calls for demolition of the plant but no detail regarding site finishing following demolition. (pages 82 and 83 of the proposal) **MJB: When new PS is activated near Cohasset the tackage will be pumped out, disinfected, holes burned into the tank bottom, side walls burned off at least 2 feet below grade. Control building will be razed however electric meter will need to remain I believe. Goal would be to regrade and revegetate the area so it doesn't look like a plant was there to start.**
3. What is the long term plan regarding the current location of the Deerfield Knoll treatment plant. **MJB: see above** Will access and management of this site revert to Deerfield Knoll following demolition? **MJB: I believe so. Jim – you could let it vert to what exists between Rt 3 and the homes themselves and the same in the disposal bed area or mow it as the HOA desires.**

Sequence of work:

1. The interim step may present a period of odorous operation while the cutover is executed. **MJB: it will be no different than today Jim – pump up to the EQ and pump out of the EQ into the force main heading toward Route 3 (instead of into the treatment process). We will still be operating the odor control at the WWTF and at Cohasset PS. Could the new, repositioned, lift station be constructed complete for quick cut over and no interim pumping step? MJB: yes – exactly how it would be done. Completely constructed and tied into the existing FM as the last step. Confirm pump operation with new pumps and turn off the existing pumps and demo the existing PS wet well and valve vault site. Cap sewer line heading toward existing PS and remove temp plug on pipe cut into thus MH heading toward new PS wet well. See above suggested scope modification.**

I look forward to confirming a time and date for the discussion. **MJB: Jim – if you would like to have a call after reviewing the above we can definitely set that up.**

MJB: Boring location I am proposing as we would be just looking for the presence or absence of rock in the general area:

SECTION R.
RESOLUTION OF ADOPTION

**THE BOARD OF SUPERVISORS
WILLISTOWN TOWNSHIP,
CHESTER COUNTY, PENNSYLVANIA**

RESOLUTION NO. 9 OF 2026

**A RESOLUTION FOR MINOR ACT 537 UPDATE PLAN REVISION
SPECIAL STUDY FOR THE DECOMMISSIONING OF THE DEERFIELD
KNOLL WASTEWATER TREATMENT PLANT**

WHEREAS, Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act," as amended, and the Rules and Regulations of the Department of Environmental Protection (DEP) adopted there under, Chapter 71 of Title 25 of the Pennsylvania Code, requires the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to meet the sewage disposal needs of the municipality, and

WHEREAS, the Township's current Act 537 Plan addresses sewage facilities planning for the south western portion of the Township in an area entitled the Chesterdale Service Area, and;

WHEREAS, the Deerfield Knoll Residential Community, consisting of 125 single-family residential dwelling units, is located within the Chesterdale Service Area, and whose associated sewage flows are currently being treated by the Deerfield Knoll Wastewater Treatment Plant, which is owned and operated by Aqua Pennsylvania Wastewater Inc., and;

WHEREAS, Pennoni Associates Inc., at the request of Aqua Pennsylvania Wastewater Inc., has prepared an Act 537 Special Study for the Decommissioning of the Deerfield Knoll Wastewater Treatment Plant, which provides a sewage disposal alternative for the decommissioning of the existing treatment plant, and for the connection of these associated sewage flows to a separate treatment plant, known as the Willistown Woods Wastewater Treatment Plant, which is also owned and operated by Aqua Pennsylvania Wastewater Inc., and;

WHEREAS, the Act 537 Special Study for the Decommissioning of the Deerfield Knoll Wastewater Treatment Plant has demonstrated that there exists adequate capacity for the connection of these 125 single-family residential dwelling units at the Willistown Woods Wastewater Treatment Plant, which will create an additional estimated 9,700 gallons per day (GPD), and;

WHEREAS, the decommissioned Deerfield Knoll Wastewater Treatment Plant will be converted into the Deerfield Knoll Sewer Pumping Station which will convey these sewer flows to the Willistown Woods Wastewater Treatment Plant, and;

WHEREAS, Aqua Pennsylvania Wastewater Inc. will be enacting this alternative including planning approval, permit approval, and related construction activities to be consistent with the project implementation schedule outlined in this Special Study, and;

WHEREAS, the Township finds that the Act 537 Special Study for the Decommissioning of the Deerfield Knoll Wastewater Treatment Plant conforms to the applicable sewage related zoning, subdivision, and other municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the Board of Supervisors of Willistown Township, Chester County, Pennsylvania, hereby adopts and submits to DEP for its approval as a revision to the "Official Plan" of the municipality, the above referenced Act 537 Special Study. The municipality hereby assures DEP of the complete and timely implementation of the said plan as required by law (Section 5, Pennsylvania Sewage Facilities Act, as amended).

RESOLVED AND ADOPTED THIS 23rd DAY OF FEBRUARY 2026.

3.0 SEWAGE TREATMENT FACILITY
CLOSURE PLAN

SEWAGE TREATMENT FACILITY CLOSURE PLAN

**FOR THE
DEERFIELD KNOLL WASTEWATER TREATMENT PLANT
WATER QUALITY PERMIT NO. 1586408
WILLISTOWN TOWNSHIP, CHESTER COUNTY**

**FOR SUBMISSION TO
PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**ON BEHALF OF
AQUA PENNSYLVANIA WASTEWATER, INC.
762 LANCASTER AVE
BRYN MAWR, PA 19010**

JULY 2025

Pennoni

1900 Market Street, Suite 300
Philadelphia, PA 19104
www.pennoni.com

Robert Campbell, PE
License No. PE-055701

DEERFIELD KNOLL WASTEWATER TREATMENT PLANT
SEWAGE TREATMENT FACILITY CLOSURE PLAN

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Project Description	1
2.0	DEERFIELD KNOLL WWTP DESIGN COMPONENTS.....	1
2.1	Cohasset Lift Station.....	1
2.2	Inluent Surge Tank.....	1
2.3	Treatment Tank.....	2
2.4	Chlorination Basin	2
2.5	Stream Discharge.....	2

1.0 INTRODUCTION

1.1 Project Description

The proposed project will divert the existing domestic sewage from Aqua's Deerfield Knoll Wastewater Treatment Plan (WWTP) to the existing Willistown Woods WWTP. The facilities associated with the wastewater treatment process will be abandoned, and Water Quality Management (WQM) permit will be canceled. A new pumping station and a new force main will be constructed to redirect wastewater to the existing Willistown Woods WWTP.

The Deerfield Knoll WWTP was constructed in 1986 for the Deerfield Knoll development. The facility operates under WQM Permit No. 1586408 under Aqua Pennsylvania Wastewater.

The Deerfield Knoll WWTP consists of an influent surge tank, a treatment tank, and a chlorination basin. The treatment tank consists of sequential anoxic, aerobic, anoxic, aerobic, and clarification zones. Following disinfection, effluent is pumped into seepage beds.

The current permit has an expiration date of December 31, 2029. The facility discharges treated wastewater to a three (3) effluent disposal seepage beds. The WWTP is permitted for an average daily flow of 25,000 gpd.

The project will comply with all requirements set out in the Department's Sewage Treatment Facility Closure documentation, including but not limited to de-energizing and securing the site.

2.0 DEERFIELD KNOLL WWTP DESIGN COMPONENTS

2.1 Cohasset Lift Station

The existing lift station is located within the Deerfield Knoll development and receives wastewater flow from the existing 119 residential units. The lift station will remain in service to convey flow to the Deerfield Knoll WWTP site.

2.2 Influent Surge Tank

Wastewater is transferred from the influent pump station to an equalization tank. During project design, this tank will be evaluated for conversion to a pump station. The pump station will then convey the Deerfield Knoll WWTP influent to the Willistown Woods WWTP. If the influent tank is not suitable for conversion, a new pump station structure will be built on the grounds of the existing WWTP.

2.3 Treatment Tank

Wastewater enters the existing treatment train. Consisting of anoxic and aerobic zones which facilitate treatment. Flow continues to a clarifier and seepage beds. Upon commissioning of the pump station and force main, this structure will be disinfected, decommissioned, and demolished.

2.4 Chlorination Basin

From the clarifier the discharge drains by gravity to the chlorine dosing tank. Chlorine is added at the head of the tank for chlorine contact time before being discharged to the seepage beds. The control room, and chlorine feed system will be abandoned, and removed from the site. Chlorine storage tanks will be removed from the site and legally disposed of. Upon commissioning of the pump station and force main, this structure will be disinfected, decommissioned, and demolished.

2.5 Subsurface Discharge Beds

The subsurface discharge beds will be abandoned in place. Existing pressure dose cleanout piping which is present at the surface will be cut off below grade. Existing siphon chambers will be disinfected and demolished at the surface and filled in.



*Board of Supervisors of Willistown Township
Chester County*

688 Sugartown Road, Malvern, PA 19355
Phone: 610.647.5300 Fax: 610.647.8156

DATE: February 18, 2026

TO: Shanna Lodge, Township Manager

FROM: Bill Hagan Jr, Director of Public Works

RE: Trailer Replacement Revised: Purchase of a BWISE 18' Hydraulic Tilt Trailer

The Public Works Department is seeking authorization to purchase a BWISE 18' Hydraulic Tilt Trailer from TP Trailers. At the February 9, 2026 BOS meeting the Board of Supervisors approved the purchase of a Belmont SSTS18-14K 18' Tilt Deck Trailer from TP Trailers to replace our current 2002 Tow Master Trailer. When the vendor went to place the order, they were informed they trailer that was quoted was to be discontinued in 2026. To ensure parts availability for repairs moving forward, we have decided to pursue the BWISE 18' Hydraulic Tilt Trailer from a different manufacturer. This trailer is less expensive and offers a hydraulic powered tilt function the other trailer did not. The following is the quoted price:

TP Trailers	COSTARS Contract No. 025-E22-470	\$9,656.24
-------------	----------------------------------	------------

This trailer will be utilized to haul material and equipment as needed for infrastructure improvements throughout Willistown Township. TP Trailers has also confirmed in writing the cancellation of the Purchase Order created for the original Belmont SSTS Trailer.



*** QUOTE ***
703 W RIDGE PIKE
LIMERICK PA 19468

PAGE #	1
QUOTE #	703032
QUOTE DATE:	ASAP

610-495-4530 Phone | mainoffice@tptrailersinc.com | 610-495-4542 Fax

BILL TO: WIL017 WILLISTOWN TOWNSHIP 688 SUGARTOWN ROAD MALVERN, PA 19355	SHIP TO: WILLISTOWN TOWNSHIP 688 SUGARTOWN ROAD MALVERN, PA 19355
--	---

ORDER DATE	PURCHASE ORDER	SALES REP	UNIT ID	LICENSE	MILEAGE
02/09/26	NEW TRAILER	13	BWISE 18' HYDR. TILT TRAILER		
QTY ORDERED	ITEM / SERVICE NUMBER	DESCRIPTION		UNIT PRICE	EXTENDED PRICE
QTY SHIPPED					

1	HT18-14	BWISE 18' HYD TILT TRL	9,656.24	9,656.24
1		14,000# GVWR (REG @ 9990# GVWR)		

6" TUBE FRAME
FULL TILT
POWER UP/GRAVITY DOWN
8K SIDE WIND JACK
PRESS. TREATED FLOOR
LOCK. BATTTERY BOX
GROUP 24 BATTER
WINCH MOUNT (NO WINCH)
RADIAL TIRES/STEEL WHEELS
7K AXLES, ELECTRIC BRAKES

4" HYDRAULIC CYLINDER
SLIPPER SPRING SUSPENSION
SELF ADJUST BRAKES
(6) D-RINGS
COLOR: RED

TP TRAILERS INC
COSTARS # 025-E22-
470

ALL PRICES ARE
QUOTED CASH OR CHECK

SIGNATURE OF RECEIPT: _____	PARTS	
	LABOR	
PRINTED SIGNATURE: _____	DISCOUNTS	
	MISC. CHGS	
<small>ALL DEPOSITS NON-REFUNDABLE ALL SALES FINAL RECEIPT REQUIRED FOR CREDIT NO CREDIT AFTER 30 DAYS ANY SPECIAL ORDER OR ELECTRONIC PARTS AND COMPONENTS ARE NON-RETURNABLE AND NON-REFUNDABLE RETURNED PARTS ARE SUBJECT TO A 15% RESTOCKING FEE 1.5% FINANCE CHARGES APPLICABLE ON ALL PAST DUE INVOICES</small>	SUBTOTAL	
	TAX	
	FREIGHT	
	PREV. DEPOSITS	
	INVOICE TOTAL	
	DEP/PMT	
	BALANCE DUE	



*** QUOTE ***
703 W RIDGE PIKE
LIMERICK PA 19468

PAGE #	2
QUOTE #	703032
QUOTE DATE:	ASAP

610-495-4530 Phone | mainoffice@tptrailersinc.com | 610-495-4542 Fax

BILL TO: WIL017 WILLISTOWN TOWNSHIP 688 SUGARTOWN ROAD MALVERN, PA 19355	SHIP TO: WILLISTOWN TOWNSHIP 688 SUGARTOWN ROAD MALVERN, PA 19355
--	---

ORDER DATE	PURCHASE ORDER	SALES REP	UNIT ID	LICENSE	MILEAGE
02/09/26	NEW TRAILER	13	BWISE 18' HYDR.	TILT TRAILER	
QTY ORDERED	ITEM / SERVICE NUMBER	DESCRIPTION		UNIT PRICE	EXTENDED PRICE
QTY SHIPPED					

ONLY. ANY PURCHASE USING A CREDIT CARD WILL BE SUBJECT TO A 3% SERVICE FEE.

The rates provided in this quote are valid for 15 days beyond the dated provision of the quote. Prices may be revised based on the final scope of services & applicable taxes or fees. This quote does not constitute a binding agreement

Any adjustments made to the quote will be communicated prior to finalizing the agreement. All services are subject to the terms and conditions outlined in the final agreement.

MUNICIPAL TAGS NO CHARGE

PARTS	9,656.24
LABOR	0.00
DISCOUNTS	0.00
MISC. CHGS	0.00
SUBTOTAL	9,656.24
TAX	0.00
FREIGHT	0.00
PREV. DEPOSITS	
INVOICE TOTAL	9,656.24
DEP/PMT	0.00
BALANCE DUE	9,656.24

SIGNATURE OF RECEIPT: _____
PRINTED SIGNATURE: _____
ALL DEPOSITS NON-REFUNDABLE ALL SALES FINAL RECEIPT REQUIRED FOR CREDIT NO CREDIT AFTER 30 DAYS ANY SPECIAL ORDER OR ELECTRONIC PARTS AND COMPONENTS ARE NON-RETURNABLE AND NON-REFUNDABLE RETURNED PARTS ARE SUBJECT TO A 15% RESTOCKING FEE 1.5% FINANCE CHARGES APPLICABLE ON ALL PAST DUE INVOICES



*Board of Supervisors of Willistown Township
Chester County*

688 Sugartown Road, Malvern, PA 19355
Phone: 610.647.5300 Fax: 610.647.8156

DATE: February 17, 2026

TO: Shanna Lodge, Township Manager

FROM: Bill Hagan Jr, Director of Public Works

RE: Purchase of a Hathorn H12+ Camera System and Reel

The Public Works Department is seeking authorization to purchase a Hathorn H12+ Camera System and Reel for \$12,067.60. This purchase will be made through Tri State Environmental Services LLC via Costars Contract #016-E23-294. The following is the cost breakdown and brief description of the equipment.

ITEM	DESCRIPTION	QTY	RATE	AMOUNT
H12+	H12+ controller with 12.1" daylight readable LCD screen, 128Gb HDD (upgradable to 512Gb), HDD & USB video recording and screen shot, multi language menus, full sized keyboard with Hathorn Info Bar, adjustable camera head lighting, 512Hz & 640Hz sonde, 8x zoom, and footage counter. Powered by external 18V Milwaukee battery (not included) or AC/DC adapter.	1	4,350.00	4,350.00
WIFI OPTION	ADD WIFI to H12+ Controller	1	500.00	500.00
PC-CR12	Patch Cables 12 pin to 12 Pin	1	350.00	350.00
LR-2143-SL	Hathorn 200ft. Large reel with 1/2" premium spiral wound push rod, 1.43" self levelling camera, 512hz sonde and 8" wheels. 18V Milwaukee battery compatible. Battery sold separately. Tightest 90 Degree Elbow 3", Largest Pipe Lit Well 12"	1	6,700.00	6,700.00
SK-143GR	Skid 3" Grooved - 1.43" Self Leveling Camera	1	180.00	180.00
COSTARS DISCOUNT	COSTARS DISCOUNT Contract 016-E23-294	1	-362.40	-362.40
SHIPPING	SHIPPING	1	350.00	350.00
TOTAL				\$12,067.60

Product cut sheets will also be included as supplemental documentation to this memo. This equipment will allow us to inspect/ diagnose issues and infiltration within the lateral connections to our sewer main.

CAMERA SYSTEM

Hathorn® H12+

The Hathorn® H12+ is in a class of its own with the brightest daylight-readable 12" LCD screen in the industry. It has almost three times the brightness of the leading brand providing stunning picture quality, high contrast and 8X digital "pan & zoom" technology revealing details missed by other pipe inspection cameras.

Available with Wi-Fi as an option, the H12+ has menus in three languages (English, French and Spanish), compatibility with all Hathorn reels past, present and future from 100- 600ft., unique on-screen job information bar and text overlay features, two sonde frequencies (512Hz & 640Hz) and industry-leading on-board file storage.

The H12+ comes standard with a 128Gb hard drive which is upgradeable to 512Gb allowing the user to save MPEG videos and JPEG screen shots to either the HDD or to a USB stick. Powered by 18V Milwaukee® (or equivalent) batteries, the H12+ will run for over 4 hours on a single charge. Batteries sold separately.



Light Weight
9.5 lbs/4.5 kg



Screen Shot
Function



Internal
Hard Drive
128GB or 512GB



Works with 18V
Milwaukee® or
Equivalent Batteries*



Full Size
Keyboard



Daylight
Readable
Display



Record to
USB & HDD



Hathorn
Info Bar



Camera LED
Light Control



Industry-
Leading
Warranty

* Battery: Milwaukee 18V is default, other brand 18V batteries can be used with adaptors.



HATHORN® H12+

CAMERA SYSTEM

SPECIFICATIONS

Display

Size & Display	12" (30.7 cm) impact-resistant LCD
Resolution & Brightness	XGA 1024 × 768 pixels with 1,300 cd/m ²
Zoom	1X, 2X, 4X, 8X with digital zoom feature

Recording, Storage & Features

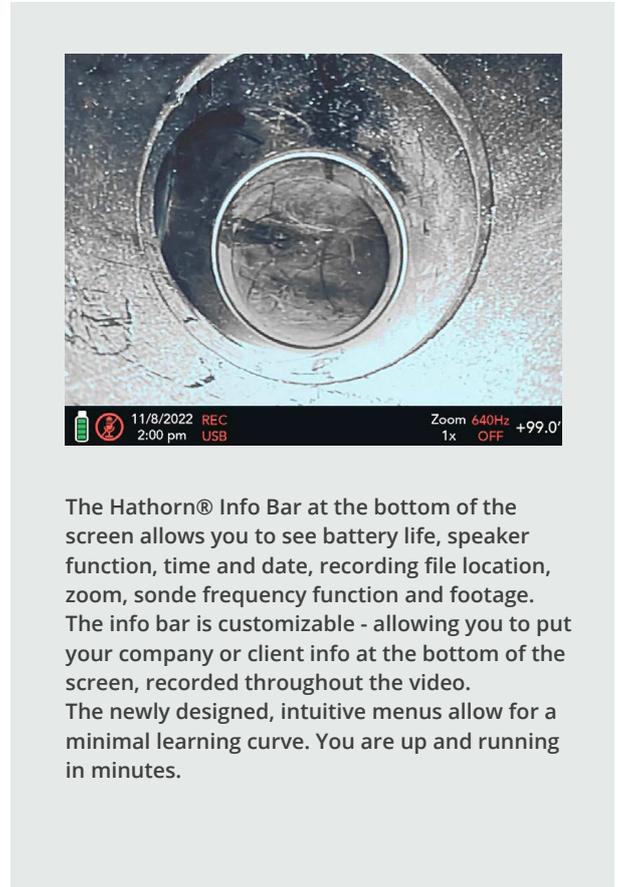
Recording Options	MPEG4 video (H.264 at 30 fps) & JPEG screenshot
Storage Options	USB, HDD or USB & HDD
USB Capacity	USB 2.0 up to 32Gb
Hard Drive Capacity	128Gb (standard) or 512Gb (upgrade)
Keyboard	Full-sized QWERTY with silicone cover
Camera Head LED	Dimming control 5% increments
Hathorn Info Bar	74 characters over 2 lines with time/date
Text Overlay	English, Spanish, French
Menu Languages	Integrated microphone and speaker
Footage Counter	Feet or meters with reset function
Sonde Frequencies	High power 512Hz or 640Hz
Reel Compatibility	All Hathorn reels (except Wi-Fi)

Power

Battery (not incl.)	Only Milwaukee® M18 18V or equivalent*
Battery Life	-4Hrs. using 3.0Ah
Battery Extender	Auto dimming & auto saving
AC/DC Adapter	12V - 4.1A (included)

Weight & Dimensions

Weight without Battery	9.5 lb (4.3 Kg)
Dimensions (L x W x H)	15" × 12" × 5.5" (38 cm × 30 cm × 14 cm)



The Hathorn® Info Bar at the bottom of the screen allows you to see battery life, speaker function, time and date, recording file location, zoom, sonde frequency function and footage. The info bar is customizable - allowing you to put your company or client info at the bottom of the screen, recorded throughout the video. The newly designed, intuitive menus allow for a minimal learning curve. You are up and running in minutes.

Environmental

Operating Temperature	14°F to 122°F (-10°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)

CAMERA REELS

Hathorn® Standard Reels

Hathorn® camera reels are designed to work with any Hathorn control module, past present or future. These rugged and durable camera reels come fitted with your choice of Hathorn self-levelling camera heads, all equipped with superbright, cool running LEDs for optimal picture quality.

Butt-welded steel frame construction, stainless steel camera heads and your choice of cable size allow you to push further than ever before and remain in the field longer with Hathorn's legendary reliability.

Hathorn camera reels are trusted by plumbers, municipalities, generalcontractors, home inspectors, petrochemical companies, and mining engineers to deliver a clear, recordable video inspection every time the camera is used.

Our camera reels ship with a full one-year warranty.



To be paired with Hathorn H12+ Controller



Self-Levelling Camera Heads



200 ft of Push Rod



512 Hz or 640 Hz High Power Sonde



Industry-Leading Warranty

* Battery: Milwaukee 18V is default, other brand 18V batteries can be used with adaptors.



HATHORN® STANDARD REELS

CAMERA REELS

SPECIFICATIONS

Display

Size & Display Compatible with all Hathorn control modules. H12+ recommended for best picture and options

Features

Sonde Frequency High power 512Hz or 640Hz (available only with H12+ controller)

Push Rod HDPE push rod with fiberglass - multiple lengths and thicknesses

Weights & Dimensions

Weight See specific item in list to the right

Dimensions (L x W x H) See specific item in list to the right

Environmental

Operating Temperature 14°F to 122°F (-10°C to 50°C)

Storage Temperature 4°F to 140°F (-20°C to 60°C)

LARGE

Catalog #	Camera Head	Self Leveling	Rod Length	Rod Size	Min. 90° Elbow	Weight	Max Pipe	Dimensions
LR-4143-SL	1.43"	✓	400 ft	1/2"	3"	65 lbs.	10"	33" x 29" x 16"
LR-3143-SL	1.43"	✓	300 ft	1/2"	3"	55 lbs.	10"	33" x 29" x 16"
LR-2143-SL	1.43"	✓	200 ft	1/2"	3"	45 lbs.	10"	33" x 29" x 16"

MID

Catalog #	Camera Head	Self Leveling	Rod Length	Rod Size	Min. 90° Elbow	Weight	Max Pipe	Dimensions
MR-2143-SL	1.43"	✓	200 ft	1/2"	3"	42 lbs.	10"	29" x 18" x 15"
MR-2123-SL	1.23"	✓	200 ft	0.400"	2"	42 lbs.	6"	29" x 18" x 15"

MINI

Catalog #	Camera Head	Self Leveling	Rod Length	Rod Size	Min. 90° Elbow	Weight	Max Pipe	Dimensions
MN-2123-SL	1.23"	✓	200 ft	3/8"	2"	33 lbs.	6"	24" x 18" x 10"
MN-2100	1"	✗	200 ft	3/8"	2"	33 lbs.	4"	24" x 18" x 10"



CH-1SV
1" Straight View stainless steel camera head



CH-123SL
1.23" Self-Leveling stainless steel camera head



CH-143SL
1.43" Self-Leveling stainless steel camera head



*Board of Supervisors of Willistown Township
Chester County*

688 Sugartown Road, Malvern, PA 19355
Phone: 610.647.5300 Fax: 610.647.8156

DATE: February 18, 2026

TO: Shanna Lodge, Township Manager

FROM: Bill Hagan Jr, Director of Public Works

RE: 2026 Emergent Sewer Repairs Award to Doli Construction Corp for \$292,907.00

In late 2025 the Township wide sewer televising project uncovered an emergent sewer condition affecting the Clearview and Rambling Rd area. Although the pipe is not currently collapsed, it was determined this was emergent and on the verge of complete failure. In order to save time and money we decided to approach COSTARS contractors to request proposals for the replacement work.

Carroll Engineering reviewed the COSTARS proposals received by the Township on February 17, 2026, for the Contract. A Tabulation of COSTARS Proposals is included with this memo. DOLI Construction Corporation of Chalfont, PA, is the apparent low bidder with a proposal of \$292,907.00.

To see side by side to a traditional public bid, we compared DOLI's unit pricing to the bid pricing for the publicly bid 2025 Sewer Repairs project and found it slightly lower than the bid pricing. In the proposal for the 2026 Sewer Repairs, DOLI's sewer main replacement unit prices range from \$104 to \$255 per foot, depending on the depth class and backfill requirements. For the same depth and fill material range, the 2025 Sewer Repair unit prices ranged from \$180 to \$303. With the results of this comparison, we are confident in awarding this contract in the best financial interest of the Township. We recommend awarding the project to DOLI under their COSTARS contract number 041-E25-040



February 18, 2026

Shanna Lodge, Manager
Willistown Township
688 Sugartown Road
Malvern, PA 19355

Dear Shanna:

Subject: 2026 Sanitary Sewer Repairs – Clearview Road Sewer Replacement, Contract 26-S1

This office has reviewed the COSTARS proposals received by the Township on February 17, 2026, for the above subject Contract. A Tabulation of COSTARS Proposals is enclosed.

DOLI Construction Corporation of Chalfont, PA, is the apparent low bidder with a proposal of \$292,907.00. We compared DOLI's unit pricing to the bid pricing for the publicly bid 2025 Sewer Repairs project and found it slightly lower than the bid pricing. In the proposal for the 2026 Sewer Repairs, DOLI's sewer main replacement unit prices range from \$104 to \$255 per foot, depending on the depth class and backfill requirements. For the same depth and fill material range, the 2025 Sewer Repair unit prices ranged from \$180 to \$303.

We recommend awarding the project to DOLI under their COSTARS contract number 041-E25-040.

If you have any questions or require additional information, please feel free to contact me.

Very truly yours,

CARROLL ENGINEERING CORPORATION

A handwritten signature in blue ink that reads 'Mark Yoder'.

Mark Yoder

MTY:cam

Enclosure

cc: William N. Malin, P.E., Senior Vice President, CEC (w/Enclosure)

Today's Commitment to Tomorrow's Challenges

Corporate Office: 949 Easton Road Warrington, PA 18976 215.343.5700	630 Freedom Business Center Third Floor King of Prussia, PA 19406 610.572.7093	433 Lancaster Avenue Suite 200 Malvern, PA 19355 610.489.5100	101 Larry Holmes Drive Suite 201 Easton, PA 18042 610.989.4940	105 Raider Boulevard Suite 206 Hillsborough, NJ 08844 908.874.7500
--	---	--	---	---

www.carrollengineering.com

Tabulation of COSTARS Proposals
2026 Sanitary Sewer Repairs - Clearview Road Sewer Replacement
Contract 26-S1
Proposals Received: February 17, 2026
4 Proposals Received

DOLI Construction Corporation 120 Independence Ln Chalfont, PA 18914 215-997-8026	Wexcon, Inc. 379 Tilden Road Mohrsville, PA 19541 610-488-7420	Joao & Bradley Construction Co., Inc. 4211 Tracy Ln Bethlehem, PA 18020 610-867-1500	Blooming Glen Contractors, Inc. 901 Minsi Trail Perkasie, PA 18944 215-257-9400
--	---	--	---

ITEM NO.	ITEM DESCRIPTION	UNITS	QTY	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	
1	Replace existing 8" ACP with 8" SDR-26 PVC w/suitable fill, 6'-8' deep, complete in place	LF	163	\$104.00	\$16,952.00	\$105.00	\$17,115.00	\$188.00	\$30,644.00	\$431.00	\$70,253.00	
2	Replace existing 8" ACP with 8" SDR-26 PVC w/suitable fill, 8' - 10' deep, complete in place	LF	163	\$109.00	\$17,767.00	\$112.00	\$18,256.00	\$225.00	\$36,675.00	\$518.00	\$84,434.00	
3	Replace existing 8" ACP with 8" SDR-26 PVC w/suitable fill, 10' - 12' deep, complete in place	LF	20	\$110.00	\$2,200.00	\$137.00	\$2,740.00	\$258.00	\$5,160.00	\$707.00	\$14,140.00	
4	Replace existing 8" ACP with 8" SDR-26 PVC w/suitable fill, more than 12' deep, complete in place	LF	12	\$127.00	\$1,524.00	\$162.00	\$1,944.00	\$312.00	\$3,744.00	\$821.00	\$9,852.00	
5	Replace existing 8" ACP with 8" SDR-26 PVC w/2A stone fill, 6' - 8' deep, complete in place	LF	327	\$174.00	\$56,898.00	\$182.00	\$59,514.00	\$226.00	\$73,902.00	\$430.00	\$140,610.00	
6	Replace existing 8" ACP with 8" SDR-26 PVC w/2A stone fill, 8' - 10' deep, complete in place	LF	146	\$200.00	\$29,200.00	\$215.00	\$31,390.00	\$270.00	\$39,420.00	\$509.00	\$74,314.00	
7	Replace existing 8" ACP with 8" SDR-26 PVC w/2A stone fill, 10' - 12' deep, complete in place	LF	84	\$255.00	\$21,420.00	\$305.00	\$25,620.00	\$315.00	\$26,460.00	\$532.00	\$44,688.00	
8	Replace existing 4" LPSS with 4" SDR-21 PVC, complete in place	LF	5	\$376.00	\$1,880.00	\$320.00	\$1,600.00	\$325.00	\$1,625.00	\$485.00	\$2,425.00	
9	Replace existing 2" LPSS with 2" SDR-21 PVC, complete in place	LF	5	\$351.00	\$1,755.00	\$300.00	\$1,500.00	\$318.00	\$1,590.00	\$453.00	\$2,265.00	
10	Replace existing sanitary, manhole 3-52, complete in place	EA	1	\$15,000.00	\$15,000.00	\$20,500.00	\$20,500.00	\$20,000.00	\$20,000.00	\$21,051.00	\$21,051.00	
11	Relocate existing lateral with 6" SDR-26 PVC, complete in place	LF	17	\$225.00	\$3,825.00	\$430.00	\$7,310.00	\$335.00	\$5,695.00	\$613.00	\$10,421.00	
12	Replace existing lateral with 6" SDR-26 PVC, complete in place	LF	43	\$210.00	\$9,030.00	\$465.00	\$19,995.00	\$335.00	\$14,405.00	\$924.00	\$39,732.00	
13	Connection to existing 2" LPSS, complete in place	EA	1	\$3,000.00	\$3,000.00	\$4,300.00	\$4,300.00	\$3,400.00	\$3,400.00	\$1,692.00	\$1,692.00	
14	Connection to existing 4" LPSS, complete in place	EA	1	\$3,000.00	\$3,000.00	\$4,725.00	\$4,725.00	\$3,450.00	\$3,450.00	\$1,964.00	\$1,964.00	
15	Connection to existing gravity sewer main, complete in place	EA	2	\$3,200.00	\$6,400.00	\$1,550.00	\$3,100.00	\$3,600.00	\$7,200.00	\$7,673.00	\$15,346.00	
16	Connection to existing manholes, complete in place	EA	10	\$1,250.00	\$12,500.00	\$2,000.00	\$20,000.00	\$3,750.00	\$37,500.00	\$3,338.00	\$33,380.00	
17	Temporary paving restoration	LF	620	\$5.00	\$3,100.00	\$10.00	\$6,200.00	\$8.00	\$4,960.00	\$36.00	\$22,320.00	
18	Permanent base and binder restoration in Township Roads and driveways	LF	620	\$45.00	\$27,900.00	\$82.00	\$50,840.00	\$92.00	\$57,040.00	\$103.00	\$63,860.00	
19	Full width mill and overlay in Township Roads and driveways	SY	1,705	\$15.00	\$25,575.00	\$25.00	\$42,625.00	\$22.00	\$37,510.00	\$21.00	\$35,805.00	
20	Stream crossings, complete in place	LS	1	\$15,000.00	\$15,000.00	\$17,150.00	\$17,150.00	\$22,000.00	\$22,000.00	\$8,124.00	\$8,124.00	
21	Finish, grade, and seed, complete in place	LF	368	\$2.00	\$736.00	\$10.00	\$3,680.00	\$22.00	\$8,096.00	\$10.00	\$3,680.00	
22	Sanitary sewer bypass pumping, complete in place	LS	1	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$12,000.00	\$12,000.00	\$24,138.00	\$24,138.00	
23	Erosion and sedimentation controls, complete in place	LS	1	\$1,500.00	\$1,500.00	\$3,150.00	\$3,150.00	\$1,500.00	\$1,500.00	\$12,543.00	\$12,543.00	
24	Traffic control, complete in place	LS	1	\$2,000.00	\$2,000.00	\$3,775.00	\$3,775.00	\$550.00	\$550.00	\$16,932.00	\$16,932.00	
25	Preconstruction video documentation	LS	1	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00	\$1,500.00	\$1,500.00	\$6,161.00	\$6,161.00	
26	Post construction sewer televising	LF	915	\$3.00	\$2,745.00	\$5.00	\$4,575.00	\$9.00	\$8,235.00	\$3.00	\$2,745.00	
27	Remove and replace concrete encasement, complete in place ¹	LF	20	\$50.00	\$1,000.00	\$375.00	\$7,500.00	\$280.00	\$5,600.00	\$1,091.00	\$21,820.00	
TOTAL AMOUNT OF BASE BID						\$292,907.00		\$391,104.00		\$469,861.00		\$784,695.00

Notes:
1. Joao & Bradley's proposal did not include a price for Item 27, however the total proposal price was \$5,600 more than the sum of Items 1 - 26. This discrepancy has been used for the price of Item 27.