



AGENDA

March 27, 2018

7:30 p.m.

I.	Call to Order	Packet Page #
II.	Approval of Minutes: February 27, 2018	2
III.	Approval of Payments: March 2018	4
IV.	Authority Administration Reports	
	A. Clean Water, Inc. Monthly Report	9
	B. ARRO Consulting Monthly Report	11
	C. Authority Administrator's Report	30
	i. Settlement Agreement 55 Yarmouth Lane	
	ii. Capacity Request – Eaglepointe WWTF	
	iii. Septage Management Ordinance Draft - Discussion	31
	D. Public Works Department Report	50
	i. Facilities Maintenance Employee	
V.	Open Session	
VI.	Next Meeting Date: April 24, 2018 7:30 PM	
VII.	Adjournment	



MEETING MINUTES

February 27, 2018

7:30 PM

DRAFT

In Attendance: W. Quinn, Chairman, D. Carlson, Vice Chairman, H. Harper, Member, L. Schack, Member, Katie Cirone E.I.T., ARRO Consulting, Inc.

Call to Order

W. Quinn called the meeting to order at 7:30 PM.

Approval of Minutes

D. Carlson moved to approve the draft minutes of the January 23, 2018 meeting as submitted. H. Harper seconded. It was so moved.

Approval of Payments

Following questions and a brief discussion, a motion was made by H. Harper to approve the payments. L. Schack seconded. It was so moved. Following a brief discussion, D. Carlson made a motion to accept in good faith the Balance Sheet and Revenue and Expense Reports as prepared by the Township Treasurer. H. Harper seconded the motion. It was so moved.

Authority Administration Reports

K. Cirone noted that all treatment facilities were operating well and within their permit requirements with the exception of the Route 100 WWTP which had a total nitrogen violation during the month of January due to extreme cold temperatures. She noted the four reports and asked if there were any questions related to them. Several questions and a brief discussion followed.

K. Cirone discussed the draft septage management ordinance and confirmed that comments submitted by the Authority members were passed on to the Board of Supervisors for their review and consideration. K. Cirone reiterated that the Authority will hear appeals related to the septage management ordinance, but that the Board of Supervisors is the ultimate governing body of the ordinance. Several questions and a brief discussion followed.

K. Cirone noted that the \$15 per quarter sewer rate increase that the Authority agreed to at the January 23, 2018 meeting will take effect with the April billing cycle. She noted that the Township posted information regarding the rate increase on the January bills, on the Township website, and on the Township Facebook page to circulate the information to as many of the residents as possible. A brief discussion followed.

K. Cirone noted that surveyors were hired for the Byers Road Phase II Expansion area to collect topographic data for the sanitary sewer design. Residents responded positively to the activity in the area, and several residents contacted M. Brown, Authority Administrator, to request connection to the public sewer. K. Cirone noted that the project cost is estimated at \$1,000,000,

which is part of the suggested year end borrowing that has been discussed at previous meetings.

K. Cirone noted that Fred Gunther has eluded that he will be requesting an additional 7 EDUs for his property at 160/180 Park Road, but nothing has been officially submitted to support that request. She noted that the Authority will be made aware if a request is received.

K. Cirone noted that a commercial request for Byers 5C has been submitted by Toll Brothers. K. Cirone noted that ARRO is reviewing the request to determine if Toll has to purchase any additional capacity for said request.

K. Cirone noted that the letter to the homeowner's associations regarding ice skating on the lagoons discussed at the January 23, 2018 meeting will be sent to the Authority for review prior to distribution.

K. Cirone discussed the informational meeting that the Township held on February 15, 2018 regarding the Upattinas property and its pending development. K. Cirone noted that the intent of the meeting was to allow the Township to share information that is known and to quell misinformation that has been shared between residents. The Township informed the residents that the developer has the right to move forward with development of the property and there are several possibilities for what could be constructed. There were complaints from some of the residents regarding approvals that the Authority has made. M. Brown, was present at the meeting to provide updates regarding the process, and noted that the PA DEP has approved the sewage facilities planning module, but that nothing has been submitted to the Authority for official approval. Several questions and a brief discussion followed.

K. Cirone noted that the Greenridge WWTP NPDES permit application was reviewed and approved by the PA DEP. The new NPDES permit was updated to allow for grab sampling instead of composite sampling for the lagoon effluent. Otherwise, the permit remains the same.

D. Carlson noted the recent Board of Supervisors meeting, specifically the Montesano Bros. Conditional Use Hearing and ARRO's recommendation that 1 additional EDU must be purchased for the expansion, and that the Township should reserve the right to review water usage in the future and require the purchase of additional sanitary sewer capacity if warranted. K. Cirone noted that the Authority will see this language more frequently for commercial approvals moving forward.

D. Carlson made a motion to approve the reports of the Authority Administrator. H. Harper seconded. It was so moved.

Next Meeting Date - March 27, 2018 - 7:30 PM

W. Quinn noted the date and time of the next meeting of the Authority.

Adjournment

There being no further business to be brought before the Authority, D. Carlson moved, seconded by H. Harper to adjourn the meeting at 8:01 PM.

Respectfully submitted,

Katherine E. Cirone
ARRO Consulting, Inc.

March 23, 2018
10:15 AM

Upper Uwchlan Township
Check Register By Check Id

Page No: 1

Range of Checking Accts: MA MERIDIAN to MA MERIDIAN Range of Check Ids: 1477 to 1497
Report Type: All Checks Report Format: Super Condensed Check Type: Computer: Y Manual: Y Dir Deposit: Y

Check #	Check Date	Vendor	Amount Paid	Reconciled/Void Ref Num
1477	03/27/18	ALSGROUP ALS GROUP USA, CORP	594.95	1756
1478	03/27/18	AQUAP010 AQUA PA	478.82	1756
1479	03/27/18	ARROC010 ARRO CONSULTING, INC.	36,320.37	1756
1480	03/27/18	BURKHOLD BURKHOLDER MFG, INC.	215.25	1756
1481	03/27/18	CHRISFRA FRANTZ, CHRISTOPHER	1,187.00	1756
1482	03/27/18	CLEANWAT CLEAN WATER, INC.	6,355.00	1756
1483	03/27/18	DECKM010 DECKMAN ELECTRIC, INC.	140.00	1756
1484	03/27/18	EDMUN010 EDMUNDS & ASSOCIATES, INC.	1,229.46	1756
1485	03/27/18	INKS0010 INK'S DISPOSAL SERVICE, INC.	230.00	1756
1486	03/27/18	LUDWI060 LUDWIG'S CORNER SUPPLY CO.	118.15	1756
1487	03/27/18	MCGOV020 MCGOVERN ENVIRONMENTAL, LLC	2,125.79	1756
1488	03/27/18	MJREIDER M. J. Reider Associates, Inc.	1,214.50	1756
1489	03/27/18	NAPA0010 NAPA	79.55	1756
1490	03/27/18	OROUR010 O'Rourke & Sons, Inc	380.00	1756
1491	03/27/18	PEC00010 PECO	16,284.11	1756
1492	03/27/18	PENNS080 PENNSYLVANIA ONE CALL	104.06	1756
1493	03/27/18	PRED0010 PREDOC	190.00	1756
1494	03/27/18	UPPER070 UPPER UWCHLAN TOWNSHIP	53,471.60	1756
1495	03/27/18	UPPERESC UPPER UWCHLAN TOWNSHIP ESCROW	520.00	1756
1496	03/27/18	VERIZ010 VERIZON	1,117.60	1756
1497	03/27/18	VERIZFIO VERIZONFIOS	229.80	1756

Report Totals	<u>Paid</u>	<u>Void</u>	<u>Amount Paid</u>	<u>Amount Void</u>
Checks:	21	0	122,586.01	0.00
Direct Deposit:	0	0	0.00	0.00
Total:	<u>21</u>	<u>0</u>	<u>122,586.01</u>	<u>0.00</u>

Upper Uwchlan Township Municipal Authority

Balance Sheet

As of February 28, 2018

ASSETS

Cash

06-100-000-010	General Checking - Fulton Bank	\$ 25,945.89
06-100-000-015	General Checking - Meridian Bank	539,648.02
06-100-000-020	General Checking - WIPP	288,683.98
06-106-000-002	Tap-in Fee Account	309,798.13
	Total Cash	1,164,076.02

PSDLAF Investments:

06-109-000-003	CD Program	-
06-109-000-004	Full Flex	180.01
		180.01

Total Investments

180.01

Accounts Receivable

06-145-000-001	Usage Fees Receivable	257,339.89
06-145-000-002	Capital Assessment Receivable	-
06-147-000-000	Misc Accounts Receivable	-
	Total Accounts Receivable	257,339.89

Other Current Assets

06-130-000-001	Due from MA Capital Fund	-
06-130-000-002	Due from UUT General Fund	-
06-130-000-003	Due from UUT Capital Fund	-
06-130-000-004	Due from Solid Waste Fund	5,850.83
06-130-000-005	Due from Stormwater Fund	-
06-130-000-006	Due from Sewer Fund	-
06-152-000-000	Undeposited Funds	-
06-155-000-000	Pre-Paid Expenses	-
06-155-000-010	Pre-Paid Attorney Fees	-
	Total Other Current Assets	5,850.83

Fixed Assets

06-162-000-001	Fixed Assets	1,231,902.54
06-162-000-050	Accumulated Depreciation	(258,894.78)
06-163-000-100	Phase II Construction Project (CIP)	-
	Total Fixed Assets	973,007.76

Other Long Term Assets

06-162-000-002	Excess Treatment Capacity	1,649,293.24
	Total Other Long Term Assets	1,649,293.24

Total Assets

\$ **4,049,747.75**

Upper Uwchlan Township Municipal Authority

Balance Sheet

As of February 28, 2018

LIABILITIES AND FUND BALANCE

<u>Current Liabilities</u>		
06-200-000-020	Accounts Payable	
06-230-000-010	Due to UUT General Fund	92,508.10
06-230-000-020	Due to UUT Capital Fund	-
06-230-000-021	Due to MA Capital Fund	-
06-230-000-030	Due to Solid Waste Fund	37,030.41
06-230-000-040	Due to Water Resource Protection Fund	-
06-230-000-050	Due to Sewer Fund	-
06-230-000-060	Due to Developer's Escrow Fund	520.00
06-240-000-000	Accrued Expenses	36,321.37
06-241-000-100	Retainage on Phase II Construction Project	175,086.26
06-245-000-000	Due to Customers	275.00
	Total Current Liabilities	341,741.14
<u>Equity</u>		
06-272-000-001	Opening Bal Equity	753,500.35
06-272-000-002	Retained Earnings	2,728,799.32
	Current Period Net Income (Loss)	225,706.94
	Total Equity	3,708,006.61
	Total Fund Balance	3,708,006.61
	Total Liabilities & Fund Balance	\$ 4,049,747.75

Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

For the Period Ended February 28, 2018

	Actual 2018 YTD	Budget 2018	% of Budget	Actual 2017 (Unaudited)	Budget 2017
REVENUES					
06-340-000-000	Interest Income	1,501.74	7,300.00	20.6%	7,810.79
06-365-000-000	Usage Fees Residential	423,290.56	2,027,640.00	20.9%	1,906,961.05
06-365-000-001	Usage Fees Commercial	1,267.20	101,014.00	1.3%	113,284.72
06-365-000-010	Tapping Fees	31,255.74	2,176,350.00	1.4%	139,413.66
06-370-000-000	Misc revenue	-	1,000.00	0.0%	416.27
06-395-000-000	Refund of Prior Year Expenditures	-	-	#DIV/0!	52.09
06-395-000-100	Transfer from Sewer Fund	-	-	#DIV/0!	385,000.00
	TOTAL REVENUES	\$ 457,315.24	\$ 4,313,304.00	10.6%	\$ 2,552,938.58
		\$ 2,684,744.00			
EXPENDITURES					
General:					
06-400-000-001	Administration	39,036.50	234,219.00	16.7%	212,463.98
06-400-000-002	Authority Administrator	21,358.05	120,000.00	17.8%	123,249.31
06-400-000-003	Professional Fees	7,270.00	12,000.00	60.6%	3,001.06
06-400-000-200	Admin Supplies	-	1,000.00	0.0%	10.00
06-400-000-341	Advertising	1,420.52	1,000.00	142.1%	-
06-400-000-352	Insurance - Liability	2,908.63	2,337.00	124.5%	8,132.97
06-400-000-355	Bank Fees	2.00	650.00	0.3%	530.00
06-402-000-450	Audit Fees	-	5,200.00	0.0%	5,050.00
06-404-000-000	Legal Fees	2,157.00	20,800.00	10.4%	19,968.67
06-406-000-100	Utility Billing Costs	1,291.24	18,000.00	0.0%	18,530.33
06-408-000-000	Engineering Fees	47,004.00	150,000.00	31.3%	166,096.68
06-408-000-100	Reimbursable Engineering Fees	-	-	#DIV/0!	-
		122,447.94	565,206.00	21.7%	557,033.00
		-	-	-	529,667.00
Building Expenses:					
06-409-000-031	Lawn Care	-	7,500.00	0.0%	6,302.43
06-409-000-032	Telephone	2,506.83	15,000.00	16.7%	13,228.40
06-409-000-035	Insurance	-	9,297.00	0.0%	-
06-409-000-036	Electric	52,068.83	250,000.00	20.8%	183,345.96
06-409-000-037	Water	1,697.60	25,000.00	6.8%	6,366.14
06-409-000-052	Bldg Maint & Repair	-	8,000.00	0.0%	600.00
06-409-000-260	Building Supplies & Small Tools	-	15,000.00	0.0%	1,014.44
06-409-000-427	Waste Disposal	-	-	#DIV/0!	-
		56,273.26	329,797.00	17.1%	210,857.37
		-	-	-	388,500.00
Operations:					
06-420-000-020	Supplies	122.11	20,000.00	0.6%	14,172.54
06-420-000-022	Chemicals	3,661.29	15,450.00	23.7%	7,376.71
06-420-000-023	Propane and Fuel Oil	-	2,575.00	0.0%	467.18
06-420-000-025	Maintenance & Repair	17,401.23	120,000.00	14.5%	144,956.90
06-420-000-030	Testing	3,733.55	40,000.00	9.3%	35,664.25
06-420-000-031	Pump & Haul	3,176.45	50,000.00	6.4%	59,529.61
06-420-000-032	Vegetation Management	4,555.00	20,000.00	22.8%	16,255.65
06-420-000-035	Permits	500.00	5,000.00	10.0%	2,966.66
06-420-000-042	Dues and Memberships	2,100.00	2,500.00	84.0%	2,100.00
06-420-000-045	Contracted Services	17,510.00	135,000.00	13.0%	119,358.29
06-420-000-048	Misc expenses	-	5,000.00	0.0%	129.44
06-420-000-235	Vehicle Maintenance	-	2,000.00	0.0%	-
06-420-000-329	PA One Call	127.47	2,500.00	5.1%	476.72
		52,887.10	420,025.00	12.6%	403,453.95
		-	-	-	367,500.00

Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

For the Period Ended February 28, 2018
(Continued)

		Actual 2018 YTD	Budget 2018	% of Budget	Actual 2017	Budget 2017
<u>Capital:</u>						
06-483-000-000	Capital Repair		30,000.00	0.0%	25,723.91	30,000.00
06-493-000-083	Depreciation	-	36,000.00	0.0%	-	36,000.00
		<hr/>	66,000.00	0.0%	25,723.91	66,000.00
Total Expenditures before Operations Agreement and Transf		\$ 231,608.30	\$ 1,381,028.00	16.8%	\$ 1,197,068.23	\$ 1,351,667.00
Net Income before Operations Agreement and Transfers		\$ 225,706.94	\$ 2,932,276.00	7.7%	\$ 1,355,870.35	\$ 1,333,077.00
<u>Other:</u>						
06-471-000-010	Operations Agreement Fee to UUT		364,463.00	0.0%	364,562.50	364,563.00
	Operations Agreement Fee to UUT-new debt	<hr/>	50,000.00		-	-
		<hr/>	414,463.00	0.0%	364,562.50	364,563.00
06-492-000-010	Transfer to Sewer Fund	-	-	#DIV/0!	-	-
06-492-000-020	Transfer to Water Resource Protection Fund	-	-	#DIV/0!	-	-
06-492-000-030	Transfer to UUT Capital Fund	<hr/>	-	#DIV/0!	-	-
		<hr/>	-	#DIV/0!	-	-
TOTAL EXPENDITURES		\$ 231,608.30	\$ 1,795,491.00	12.9%	\$ 1,561,630.73	\$ 1,716,230.00
OPERATING INCOME		\$ 225,706.94	\$ 2,517,813.00	9.0%	\$ 991,307.85	\$ 968,514.00
NON OPERATING REVENUES						
	Contribution from Upper Uwchlan Townsf	-	-	-	-	-
	Total Non Operating Revenues	<hr/>	-		-	-
INCOME BEFORE CAPITAL CONTRIBUTIONS						
	Capital contribution to Upper Uwchlan To	-	-	-	-	-
CHANGE IN NET POSITION		\$ 225,706.94	\$ 2,517,813.00		\$ 991,307.85	\$ 968,514.00
NET POSITION, BEGINNING OF YEAR		\$ 8,583,692.85	\$ 2,582,805.65		\$ 7,592,385.00	\$ 7,592,385.00
NET POSITION, YEAR TO DATE		\$ 8,809,399.79	\$ 5,100,618.65		\$ 8,583,692.85	\$ 8,560,899.00

Clean Water, Inc.

170 Dallas St.
Box 475
Atglen, Pa. 19310

Phone 610-593-5710
Fax 610-593-6311

March 22, 2018

Upper Uwchlan Township Municipal Authority
140 Pottstown Pike
Chester Springs, PA 19425

RE: Report for the March meeting.

Dear Authority,

Enclosed you will find copies of the monthly reports that were submitted to the DEP on your behalf. The reports are for January. Information items are current

Route 100

Spray continues to be below permitted limits due to the weather. The Little Conestoga Road pump station had to have a pump switched out due to a faulty gasket. The repair was made by Deckmans. A large tree fell across the driveway to the Byers spray field. The PW Dept cut it up and removed. I repaired a broken riser at the Ewing West Vincent field. McGovern's hauled sludge at the RT 100 plant.

Eaglepoint

Plant is running well. Another composite sample was set up at Liberty Union recently. Results are not yet known.

St. Andrews Brae

Plant continues to run well.

Marsh Harbour

The plant is running fine. Minimal spray has occurred here as well. Lagoon levels are elevated, but we should be ok.

Saybrooke

Plant is running fine. Sludge was removed by McGovern's

Clean Water, Inc. Wastewater Treatment Specialists

Lakeridge

Plant is running fine. There were no additional operational issues to report.

Greenridge

Drip rates have been reduced. The pump station at Stonehedge had some faulty floats that needed replaced.

Additional Information

The Chapter 94 Reports have been completed, reviewed and submitted to PA DEP. Thanks to the PW Dept for once again doing a terrific job of snow plowing for all of the facilities.

That is all for now, please call with any questions.

Respectfully,



Brian Morris

Clean Water, Inc. Wastewater Treatment Specialists



350 West Main Street
Suite 200
Trappe, PA 19426
T 610.495.0303
F 610.495.5855

MEMORANDUM

TO: Upper Uwchlan Township Municipal Authority

FROM: G. Matthew Brown, P.E., DEE

RE: Project Status Report

PROJECT NO.: 17000.00

DATE: March 21, 2018

The following is the status of current wastewater projects within the Township:

Byers Station

Village at Byers Station (5C), Lot #1 Townhouse Parcel: At Byers Station Lot 5C ARRO is providing assistance to Toll with regards to capacity needs in determining sanitary sewer flow estimation for various potential building uses. ARRO is reviewing the Village at Byers Station (5C) sanitary sewer system package prepared by Bohler Engineering for Executive Land Holdings, LP. ARRO will be submitting review comments to the Township. ARRO completed its review of the Village at Byers Station (5C) sanitary sewer system package and submitted review comments to the Township. Revised Village at Byers Station (5C) sanitary sewer plans, dated September 12, 2016, was submitted to ARRO for review. ARRO completed its review of the plans and will issue a review comments letter to the Township by September 23, 2016. ARRO reviewed a Sewage Facilities Planning Module exemption package for The Village at Byers Station (5C). The package was signed and returned to the Township for forwarding to the Developer's engineer who will submit the package to PADEP. ARRO reviewed the full Village at Byers Station (5C) Planning Module package and returned it to the Township. The Township forwarded Components 4B and 4C to the Chester County Board of Health and Chester County Planning Commission for completion. ARRO issued a May 5, 2017 review letter to the Township with comments to the March 17, 2017 Subdivision and Amended Final PRD Plans for the Parcel 5C project. PADEP issued a June 9, 2017 Administrative Incompleteness review letter listing three items missing from the Sewage Facilities Planning Module submission. ARRO is assisting the Developer with responses to PADEP comments. PADEP issued a July 7, 2017 Administrative Incompleteness review letter for the Parcel 5C project listing one item regarding the sanitary sewer capacity. ARRO is assisting the Developer with a response to the PADEP comment. PADEP issued an August 3, 2017 letter approving the Official Plan revision for the 121 townhouses on Parcel 5C. ARRO reviewed the latest revision to the Land Development drawings and transmitted comments to Toll's engineer regarding showing the force main piping within the Station Boulevard sanitary easement. The Village at Byers Station (Parcel 5C) pre-construction meeting was held on October 18, 2017. Construction is expected to start within three weeks. The Village at Byers Station (Parcel 5C) site contractor, by email dated November 14, 2017, started submitting its sanitary sewer shop drawing submittals. ARRO reviewed and commented on the submittals. Brubacher Excavating started sanitary sewer installation work on January 4, 2018. The Village of Byers Station (5C) sanitary sewer installation work

continues through February 2018, approximately 40% of the sewer mains and laterals have been installed.

Sanitary sewer installation work continues through March 2018.

Village at Byers Station (5C), Lot #2 Commercial Parcel: ARRO reviewed the Village of Byers Station (5C) – Lot #2 Commercial Parcel's Sewage Facilities Planning Module package. The Developer's engineer submitted a 9,025 gpd sanitary sewer capacity request at the Route 100 WWTP facility.

ARRO reviewed the Amended Final PRD Plans submitted by Bohler Engineering and prepared a February 27, 2018 letter to the Township with comments to the Plans.

Byers Station (6C), Vantage Point–Chester Springs: The Developer's engineer submitted a request for 43 EDUs (9,500 gpd) of sanitary sewer capacity at the Route 100 WWTP facility.

The Authority Administrator sent a February 20, 2018 letter to D. L. Howell stating there is sufficient capacity at the Route 100 WWTP facility for the proposed 9500 gpd from the project.

Eagle Hunt

Nothing new to report.

Eaglepointe

CarSense: ARRO received a telephone call from CarSense's engineer regarding a request to include additional flow to the sanitary sewer system from a proposed carwash facility. ARRO is awaiting a formal written request of the proposal. ARRO received a written request from CarSense's engineer to introduce additional flow from a proposed carwash facility into the Eaglepointe sanitary sewer system. ARRO responded that the estimated 2,208 gallon flow from CarSense would be acceptable provided an oil/water separator and a sampling facility be installed. CarSense's engineer expects to have sewer plans and planning module application materials for submission to the Township within two weeks. ARRO reviewed the CarSense sewer plans and planning module application materials and transmitted comments to each to CarSense's engineer by letter dated September 20, 2017. ARRO reviewed the CarSense engineer's latest revised sewer plans. ARRO prepared a November 28, 2017 letter accepting the latest revised sewer plans.

CarSense has secured a general contractor for the sanitary sewer work. ARRO is assisting the contractor regarding the contractor's submission of shop drawings for the project.

Wastewater Treatment Plant and Sanitary Sewer System: ARRO prepared plans and specifications for a new chain-link fencing around the wastewater treatment plant. Eaglepointe sanitary sewer easement survey was authorized to proceed on December 15, 2017. The surveyor will prepare plot plans and legal descriptions for all easements encompassing gravity sanitary sewer at the subdivision.

Nothing new to report.

Liberty Union Bar & Grille: Liberty Union effluent was tested and BOD, fat & oil and nitrogen results were found to be higher than the Non-Residential Waste Discharge resolution limits. A November 13, 2017 letter was sent to Liberty Union advising them of their discharge overages and the need to meet with the Authority Administrator, Clean Water and ARRO to discuss how Liberty Union could lower the three elevated discharges. The meeting will take place on November 30, 2017. The Authority Administrator, Clean Water and ARRO met with Liberty Union on November 30, 2017 to discuss how to lower the three elevated discharges. Liberty Union stated they will institute existing grease trap cleaning reforms and update their

dish cleaning policy. Clean Water will take additional samples periodically to check the reforms. Clean Water conducted a grab sampling of Liberty Union discharges on January 31, 2018. Sampling test results for Phosphorus, BOD and Oil/Grease continue to be above the Authority's Non-Residential Waste Discharge resolution limits.

ARRO had a telephone discussion with Liberty Union on February 23, 2018 about high sampling results. Liberty Union requested a third sampling as a composite sample like the first sampling. The Authority Administrator authorized Clean Water to set up the new composite sampling, which was done over February 19 and 20.

Dilbero - Go-Wireless, Eagle Car Wash and Enterprise Rent A Car Sanitary Sewer Connection: ARRO is conducting an evaluation of the wastewater treatment capacity and feasibility for connecting these three businesses to the Eaglepointe WWTP sanitary sewer system.

Ewing Tract

Toll Brothers and Lennar started installing house service lines to new homes in Ewing Tract – West Vincent Township February 2016. ARRO is observing installation and testing of the house service lines. All sanitary sewer house service lines at Toll Brothers' Ewing Tract - West Vincent Carriage Home South subdivision are complete and tested as of June 22, 2017. Toll Brothers submitted to ARRO for review the preliminary maintenance bond amounts for the Ewing Tract – West Vincent Phase 1/2A, Ewing Tract – West Vincent Phase 2A, and Ewing Tract - West Vincent Phase 2 – Carriage Home South projects.

ARRO prepared a February 22, 2018 letter to the Township approving the maintenance bond amounts submitted by Toll Brothers for the Ewing Tract – West Vincent Phase 1/2A, Ewing Tract – West Vincent Phase 2A, and Ewing Tract - West Vincent Phase 2 – Carriage Home South projects.

The Authority Administrator prepared and sent a March 16, 2018 letter to the Home Owners Associations at Byers Station, Ewing-WVT and Reserve at Eagle warning residents not to ice skate on the frozen water surface of each effluent storage lagoon.

Toll Brothers and Lennar are continuing to install house service lines to new homes in Ewing Tract – West Vincent Township with ARRO observing the completed installations and the testing of the house service lines. ARRO testing reports are being sent to West Vincent Township's engineer, Cedarville Engineering Group, LLC.

Fetter Farm Tract (McKee)

ARRO received a request from a developer engineer for information on available treatment capacity to serve the Tract and met with the Township Manager and developer engineer on September 18, 2012, to discuss treatment capacity and conveyance to the Route 100 WWTP. On August 5, 2014 a meeting with held at the Township Building with The McKee Group to discuss the active adult community proposed by the Developer for the property. A subsequent meeting was held at the Township Building on August 14, 2014 with the Township, Developer and Authority Administrator to discuss sewage flows and disposal. ARRO reviewed a Conditional Use Plan for Fetter's Property prepared for McKee-Millford Associates, LP, dated October 12, 2016. ARRO prepared a review letter to the Township, dated November 8, 2016. The Developer is proposing 375 Housing Units, which will produce 62,675 gallons per day of sanitary sewer flow. The Developer is proposing participation in upgrades to the Route 100 Regional WWTP facility that will trigger the Phase 3 expansion of the WWTP. A review of the capacity within the downstream collection and conveyance system is required to determine the extent of improvements necessary to accept the proposed sewage flow. Preliminary Subdivision/Land Development Plans were submitted to ARRO and are currently under review.

The Plans call for 375 mixed Single Family, Twin and Triple units and a Community Center to be built in the subdivision. The subdivision will connect to the Reserve at Eagle by way of Prescott Drive and to the Reserve at Chester Springs by way of Radek Court. The sanitary sewer disposal requirements are calculated to be 62,675 gpd. On-site drip disposal capacity is calculated to be 42,643 gpd, and the off-site sewage disposal requirement is 20,032 gpd. The combination gravity and low pressure sanitary sewer systems will be directed to the Reserve at Eagle Pump Station No. 1 off Prescott Drive. Preliminary Subdivision/Land Development Plans were submitted and reviewed by ARRO. ARRO comments were submitted in an April 10, 2017 letter to the Township. ARRO is in the process of reviewing the June 15, 2017 resubmission of the Preliminary Subdivision/Land Development Application. ARRO reviewed the June 15, 2017 resubmission of the Preliminary Subdivision/Land Development Plan and submitted comments to the plan in a July 10, 2017 letter to the Township. ARRO also reviewed the subdivision's low pressure sewer system design calculations and submitted comments to the design in a July 12, 2017 letter to the Township. ARRO reviewed an August 1, 2017 revision to the low pressure sewer system design calculations and drawings and submitted an August 16, 2017 letter to the Township with comments to the revision materials. ARRO has started an evaluation of the Reserve at Eagle Pump Station No. 1 to ascertain its capability to accept the Fetter Tract design sanitary sewer disposal requirements. ARRO received revised Preliminary Subdivision/Land Development Plans on September 14, 2017. ARRO reviewed the Plans and sent an October 3, 2017 review comments letter to the Township. ARRO continues an evaluation of the Reserve at Eagle Pump Station No. 1 to ascertain its capability to accept the Fetter Tract design sanitary sewer disposal requirements. The evaluation is substantially complete with the exception of emergency generator assessment. ARRO continues an evaluation of Upland Farms drip disposal to ascertain the facility's capability to store and dispose the Fetter Tract effluent. ARRO reviewed the Sewage Facilities Planning Module (SFPM) and is working on the sanitary sewer review. The Authority Administrator signed the SFPM Component 3 Sections G and J.

Nothing new to report.

Frame Property (Reserve at Chester Springs)

ARRO reviewed the sanitary sewer portion of the latest Final Subdivision/Land Development Plan and sent a January 14, 2016 letter to the Township stating all previous comments were addressed and recommending approval of the Plan. PADEP sent a March 18, 2016 letter to the Township with the approval of the Official Plan revision for the 61-unit Frame Property. ARRO reviewed the sanitary sewer escrow quantities prepared by Toll Brothers for Frame Property and found it acceptable. ARRO prepared a May 11, 2016 recommendation letter that was sent to the Township. Toll Brothers informed ARRO that they were hoping to settle on the property shortly and start construction in July. ARRO is preparing the Little Conestoga Road HOP for Toll. ARRO prepared and submitted to PennDOT the Little Conestoga Road HOP for Toll Brothers. Toll said PennDOT must issue the HOP before settlement on the property can take place. The pre-construction meeting for the Reserve at Chester Springs (Frame Property) subdivision was held on August 4, 2016. ARRO reviewed shop drawings of sanitary sewer items. The site work is underway. ARRO has been informed by the contractor that sanitary sewer installation is expected to start at the beginning of October 2016. ARRO was informed by Toll Brothers that the sanitary sewer installation will start on Monday, October 24, 2016. Sanitary sewer installation started in Little Conestoga Road on Monday, October 24, 2016 with the tie-in to a manhole immediately upstream of the Little Conestoga Pump Station. Sewer installation in Little Conestoga Road is complete and is now proceeding within the subdivision. ARRO reviewed Toll Brothers' Reserve at Chester Springs Escrow Release #2 request and prepared a recommendation letter to release \$135,160.56. All sanitary sewer piping is installed and testing is underway. The first house service line is being installed the week of February 13, 2017. ARRO is working with Toll Brothers to obtain an easement within the subdivision for ARRO -designed sanitary sewer to serve three (3) Phase II Collection System properties.

ARRO is having survey completed of the easement and for design of sewer for the three properties. The easement survey was completed and the Authority solicitor is preparing a Deed of Dedication for Sewer Easement. ARRO reviewed Toll Brothers' Reserve at Chester Springs Escrow Release #3 request and prepared a recommendation letter to release \$91,727.23. The Authority solicitor prepared a Deed of Dedication for the sewer easement to connect Phase II Collection System properties to the Reserve at Chester Springs. The Deed was transmitted to Toll Brothers for review. ARRO prepared a change order to the contractor, MG Property Management, to install 6-inch sanitary sewer and a manhole within the Reserve at Chester Springs Tot Lot for the future connection of Phase II Collection System properties. All sanitary sewer pipe testing is complete and manhole testing is underway. All sanitary sewer manhole testing is complete. MG Property Management installed the 6-inch sanitary sewer and a manhole within the Reserve at Chester Springs Tot Lot for the future connection of Phase II Collection System properties, but cannot complete its work until the Developer's contractor restores an open utility trench near the work area. ARRO prepared closeout documents for the MG Property Management project. MG Property Management completed its sanitary sewer work within the Tot Lot and will submit closeout documents for the project during the week of August 20, 2017.

Installation of the gravity house service line to each new home is continuing.

Greenridge

On August 1, 2017 a meeting with the Developer was held at the Township to discuss the sanitary sewer options for the redevelopment of the former Upattinas School parcel (Open Community Adaptive Reuse Development). ARRO is reviewing a revised Section H of the Sewage Facilities Planning Module submitted by the Developer on August 8, 2017. ARRO reviewed a revised Sewage Facilities Planning Module Section H submitted by the Open Community Developer. The Sewage Facilities Planning Module (SFPM) now includes the revised Section H, and the Component 4 submissions have been forwarded to Chester County's Planning Commission and Heath Department. ARRO conducted a site visit to a property which utilizes an Ecoflow unit similar to that proposed for on-site wastewater pre-treatment at the Open Community project. Chester County Planning Commission and Heath Department returned the Open Community Components 4A, 4B and 4C. Component 3 Sections G and J were completed. The Township authorized sending the SFPM package to PADEP for review.

The Authority Administrator prepared a March 14, 2018 letter to Warwick Land Development stating the Authority continues to lack sufficient information from Warwick before the Authority could agree to operate the pretreatment facility proposed for the Open Community Adaptive Reuse Development.

Jankowski

The Preliminary Plan/Conditional Use Application was submitted to the Township and ARRO provided comments on the sanitary sewer system. ARRO met with The Cutler Group on December 10, 2008 to discuss ARRO's Preliminary Plan/Conditional Use Application review comments. The Cutler Group advised that it was able to locate suitable soils to provide sufficient disposal capacity for both its development needs and the Township's required disposal capacity. ARRO reviewed the soils report and issued a letter to the Township agreeing that sufficient capacity appears to exist, although actual capacity will need to be verified through an as-built survey. ARRO provided comments on a draft preliminary subdivision plan addressing the Township Engineer's June 2008 review letter. The Cutler Group subsequently requested an informal review of the revised plans and ARRO provided unofficial comments so that The Cutler Group may further refine the draft preliminary plan in anticipation of its official submission to the Township. ARRO studied the feasibility of connecting the 60 Jankowski homes to the Saybrooke WWTP system. ARRO found that the Saybrooke WWTP does not

have the capacity to treat the additional 14,000 gpd and Pump Station No. 2 does not have sufficient capacity. Also, the land parcel does not have sufficient footprint to support an upgrade to the WWTP. ARRO studied expanding the Saybrooke seepage beds and adding drip facilities. ARRO intends to review PADEP records regarding original Saybrooke seepage bed and soil design parameters. On July 22, 2014, ARRO reviewed PADEP records regarding the original Saybrooke seepage bed and soil design parameters, which confirmed ARRO's initial assumptions, and it appears that all effluent can be disposed on the existing lot if four absorption beds and a drip irrigation system are utilized. ARRO is creating an opinion of probable construction cost for expanding the absorption beds. ARRO has prepared its initial opinion of probable construction cost for expanding the absorption beds. ARRO was in the process of creating an opinion of probable construction cost for the drip irrigation system, but can't obtain final design parameters from PADEP unless onsite soil testing is done to determine soil percolation rates. ARRO issued a May 5, 2017 review letter to the Township with comments to the September 13, 2016 Conditional Use Plan for the Jankowski Tract. On February 2, 2018, the Developer's engineer submitted for review subdivision plans of a 55 Single Family Housing unit community. ARRO is working on a review of the sanitary sewer portion of the subdivision plans.

ARRO completed its review of the Preliminary/Final Subdivision-Land Development Plan submitted by E. B. Walsh and prepared a February 26, 2018 letter to the Township with comments to the Plans.

Lakeridge

ARRO has prepared plans and specifications for fencing around the WWTP's sand mounds and absorption trenches.

ARRO is preparing plans and specifications for construction of a sludge tank exterior to the WWTP Control Building. ARRO conducted an inspection of the Lakeridge WWTP Control Building in order to prepare maintenance and repair items for inclusion in the sludge tank construction contract.

ARRO is continuing to prepare the sludge tank and building repairs plans and specifications.

Marsh Harbour

ARRO prepared plans and specifications for miscellaneous repairs to the Marsh Harbour WWTP control building.

ARRO is continuing its evaluation of the Marsh Harbour WWTP access road and its stormwater requirements.

ARRO completed its evaluation of the access road and stormwater requirements and submitted the evaluation to the Authority Administrator.

Reserve at Eagle

ARRO prepared plans and specifications for lagoon and spray field fencing.

Nothing new to report.

Route 100 WWTP

ARRO conducted a study to search for new disposal sites within and near the Township. Mapping was developed for the study and ARRO conducted a preliminary assessment of a potential stream discharge for the WWTP. ARRO presented its findings regarding potential disposal sites at the December 2016 Board meeting. ARRO has prepared a draft of the Route 100 Regional WWTP disposal fields study for the potential to rerate the fields for additional

capacity. ARRO engaged a sub-consultant to review the existing disposal field design records, the Route 100 WWTP SBR discharge limits and ARRO study findings. ARRO received the sub-consultant's report and is reviewing the findings. ARRO prepared a revised Route 100 Regional WWTP allocated treatment and disposal capacity summary. Based on an ARRO search and mapping study conducted in late 2016 for new disposal sites within and near the Township ARRO is evaluating a parcel on South Chester Springs Road to propose how the land could be subdivided and will be preparing an estimate of disposal capacity that would be available in the subdivided areas. ARRO evaluated a parcel on South Chester Springs Road to propose how the land could be subdivided and prepared an estimate of disposal capacity that would be available in the subdivided areas. ARRO found two potential 18-acre drip field areas on the parcel each with an average estimated capacity of 100,000 gallons per day.

ARRO prepared a draft of the Route 100 Regional WWTP aerated lagoon nutrient removal study for the potential of rerating of the lagoon to obtain an additional 100,000 gallons of capacity. The draft is under internal review prior to submission to the Authority.

ARRO continues updating the Route 100 Regional wastewater system treatment facility manual and the manuals for the other treatment facilities in the Township.

ARRO prepared the DRBC permit renewal application. ARRO submitted the DRBC permit renewal application on August 3, 2017.

ARRO received a March 12, 2018 email from DRBC stating the Route 100 WWTP renewal Docket should be presented and acted upon at the next Commission hearing.

Route 100 WWTP – Phase III

ARRO is reviewing the Route 100 Regional WWTP pad-mounted transformer's capacity in planning for the Phase III of the WWTP expansion. On February 12, 2018, ARRO met with a PECO representative at the WWTP to inspect the capacity of the WWTP's existing transformer and review the Phase III project. After ARRO reviewed the transformer data provided by PECO along with additional anticipated Phase III loadings ARRO concluded that the existing transformer will need to be upgraded.

Nothing new to report.

Saybrooke

ARRO prepared plans for a gravity and grinder pump system for 55 Yarmouth Lane and is getting a price from a contractor for the project. ARRO prepared revised plans for a gravity and grinder pump system at 55 Yarmouth Lane. Columbia Gas has approved the portion of the plans that crosses its easement area. ARRO awaits approval of the plans by the property owners. ARRO received approval from the 55 Yarmouth Lane property owners for the proposed gravity and grinder pump system. ARRO is obtaining costs from contractors for the work. ARRO completed the 5-Year Comprehensive Groundwater Evaluation for inclusion with the WQM permit renewal application being prepared by Clean Water. ARRO is attempting to contact the 55 Yarmouth Lane property owner to determine if and when the sewer connection needs to be completed. The meeting with the 55 Yarmouth Lane property owners to determine if and when the sewer connection needs to be completed was conducted on December 8, 2016. ARRO is preparing plans and specifications for miscellaneous repairs to the Saybrooke WWTP control building. ARRO prepared specifications for repairs to the Saybrooke WWTP control building roof. A contractor quote of \$5,800.00 was received for the specified work. ARRO met with the 55 Yarmouth Lane property owners to discuss the proposed

grinder pump system and also emailed to the property owners two contractor quotes for the work.

Nothing new to report.

St. Andrews Brae

Nothing to report.

Upland Farms

Nothing new to report.

Waynebrook

The last house service line in the development was tested on October 20, 2015. ARRO received Waynebrook Open Space parcel legal descriptions and drip field record plans for review. ARRO reviewed three Waynebrook Open Space parcel legal descriptions and had no comments to them. ARRO reviewed the drip field record plans and transmitted comments to Cutler. Subsequently, revised drip field record plans were submitted, reviewed and approved by ARRO. ARRO requested Cutler submit Waynebrook record drawings as part of dedication. Drawings were received from Cutler, but they were not record drawings. ARRO informed Cutler again to provide record drawings. ARRO received an October 12, 2016 email from Cutler stating submission of record drawings will be in the near future and asking if all legal descriptions and easements were provided for the project. ARRO will review the email's questions and respond to Cutler. ARRO and Authority counsel have reviewed documentation prepared by Cutler for dedication of the Waynebrook sanitary sewer facilities. ARRO is preparing a letter recommending acceptance of sanitary sewer dedication. ARRO prepared a letter recommending acceptance of the sanitary sewer to be dedicated. ARRO has reminded Cutler to submit the approved sanitary sewer and disposal fields record drawings in the forms required by the Authority's Specifications.

ARRO is awaiting Cutler's submission of the approved sanitary sewer and disposal fields record drawings in the forms required by the Authority's Specifications.

Windsor Ridge

Nothing new to report.

Miscellaneous

Eagleview Wastewater Treatment Plant – Per PADEP, Upper Uwchlan Township is expected to participate in Uwchlan Township's Act 537 planning study for the Eagleview Wastewater Treatment Plant. ARRO provided a Scope of Work and Cost Estimate for the Township's participation in the Act 537 planning study to Uwchlan Township. ARRO is proceeding with the Township's portion of the Act 537 planning study. ARRO completed drafting its portion of the Act 537 Eagleview Special Study and submitted the draft to Uwchlan Township for review and comment. On May 13, 2015 ARRO conducted an audit of the existing Eagleview WWTP. ARRO evaluated the plant capacity and prepared a report of findings in June 2015. ARRO has Gannett Fleming's Act 537 Plan Revision under review with comments forthcoming in September 2016. ARRO completed its review of the Gannett Fleming Act 537 Plan Revision and sent a September 19, 2016 letter to the Township with eight comments to the Plan Revision. PADEP issued a March 17, 2017 letter requesting additional information before reviewing and acting upon the Eagleview Wastewater Treatment Plant Act 537 Plan Update Revision.

Nothing new to report.

270 – 290 Park Road (The Townes at Chester Springs) – ARRO is reviewing the sanitary sewer portion of the Final Land Development Plan resubmission for the 44 unit townhouse project. ARRO reviewed the sanitary sewer portion of the second Final Land Development Plan submission, dated December 28, 2015, and sent a comment letter to the Township dated January 26, 2016. ARRO is currently reviewing the third submission of the Plan received February 12, 2016. ARRO reviewed the third submission, dated February 12, 2016, and sent a comment letter to the Township dated February 23, 2016. A revised Sewerage Facilities Planning Module for 33 EDUs was submitted by D. L. Howell & Associates, Inc., which ARRO reviewed and the Authority Administrator signed. The signed Module was returned to D. L. Howell. ARRO reviewed another submission of the Final Land Development Plan and in a July 5, 2016 letter transmitted its comments to the Township. Sanitary sewer from the property was redesigned to connect to the new sanitary sewer in Cambridge Road in Windsor Place. ARRO reviewed another submission of the Final Land Development Plan and in a July 5, 2016 letter transmitted its comments to the Township. Sanitary sewer from the property was redesigned to connect to the new sanitary sewer in Cambridge Road in Windsor Place. ARRO transmitted review comments to the Developer's engineer regarding the planned sanitary sewer connection to the new sanitary sewer in Cambridge Road in Windsor Place. ARRO is reviewing the Sewage Facilities Planning Modules for the project. SFPM Component 4A was completed by the Township. Components 4B and 4C were completed by Chester County and sent to the Township. Sections G1, G2 and J were completed. The Township returned all of the SFPM completed information to the Developer's Engineer to prepare the appropriate copies for submission to PADEP. Additional SFPM information was provided to PADEP in response to their April 5, 2017 requests. PADEP issued a May 10, 2017 letter approving the proposed 40 townhouses development that will generate 7,400 gallons of sewage per day to be treated at the Route 100 Regional WWTP. ARRO is reviewing the June 20, 2017 resubmission of Land Development Plans for the project. Toll Brothers will be purchasing the approved plans and will develop and build the project. ARRO reviewed and commented on the draft sanitary sewer escrow spreadsheet submitted by Toll Brothers on June 14, 2017. ARRO reviewed the June 20, 2017 resubmission of Land Development Plans for the project and sent a June 23, 2017 letter to the Township with comments. The project preconstruction meeting was held on July 27, 2017. ARRO reviewed the contractor's sanitary sewer shop drawings. Sanitary sewer installation is tentatively scheduled to start the first week of October 2017. Sanitary sewer installation started on October 9, 2017. Sanitary sewer installation was completed on November 7, 2017. All sanitary sewer testing was completed on December 18, 2017. On February 14, 2018, Toll Brothers informed ARRO that the house service line installations would begin in the later part of February 2018.

House service line installations began on February 28, 2018.

McHugh Minor Subdivision Plan – ARRO reviewed a proposed 3-lot subdivision plan with individual on-lot disposal systems. ARRO prepared a September 6, 2016 review comments letter and transmitted it to the Township. ARRO reviewed the subdivision Sewage Facilities Planning Modules (SFPM) and the Township sent them on to Chester County for completion of Components 4B and 4C. The Township provided the completed Components 4A, 4B and 4C to the applicant's consultant to assemble the complete SFPMs for the Board of Supervisors to adopt a Resolution for submission to PADEP. PADEP issued a July 7, 2017 Administrative Incompleteness review letter for the subdivision plan listing two items. ARRO is assisting the Developer with a response to the PADEP comment. ARRO sent a September 19, 2017 email to PADEP with responses to PADEP's recent Administrative Incompleteness letter. Regarding the SFPM, an Authority letter, dated October 11, 2017, was sent to PADEP

informing them that the Township is not involved in the ownership of private on-lot septic system. ARRO responded to a subsequent email from PADEP on October 30, 2017 with a draft Septage Management Ordinance that is currently under Township review. ARRO is endeavoring to obtain a status from PADEP to its last correspondence to PADEP.

ARRO contacted PADEP and the Department wants either an executed O&M agreement with the property owner and Township OR a Township enacted Septage Management Ordinance. The SFPM will not be acted on until one or the other is submitted to the Department.

Marsh Lea Subdivision – ARRO reviewed a proposed 27-lot subdivision plan with individual on-lot disposal systems. ARRO prepared a September 13, 2016 review comments letter and transmitted it to the Township. ARRO reviewed the Sewage Facilities Planning Modules and they were sent to Chester County by the Township. Component 4 B was completed by the Planning Commission, but Component 4C hasn't been returned. SFPM Component 4A was completed by the Township. Component 4B was completed by Chester County Planning Commission and Component 4C was completed by Chester County Health Board and both components were sent to the Township. The Township returned all of the SFPM completed information to the Developer's Engineer to prepare the appropriate copies for submission to PADEP. ARRO transmitted comments to the Township regarding the developer's March 8, 2017 Marsh Lea Subdivision Plans. PADEP sent an Administrative Incompleteness Review Letter, dated August 9, 2017 to the Township. ARRO is assisting with responses to the PADEP letter. Evans Mill on its own transmitted a September 5, 2017 letter to PADEP with responses to PADEP's August 9, 2017 Administrative Incompleteness review letter. After review of the September 5, 2017 letter, PADEP sent a September 28, 2017 email to Evans Mill and the Township requesting additional information for the SFPM. Evans Mill transmitted a September 29, 2017 response email back to PADEP. PADEP issued a November 17, 2017 letter approving the 27-lot residential subdivision SFPM.

Nothing new to report.

Village of Eagle

Gordon's Sports Supply - Gordon's Sports Supply expressed an interest in connecting to the Route 100 Regional WWTP sewage collection system. ARRO reviewed one year of water usage records supplied by Gordon's for analysis to estimate sewage flow and to establish a connection fee. On September 8 and September 19, 2017, ARRO sent to the Gordon's building owner the Authority's sanitary sewer requirements and a drawing of the Little Conestoga Road sanitary sewer to which the building will be connected.

Nothing new to report.

160/180 Park Road (Gunner Properties) - ARRO reviewed and commented on the sanitary sewer plans submitted to the Township on June 14, 2017 for the connection of 160/180 Park Road to the Route 100 Regional WWTP sanitary sewer system. ARRO reviewed revised sanitary sewer plans submitted to the Township on August 3, 2017. ARRO sent a letter to the Authority approving the revised plans. ARRO received updated Preliminary/Final Land Development Plans on October 17, 2017 for review. ARRO issued an October 31, 2017 comments letter to the updated Preliminary/Final Land Development Plans, received on October 17, 2017, requesting additional information on proposed bathroom facilities to determine the sanitary sewer capacity that will need to be purchased. ARRO reviewed a request to allow installation of an 8" saddle on the existing 12" sewer main in lieu of 8" x 12" cut-in wye as shown on the Developer's approved design drawings. The request was denied unless further information is supplied supporting the request's feasibility. ARRO reviewed and accepted installation of an 8" saddle on the existing 12" sewer main in lieu of 8" x 12" cut-in

we. A preconstruction meeting for the project was held on January 11, 2018. On February 20, 2018, the Developer's contractor installed an 8" saddle on the existing 12" sewer main in Park Road. The contractor also started installing sewer within the site.

Nothing new to report.

Montesano Brothers Italian Market and Catering - ARRO reviewed a Conditional Use application for expansion of the Market to provide outdoor seating. ARRO sent an October 10, 2017 review letter to the Township with comments that included a review of current sewage flows and an estimate of two (2) EDUs in additional sanitary sewer flow would be generated with the expansion. ARRO attended an October 16, 2017 Conditional Use Hearing on the application. ARRO will be attending the continued Conditional Use Hearing scheduled for December 18, 2017.

Nothing new to report.

Byers Road Sanitary Sewer Extension

ARRO preliminary planning for sanitary sewer along Byers Road between Pottstown Pike and Senn Drive was submitted to the Authority Administrator for review and comment. ARRO is preparing the Sewage Facilities Planning Module Component 3M for the sanitary sewer along Byers Road between Pottstown Pike and Senn Drive. ARRO received a completed Component 4A from the Township on October 19, 2017. At the request of the Chester County Health Department, on January 9, 2018, ARRO sent another Sewage Facilities Planning Module Component 3M letter to CCHD for the sanitary sewer extension along Byers Road between Pottstown Pike and Senn Drive. In February 2018 letters were sent to the property owners who will be connected to the new Byers Road sanitary sewer informing them that the project's survey will be commencing.

ARRO is continuing to prepare drawings and construction specifications for the sanitary sewer extension. The project's survey work was completed in early March 2018. ARRO has the information for inclusion in the plans.

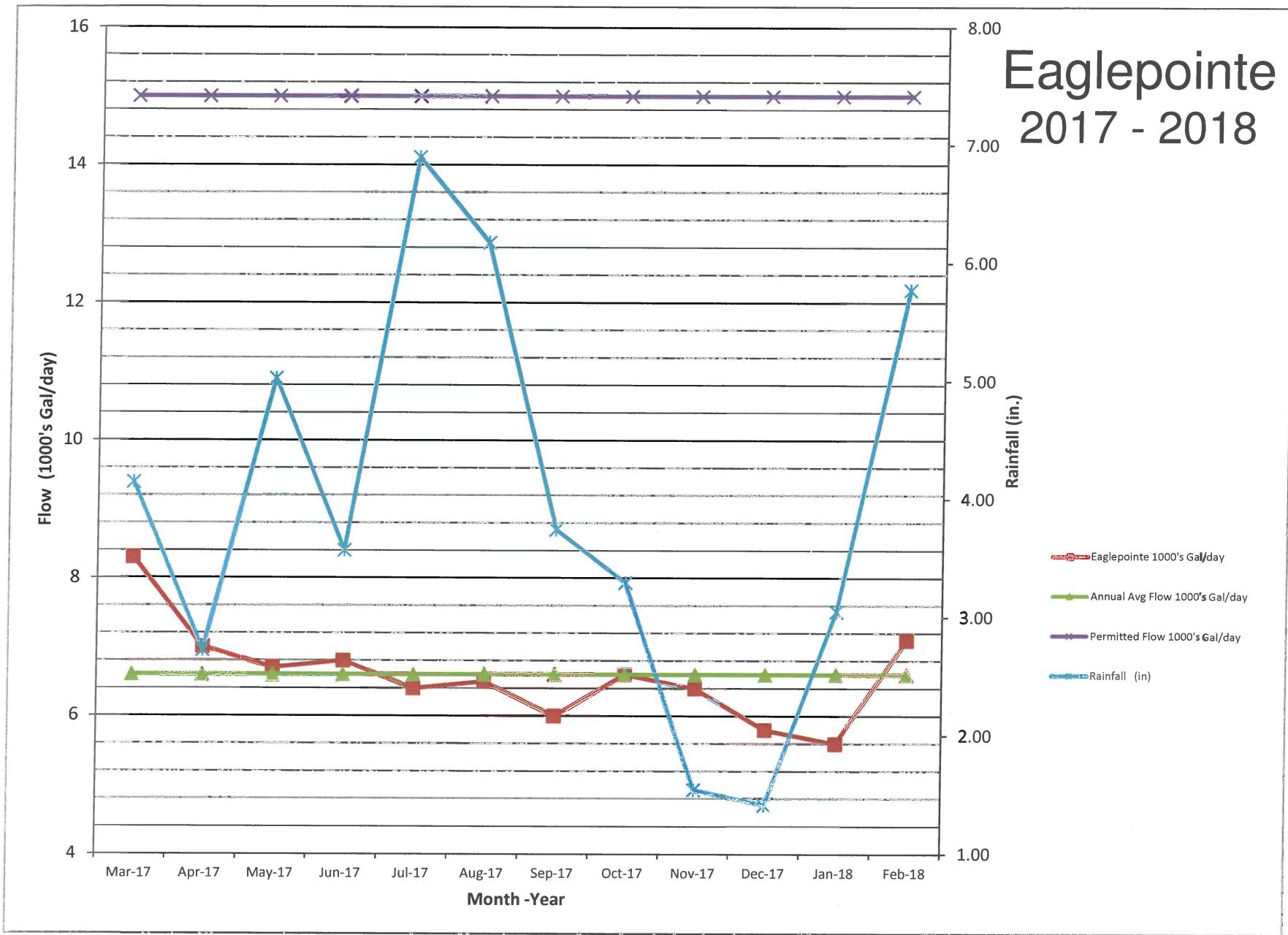
Township Wastewater Treatment Plant's Monthly Average Flow Charts – Please see the attached.

UPPER UWCHLAN MUNICIPAL AUTHORITY
WASTEWATER TREATMENT PLANTS

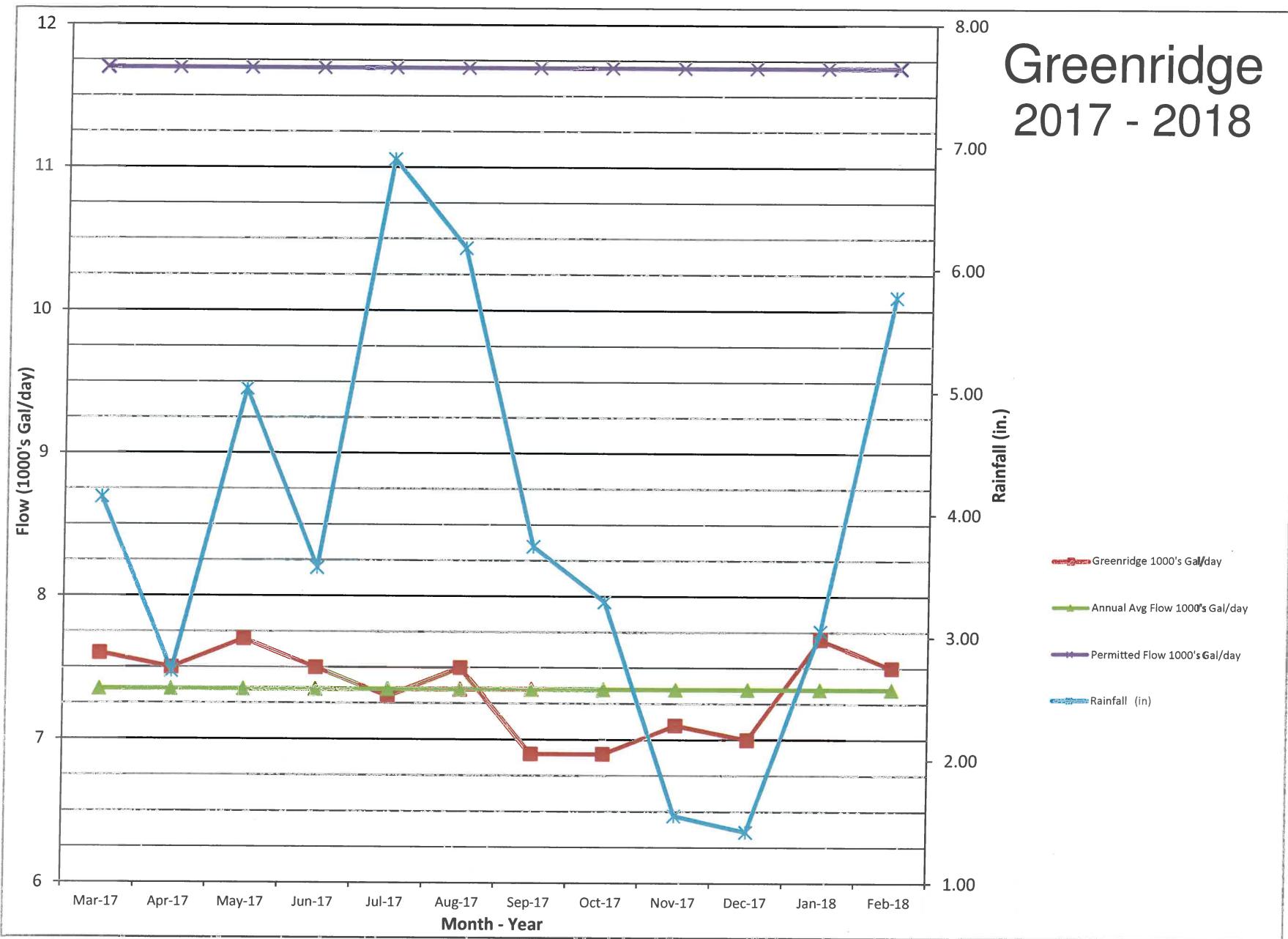
MONTHLY AVERAGE DAILY FLOWS

Month - Year		Average Daily Flow (MGD)							Rainfall (in)
		Eaglepointe	Greenridge	Lakeridge	Marsh Harbour	Route 100	Saybrooke	St. Andrews	
Mar-17		0.00830	0.00760	0.02930	0.04110	0.29520	0.00710	0.00220	4.14
Apr-17		0.00700	0.00750	0.02760	0.04250	0.29900	0.00680	0.00210	2.72
May-17		0.00670	0.00770	0.02740	0.04230	0.30790	0.00630	0.00200	5.03
Jun-17		0.00680	0.00750	0.02750	0.03910	0.29000	0.00650	0.00170	3.57
Jul-17		0.00640	0.00730	0.02600	0.03890	0.28800	0.00690	0.00150	6.90
Aug-17		0.00650	0.00750	0.02560	0.03840	0.29000	0.00770	0.00160	6.18
Sep-17		0.00600	0.00690	0.02510	0.03810	0.30340	0.00650	0.00170	3.74
Oct-17		0.00660	0.00690	0.02530	0.04030	0.29020	0.00680	0.00190	3.29
Nov-17		0.00640	0.00710	0.02760	0.03920	0.30900	0.00720	0.00180	1.55
Dec-17		0.00580	0.00700	0.02790	0.03930	0.31070	0.00720	0.00210	1.42
Jan-18		0.00560	0.00770	0.02770	0.03920	0.30760	0.00770	0.00200	3.05
Feb-18		0.00710	0.00750	0.02900	0.04240	0.33180	0.00820	0.00260	5.78
Annual Avg Flow =		0.00660	0.00735	0.02717	0.04007	0.30190	0.00708	0.00193	
Permitted Flow =		0.01500	0.01170	0.04000	0.07600	0.60000	0.00920	0.00360	
		Permitted Flow as of October 2015 =						0.60000	

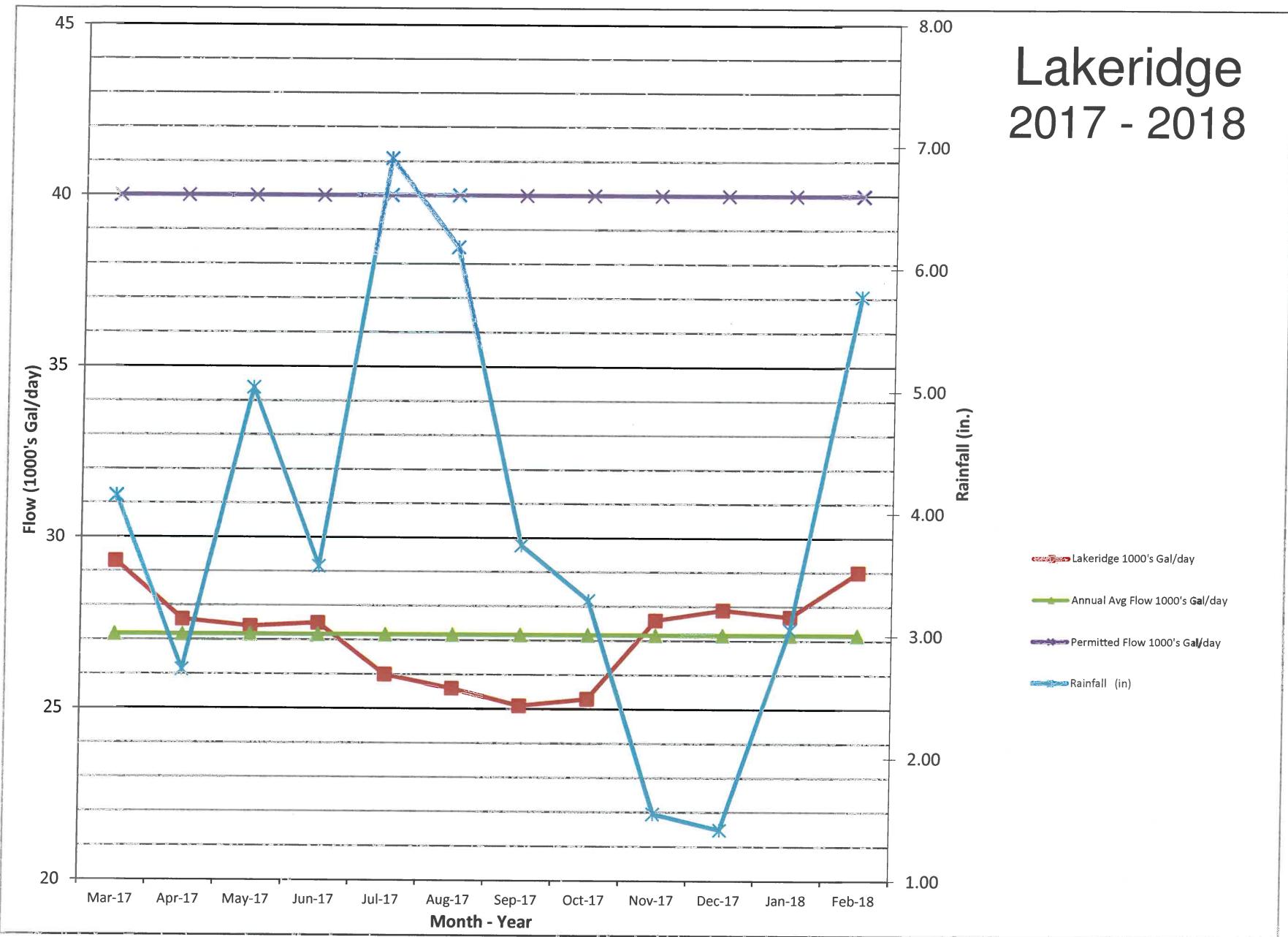
Eaglepointe 2017 - 2018



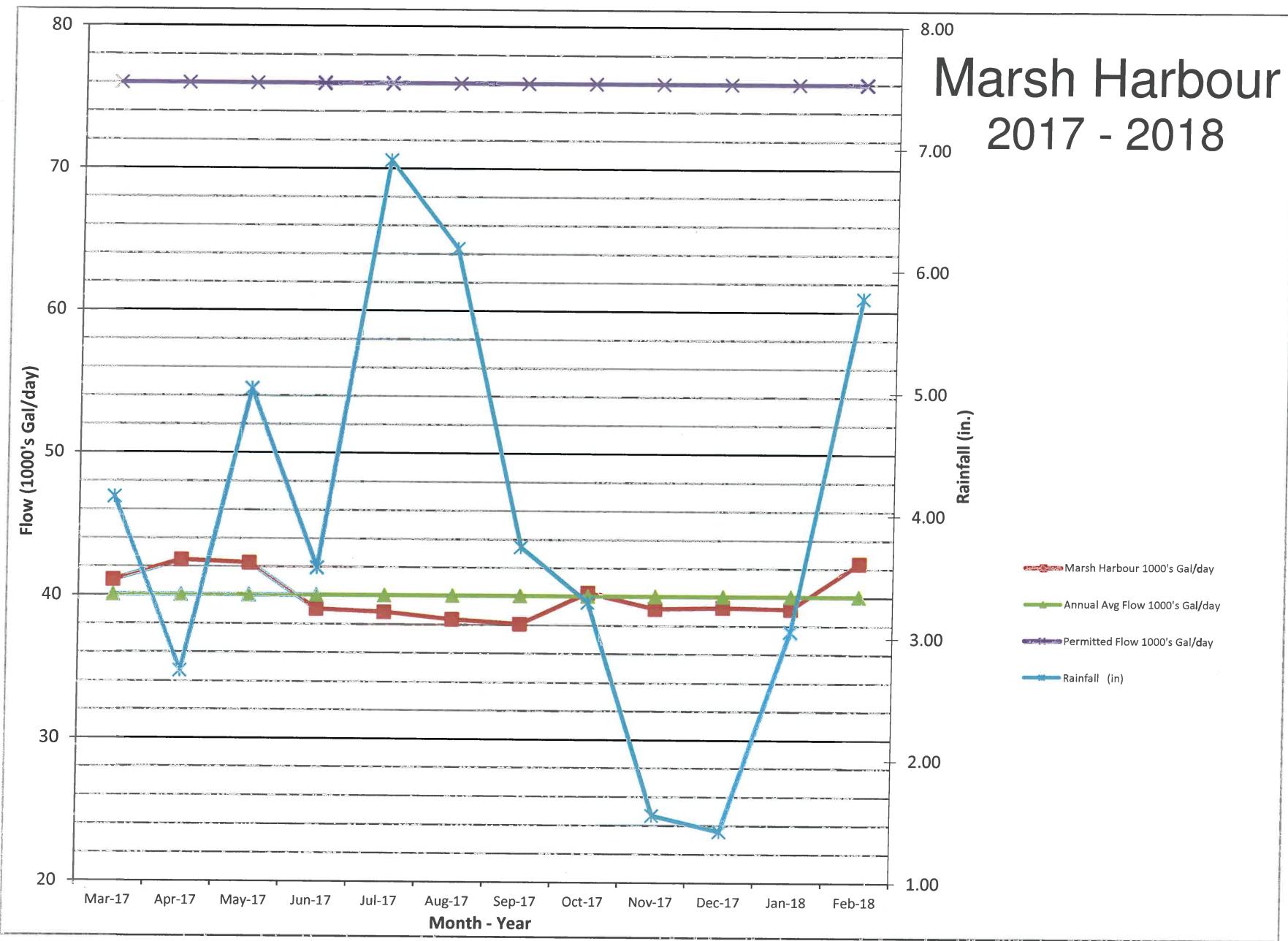
Greenridge 2017 - 2018



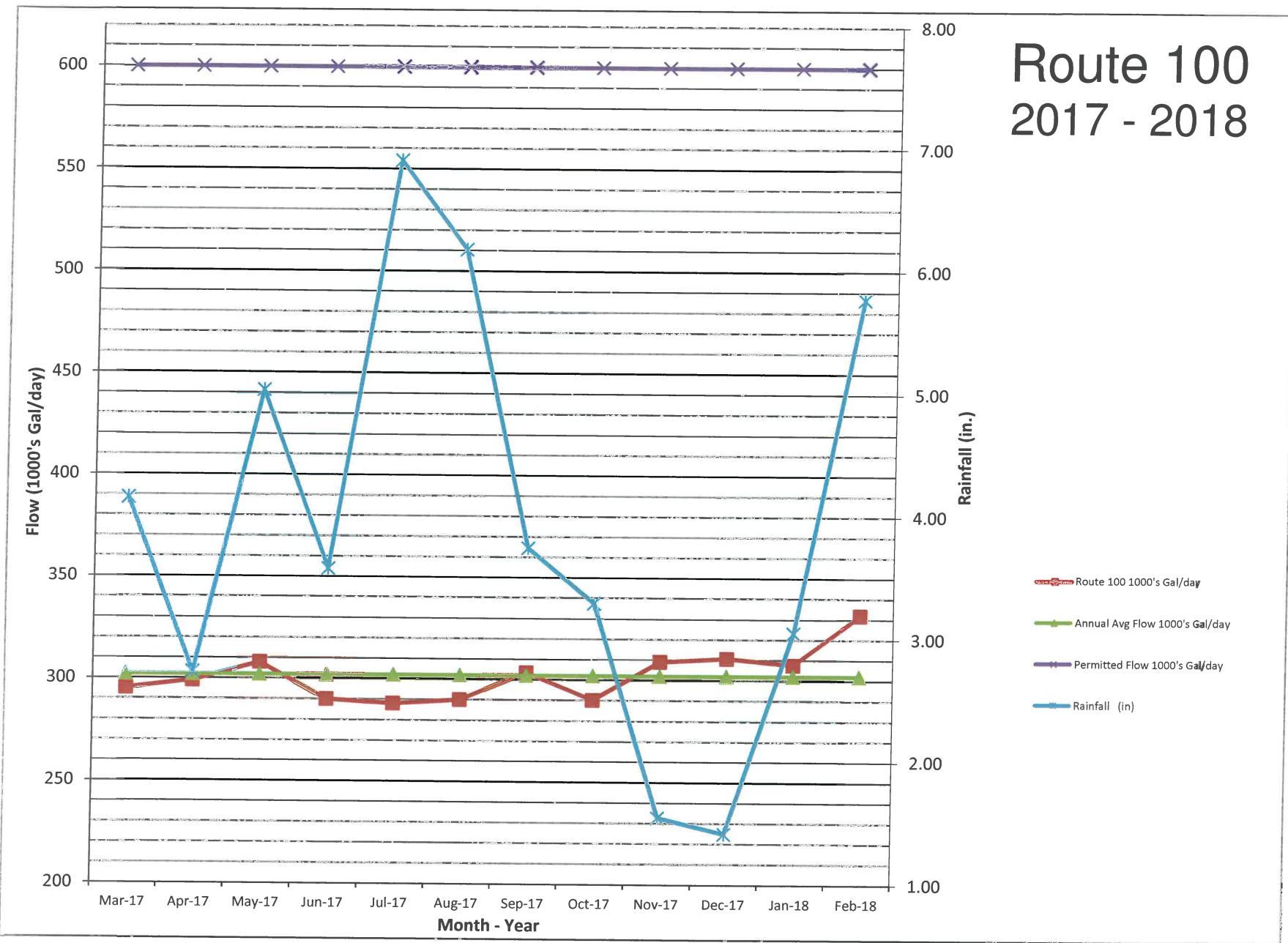
Lakeridge 2017 - 2018

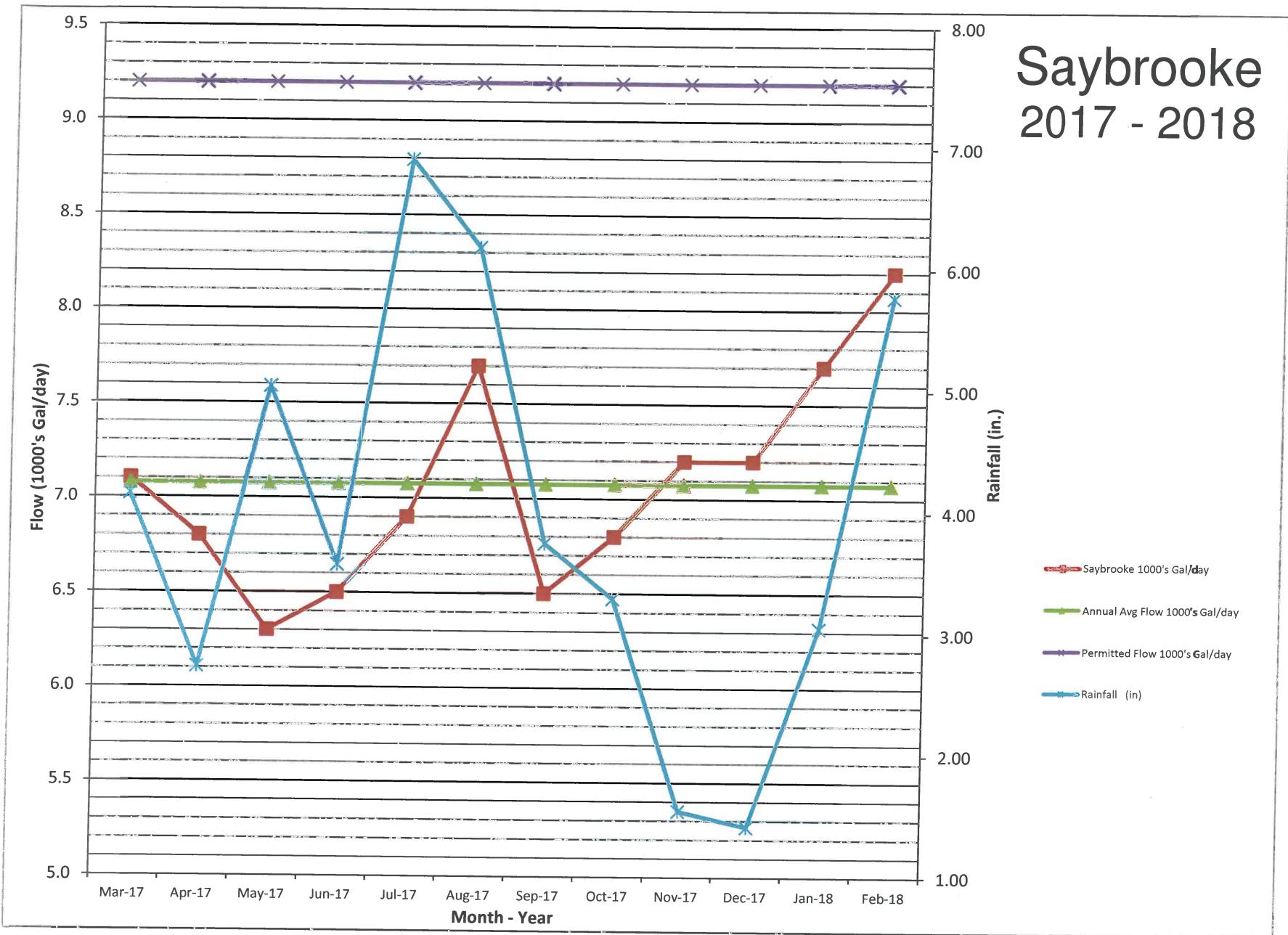


Marsh Harbour 2017 - 2018



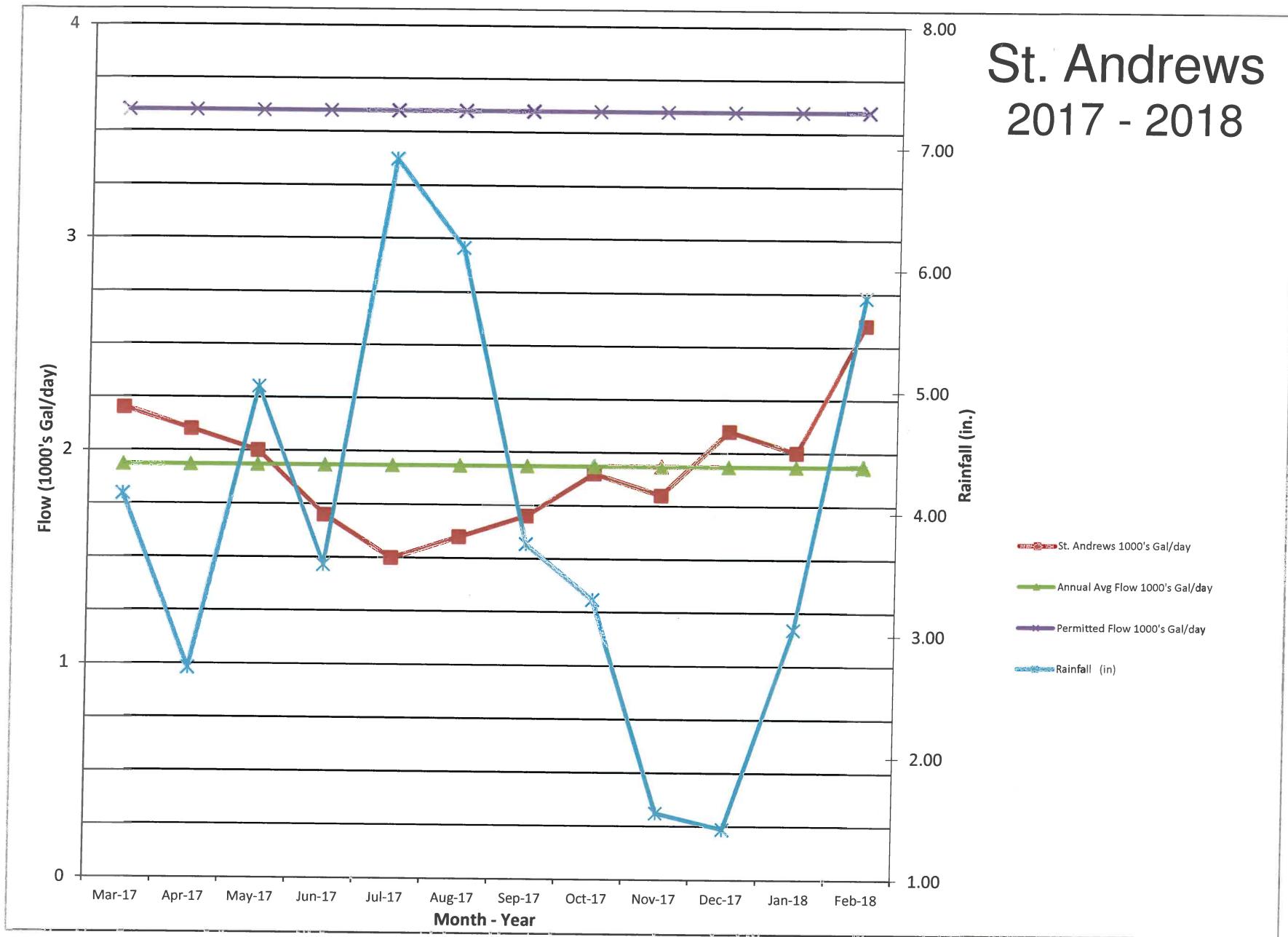
Route 100 2017 - 2018





St. Andrews

2017 - 2018





To: Municipal Authority Members
From: G. Matthew Brown, P.E., DEE
Re: Authority Administrator's Report
Date: March 22, 2018

Activities for the month include:

- A. Communication with WWTF Operator and Township Staff regarding operational and maintenance issues.
- B. Responded to resident, developer and real estate agent sewer service inquiries and septic tank issues.
- C. Preparation of administrative documents for the Authority meeting packet and for the Authority files.
- D. Communication with the Township and PADEP; attendance at a public information meeting regarding the Upattinas Property.
- E. Communication with Toll Brothers relative to construction of sewerage service to the Park Road townhomes.
- F. Communication with PADEP, developers and Township relative to planning documentation for Parcels 5C, 6C and the Gunther Property on Park Road.
- G. Communication with the Township and developer's engineer regarding Phase III of the Route 100 WWTF and the Agreement with McKee.
- H. Communication with Township and Authority members relative to a draft Ordinance for Septic Tank Maintenance.
- I. Communication with PADEP regarding the renewal of the Greenridge WWTF NPDES permit.
- J. Communication with residents, ARRO and PADEP regarding the Phase II, Part II main extension on Byers Road.
- K. Communication with Toll Brothers relative to available treatment and disposal capacity for sale for future projects.

Please advise if you have any questions or would like further details.



UPPER UWCHLAN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

ORDINANCE _____

**AN ORDINANCE GOVERNING MUNICIPAL MANAGEMENT OF
ON-LOT SEWAGE DISPOSAL SYSTEMS IN THE TOWNSHIP OF
UPPER UWCHLAN, CHESTER COUNTY, PENNSYLVANIA**

BE IT ENACTED AND ORDAINED by the Board of Supervisors of the Township of Upper Uwchlan, Chester County, Pennsylvania, and it is hereby enacted and ordained as follows:

SECTION 1. Short Title; Introduction; Purposes.

- A. This Ordinance shall be known and may be cited as "An Ordinance providing for a Septic Management Program for Upper Uwchlan Township".
- B. In accordance with municipal codes, the Clean Streams Law (Act of June 27, 1937, P.L. 1987., No. 394 as amended, 35 P.S. §§691.1 to 691.1001), and the Pennsylvania Sewage Facilities Act (Act of January 24, 1966, P.L. 1535 as amended 35 P.S. §750.1 et seq., known as Act 537), it is the power and the duty of Upper Uwchlan Township to provide for adequate sewage treatment and disposal facilities and for the protection of the public health by preventing the discharge of untreated or inadequately treated sewage. The Official Sewage Facilities Plan for Upper Uwchlan Township indicates that it is necessary to formulate and implement a sewage management program to effectively prevent and abate water pollution and hazards to the public health caused by improper treatment and disposal of sewage.
- C. The purpose of this Ordinance is to provide for the regulation, inspection, maintenance, and rehabilitation of Individual Sewage Systems and Community Sewage Facilities (as hereinafter defined); to further permit intervention in situations, which may constitute a public nuisance or hazard to the public health; and to establish penalties and appeal procedures necessary for the proper administration of a sewage management program.

SECTION 2. Applicability.

From the effective date of this Ordinance, the provisions of this Ordinance shall apply to all portions of the Township served by Individual Sewage Systems or Community Sewage Facilities. Within such an area or areas, the provisions of this Ordinance shall apply to all persons owning any property serviced by an Individual Sewage System or Community Sewage Facility and to all persons installing or rehabilitating such sewage systems.

SECTION 3. Permit Requirements.

- A. No Person shall install or construct an Individual Sewage System or Community Sewage Facility or install, construct, occupy or use a building or structure served by that Individual Sewage System or Community Sewage Facility without first obtaining a permit from the Sewage Enforcement Officer, employed by the Chester County Health Department and/or the Township, which permit shall indicate that the site and the plans and specifications of such system are in compliance with the provisions of the Clean Streams Law (35 P.S. §§691.1-691.1001) and the Pennsylvania Sewage Facilities Act (35 P.S. 750.1 et seq.) and the regulations adopted pursuant to those Acts.
- B. No system or structure designed to provide individual or community sewage disposal shall be covered from view until approval to cover the same has been given by a Sewage Enforcement Officer.
- C. Applicants for sewage permits shall be required to notify the Sewage Enforcement Officer of the schedule for construction of the permitted on-lot sewage disposal system so that inspection(s) in addition to the final inspection required by the Sewage Facilities Act shall be scheduled and performed by a Sewage Enforcement Officer.
- D. No building or occupancy permit shall be issued for a new building which will contain sewage generating facilities until a sewage permit has been obtained from a Sewage Enforcement Officer.
- E. No building or occupancy permit shall be issued and no work shall begin on any alteration or conversion of any existing structure, if said alteration or conversion will result in the increase or potential increase in sewage flows from the structure, until either the structure's owner receives a permit for alteration or replacement of the existing sewage disposal system or until the structure's owner and the appropriate officials of the Township receive written notification from a Sewage Enforcement Officer that such a permit will not be required. The Sewage Enforcement Officer shall determine whether the proposed alteration or conversion of the structure will result in increased sewage flows.
- F. No Individual On-lot Sewer System shall be extended, augmented or modified without the issuance of a permit by the Sewage Enforcement Officer.
- G. No Individual On-lot Sewer System shall be used or loaded in a manner which is inconsistent with the permit that was issued to authorize that system's installation or with the requirements of Chapter 73 of Title 25 of the Pennsylvania Code, as the same may be amended from time to time.

H. Permit applications for Individual On-lot Sewer Systems which include electronically, mechanically, hydraulically or pneumatically operated or controlled devices shall be accompanied by the respective manufacturer's recommended maintenance schedule and product specifications.

SECTION 4. Inspections.

A. The following steps shall be taken with regard to the On-Lot Sewage Disposal Systems in the Township:

1. The Property Owner shall arrange for an initial inspection of the On-Lot Sewage System to be conducted by a Certified Inspector within three (3) years of the effective date of this Ordinance for the purpose of determining the type and functional status of each sewage disposal system in the Township. The inspection shall be conducted in accordance with all applicable state and federal regulations. All costs associated with inspection, pumping and remediation shall be the responsibility of the Property Owner.
2. Every three years after the initial inspection, the Property Owner shall have conducted another inspection for the purpose of determining the functional status and condition of the sewage disposal system.
3. The Township shall send, via regular U.S. Mail, notice to the Property Owner that the On-Lot Sewage Disposal System is due for inspection and certification. Within forty- five (45) days from receiving the notice from the Township, the Property Owner must schedule an appointment with a Certified Inspector provided however that no notice will be sent if the County records reflect that the system has been pumped, inspected and passed inspection within the last three (3) years.
4. At the time of the scheduled inspection the On-Lot Sewage Disposal System shall be pumped by a Pumper/Hauler Business so that it may be inspected by the Certified Inspector. The Property Owner shall ensure that the person performing the inspection and the pumping is both a Certified Inspector and a Pumper/Hauler Business or that separate persons having those qualifications perform the tasks.
5. The Certified Inspector shall prepare a written report of its inspection and furnish a copy to the Property Owner, the Township and the Chester County Department of Health for entry into its tracking system.

B. To the extent that a Property Owner does not conduct the inspection and pumping of an On-Lot Sewage Disposal System as specified in subsection A above, the On-Lot Sewage Disposal System may be inspected by an Authorized Agent at any

reasonable time after the Township provides ten (10) days prior written notice, sent by regular U.S. Mail, to the Property Owner. Such inspection may include a physical tour of the On-Lot Sewage Disposal System and its related components. The Township may also arrange for the pumping of that system. Any costs that the Township or the Authorized Agent incurs with the inspection and pumping shall be reimbursed by the Property Owner.

- C. It is recommended that On-Lot Sewage Disposal Systems be routinely inspected by the Property Owner or a Responsible Management Entity in accordance with the following schedule:
 - 1. Monthly - Retaining and Treatment Tanks to be checked for water-tightness and structural integrity; also remove Septage and solids when 75% full.
 - 2. Semi Annually - Individual Residential Drip Irrigation Systems permitted in accordance with 25 Pa Code § 73.167.
 - 3. Annually - Absorption Areas, Cleanouts, Tank Access Covers, and Inspection Ports; surface contouring to be checked to see that storm water is diverted away, maintain ground cover and provide protection from physical damage. Pumps, aerators, any and all electrical, mechanical and chemical components, alarm devices, disinfection equipment to be checked for proper operation in accordance with manufacturer's instructions and recommendations.
 - 4. Once every three years - All Tanks, including but not limited to Treatment Tanks, Pump Tanks, and Distribution Boxes to be checked for water tightness, structural integrity and settlement of the structure, and remove excessive amounts of solids and scum.

SECTION 5. Operation.

- A. Property Owners are responsible to properly operate the Sewage Facilities on their individual properties; this includes providing where necessary electrical power and access to communication service for the operation of the Sewage Facilities and to respond to any alarm notification.
- B. Property Owners shall not introduce or dispose of any substance into any Sewage Facility that would cause harm or in any way interfere with the proper operation of the Sewage Facility.
- C. Only normal domestic wastes shall be discharge into any Sewer Facilities. The following shall not be discharged into the system:

1. Industrial waste;
2. Automobile oil and other non-domestic oil;
3. Toxic or hazardous substances or chemicals including, but not limited to, pesticides (insecticides, fungicides, herbicides, and anti-microbial agents), disinfectants (excluding household cleaners and non-incidental cleaning products), acids, paints, paint thinners, gasoline, and other solvents; or
4. Clean surface or ground water, including water from roof or cellar drains, springs, basement sump pumps, and french drains.

SECTION 6. Maintenance.

- A. After each inspection by a Certified Inspector, the Property Owner shall promptly complete any recommended repairs to the On-Lot Sewage System to prevent System Failure.
- B. Maintenance Agreements: Sewage Facilities operated and maintained by any person other than the Property Owner shall be through a maintenance agreement between the Property Owner and a Responsible Management Entity (RME). The RME shall provide the Property Owner an inspection and maintenance report within the three-year cycle and enter such report into the County Septage Management System.
- C. All Individual On-lot Sewage System pumping shall be performed in accordance with Chapter 504 of the Chester County Health Department regulations and shall also conform to the following minimum standards, unless other standards are specified by an equipment manufacturer.
 1. At all times, the Pumper Truck Operator's personal safety, as well as protection of the environment and the landowner's property, shall receive the highest priority.
 2. Tanks shall only be pumped from or through the manhole or access port (i.e., the largest tank opening).
 3. Tanks shall not be pumped from or through the observation or Inspection Port.
 4. When necessary to break up solids, backwashing with clean water or material of a similar nature already on board the pumper truck may be employed. Mechanical means (scraping, raking, etc.) are not necessary but may be employed, provided that appropriate safeguards are taken to prevent injury.

5. When backwashing, care shall be taken not to fill or refill the tank to a level greater than 12 inches below the elevation of the outlet pipe.
6. No liquids or solids are to be discharged into or through the outlet pipe.
7. Tanks shall be deemed to be cleaned when all organic solids are removed and the total average liquid depth remaining in the tank is less than one inch.
8. At all times, and in all phases of operations, the Pumper/Hauler shall comply with all laws and regulations regarding the activities associated with Individual On-Lot Sewage System maintenance and disposal of materials removed therefrom.

D. Any person owning a building served by an Individual On-Lot Sewage System which utilizes any components or technologies deemed by DEP to require more detailed operation and maintenance requirements than provided for in this Ordinance, including but not limited to Individual Residential Drip Irrigation Systems, Alternate Systems, or Experimental Systems shall be further subject to the maintenance responsibilities recommended by DEP for said system. The Township may impose additional requirements as deemed necessary to provide for the increased oversight inherent in these cases, including but not limited to entering an operation and maintenance agreement which shall outline the specific maintenance responsibilities for said system, collection of an annual fee and posting financial security with the Township to guarantee proper operation and maintenance of said system.

E. Surface contouring shall be required as necessary to direct surface water and drainage away from all components of Individual On-Lot Sewage Systems.

F. Any person owning a building served by an On-Lot Sewage Disposal System which contains an aerobic treatment tank shall follow the operation and maintenance recommendations of the equipment manufacturer and maintain a service agreement with said equipment manufacturer. A copy of the manufacturer's recommendations and a copy of the service agreement shall be submitted to the Township within six months of the effective date of this Ordinance.

G. Additional maintenance activity may be required as needed including, but not limited to, providing reasonable access to initial treatment unit, cleaning and unclogging of piping, servicing and the repair of mechanical and electrical equipment, leveling of Distribution Boxes, Tanks and lines, removal of obstructing roots or trees, etc.

H. Property Owners with an Individual Sewage System connecting to a public or

private Sewage Facility shall operate and maintain their Individual Sewage Systems in accordance with any rules, regulations, and all other requirements of the receiving Community Sewage Facility, including paying fees for collection, conveyance, treatment, and disposal of Sewage, and the maintenance of certain components of their Individual Sewage System.

- I. Property Owners with an Individual Sewage System connecting to a public or private Sewage Facility by means other than with a Building Sewer shall retain the services of an RME to maintain their Individual Sewage System unless the Individual Sewage System is maintained by the Community Sewage Facility.

SECTION 7. Disposal of Septage.

- A. All Septage originating within the Township shall be disposed of in accordance with the requirements of the Solid Waste Management Act (Act 97 of 1980, 35 P.S. §§6018.101 et seq.) and all other applicable laws and at sites or facilities approved by DEP.
- B. Pumper/Haulers operating within the Township shall operate in a manner consistent with the provisions of the Pennsylvania Solid Waste Management Act (Act 97 of 1980, 35 P.S. §§6018.101–6018.1003), all other applicable laws, and Chester County Health Department regulations.

SECTION 8. System Rehabilitation.

- A. No person shall operate or maintain an Individual On-lot Sewage System in such a manner to constitute a System Failure. Any suspected System Failure shall be reported to the Chester County Health Department, who shall make a final determination as to functional status and rehabilitation measures required. Any person owning a building served by an On-lot Sewage Disposal System determined to be in a state of System Failure by the Chester County Health Department shall perform all corrective measures required to abate the System Failure. The Chester County Health Department shall have the authority to require abatement of any System Failure by the following methods: cleaning, repair or replacement of components of the existing system, adding capacity or otherwise altering or replacing the system's initial treatment unit, expanding the existing disposal areas, replacing the existing disposal area, replacing the system with a Retaining Tank, frequent pumping, or any other alternative appropriate for the specific site.
- B. An Authorized Agent shall have the right to enter, following notice, upon land for the purposes of inspections described in this section. Such inspection may include a physical tour of the Individual Sewage System or Community Sewage Facility and its related components, the taking of samples from surface water, wells, or other groundwater sources, the sampling of the contents of the sewage disposal

system itself, and/or the introduction of a traceable substance into the interior plumbing of the structure served to ascertain the path and ultimate destination of wastewater generated within the structure. An Authorized Agent shall inspect systems known to be, or alleged to be, malfunctioning. Should said inspections reveal that the system is indeed malfunctioning, the Authorized Agent shall order action to be taken to correct the malfunction. If total correction cannot be done in accordance with the regulations of DEP including, but not limited to, those outlined in Chapter 73 of Title 25 of Pennsylvania Code or, is not technically or financially feasible in the opinion of the Authorized Agent and a representative of DEP; then action by the property owner to mitigate the malfunction shall be required.

- C. If there arises a geographic area where numerous On-Lot Sewage Disposal Systems are in System Failure, a resolution of these area wide problems may necessitate detailed planning and a revision to the portion of the Sewage Facilities Plan pertaining to areas affected by such malfunctions. If a DEP authorized Official Sewage Facilities Plan Revision has been undertaken, repair or replacement of individual sewage disposal systems in System Failure within the area affected by the revision may be delayed, pending the outcome of the plan revision process. However, immediate corrective action will be compelled whenever a System Failure, as determined by Township officials and/or DEP, represents a serious public health or environmental threat.
- D. A written notice of violation shall be issued to any person who is the owner of any property which is found to be served by an On-Lot Sewage Disposal System in System Failure or which is discharging sewage without a permit.
- E. Within fourteen (14) days of notification by the Township that a System Failure has been identified, the property owner shall make application to the Sewage Enforcement Officer for a permit to repair or replace the failing system. Within 45 days of initial notification by the Township, construction of the permitted repair or replacement shall commence provided that all necessary permits have been issued. Within 60 days of the original notification by the Township, the construction shall be completed unless seasonal or unique conditions mandate a longer period, in which case the Township may set an extended completion date or mandate the use of a Retaining Tank.
- F. Should none of the remedies described in this Ordinance be effective in eliminating the System Failure of an existing Individual On-Lot Sewage System, the Property Owner is not absolved of responsibility for that System Failure. The Township and the Chester County Health Department may require whatever action is necessary to lessen or mitigate the System Failure to the extent necessary.

SECTION 9. Duties and Responsibilities of Responsible Management Entities (RME).

- A. Registration Requirements - Any RME offering or performing installation, inspection, operation, or maintenance services on any Sewage Facility in the Township shall meet the licensing and certification requirements as set forth in the definition of a Responsible Management Entity in this Ordinance.
- B. Reporting Requirements – RMEs shall provide the Property Owner a copy of any and all inspection and maintenance reports including any supplemental report. In addition, RMEs shall supply applicable information to the County. The report shall be routed via the County Septage Management System.
- C. Evaluations of Sewage Facilities – Any person performing an evaluation of a Sewage Facility for a real estate transaction or a mortgage refinancing shall also be a registered RME and comply with reporting requirements above.
- D. Emergency Services - RMEs shall include emergency services in all service and maintenance agreements that provide 24-hour contact information. This contact information shall be posted on or near a component of the sewage system in plain sight. If the RME is not licensed to pump and transport liquid waste by the Chester County Health Department, the RME shall provide a subcontract with a licensed liquid waste transporter who would be on 24-hour call to abate any nuisance or Malfunction.

SECTION 10. Performance of Work by Township and Liens.

The Township, upon written notice from the Chester County Health Department that an imminent health hazard exists due to failure of the Property Owner to maintain an Individual On-Lot Sewage System, shall immediately notify the Property Owner of the determination. The Property Owner shall within five (5) working days act to obtain a permit and promptly commence and complete construction per the agreed timeline with the Chester County Health Department and the Township. If the Property Owner fails to meet the agreed schedule, the Township shall have the authority to perform, or contract to have performed, the work required. The Property Owner shall be charged for the work performed and, if necessary, a lien shall be entered therefore in accordance with the Municipal Lien and Tax Law.

SECTION 11. Administration.

- A. The Township shall fully utilize those powers it possesses through enabling statutes and ordinances to effect the purposes of this Ordinance.
- B. The Township shall employ qualified individuals to carry out the provisions of this Ordinance. The Township may also contract with private qualified persons or firms as necessary to carry out the provisions of this Ordinance. The Township may appoint its Engineer or the Township Manager as its Authorized Agent to act on its behalf.

- C. The Township's Authorized Agent shall have the right to enter upon land, following notice, for the purpose of administering the provisions of this Ordinance as specified above.
- D. All records pertaining to sewage permits, building permits, occupancy permits and all other aspects of the Sewage Management Program shall be made available for inspection consistent with the provisions of the Open Records Law.
- E. The Board of Supervisors shall establish all administrative procedures necessary to properly carry out the provisions of this Ordinance.
- F. The Board of Supervisors may by resolution establish a fee schedule, and authorize the collection of fees, to cover the cost to the Township of administering this Ordinance.

SECTION 12. Appeals.

Appeals from final decisions of the Township or any of its Authorized Agents under this Ordinance shall be made to the Upper Uwchlan Township Municipal Authority, who is the designated agent of the Board of Supervisors to hear such appeals. Such appeal shall be made in writing within forty-five (45) days from the date of written notification of the action being appealed. The appellant shall be entitled to a hearing before the Municipal Authority at its next regularly scheduled meeting, if a written appeal is received at least seven (7) days prior to that meeting. If the appeal is received within seven (7) days of the next regularly scheduled meeting, the appeal shall be heard at the next regularly scheduled meeting unless another mutually agreed date is selected. The Municipal Authority shall thereafter affirm, modify, or reverse the aforesaid decision. The hearing may be postponed for a good cause shown by the appellant or the Municipal Authority. Additional evidence may be introduced at the hearing provided that it is submitted with the written notice of appeal. A decision shall be rendered in writing within two (2) regularly scheduled meetings of the Upper Uwchlan Township Municipal Authority. In the event an Appeal is requested with respect to a Chester County Health Department designated "imminent health hazard", the Property Owner and Municipal Authority shall work together to hold a hearing and render a decision within the timelines required for Property Owner action under this Ordinance.

SECTION 13. Fines and Penalties.

- A. 1. Any person who fails or refuses to comply with any provision of this Ordinance shall be in violation of this Ordinance, which violation shall be enforced by action brought before a District Justice in the same manner provided for the enforcement of summary offenses under the Pennsylvania Rules of Criminal Procedure.
- 2. Upon conviction, such person shall pay a fine of not less than \$100 and not more than \$1,000 (or such other maximum fine as then may be

provided or permitted by applicable law) per violation, together with costs of prosecution, including, but not limited to, reasonable attorney's fees, in each case. Upon default in payment of the fine and costs, such person shall be subject to imprisonment to the maximum extent allowed by law for the punishment of summary offenses.

3. Each day, or portion thereof, that a violation is found to exist, and each provision of this article that is found to have been violated, shall constitute a separate offense each punishable by the aforesaid fine and imprisonment.
4. All fines and costs collected for the violation of this article shall be paid to the Township.
5. If the payment of fines and costs to the Township are noted as delinquent, the Township shall utilize all current procedures for collection including liens.

B. Other remedies. The provisions of Subsection A above (including, but not limited to, the manner of enforcement of a violation of this Ordinance and the fine and the penalty for such violation) shall not be in limitation of, but shall be in addition to:

1. Such other or further remedies or enforcement actions as may be available to the Township and/or the Municipal Authority under other provisions of this Ordinance or under other law (including, but not limited to, other applicable local, state or federal law) or in equity (including, but not limited to, injunctive relief) for any actions or inactions which violate any provision of this Ordinance. Nothing in this section or other provision of this Ordinance shall be deemed to preclude the Township and/or Authority from pursuing such other or further remedies concurrently.
2. Such other or further remedies or enforcement actions as may be available to any governmental entity, other than the Township, having jurisdiction, under any applicable local, state, or federal law, or in equity (including, but not limited to, injunctive relief), for any actions or inactions which violate any provision of this Ordinance.

SECTION 14. Definitions.

Unless the context specifically and clearly indicates otherwise, the meaning of terms used in this Ordinance shall be as follows:

A. "Absorption Area" shall mean a component of an individual or community sewage system where liquid from a Treatment Tank seeps into the soil; it consists

of an aggregate-filled area containing piping for the distribution of liquid and the soil or sand/soil combination located beneath the aggregate.

B. “Act 537 Plan” shall mean a Municipality’s Official Plan as defined in the Pennsylvania Sewage Facilities Act, as of January 24, 1966, P.L. 1535 (1965), No. 537, as amended, 35 P.S. §§750.1-750.20a (“Sewage Facilities Act” or “Act 537”).

C. “Authorized Agent” shall mean a Certified Sewage Enforcement Officer (SEO), professional engineer or sanitarian, plumbing inspector, soils scientist, water quality coordinator, Chester County Health Department Licensed Liquid Waste Hauler or any other person who is designated to carry out the provisions of this Ordinance as the agent of the Board or Chester County Health Department.

D. “Board” shall mean the governing body of Upper Uwchlan Township, Chester County, Pennsylvania.

E. “Building Sewer” shall mean the piping carrying liquid wastes, from a building to the Treatment Tank, Holding Tank, Grinder Pump Tank, or Retaining Tank.

F. “Certified Inspector” shall mean a person who has obtained a certification from the Pennsylvania Sewage Management Association to inspect On-Lot Sewage Disposal Systems.

G. “Chester County Health Department (CCHD)” shall mean the designated Sewage Enforcement Officer (SEO) for Upper Uwchlan Township or an employee of the Chester County Health Department.

H. “Cleanout” shall mean a component of a Sewage Facility that provides access for inspection and cleaning the Building Sewer or other pipes.

I. “Community Sewage Facility” shall mean a Sewage Facility whether publicly or privately owned, that receives and collects Sewage from two or more Improved Properties for treatment and disposal of the Sewage at another location.

J. “DEP/the Department” shall mean the Department of Environmental Protection of the Commonwealth of Pennsylvania.

K. “Distribution Box” shall mean a Tank with one inlet that provides equal distribution of Effluent from a Treatment Tank through two or more outlets.

L. “Domestic Sewage” shall mean Sewage derived principally from dwellings,

business buildings, institutions and the like, and may not contain groundwater, surface water or storm water.

- M. “Effluent” shall mean a liquid waste discharged from a sewage system or component of a sewage system.
- N. “Improved Property” shall mean any property or lot within the Township upon which there is an erected structure intended for continuous or periodic habitation, occupancy or use by human beings or animals and from which structure Sewage shall or may be discharged.
- O. “Individual Sewage System” shall mean a Sewage Facility and all of its components serving a single lot. Individual Sewage Systems include the following:
 - i. Individual On-Lot Sewage Systems rely on a subsurface absorption or surface infiltration system for the renovation of Sewage through native soils prior to disposal or the retention of Sewage in a Retaining Tank. Individual on-lot sewage systems are permitted through the Chester County Health Department and include but are not limited to the following systems defined by 25 Pa Code § 73.1:
 - (a) Conventional sewage systems;
 - (b) Alternate sewage systems;
 - (c) Experimental sewage systems;
 - (d) Bonded disposal systems;
 - (e) Individual residential spray irrigation systems;
 - (f) Retaining tanks/ Holding tanks; and
 - (g) Grey Water systems.
 - ii. Individual Sewerage Systems_rely on other means than native soils to renovate Sewage prior to disposal or retention in a Retaining Tank. Individual sewerage systems include but are not limited to the following:
 - (a) Gravity sewer connections – Where the Building Sewer connects to a gravity service lateral of a Community Sewage Facility;
 - (b) Pressure sewer connections – Where the Building Sewer is connected to a Tank containing a pump which conveys Sewage through a pressure sewer to either a gravity or pressure service lateral of a Community Sewage Facility; and

(c) Small flow treatment facilities – An Individual sewerage system permitted by the Pennsylvania Department of Environmental Protection that is designed to adequately treat Sewage flows no greater than 2,000 gallons per day with final disposal to surface waters, a dry stream channel, or storm water collection system.

P. “Industrial Waste” shall mean any solid, liquid or gaseous substance or waterborne wastes or form of energy rejected or escaping from any industrial, manufacturing, trade or business process or from the development, recovery or processing of natural resources, as distinct from domestic sanitary sewage.

Q. “Inspection Port” shall mean a component of a Sewage Facility that provides sufficient access for the inspection of the contents of a Tank.

R. “Maintenance” shall mean those actions required to provide for the long-term proper functioning of a sewage facility.

S. “Malfunction” shall mean the condition which occurs when an Individual On-lot Sewage System fails to function in the expected or satisfactory manner per normal mode of operation.

T. “Municipal Authority” shall mean the Upper Uwchlan Municipal Authority.

U. “Official Sewage Facilities Plan” shall mean a comprehensive plan for the provision of adequate sewage disposal systems, adopted by the Board of Supervisors and approved by the Pennsylvania Department of Environmental Protection, pursuant to the Pennsylvania Sewage Facilities Act.

V. “On-lot Sewage Disposal System” shall mean any system for disposal of domestic sewage involving pretreatment and subsequent disposal of the clarified sewage into a subsurface soil absorption area or retaining tank; this term includes both individual sewage systems and community sewage systems.

W. “Person” shall mean any individual, association, public or private corporation for profit or not for profit, partnership, firm, trust, estate, department, board, bureau of agency of the Commonwealth, political subdivision, municipality, district, authority, or any other legal entity whatsoever which is recognized by law as the subject of rights and duties. Whenever used in any clause prescribing and imposing a penalty or imposing a fine or imprisonment, the term person shall include the members of an association, partnership or firm and the officers of any local agency or municipal, public or private corporation for profit or not for profit.

- X. “Planning Module for Land Development” shall mean a revision to, or exception to the revision of, the Official Plan, submitted in accordance with DEP regulations, and in connection with the request for approval of a Subdivision or land development plan.
- Y. “Primary Area” shall mean an area on a lot, tract or parcel of land that has been tested by the Sewage Enforcement Officer and found suitable, based upon the then current DEP site requirements, for the installation of an Individual On-lot Sewage System, and which will be preserved and protected from alteration for installation of the initial Individual On-lot Sewage System for sewage generated on that lot, tract, or parcel (see Replacement Area)
- Z. “Property Owner” shall mean any person vested with ownership, legal or equitable, sole or partial, of any property located in the Township.
- AA. “Pump Tank” shall mean a Tank or chamber or pump that receives and temporarily stores Sewage or partially treated Sewage from which it is pumped or dosed. Pump Tanks include:
 1. Effluent Pump Tank – A Tank that receives Septic Tank Effluent or partially treated Sewage and conveys the liquid portion of the wastewater to absorption system or other component of a Sewage Facility. Effluent pumps also include: Dosing Pumps, Lift Pumps, Dosing Siphons, and other specialized discharge control mechanisms; and
 2. Grinder Pump Tank – A Tank that receives Domestic Sewage and contains a pump that macerates waste solids prior to ejection.
- BB. “Pumper/Hauler Business” shall mean any sole proprietor, company, partnership or corporation which engages in cleaning any or all components of a community or Individual On-lot Sewer System and evacuates and transports the Septage cleaned therefrom, whether for a fee or free of charge. Said Pumper/Hauler Business shall be licensed by the Chester County Department of Health and shall provide said Department with a record of each pumping of on-lot sewage disposal systems in the Township.
- CC. “Pumpers Report/Receipt” - Chester County Sludge/Septage Manifest and Report (Manifest) Form which shall be used by all licensed Pumpers/Hauler’s to report each pumping of on-lot sewage disposal systems in the Township.
- DD. “Pumper/Hauler Truck Operator” shall mean a natural person who engages in cleaning any or all components of a community or individual on-lot sewage system and evacuates and transports the Septage cleaned therefrom, whether for a fee or free of charge.

EE. “Regulations” shall mean the Pennsylvania Code, Title 25, Chapters 71, 72 and 73.

FF. “Rehabilitation” shall mean work done to modify, alter, repair, enlarge or replace an existing on-lot sewage disposal system.

GG. “Replacement Area” shall mean an area on a lot, tract, or parcel of land, separate from the Primary Area, that has been tested by the Sewage Enforcement Officer and found suitable, based upon the then current DEP site requirements, for the installation of an on-lot system, and which will be preserved and protected from alteration for potential future use if the Primary Area on the same lot, tract, or parcel shall fail for any reason. (see Primary Area).

HH. “Responsible Management Entity” or “RME” shall mean an individual, firm or corporation experienced in the operation and maintenance of Sewage facilities, who is a licensed Pumper Hauler Business with the Chester County Health Department and/or a Pennsylvania Sewage Management Association Certified Inspector. RME’s may also include through a general oversight agreement with the Township such entities as Municipal Authorities, Investor Owned Public Utility Companies and Homeowner Associations.

II. “Retaining Tank” shall mean a Tank that retains Sewage and is designed and constructed to facilitate ultimate disposal of the Sewage to another site. Retaining Tanks include:

1. Chemical toilet – A permanent or portable non-flushing toilet using chemical treatment in a Retaining Tank for odor control.
2. Holding Tank – A Tank, whether permanent or temporary, to which Sewage is conveyed by a water carrying system. Said Tank is part of a closed system which does not discharge to the ground.
3. Privy – A Tank designed to receive Sewage where water under pressure is not available.
4. Incinerating toilet – A device capable of reducing waste materials to ashes.
5. Composting toilet – A device for holding and processing human and organic kitchen waste employing the process of biological degradation through the action of microorganisms to produce a stable, humus-like material.

6. Recycling toilet – A device in which the flushing medium is restored to a condition suitable for reuse in flushing.

JJ. “Septage” shall mean the residual scum, sludge and other materials pumped from septic or aerobic treatment tanks and the systems they serve.

KK. “Sewage” shall mean any substance that contains any of the waste products or excrement or other discharge from the bodies of human beings or animals and any noxious or deleterious substance being harmful or inimical to the public health, or to animal or aquatic life or to the use of water for domestic water supply or for recreation or any substance which constitutes pollution under the Clean Streams Law, 35 PS §§ 691.1- 691.1001, as amended.

LL. “Sewage Enforcement Officer (SEO)” shall mean a person certified by the State Board for the Certification of Sewage Enforcement Officers, who is employed by the Township or Chester County Health Department (CCHD) to administer the provisions of this Ordinance, the provisions of the Act, and the regulations in PA Code Title 25, Chapters 71, 72 and 73.

MM. “Sewage Facility” shall mean an all-inclusive term for a Sewage collection, conveyance, treatment, and disposal system.

NN. “Sewage Management District” shall mean any area or areas of the Township designated in the Official Sewage Facilities Plan adopted by the Board of Supervisors as an area for which a Sewage Management program is to be implemented.

OO. “Sewage Management Program” shall mean a comprehensive set of legal and administrative requirements encompassing the requirements of this ordinance, the Sewage Facilities Act, the Clean Streams Law, the regulations promulgated thereunder and such other requirements adopted by the Board of Supervisors to effectively enforce and administer this ordinance.

PP. “Sewer System” shall mean a system of pipes that collect Sewage from several Improved Properties; Sewer Systems include Pressure and Gravity Sewer Systems or any combination of both.

QQ. “Subdivision” shall mean the division or re-division of a lot, tract or other parcel of land into two or more lots, tracts, parcels or other divisions of land, including changes in existing lot lines. The enumerating of lots shall include as a lot that portion of the original tract or tracts remaining after other lots have been subdivided therefrom.

RR. “System Failure” shall mean the condition in which one or more malfunctions

results in pollution to the ground or surface waters, contamination of private or public drinking water supplies, nuisance problems or a hazard to public health.

SS. “Tank” shall mean a water-tight receptacle which liquids pass through or are retained in.

TT. “Tank Access Cover” shall mean a component of a Sewage Facility that provides access for inspection, cleaning and maintenance of the internal components of a Tank.

UU. “Township” shall mean Upper Uwchlan Township, Chester County, Pennsylvania.

VV. “Treatment Tank” shall mean a Tank designed to provide a suitable environment for the bacterial decomposition or disinfection of Sewage. Treatment Tanks include:

1. Septic Tank – A Treatment Tank or compartment of another Tank that provides for the anaerobic decomposition and the physical separation of solids in Sewage.
2. Aerobic Sewage Treatment Tank – A Treatment Tank or compartment of another Tank that provides for the aerobic biochemical stabilization of solids in Sewage.
3. Filter Tank – A Treatment Tank or compartment of another Tank that contains a media to which microorganisms attach and provide a suitable environment for the biochemical stabilization of solids in Sewage.
4. Chlorine Contact Tank - A Treatment Tank or compartment of another Tank that provides a suitable environment for the disinfection of Effluent.

SECTION 15. Repealer.

All ordinances or resolutions or parts of ordinances or resolutions, insofar as they are inconsistent herewith, are hereby repealed.

SECTION 16. Severability.

If any sentence, clause, section or part of this Ordinance is for any reason found to be unconstitutional, illegal or invalid, such unconstitutionality, illegality or invalidity shall not affect or impair any of the remaining provisions, sentences, clauses, sections, or parts of this Ordinance, it being the intent of Upper Uwchlan Township, Chester County that such remainder shall be and shall remain in full force and effect.

This Ordinance shall become effective within five (5) days of its adoption.

ENACTED this _____ day of _____, 2018.

ATTEST:

**UPPER UWCHLAN TOWNSHIP
BOARD OF SUPERVISORS**

Gwen A. Jonik, Township Secretary

Jamie W. Goncharoff, Chairman

Sandra M. D'Amico, Vice-Chairman

Guy A. Donatelli, Member



FEBRUARY/MARCH 2018 REPORT UUT MUNICIPAL AUTHORITY PUBLIC WORKS DEPARTMENT

The following projects are underway:

Ongoing:

- Snow removal was done at all plants.
- Locks were spot checked at all pump stations. All have been secure.
- Spot checks continue and all visitors are still using the sign-in sheets at all properties.
- Conducted plant inspections
- Service was completed on the Sewer Department truck

Tim Connolly has stepped in for Bruce until we hire a new person for the position he left. He continues on the work orders as follows:

Complete:

- Route 100 WWTP
 1. Repaired toilet
 2. Installed insulation around exit door of generator room
 3. General cleaning of station
- Byers Station Effluent PS
 1. Picking up trash daily
 2. General cleaning of station
 3. Repaired downspouts
 4. Installed MSDS station
- Byers Station Influent PS
 1. General cleaning of station
 2. Repaired door and hinge
- Ewing PS
 1. General cleaning of station
- Ewing West Vincent PS
 1. No work orders for this location

- **Ewing Tract Effluent Disposal System**
 1. All work orders are complete
- **Eagle Hunt**
 1. Cleaning of this location
- **Windsor Ridge**
 1. General cleaning of station
 2. Installed MSDS Station
 3. Fixed downspout
 4. Installed new door sweep on generator room door
 5. Replaced safety stickers
- **Saybrooke WWTP**
 1. Installed new MSDS station
 2. Installed new eye wash station
 3. Replaced some safety stickers
 4. General cleaning of station
- **Seabury**
 1. Removed hazardous, rusted, pit lid and had a new one made at O'Rourke Steel. Installed the new one making the area safe.
- **Yarmouth PS1**
 1. There are currently no work orders for this facility.
- **Yarmouth PS2**
 1. There are currently no work orders for this facility.
- **St Andrews Brae**
 1. There are currently no work orders for this facility.
- **St Andrews Brae PS (at St Andrews intersection)**
 1. There are currently no work orders for this facility.
- **Reserve Lagoon**
 1. General cleaning of station
 2. Installed new MSDS station
 3. Repaired double door
- **Reserve at Eagle PS 1**
 1. Trash removal and general cleaning
 2. Replaced some safety stickers
- **Reserve at Eagle PS 2**
 1. General cleaning of station

- **Upland Farms PS/ Reserve at Waynebrook**
 - 1. There are currently no work orders for this facility.
- **Greenridge**
 - 1. Notified Clean Water of a leak in pump room. Brian responded and fixed the problem.
 - 2. General cleaning of station
- **Stonehedge**
 - 1. General cleaning of station
- **Marsh Harbour WWTP**
 - 1. General cleaning and trash removal
- **Marsh Harbour PS**
 - 1. There are currently no work orders for this facility.
- **Meadowcreek**
 - 1. There are currently no work orders for this facility.
- **Eaglepointe**
 - 1. Trash collection and cleaning
- **Heron Hill PS**
 - 1. There are currently no work orders for this facility.
- **Lakeridge WWTP**
 - 1. Old pipe removal
 - 2. General cleaning and trash removal
- **Lakeridge Pump Station**
 - 1. There are currently no work orders for this facility.
- **Eagle Farms Rd PS (WV)**
 - 1. Repaired double man door again
 - 2. Installed MSDS station
 - 3. General cleaning of station
- **Little Conestoga Rd PS**
 - 1. There are currently no work orders for this facility.
- **Eagle Manor PS (Dorothy Ln)**
 - 1. There are currently no work orders for this facility.

- **Garrison Dr. (spray field pump station #1)**
 - 1. There are currently no work orders for this facility.
- **Garrison Dr. (spray field pump station #2)**
 - 1. There are currently no work orders for this facility.
- **Chris continues to respond to Pa 1-calls. UUT responded to 64 PA 1-call tickets during the month of February.**

Respectfully submitted,
Michael G. Heckman
Director of Public Works
Upper Uwchlan Township



UPS DELIVERY / TRACKED

March 16, 2018

Byers Station HOA
Jane LaGatta, Community Administrator
First Service Residential
1115 Sunderland Avenue
Chester Springs, PA 19425

RE: Upper Uwchlan Township Municipal Authority
Route 100 Regional WWTP
Byers Station, Reserve at Eagle & Ewing-WVT Effluent Storage Lagoons

Dear Home Owners Association:

It has come to the attention of the Upper Uwchlan Township Municipal Authority (Authority) that over the winter months, some individuals were ice skating on the frozen water surface at one of the Authority's three effluent storage lagoons. The Authority would like to take this opportunity to remind you that each lagoon contains treated wastewater of considerable depth and presents a hazard to anyone who would attempt to tread upon the frozen water surface.

The lagoons are constructed with very steep side slopes and water depth increases very quickly. It would be difficult for a person to escape the lagoon should they fall in. Also, the treated wastewater contained in each lagoon is governed by the rules and regulations of Pennsylvania and does not have to meet drinking water quality standards. Therefore, the treated wastewater in the lagoons is not safe for human consumption and presents a potential health risk if someone were to fall in and unintentionally consume the water.

The Authority is concerned about the safety of all Township residents and trusts you will distribute this information to all Association residents within your subdivision.

Please feel free to contact the Authority directly if you have any questions or concerns.

Sincerely,

G. Matthew Brown, P.E., DEE
Authority Administrator



UPS DELIVERY / TRACKED

March 16, 2018

Reserve at Eagle HOA
Jessica Knippenberg, Property Manager
c/o CAMCO Management
511 West Chester Pike
Havertown, PA 19083

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Route 100 Regional WWTP
Byers Station, Reserve at Eagle & Ewing-WVT Effluent Storage Lagoons

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