



AGENDA

January 28, 2020

7:30 p.m.

Packet Page #

I.	Call to Order	
II.	2020 Reorganization	2
III.	Approval of Minutes: December 17, 2019	3
IV.	Approval of Payments: January 2020	5
V.	2020 Operating and Capital Budget – Consider Approval	20
VI.	Authority Administration Reports	
	A. Clean Water, Inc. Monthly Report	44
	B. ARRO Consulting Monthly Report	48
	C. Authority Administrator's Report	70
	D. Public Works Department Report	71
VII.	Open Session	
VIII.	Next Meeting Date: February 25, 2020 ~ 7:30 p.m.	
IX.	Adjournment	



TO: Municipal Authority
G. Matthew Brown, Authority Administrator

FROM: Gwen Jonik, Township Secretary

RE: Reorganization 2020

DATE: January 10, 2020

The Authority is requested to conduct their reorganization for 2020 as follows:

- 2019 Chairperson, Don Carlson, calls the meeting to order and requests that Matt Brown conduct the election of Chairperson for 2020.
- Newly elected Chairperson then completes the reorganization:
 - Vice Chairperson
 - Authority Administrator – Matt Brown
 - Authority Solicitor – Christopher Frantz (\$5/hour increase, to \$215/hour)
 - Authority Engineer – ARRO Consulting (\$1-\$5/hour increases all positions)
 - Authority Operator – Clean Water Inc. (2% increase)

According to past practices, it is suggested that:

Hal Harper would become Chairman

Bob Watts would become Vice-Chairman



MEETING MINUTES

December 17, 2019

7:30 PM

DRAFT

In Attendance: D. Carlson, Chairman, B. Watts, Member, W. Quinn, Member, G. Matthew Brown, P.E., DEE, Authority Administrator, David Schlott, Jr, P.E., ARRO Consulting, Inc.

Call to Order

D. Carlson called the meeting to order at 8:00 PM.

Approval of Minutes

Draft minutes of the November 12, 2019 special meeting were presented. B. Watts made a motion to approve the minutes as submitted. W. Quinn seconded. It was so moved.

Approval of Payments

Following questions and a brief discussion, a motion was made by B. Watts to approve the payments for November 2019 (payments made in November per established protocol). W. Quinn seconded. It was so moved. W. Quinn then moved to approve the payments for December 2019. B. Watts seconded. It was so moved. W. Quinn then moved to accept the financial reports submitted in good faith by the Township Treasurer. B. Watts seconded. It was so moved.

Authority Administration Reports

M. Brown noted that all facilities were operating well and within permit. Following several questions and a brief discussion, W. Quinn moved to accept the Reports as submitted. B. Watts seconded. It was so moved

Presentation of the Draft 2020 Operating and Capital Budgets

M. Brown made a brief presentation of the draft 2020 Operating and Capital Budgets for the Authority. He noted the inclusion of the capital borrowing within the budgets and the timing of the expenditures. He also called for any questions to be transmitted during the upcoming month so the Authority might be in a position to approve the budgets at the January 2020 meeting.

Open Session

No public comment was made.

Next Meeting Date: January 28, 2020 - 7:30 PM

D. Carlson noted the date, time and location (Township temporary facilities) of the next meeting of the Authority.

Adjournment

There being no further business to be brought before the Authority, B. Watts moved, seconded by W. Quinn to adjourn the meeting at 8:36 PM.

Respectfully submitted,

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

January 24, 2020
11:44 AM

Upper Uwchlan Township
Check Register By Check ID

Page No: 1

Range of Checking Accts: MA MERIDIAN
Report Type: All Checks

to MA MERIDIAN

Range of Check IDs: 2084 to 2114

Report Format: Super Condensed Check Type: Computer: Y Manual: Y Dir Deposit: Y

Check #	Check Date	Vendor	Amount Paid	Reconciled/Void Ref Num
2084	01/28/20	ALSGROUP ALS GROUP USA, CORP	4,990.60	2160
2085	01/28/20	AQUAP010 AQUA PA	475.16	2160
2086	01/28/20	ARROC010 ARRO CONSULTING, INC.	27,535.98	2160
2087	01/28/20	BLOOMGLE BLOOMING GLEN CONTRACTORS	46,557.46	2160
2088	01/28/20	BUCKL010 BUCKLEY, BRION, MCGUIRE, MORRI	1,574.50	2160
2089	01/28/20	CHRISFRA FRANTZ, CHRISTOPHER	105.00	2160
2090	01/28/20	CLEANWAT CLEAN WATER, INC.	11,330.00	2160
2091	01/28/20	COUNT010 COUNTRY ESTATE FENCE, INC.	19.15	2160
2092	01/28/20	DECKM010 DECKMAN MOTOR & PUMP, INC	6,528.13	2160
2093	01/28/20	DELTRUST DELAWARE VALLEY PROP&LIA TRST	4,111.95	2160
2094	01/28/20	EAGLHARD EAGLE HARDWARE	96.56	2160
2095	01/28/20	EASTENVI EASTERN ENVIRONMENTAL CONTRACT	5,367.50	2160
2096	01/28/20	EDMUN010 EDMUND'S GOVTECH	11,392.70	2160
2097	01/28/20	HOPKINS HOPKINS & SCOTT, INC	875.00	2160
2098	01/28/20	INKS0010 INK'S DISPOSAL SERVICE, INC.	3,060.00	2160
2099	01/28/20	MAPLEDIR MAPLE DIRECT INC	1,417.50	2160
2100	01/28/20	MCGOV020 MCGOVERN ENVIRONMENTAL, LLC	13,098.01	2160
2101	01/28/20	MCI00001 MCI COMM SERVICE	71.64	2160
2102	01/28/20	MJREIDER M. J. REIDER ASSOCIATES, INC.	665.00	2160
2103	01/28/20	MSSER040 M & S SERVICE COMPANY, INC.	6,249.00	2160
2104	01/28/20	MULLS010 MULL'S ELECTRIC, INC.	1,415.00	2160
2105	01/28/20	PA DEP PA DEP	150.00	2160
2106	01/28/20	PEC00010 PECO	26,300.17	2160
2107	01/28/20	PENNS080 PENNSYLVANIA ONE CALL	99.15	2160
2108	01/28/20	PIKEL020 PIKELAND CONSTRUCTION	5,500.00	2160
2109	01/28/20	PRED0010 PREDOC	8,042.51	2160
2110	01/28/20	SHARONLE SHARON LEWIS	114.00	2160
2111	01/28/20	VERIZFIO VERIZON	1,010.74	2160
2112	01/28/20	WGMALDEN W. G. MALDEN	3,378.00	2160
2113	01/28/20	WILLS010 WILLS PROPERTY MAINTENANCE	2,240.00	2160
2114	01/28/20	WIN911 WIN-911 SOFTWARE	495.00	2160

Report Totals	Paid	Void	Amount Paid	Amount Void
Checks:	31	0	194,265.41	0.00
Direct Deposit:	0	0	0.00	0.00
Total:	31	0	194,265.41	0.00

January 24, 2020
11:41 AM

Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 1

Batch Id: LHAINES Batch Type: C Batch Date: 01/28/20 Checking Account: MA MERIDIAN G/L Credit: Expenditure G/L Credit
Generate Direct Deposit: N

Check No.	Check Date	Vendor #	Name	Payment Amt	Street 1 of Address to be printed on Check	Charge Account	Account Type	Status	Seq	Acct
PO #	Enc Date	Item	Description		Description					
	01/28/20	ALSGROUP	ALS GROUP USA, CORP		P.O. BOX 975444					
20-00086	01/28/20	1	upland farm	561.20	06-420-000-030	Testing	Expenditure	Aprv	23	1
20-00086	01/28/20	2	upland farm	420.90	06-420-000-030	Testing	Expenditure	Aprv	24	1
20-00086	01/28/20	3	byers station wells	863.10	06-420-000-030	Testing	Expenditure	Aprv	25	1
20-00086	01/28/20	4	marsh harbor wells	889.80	06-420-000-030	Testing	Expenditure	Aprv	26	1
20-00086	01/28/20	5	byers station wells	616.50	06-420-000-030	Testing	Expenditure	Aprv	27	1
20-00086	01/28/20	6	lakeridge wells	606.00	06-420-000-030	Testing	Expenditure	Aprv	28	1
20-00086	01/28/20	7	reserve @ waynebrook	561.20	06-420-000-030	Testing	Expenditure	Aprv	29	1
20-00086	01/28/20	8	greenridge wells	471.90	06-420-000-030	Testing	Expenditure	Aprv	30	1
				4,990.60						

	01/28/20	AQUAP010	AQUA PA		PO BOX 70279					
20-00085	01/28/20	1	119 prescott drive	19.07	06-409-000-037	Water	Expenditure	Aprv	8	1
20-00085	01/28/20	2	439 prescott drive	18.00	06-409-000-037	Water	Expenditure	Aprv	9	1
20-00085	01/28/20	3	1 prospect hill	60.58	06-409-000-037	Water	Expenditure	Aprv	10	1
20-00085	01/28/20	4	meadow creek lane	15.00	06-409-000-037	Water	Expenditure	Aprv	11	1
20-00085	01/28/20	5	100 prescott drive	28.58	06-409-000-037	Water	Expenditure	Aprv	12	1
20-00085	01/28/20	6	308 flagstone road	28.58	06-409-000-037	Water	Expenditure	Aprv	13	1
20-00085	01/28/20	7	658 collingwood terrace	60.58	06-409-000-037	Water	Expenditure	Aprv	14	1
20-00085	01/28/20	8	29 yarmouth lane	28.58	06-409-000-037	Water	Expenditure	Aprv	15	1
20-00085	01/28/20	9	425 hemlock lane	71.17	06-409-000-037	Water	Expenditure	Aprv	16	1
20-00085	01/28/20	10	2680 primrose court	28.58	06-409-000-037	Water	Expenditure	Aprv	17	1
20-00085	01/28/20	11	241 fellowship road	18.00	06-409-000-037	Water	Expenditure	Aprv	18	1
20-00085	01/28/20	12	1120 sunderland ave	28.58	06-409-000-037	Water	Expenditure	Aprv	19	1
20-00085	01/28/20	13	111 dorothy lane	18.00	06-409-000-037	Water	Expenditure	Aprv	20	1
20-00085	01/28/20	14	381 lcr	28.58	06-409-000-037	Water	Expenditure	Aprv	21	1
20-00085	01/28/20	15	528 walter ct	23.28	06-409-000-037	Water	Expenditure	Aprv	22	1

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
				Water				
			475.16					
20-00084	01/28/20	01/28/20 ARROC010 ARRO CONSULTING, INC. 1 project 17000.01twp transition	651.58	108 WEST AIRPORT ROAD 06-400-000-002 Authority Administrator	Expenditure	Aprv	2	1
20-00084	01/28/20	01/28/20 2 project 9310.32 wwsystem admin	9,224.75	06-400-000-002 Authority Administrator	Expenditure	Aprv	3	1
20-00084	01/28/20	01/28/20 3 project 10270.53 takeridge	7,404.90	06-408-000-000 Engineering Fees	Expenditure	Aprv	4	1
20-00084	01/28/20	01/28/20 4 project 10270.56 rt 100 map	1,540.50	06-408-000-000 Engineering Fees	Expenditure	Aprv	5	1
20-00084	01/28/20	01/28/20 5 project 10270.64 milford farms	7,182.50	06-408-000-000 Engineering Fees	Expenditure	Aprv	6	1
20-00084	01/28/20	01/28/20 6 project 10270.71 act 537	1,531.75	06-408-000-000 Engineering Fees	Expenditure	Aprv	7	1
			27,535.98					
20-00087	01/28/20	01/28/20 BLOOMGLE BLOOMING GLEN CONTRACTORS 1 payment #8	9,956.71	901 MINSI TRAIL 06-483-000-000 Capital Repair	Expenditure	Aprv	31	1
20-00087	01/28/20	01/28/20 2 payment #9	36,600.75	06-483-000-000 Capital Repair	Expenditure	Aprv	32	1
			46,557.46					
20-00088	01/28/20	01/28/20 BUCKL010 BUCKLEY, BRION, MCGUIRE, MORRI 1 december - sewer collections	1,574.50	118 W. MARKET STREET 06-404-000-000 Legal Fees	Expenditure	Aprv	33	1
			1,574.50					
20-00089	01/28/20	01/28/20 CHRISFRA FRANTZ, CHRISTOPHER 1 review monthly board package	105.00	PO BOX 557 06-404-000-000 Legal Fees	Expenditure	Aprv	34	1
			105.00					
20-00090	01/28/20	01/28/20 CLEANWAT CLEAN WATER, INC. 1 monthly operations	11,330.00	170 DALLAS STREET 06-420-000-045 Contracted Services	Expenditure	Aprv	35	1
			11,330.00					
20-00091	01/28/20	01/28/20 COUNT010 COUNTRY ESTATE FENCE, INC. 1 ma - split rail	19.15	35 SENN DRIVE 06-420-000-020 Supplies	Expenditure	Aprv	36	1
			19.15					
20-00093	01/28/20	01/28/20 DECKM010 DECKMAN MOTOR & PUMP, INC 1 prescott - barnes pump	6,000.00	49 W. FRONT STREET 06-420-000-025 Maintenance & Repair	Expenditure	Aprv	40	1
20-00093	01/28/20	01/28/20 2 rt 100 plant - start capacitor	23.13	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	41	1
20-00093	01/28/20	01/28/20 3 rt 100 plant - motor repaired	505.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	42	1

Check No. PO #	Check Date Enc Date	Vendor # Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status Seq	Acct
			6,528.13				
20-00108	01/28/20	DELTRUST DELAWARE VALLEY PROP&LIA TRST 1 property insurance	3,083.96	P.O. BOX 95000-5725 06-409-000-035 Insurance	Expenditure	Aprv	98 1
20-00108	01/28/20	2 liability insurance	1,027.99	06-400-000-352 Insurance - Liability	Expenditure	Aprv	99 1
			4,111.95				
20-00095	01/28/20	EAGLHARD EAGLE HARDWARE 1 ma - switch	1.29	06-420-000-020 Supplies	Expenditure	Aprv	44 1
20-00095	01/28/20	2 ma - switch	13.70	06-420-000-020 Supplies	Expenditure	Aprv	45 1
20-00095	01/28/20	3 ma - drill	10.58	06-420-000-020 Supplies	Expenditure	Aprv	46 1
20-00095	01/28/20	4 ma - cera heater	45.99	06-420-000-020 Supplies	Expenditure	Aprv	47 1
20-00095	01/28/20	5 ma - poly tube	25.00	06-420-000-020 Supplies	Expenditure	Aprv	48 1
			96.56				
20-00094	01/28/20	EASTENVI EASTERN ENVIRONMENTAL CONTRACT 1 payment #5	5,367.50	6304 5TH STREET 06-483-000-000 Capital Repair	Expenditure	Aprv	43 1
			5,367.50				
20-00096	01/28/20	EDMUN010 EDMUND'S GOVTECH 1 2019 Q4 sewer bill prep	1,312.70	301 TILTON ROAD 06-406-000-100 Utility Billing Costs	Expenditure	Aprv	49 1
20-00097	01/28/20	1 2020 hosting services	1,975.00	06-420-000-045 Contracted Services	Expenditure	Aprv	50 1
20-00097	01/28/20	2 2020 software maintenance	8,105.00	06-420-000-045 Contracted Services	Expenditure	Aprv	51 1
			11,392.70				
20-00109	01/28/20	HOPKINS HOPKINS & SCOTT, INC 1 boundary survey	875.00	207 FRANKLIN AVENUE 06-420-000-045 Contracted Services	Expenditure	Aprv	100 1
			875.00				
20-00098	01/28/20	INKS0010 INK'S DISPOSAL SERVICE, INC. 1 maintenance @ eaglepointe	3,060.00	564 NORTH MANOR ROAD 06-420-000-025 Maintenance & Repair	Expenditure	Aprv	52 1
			3,060.00				
20-00083	01/28/20	MAPLEDIR MAPLE DIRECT INC 1 q1 2020 sewer bill postage	1,417.50	2349 HADDONFIELD ROAD 06-406-000-100 Utility Billing Costs	Expenditure	Aprv	1 1
			1,417.50				
	01/28/20	MCGOV020 MCGOVERN ENVIRONMENTAL, LLC		920 SOUTH BOLMAR STREET			

January 24, 2020
11:41 AM

Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 4

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
20-00104	01/28/20	1 lakeridge - walter court	1,159.20	06-420-000-031 Pump & Haul	Expenditure	Aprv	67	1
20-00104	01/28/20	2 eaglepointe	404.69	06-420-000-031 Pump & Haul	Expenditure	Aprv	68	1
20-00104	01/28/20	3 eaglepointe	404.69	06-420-000-031 Pump & Haul	Expenditure	Aprv	69	1
20-00104	01/28/20	4 eaglepointe	404.69	06-420-000-031 Pump & Haul	Expenditure	Aprv	70	1
20-00104	01/28/20	5 eaglepointe	404.69	06-420-000-031 Pump & Haul	Expenditure	Aprv	71	1
20-00104	01/28/20	6 eaglepointe	316.71	06-420-000-031 Pump & Haul	Expenditure	Aprv	72	1
20-00104	01/28/20	7 eaglepointe	404.69	06-420-000-031 Pump & Haul	Expenditure	Aprv	73	1
20-00104	01/28/20	8 eaglepointe	404.69	06-420-000-031 Pump & Haul	Expenditure	Aprv	74	1
20-00104	01/28/20	9 rt 100 wwt	77.63	06-420-000-031 Pump & Haul	Expenditure	Aprv	75	1
20-00104	01/28/20	10 rt 100 wwt	77.63	06-420-000-031 Pump & Haul	Expenditure	Aprv	76	1
20-00104	01/28/20	11 rt 100 wwt	77.63	06-420-000-031 Pump & Haul	Expenditure	Aprv	77	1
20-00104	01/28/20	12 rt 100 wwt	77.63	06-420-000-031 Pump & Haul	Expenditure	Aprv	78	1
20-00104	01/28/20	13 rt 100 wwt	77.63	06-420-000-031 Pump & Haul	Expenditure	Aprv	79	1
20-00104	01/28/20	14 rt 100 wwt	77.63	06-420-000-031 Pump & Haul	Expenditure	Aprv	80	1
20-00104	01/28/20	15 rt 100 wwt	77.63	06-420-000-031 Pump & Haul	Expenditure	Aprv	81	1
20-00104	01/28/20	16 rt 100 wwt	2,107.05	06-420-000-031 Pump & Haul	Expenditure	Aprv	82	1
20-00104	01/28/20	17 rt 100 wwt	2,058.43	06-420-000-031 Pump & Haul	Expenditure	Aprv	83	1
20-00104	01/28/20	18 eaglepointe	219.94	06-420-000-031 Pump & Haul	Expenditure	Aprv	84	1
20-00104	01/28/20	19 rt 100	77.63	06-420-000-031 Pump & Haul	Expenditure	Aprv	85	1
20-00104	01/28/20	20 199 prescott drive	4,187.50	06-420-000-031 Pump & Haul	Expenditure	Aprv	86	1
			13,098.01					

01/28/20	MCI00001	MCI COMM SERVICE	PO BOX 15043		
20-00100	01/28/20	1 telephone	71.64	06-409-000-032	Expenditure
			71.64	Telephone	Aprv

01/28/20	MJREIDER M. J. REIDER ASSOCIATES, INC.	107 ANGELICA STREET		
20-00103	01/28/20	1 eaglepointe	150.50	06-420-000-030
			42.00	Testing
			42.00	06-420-000-030
				Testing

January 24, 2020
11:41 AM

Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 5

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
20-00103	01/28/20	3 st andrews	119.00	06-420-000-030 Testing	Expenditure	Aprv	62	1
20-00103	01/28/20	4 marsh harbor	122.50	06-420-000-030 Testing	Expenditure	Aprv	63	1
20-00103	01/28/20	5 greenridge	108.50	06-420-000-030 Testing	Expenditure	Aprv	64	1
20-00103	01/28/20	6 lakeridge	108.50	06-420-000-030 Testing	Expenditure	Aprv	65	1
20-00103	01/28/20	7 marsh harbor	14.00	06-420-000-030 Testing	Expenditure	Aprv	66	1
			665.00					
	01/28/20	MSSER040 M & S SERVICE COMPANY, INC.		1220 VALLEY FORGE ROAD #16				
20-00102	01/28/20	1 prescott ps - service	2,031.50	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	57	1
20-00102	01/28/20	2 lakeridge ps - service	3,742.50	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	58	1
20-00102	01/28/20	3 ewing ps - service	475.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	59	1
			6,249.00					
	01/28/20	MULLS010 MULL'S ELECTRIC, INC.		357 MAIN STREET				
20-00101	01/28/20	1 kiloran wynd pump panel	365.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	55	1
20-00101	01/28/20	2 marsh harbor wotp spray pumps	1,050.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	56	1
			1,415.00					
	01/28/20	PA DEP PA DEP		Division of Storage Tanks				
20-00092	01/28/20	1 windsor ridge wotp	50.00	06-420-000-035 Permits	Expenditure	Aprv	37	1
20-00092	01/28/20	2 byers station lagoon	50.00	06-420-000-035 Permits	Expenditure	Aprv	38	1
20-00092	01/28/20	3 rt 100 wotp	50.00	06-420-000-035 Permits	Expenditure	Aprv	39	1
			150.00					
	01/28/20	PECO0010 PECO		PO BOX 37629				
20-00110	01/28/20	1 304 fellowship	294.66	06-409-000-036 Electric	Expenditure	Aprv	101	1
20-00110	01/28/20	2 2500 eagle farms rd	1,508.92	06-409-000-036 Electric	Expenditure	Aprv	102	1
20-00110	01/28/20	3 seabury lane	30.18	06-409-000-036 Electric	Expenditure	Aprv	103	1
20-00110	01/28/20	4 primrose court	1,169.83	06-409-000-036 Electric	Expenditure	Aprv	104	1
20-00110	01/28/20	5 100 prescott drive	373.85	06-409-000-036 Electric	Expenditure	Aprv	105	1
20-00110	01/28/20	6 301 pottstown pike	558.12	06-409-000-036 Electric	Expenditure	Aprv	106	1
20-00110	01/28/20	7 kristines/milford	191.86	06-409-000-036 Electric	Expenditure	Aprv	107	1

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
20-00110	01/28/20	8 711 dorian road	869.75	06-409-000-036 Electric	Expenditure	Aprv	108	1
20-00110	01/28/20	9 111 dorothy lane	107.37	06-409-000-036 Electric	Expenditure	Aprv	109	1
20-00110	01/28/20	10 dorlan drive	2,509.07	06-409-000-036 Electric	Expenditure	Aprv	110	1
20-00110	01/28/20	11 381 lcr	347.80	06-409-000-036 Electric	Expenditure	Aprv	111	1
20-00110	01/28/20	12 milford road	27.60	06-409-000-036 Electric	Expenditure	Aprv	112	1
20-00110	01/28/20	13 st. andrews road	31.14	06-409-000-036 Electric	Expenditure	Aprv	113	1
20-00110	01/28/20	14 park road	2,201.83	06-409-000-036 Electric	Expenditure	Aprv	114	1
20-00110	01/28/20	15 55 pottstown pike	679.14	06-409-000-036 Electric	Expenditure	Aprv	115	1
20-00110	01/28/20	16 yarmouth lane	681.31	06-409-000-036 Electric	Expenditure	Aprv	116	1
20-00110	01/28/20	17 sunderland ave	2,632.73	06-409-000-036 Electric	Expenditure	Aprv	117	1
20-00110	01/28/20	18 kiloran wynd	262.81	06-409-000-036 Electric	Expenditure	Aprv	118	1
20-00110	01/28/20	19 flagstone road	1,317.01	06-409-000-036 Electric	Expenditure	Aprv	119	1
20-00110	01/28/20	20 yarmouth lane	38.69	06-409-000-036 Electric	Expenditure	Aprv	120	1
20-00110	01/28/20	21 140 pottstown pike	358.19	06-409-000-036 Electric	Expenditure	Aprv	121	1
20-00110	01/28/20	22 275 fellowship road	7,709.55	06-409-000-036 Electric	Expenditure	Aprv	122	1
20-00110	01/28/20	23 heron hill drive	107.18	06-409-000-036 Electric	Expenditure	Aprv	123	1
20-00110	01/28/20	24 indian springs drive	97.69	06-409-000-036 Electric	Expenditure	Aprv	124	1
20-00110	01/28/20	25 yarmouth lane	195.03	06-409-000-036 Electric	Expenditure	Aprv	125	1
20-00110	01/28/20	26 cassandra lane	449.93	06-409-000-036 Electric	Expenditure	Aprv	126	1
20-00110	01/28/20	27 fellowship road	1,548.93	06-409-000-036 Electric	Expenditure	Aprv	127	1
<hr/>				26,300.17				
20-00107	01/28/20	PENN080 PENNSYLVANIA ONE CALL	99.15	P.O. BOX 640407 06-420-000-329 PA One Call	Expenditure	Aprv	97	1
<hr/>				99.15				
20-00106	01/28/20	PIKEL020 PIKELAND CONSTRUCTION	5,500.00	PO BOX 687 06-420-000-045 Contracted Services	Expenditure	Aprv	96	1
<hr/>				5,500.00				

Check No.	Check Date	Vendor #	Name	Payment Amt	Street 1 of Address to be printed on Check	Charge Account Description	Account Type	Status	Seq	Acct
PO #	Enc Date	Item Description								
	01/28/20	PREDO010	PREDOC		14 CHRISEVYN LANE					
20-00105	01/28/20	1	saybrooke wwt	285.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	87	1
20-00105	01/28/20	2	saybrooke wwt	2,195.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	88	1
20-00105	01/28/20	3	park road	395.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	89	1
20-00105	01/28/20	4	saybrooke wwt	432.26	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	90	1
20-00105	01/28/20	5	prescott ps	720.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	91	1
20-00105	01/28/20	6	eaglepointe wwt	615.25	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	92	1
20-00105	01/28/20	7	st. andrews wwt	840.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	93	1
20-00105	01/28/20	8	route 100 plant	720.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	94	1
20-00105	01/28/20	9	marsh harbor ps	1,840.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	95	1
				8,042.51						
	01/28/20	SHARONLE	SHARON LEWIS		315 STAFFORD CT					
20-00099	01/28/20	1	sewer overpayment	114.00	06-420-000-048	Misc expenses	Expenditure	Aprv	53	1
				114.00						
	01/28/20	VERIZFIO	VERIZON		PO BOX 15124					
20-00111	01/28/20	1	january 2020 telephone	1,010.74	06-409-000-032	Telephone	Expenditure	Aprv	128	1
				1,010.74						
	01/28/20	WGMALDEN	W. G. MALDEN		P.O. BOX 196					
20-00113	01/28/20	1	partlow recorder pen	1,395.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	131	1
20-00113	01/28/20	2	annual service calibrate meter	1,983.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	132	1
				3,378.00						
	01/28/20	WILLS010	WILLS PROPERTY MAINTENANCE		P. O. BOX 308					
20-00112	01/28/20	1	lakeridge - tree removal	1,160.00	06-420-000-045	Contracted Services	Expenditure	Aprv	129	1
20-00112	01/28/20	2	marsh harbor - tree removal	1,080.00	06-420-000-045	Contracted Services	Expenditure	Aprv	130	1
				2,240.00						
	01/28/20	WIN911	WIN-911 SOFTWARE		2024 E. ST. ELMO ROAD					
20-00114	01/28/20	1	annual software support	495.00	06-420-000-045	Contracted Services	Expenditure	Aprv	133	1
				495.00						

Count Line Items Amount

January 24, 2020
11:41 AM

Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 8

Check No.	Check Date	Vendor #	Name	Payment Amt	Street 1 of Address to be printed on Check	Charge Account Description	Account Type	Status Seq	Acct
PO #	Enc Date	Item Description							
Checks:	31	133		194,265.41					

There are NO errors or warnings in this listing.

Upper Uwchlan Township Municipal Authority
Balance Sheet
As of December 31, 2019

ASSETS

	<u>Cash</u>	
06-100-000-010	General Checking - Fulton Bank	\$ 111,088.29
06-100-000-015	General Checking - Meridian Bank	257,031.18
06-100-000-020	General Checking - WIPP	129,314.23
06-106-000-002	Connection Fee Account	347,891.28
06-110-000-100	Fulton Bank Bond Proceeds - ICS	-
06-110-000-200	Fulton Bank Bond Proceeds - MMA	<u>5,326,300.87</u>
	Total Cash	6,171,625.85
	<u>PSDLAF Investments:</u>	
06-109-000-003	CD Program	-
06-109-000-004	Full Flex	<u>183.84</u>
	Total Investments	183.84
	<u>Accounts Receivable</u>	
06-145-000-001	Usage Fees Receivable	280,273.23
06-145-000-002	Capital Assessment Receivable	-
06-147-000-000	Misc Accounts Receivable	<u>546.00</u>
	Total Accounts Receivable	280,819.23
	<u>Other Current Assets</u>	
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	3,457.58
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	3,457.58
	<u>Fixed Assets</u>	
06-162-000-001	Fixed Assets	1,537,175.65
06-162-000-050	Accumulated Depreciation	(402,814.94)
06-163-000-100	Phase II Construction Project (CIP)	<u>234,000.00</u>
	Total Fixed Assets	1,368,360.71
	<u>Other Long Term Assets</u>	
06-162-000-002	Excess Treatment Capacity	<u>1,649,293.24</u>
	Total Other Long Term Assets	1,649,293.24
	Total Assets	\$ 9,473,740.45

Upper Uwchlan Township Municipal Authority

Balance Sheet

As of December 31, 2019

LIABILITIES AND FUND BALANCE

Current Liabilities

06-200-000-020	Accounts Payable	-
06-230-000-010	Due to UUT General Fund	63,477.73
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	21,234.53
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	-
06-230-000-070	Due to UUT Sewer Fund - 2019 Bonds	5,205,556.07
06-240-000-000	Accrued Expenses	117,788.79
06-241-000-100	Retainage on Phase II Construction Project	-
06-245-000-000	Due to Customers	275.00
	Total Current Liabilities	5,408,332.12

Equity

06-272-000-001	Opening Bal Equity	753,500.35
06-272-000-002	Retained Earnings	3,604,237.58
	Current Period Net Income (Loss)	(292,329.60)
	Total Equity	4,065,408.33

Total Fund Balance

4,065,408.33

Total Liabilities & Fund Balance

\$ 9,473,740.45

Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

For the Period Ended December 31, 2019

		Actual 2019 YTD	Budget 2019	% of Budget	Actual 2018 (Audited)	Budget 2018
REVENUES						
06-340-000-000	Interest Income	143,374.14	15,000.00	955.8%	17,267.00	7,300.00
06-365-000-000	Usage Fees Residential	2,240,529.53	2,139,571.00	104.7%	2,140,967.00	2,027,640.00
06-365-000-001	Usage Fees Commercial	121,234.30	100,000.00	121.2%	91,041.00	101,014.00
06-365-000-010	Tapping Fees	25,875.00	2,543,000.00	1.0%	31,256.00	2,176,350.00
06-370-000-000	Misc revenue	-	1,000.00	0.0%	-	1,000.00
06-393-000-100	Proceeds from Long Tern Debt	-	5,393,221.00	0.0%	-	-
06-395-000-000	Refund of Prior Year Expenditures	-	-	#DIV/0!	-	-
06-395-000-100	Transfer from Sewer Fund	-	-	#DIV/0!	-	-
TOTAL REVENUES		\$ 2,531,012.97	\$ 10,191,792.00	24.8%	\$ 2,280,531.00	\$ 4,313,304.00
EXPENDITURES						
<i>General:</i>						
06-400-000-001	Administration	270,079.91	241,246.00	112.0%	211,283.00	234,219.00
06-400-000-002	Authority Adminstrator	128,346.80	120,000.00	107.0%	121,855.00	120,000.00
06-400-000-003	Professional Fees	-	12,000.00	0.0%	7,533.00	12,000.00
06-400-000-200	Admin Supplies	149.68	1,000.00	15.0%	-	1,000.00
06-400-000-341	Advertising	149.93	5,000.00	3.0%	3,408.00	1,000.00
06-400-000-352	Insurance - Liability	3,575.25	5,545.00	64.5%	4,661.00	2,337.00
06-400-000-355	Bank Fees	319.00	650.00	49.1%	205.00	650.00
06-402-000-450	Audit Fees	5,550.00	5,450.00	101.8%	5,300.00	5,200.00
06-404-000-000	Legal Fees	16,663.14	20,800.00	80.1%	15,202.00	20,800.00
06-406-000-100	Utility Billing Costs	12,216.87	10,000.00	0.0%	8,079.00	18,000.00
06-408-000-000	Engineering Fees	401,482.89	150,000.00	267.7%	127,632.00	150,000.00
06-408-000-100	Reimbursable Engineering Fees	-	-	#DIV/0!	-	-
		838,533.47	571,691.00	146.7%	505,158.00	565,206.00
<i>Building Expenses:</i>						
06-409-000-031	Lawn Care	-	5,000.00	0.0%	1,194.00	7,500.00
06-409-000-032	Telephone	14,512.98	15,000.00	96.8%	14,923.00	15,000.00
06-409-000-035	Insurance	10,725.75	8,756.00	122.5%	6,974.00	9,297.00
06-409-000-036	Electric	252,319.68	250,000.00	100.9%	250,538.00	250,000.00
06-409-000-037	Water	19,149.60	25,000.00	76.6%	11,628.00	25,000.00
06-409-000-052	Bldg Maint & Repair	-	10,000.00	0.0%	1,514.00	8,000.00
06-409-000-260	Building Supplies & Small Tools	16,010.63	5,000.00	320.2%	259.00	15,000.00
06-409-000-427	Waste Disposal	250.00	-	#DIV/0!	-	-
		312,968.64	318,756.00	98.2%	287,030.00	329,797.00
<i>Operations:</i>						
06-420-000-020	Supplies	51,257.99	20,000.00	256.3%	19,287.00	20,000.00
06-420-000-022	Chemicals	9,539.38	15,000.00	63.6%	10,680.00	15,450.00
06-420-000-023	Propane and Fuel Oil	1,151.74	5,000.00	23.0%	4,649.00	2,575.00
06-420-000-025	Maintenance & Repair	110,707.57	120,000.00	92.3%	98,619.00	120,000.00
06-420-000-030	Testing	39,736.19	40,000.00	99.3%	42,973.00	40,000.00
06-420-000-031	Pump & Haul	70,631.62	50,000.00	141.3%	50,600.00	50,000.00
06-420-000-032	Vegetation Management	18,055.61	20,000.00	90.3%	10,228.00	20,000.00
06-420-000-035	Permits	2,616.00	5,000.00	52.3%	3,768.00	5,000.00
06-420-000-042	Dues and Memberships	10.00	2,500.00	0.4%	2,100.00	2,500.00
06-420-000-045	Contracted Services	156,977.62	135,000.00	116.3%	142,952.00	135,000.00
06-420-000-048	Misc expenses	1,489.35	10,000.00	14.9%	27,070.00	5,000.00
06-420-000-235	Vehicle Maintenance	38.94	2,000.00	1.9%	3,910.00	2,000.00
06-420-000-329	PA One Call	1,253.74	2,500.00	50.1%	1,541.00	2,500.00
		463,465.75	427,000.00	108.5%	418,377.00	420,025.00

Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

For the Period Ended December 31, 2019
(Continued)

		Actual 2019 YTD	Budget 2019	% of Budget	Actual 2018 <i>(unaudited)</i>	Budget 2018
<u>Capital:</u>						
06-483-000-000	Capital Repair	689,483.51	50,000.00	1379.0%	-	30,000.00
06-483-000-100	Capital Construction	-	1,500,000.00	0.0%	-	-
06-493-000-083	Depreciation	-	50,000.00	0.0%	87,514.00	36,000.00
		689,483.51	1,600,000.00	43.1%	87,514.00	66,000.00
Total Expenditures before Operations Agreement and Transfers		\$ 2,304,451.37	\$ 2,917,447.00	79.0%	\$ 1,298,079.00	\$ 1,381,028.00
Net Income before Operations Agreement and Transfers		\$ 226,561.60	\$ 7,274,345.00	3.1%	982,452.00	2,932,276.00
<u>Other:</u>						
06-471-000-010	Operations Agreement Fee to UUT-2014 Bonds	280,630.75	369,213.00	76.0%	364,339.00	364,463.00
06-471-000-020	Operations Agreement Fee to UUT-2019 Bonds	190,062.30	190,681.00	99.7%	-	50,000.00
06-471-000-030	Operations Agreement Fee to UUT-2019A Bonds	48,198.15	-	#DIV/0!	-	-
		518,891.20	559,894.00	92.7%	364,339.00	414,463.00
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	-	-	#DIV/0!	-	-
		-	-	#DIV/0!	-	-
TOTAL EXPENDITURES		\$ 2,823,342.57	\$ 3,477,341.00	81.2%	\$ 1,662,418.00	\$ 1,795,491.00
OPERATING INCOME		\$ (292,329.60)	\$ 6,714,451.00	-4.4%	\$ 618,113.00	\$ 2,517,813.00

Upper Uwchlan Township Municipal Authority
Sewer Billings

Month to Month Change in Receivables and Collections

	December 2019	November 2019	Change
Beginning Receivable Balance	265,481.68	265,481.68	-
<u>Billings:</u>			
Calculated charges billed	2,228,538.22	2,228,538.22	-
Billing adjustments	7,869.97	15,653.95	7,783.98
Late payment penalty	109,060.25	81,817.48	(27,242.77)
Adjustments	1,243.01	(6,933.38)	(8,176.39)
	2,612,193.13	2,584,557.95	(27,635.18)
<u>Less:</u>			
Collections*	2,375,305.75	2,191,266.57	(184,039.18)
Receivable balance, month end	236,887.38	393,291.38	156,404.00

This report includes all sewer billings, not just delinquent accounts.

Upper Uwchlan Township Municipal Authority
Sewer Billings

Month to Month Change in Delinquent Accounts
(accounts that have had a balance in excess of \$380 for 2 or more quarters)

	12/31/2018	5/31/2019	8/31/2019	9/30/2019	10/31/2019	11/30/2019	12/31/2019
Number of delinquent accounts	148	176	207	160	133	180	125
Total delinquent balance	206,093	221,151	224,917	213,107	181,653	208,769	172,046

<u>2019 Payment Schedule</u>	<u>Bills Mailed</u>	<u>Bills Mailed</u>	<u>Payment Due</u>
First quarter	1/31/2018	1/31/2019	2/28/2019
Second quarter	4/30/2018	4/30/2019	5/31/2019
Third quarter	7/31/2018	7/31/2019	8/31/2019
Fourth quarter	10/31/2018	10/31/2019	11/30/2019



**UPPER UWCHLAN TOWNSHIP MUNICIPAL AUTHORITY
CHESTER COUNTY
COMMONWEALTH OF PENNSYLVANIA**

2020 Budget

**Budget Presented – December 17, 2019
Budget Approved – January 28, 2020**

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About the Upper Uwchlan Township Municipal Authority

Organization

The Upper Uwchlan Township Municipal Authority (“Authority”) was incorporated by Upper Uwchlan Township, Chester County, Pennsylvania in 1990 for the purpose of operating the sewage collection, treatment plants and other facilities used in the processing and disposal of sewage from Township residents and businesses. All of the capital assets are owned by Upper Uwchlan Township and are operated and maintained by the Authority under a long-term arrangement.

Board of Directors

The Authority is governed by a five (5) member Board of Directors. Board members are appointed by the Upper Uwchlan Township Board of Supervisors to serve for five (5) year terms. Each year, the Board votes to select a new Chairman and Vice-Chairman. The current Board members and their terms of office are:

<u>Member</u>	<u>Position</u>	<u>Term Expires</u>
Donald B. Carlson	Chairman	12/31/2023
Hal Harper	Vice-Chairman	12/31/2023
Robert Watts	Member	12/31/2022
Bill Quinn	Member	12/31/2021
Louis Schack	Member	12/31/2020

Management and Operations

The Authority has appointed G. Matthew Brown, P.E., D.E.E., ARRO Consulting, Inc. as the Authority Administrator and has hired ARRO Consulting, Inc. as the Authority’s Engineer. Clean Water, Inc. was appointed by the Authority as the Authority Operator.

The Authority has an administration agreement with Upper Uwchlan Township under which the Township employees perform many functions for the Authority and the Authority reimburses the Township for the cost of the services provided. These include: oversight, providing financial services (paying Authority bills, preparing monthly reports for Authority meetings, etc.) treasury functions, collection of sewer receipts and providing services to residents, maintenance of facilities (grass cutting, etc.) and any other services needed.

The Authority has no employees.

Executive Summary

Upper Uwchlan Township (Township) has eight (8) public wastewater systems located throughout the Township to collect and treat sewage generated by homes and businesses residing within each system service area. The Township also has a large number of homes and businesses that have private on-lot disposal systems consisting of septic tanks and drain fields, some of which are failing. This is especially critical as the Township lies within two (2) high quality watersheds; Marsh Creek (which lies within the East Branch of Brandywine Creek watershed) and Pickering Creek; which both ultimately drain to the Chesapeake Bay. Due to the initiatives outlined by the United States Environmental Protection Agency (US EPA) to protect the Delaware and Chesapeake Bays from nutrient overload, these high quality watersheds must be protected, specifically from higher levels of nitrogen and phosphorous compounds commonly found in wastewater. Failing or malfunctioning on-lot disposal systems have an adverse impact on the watersheds.

A review of the soils within the Township boundary using the Natural Resources Conservation Service Web Soil Survey indicates that over half of the soils in the Township have very limited suitability for septic tank absorption fields. The soil properties considered are those that affect absorption of the effluent, construction and maintenance of the system, and public health. Very limited suitability indicates that the soil has one or more features that are unfavorable for septic tank absorption fields. Knowing this, the Township strives to connect residences and businesses to one (1) of the eight (8) public wastewater systems whenever possible.

Another complication that results from the high quality watersheds that surround the Township is the method used to dispose of treated effluent. Of the eight (8) wastewater treatment plants (WWTP) in the Township, only two (2) are permitted by the Pennsylvania Department of Environmental Protection (PA DEP) to discharge treated wastewater directly to a stream (which is the conventional method of wastewater disposal in PA). The remaining six (6) WWTPs utilize land application of treated effluent for disposal. Land application must be used because obtaining a direct discharge permit is becoming increasingly difficult as the PA DEP continues to make the treatment requirements more and more stringent to comply with the USA EPA Chesapeake Bay program requirements. This becomes even more complicated when the stream that is being discharged to is high quality. The level of treatment that would be required to meet these standards is so high that it would not be cost effective to the Township or its residents to construct and operate the wastewater systems this way. Therefore, land application is used in lieu of direct discharge of disposal of treated wastewater.

The capital assets of the wastewater system are owned by the Township, but are operated and maintained by the Township Municipal Authority (Authority). More detailed information on each of the eight (8) wastewater facilities, what has been achieved in the past year, and the goals for the future can be found below.

2019 Accomplishments and Our Goals for 2020

What was accomplished in 2019

In 2019, the Authority's quarterly sewer rates were not increased and remained at \$190 per quarter. While there were not many major projects that broke ground over the course of the calendar year, the Authority did secure funding to refinance debt associated with the Series of 2014 General Obligation Bond are for projects that are on schedule for 2020 and beyond (discussed in additional detail below).

In 2018, the Authority initiated a fencing project that improved safety and security at several wastewater facilities, including the Eaglepointe WWTP, the Lakeridge WWTP effluent disposal sand mounds and absorption trenches, and the Reserve at Eagle effluent storage lagoon and spray fields. Construction was completed in 2019.

In 2019, construction associated with the project to relocate the existing sludge holding tank at the Lakeridge WWTP, occurred. The WWTP was originally designed with the holding tank located indoors, however the Authority's insurance adjuster indicated that in order to maintain coverage, the tank would have to be moved outdoors.

External repairs of reinforced concrete effluent storage tanks located at three sites in Upper Uwchlan Township were completed; these sites are: Eagle Hunt Effluent Storage Tank, Windsor Ridge Effluent Storage Tank and Upland Farms Effluent Storage Tank.

The repair and rehabilitation of the Marsh Harbour control building was completed, as well as repairs to berms at the Route 100 Wastewater Treatment Facility and Reserve at Eagle lagoons.

What is planned for 2020

As previously stated, in 2019 the Authority secured funding in the amount of \$5.105 million for projects that are scheduled to take place in 2020 or later. These projects are as follows:

- \$2.5 million for the Route 100 WWTP Phase III upgrade
 - As discussed in the Route 100 Regional Wastewater Treatment Facility Detailed Description, the McKee/Fetter's property development is going to exceed the Phase II capacity of the Route 100 WWTP. The developer is going to design and construct Phase III of the WWTP, and the Township will purchase excess capacity that results from the upgrade that the developer does not utilize for the McKee/Fetter's property. This excess capacity will be used for connecting new or existing homes within the Authority's service area to the Route 100 WWTP.
- \$1.1 million for the Byers Road Phase II collection system expansion
 - Part of the Authority's most recent update to the Act 537 Sewage Facilities Plan on record with the PA DEP indicates that a collection system will be installed out Byers Road east of Route 100. The design of this expansion is complete, and the only outstanding item is obtaining all approvals from PA DEP. The project is anticipated to be publicly bid in February of 2020, and construction is expected to begin in April of 2020.
- \$1 million for the purchase of land for effluent disposal
 - As discussed in the Executive Summary, six (6) of the wastewater facilities within the Township utilize land application for treated effluent as opposed to direct stream discharge. For most of the facilities, there was no anticipated growth at the time of design and construction, therefore there is adequate disposal capacity for the size of the WWTP. However, the Route 100 WWTP was constructed with the knowledge that it would be expanded. The Township does not currently own enough land to dispose of all 900,000 gallons of treated effluent that could be generated in a day once Phase III is constructed. Therefore, purchase of land that is sufficient for land application of wastewater is an important task for the Township and Authority to pursue.
- Remaining funds will be used for the Milford Farms collection system expansion
 - Milford Farms is known as an area with a large number of failing septic systems. As part of the Chester County Health Department's review of the Jankowski Tract planning documents, they commented that "there have been several malfunctions along Surrey Lane, Font Road and Carriage Drive, the area would benefit public sewerage." This, in addition to the presence of residents at the Authority meetings toward the end of the 2018 calendar year, is the impetus behind the beginning of design of a collection system in this area.

Wastewater Treatment Facilities – At a Glance

Facility Name	Location	Daily Capacity (gallons)	Disposal Methods	Date Placed in Service	Number of businesses or residences served
Eaglepointe	South of Ticonderoga Blvd, adjacent to the Pa. Turnpike	15,000	Effluent is directly discharged to a tributary of Marsh Creek	2003	30 businesses located west of Route 100 and Little Conestoga Road
Greenridge	Southwest of the intersection of Greenridge Rd and Dan Dr	15,125	Effluent is discharged to one disposal field for drip irrigation	2005	61 homes in Greenridge & Stonehedge developments
Lakeridge	North of Dorlan Mill Rd and to the east of Moore Rd	40,000	Effluent is discharged to a series of five sand mounds and one subsurface absorption bed	1983	148 homes in Lakeridge, Hunter's Ridge and Ivystone developments
Marsh Harbour	Between Mallard Ln and Carpenter's Cove Ln	82,000	Effluent is discharged to two disposal fields for spray irrigation	1990	All homes in Marsh Harbour and Heron Hill developments
Meadow Creek	Southeast corner of Styer Rd and Meadow Creek Ln	1,300	Effluent is discharged to one subsurface absorption bed	1990	5 homes in Meadow Creek development
Route 100 Regional *	East of Route 100 along the north side of Fellowship Rd	900,000	Effluent is discharged to 19 disposal fields for spray and drip irrigation	2004	All homes in Byers Station, Reserve at Eagle, Reserve at Waynebrook, Windsor Ridge, Eagle Manor, Heather Hill, and Windsor Place.
Saybrooke	Southwest side of Yarmouth Ln	9,200	Effluent is discharged to a series of four subsurface absorption beds	1999	41 homes in Saybrooke development
St. Andrews Brae	North side of Kiloran and Bryan Wynds southern intersection	3,600	Effluent is directly discharged to a tributary of Marsh Creek	2003	13 homes in St. Andrews Brae development

* The Route 100 Regional WWTP will have an ultimate capacity of 900,000 gallons. Phase I of the WWTP (placed in service in 2004) had a capacity of 300,000 gallons, Phase II of the WWTP (placed in service in 2015) has a capacity of 600,000. Phase III of the WWTP is anticipated to be placed into service in 2020.

BASIS OF ACCOUNTING AND BUDGETING

Accounting Basis

The Authority uses the accrual basis of accounting. Under this basis, revenues are recorded when earned and expenses are recorded when incurred, even though actual payment or receipt may not occur until after the period ends.

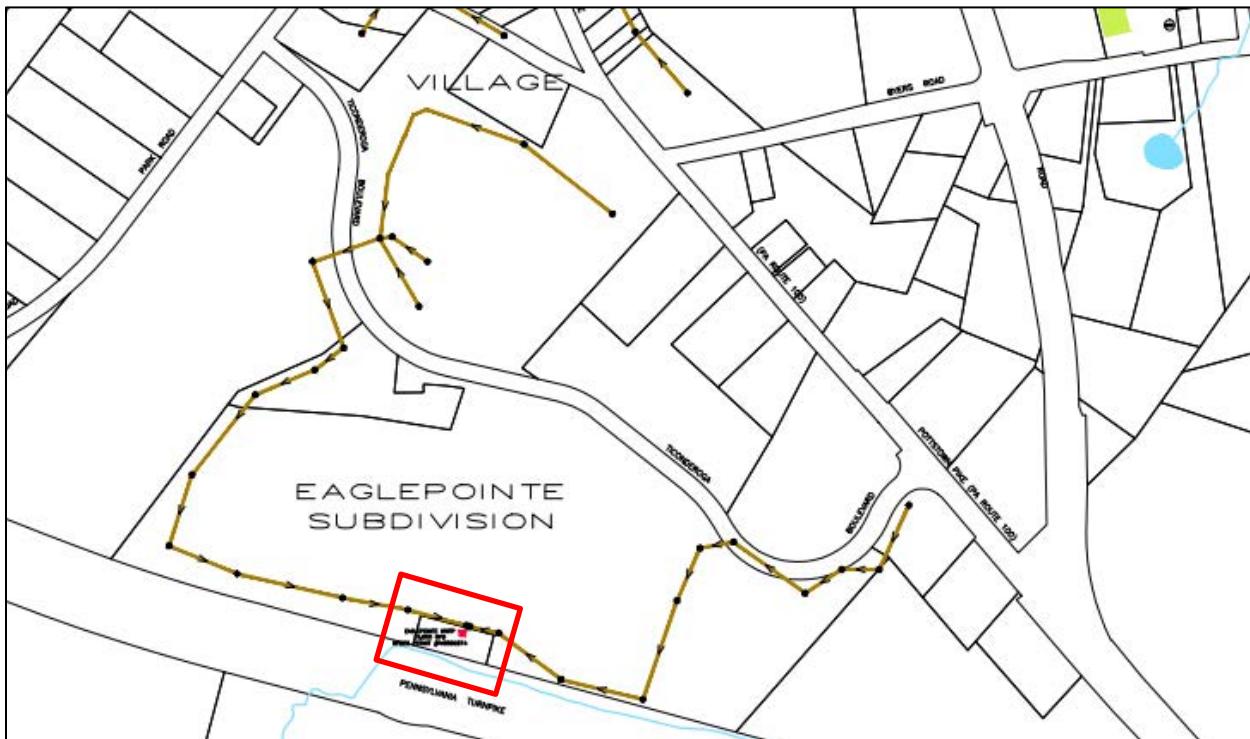
Basis of Budgeting

The Authority's budget has been prepared using the modified accrual method of accounting. Modified accrual accounting recognizes revenues when they become measurable and available. **Measurable** means that the dollar amount of the transaction is known. **Available** means that it is collectible within the current period, or soon enough after the end of the current period to pay liabilities of the current period. For this purpose, the Township considers revenues to be available if they are collected within 30 days of the reporting period. Expenditures are generally recorded when a liability is incurred.

Wastewater Treatment Facilities – Detailed Description

Eaglepointe Wastewater System

The Eaglepointe Wastewater System consists of the Eaglepointe WWTP, rated for 15,000 gallons per day (gpd), which collects sewage from commercial properties along Eaglepointe Boulevard. The treatment process consists of an equalization tank, an aeration tank, a clarifier, sand filters, and a chemical contact tank. Following treatment, effluent is discharged directly into a tributary of Marsh Creek under the PA DEP National Pollutant Discharge Elimination System (NPDES), Permit No. PA0036374.



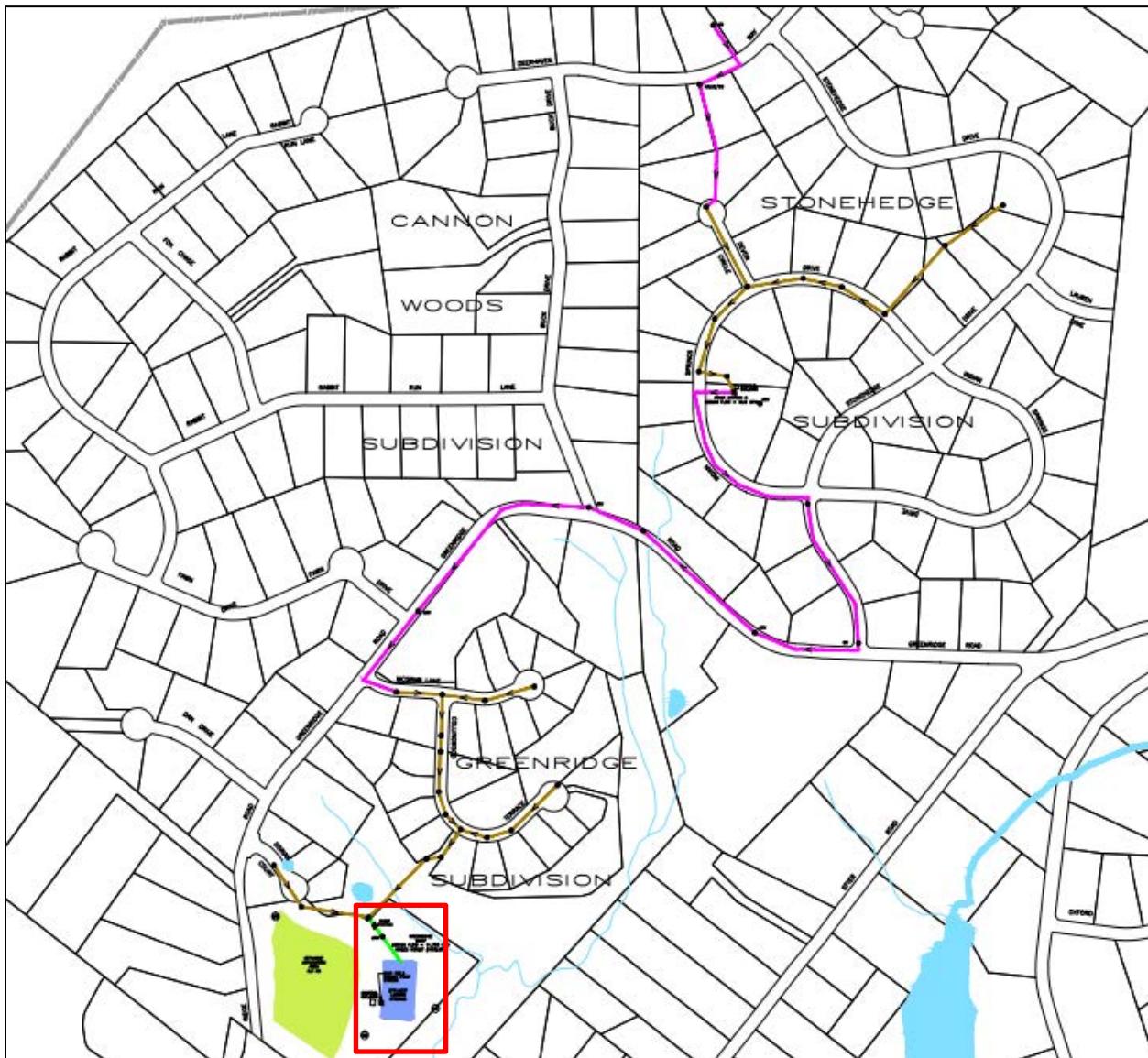
Eaglepointe Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Greenridge Wastewater System

The Greenridge Wastewater System consists of the Stonehedge conveyance pump station and the Greenridge WWTP, rated for 15,125 gpd, which collect sewage from residential customers within the Greenridge and Stonehedge developments. The Stonehedge conveyance pump station collects sewage from the Stonehedge development and conveys it to the Greenridge WWTP while sewage from the Greenridge development flows via gravity to the WWTP. The wastewater from both developments is received by an influent pump station on the WWTP property, which conveys the sewage to a dual-sectioned treatment lagoon. Following treatment, the wastewater flows through sand filters prior to disposal via drip irrigation within the field located behind the WWTP. This is done under PA DEP Water Quality Management (WQM) Permit No. 1502403.



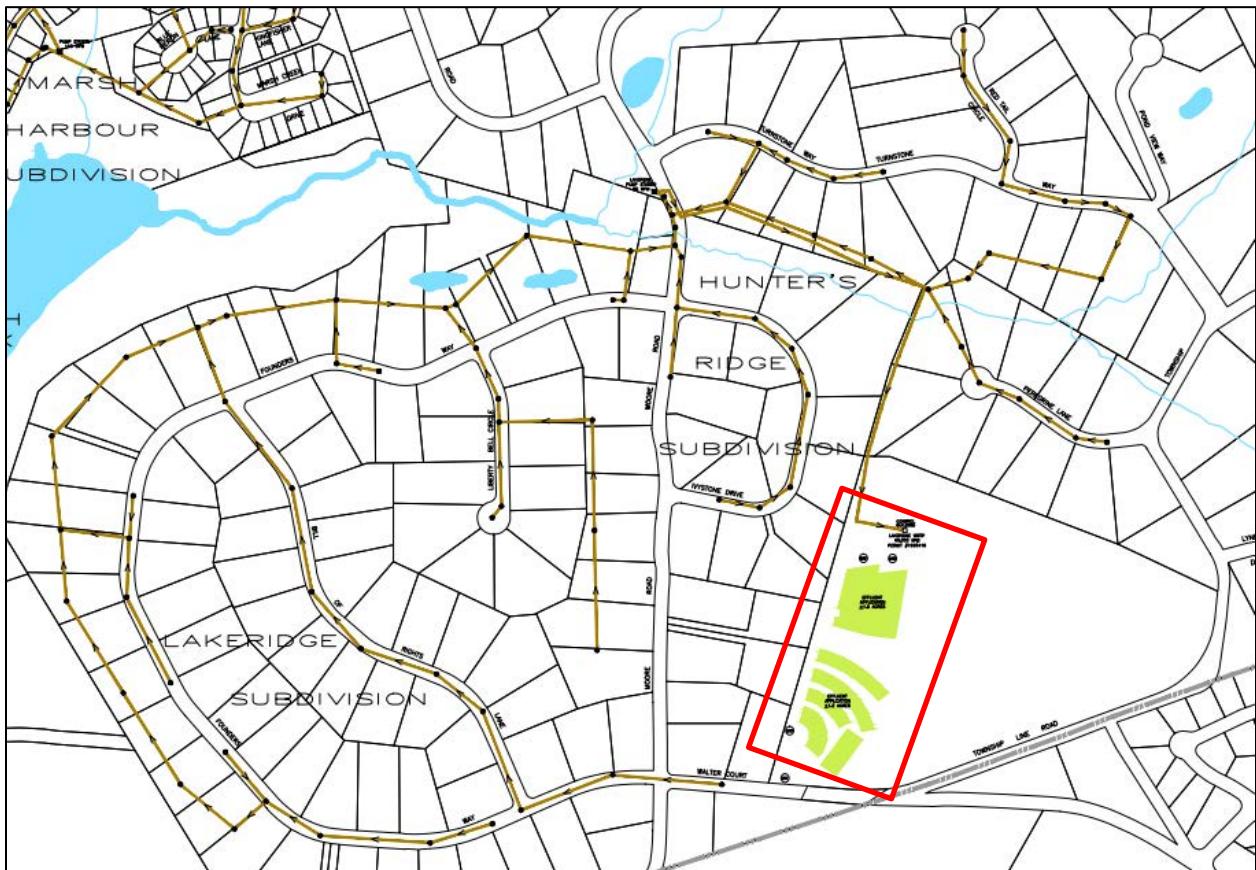
Greenridge Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Lakeridge Wastewater System

The Lakeridge Wastewater System consists of the Lakeridge conveyance pump station and the Lakeridge WWTP, rated for 42,000 gpd, which collects sewage from residential customers in the Lakeridge, Hunter's Ridge, and Ivystone developments. The Lakeridge conveyance pump station collects sewage from the developments and conveys it to the WWTP. The treatment process consists of a sequencing batch reactor (SBR), holding tank, and sand filter prior to disposal through one (1) of five (5) sand mounds, then to a subsurface absorption bed for final disposal. This is done under PA DEP WQM Permit No. 1590416.



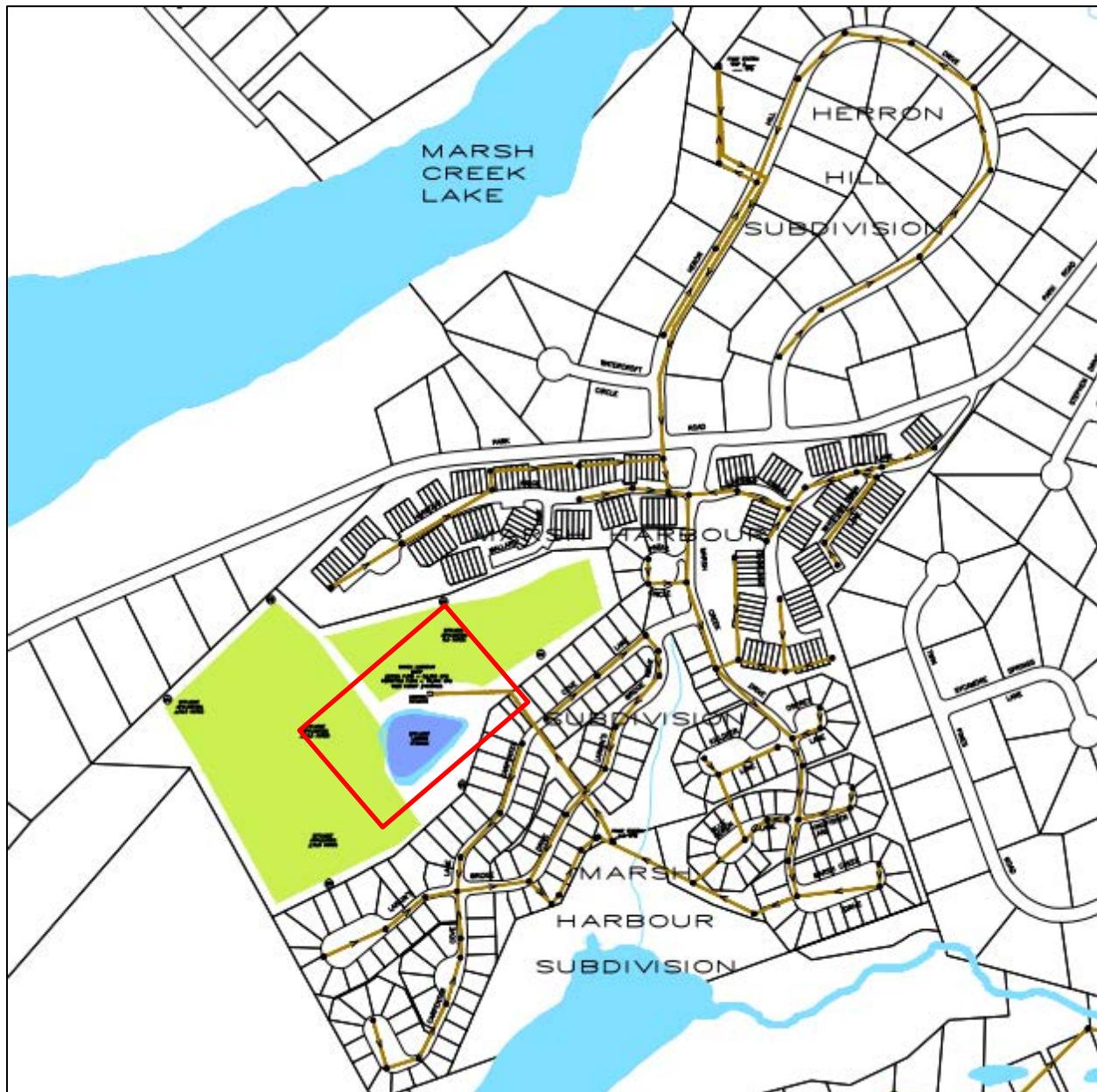
Lakeridge Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Marsh Harbour Wastewater System

The Marsh Harbour Wastewater System consists of the Herron Hill conveyance pump station, the Marsh Harbour conveyance pump station, and the Marsh Harbour WWTP, rated for 82,000 gpd which collects sewage from residential customers within the Marsh Harbour and Herron Hill developments. The Herron Hill pump station collects sewage from homes within the Herron Hill development and pumps it to the Marsh Harbour development collection system. Wastewater from both the Herron Hill and Marsh Harbour developments is collected by the Marsh Harbour pump station and conveyed to the Marsh Harbour WWTP. The treatment process consists of a bar screen, SBR, and a storage lagoon prior to discharge via spray irrigation on one (1) of two (2) fields located behind the WWTP. This is done under PA DEP WQM Permit No. 1598425.



Marsh Harbour Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Meadow Creek Wastewater System

The Meadow Creek Wastewater System consists of the Meadow Creek WWTP, rated for 1,300 gpd, collects sewage from five (5) residential customers in the Meadow Creek development. The treatment process consists of an equalization tank prior to discharge through a seepage field located at the corner of Meadow Creek Lane and Styer Road. As the Meadow Creek WWTP is only a seepage field, it is not permitted through PA DEP.



Meadow Creek Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Route 100 Regional Wastewater System

The Route 100 Regional Wastewater System consists of eight (8) conveyance pump stations, the Route 100 Regional WWTP rated for 600,000 gpd, and seven (7) effluent disposal systems. This wastewater system was designed to be upgraded in phases, which are further discussed below. The Byers Station, Eagle Manor, Ewing, Ewing West Vincent, Little Conestoga, Reserve at Eagle 1, Reserve at Eagle 2, and Windsor Ridge conveyance pump stations collect wastewater from residential customers throughout numerous developments and convey it to the WWTP for treatment (discussed in additional detail below). Following treatment, the effluent is distributed to the Reserve at Eagle, Eagle Hunt, Reserve at Waynebrooke, Windsor Ridge, Byers Station, or Ewing Tract effluent disposal system for storage, filtration, and disposal via spray or drip irrigation. This is completed under PA DEP WQM Permit No. 1086294.

Route 100 Regional WWTP Phase I:

Phase I had a capacity of 300,000 gpd and commenced operation in 2004. This phase provided wastewater service to residential customers in the Byers Station (including the Ewing Tract), Eagle Hunt, Reserve at Eagle, Reserve at Waynebrook, and Windsor Ridge developments. Phase I treatment was completed via a secondary treatment aerated lagoon.

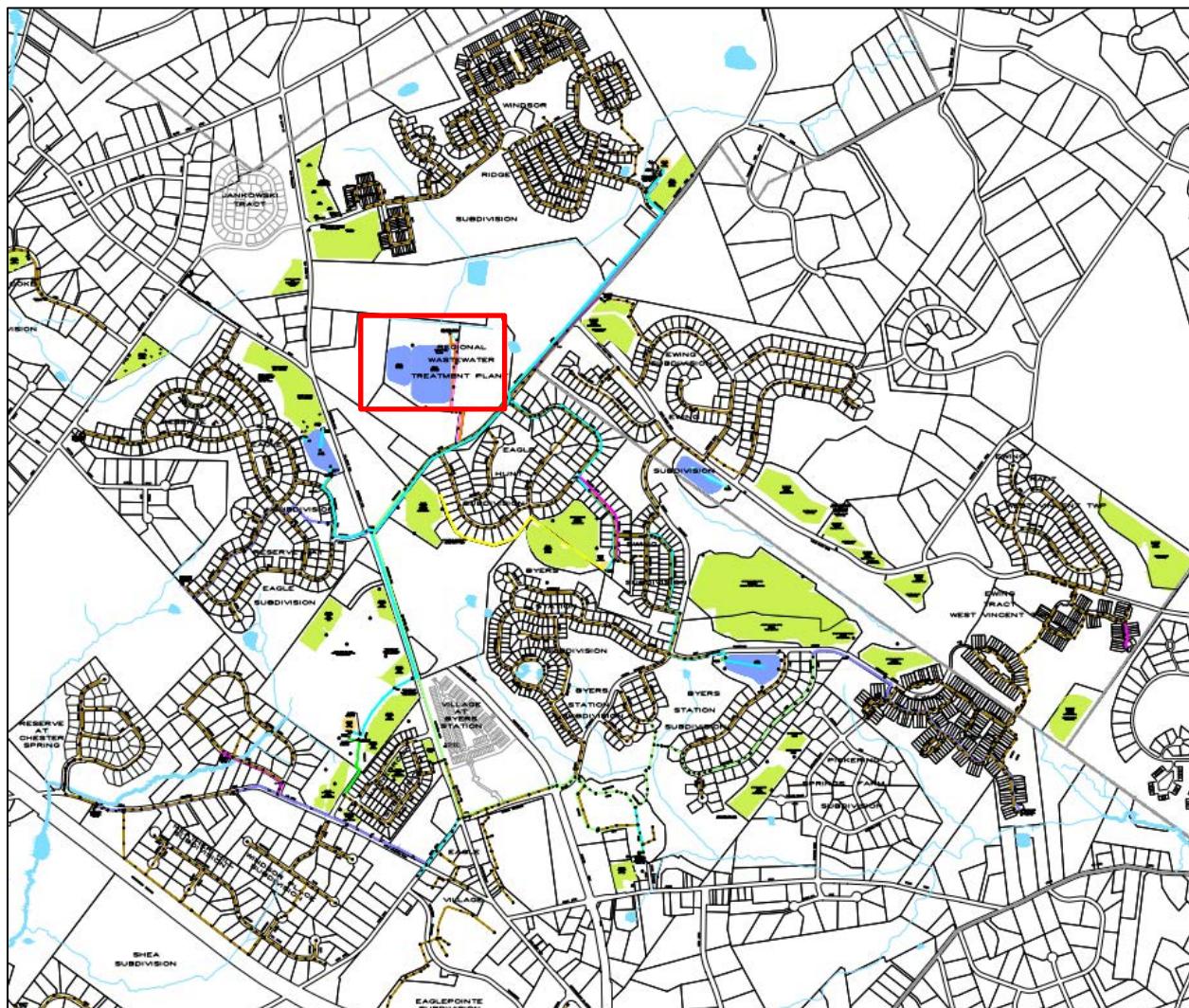
Route 100 Regional WWTP Phase II:

Phase II added an additional 300,000 gpd of capacity for a total of 600,000 gpd and commenced operation in 2015. This phase has already provided public sewer to the Eagle Manor, Windsor Place,

and Heather Hill developments, and there are plans for additional connections in upcoming years. The Phase II expansion of the WWTP included the addition of two (2) SBRs to allow for a higher level of treatment, specifically nitrogen reduction. Generally, two-thirds of the incoming wastewater is treated by the SBRs and the remaining third is treated by the secondary treatment aerated lagoon constructed in Phase I.

Route 100 Regional WWTP Phase III:

Phase III is currently undergoing design and permitting due to a new development that has been approved in the Township, the McKee/Fetter's Property. This property will exceed the Phase II capacity of the WWTP, so the developer is going to construct Phase III. This phase will add two (2) additional SBRs to the WWTP, allowing for 800,000 gpd of treatment capacity in the SBRs and the remaining 100,000 gpd by the secondary treatment aerated lagoon constructed in Phase I.



Route 100 Regional Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Saybrooke Wastewater System

The Saybrooke Wastewater System consists of the Seabury, Saybrooke 1, and Saybrooke 2 conveyance pump stations and the Saybrooke WWTP, rated for 9,200 gpd, which collect sewage from residential customers within the Saybrooke development. The Seabury pump station collects sewage from five (5) homes along Seabury Lane and pumps it to the Saybrooke 2 pump station. The Saybrooke 2 pump station conveys sewage collected from residences on the western part of Yarmouth Lane and Seabury to the WWTP, while the Saybrooke 1 pump station collects and conveys sewage collected from residences on the eastern part of Yarmouth Lane. The treatment process consists of an SBR followed by sand filtration and an ultraviolet disinfection system. Following treatment, treated effluent is discharged to one (1) of four (4) subsurface absorption beds located adjacent to the WTP property under PA DEP WQM Permit No. 1593413.



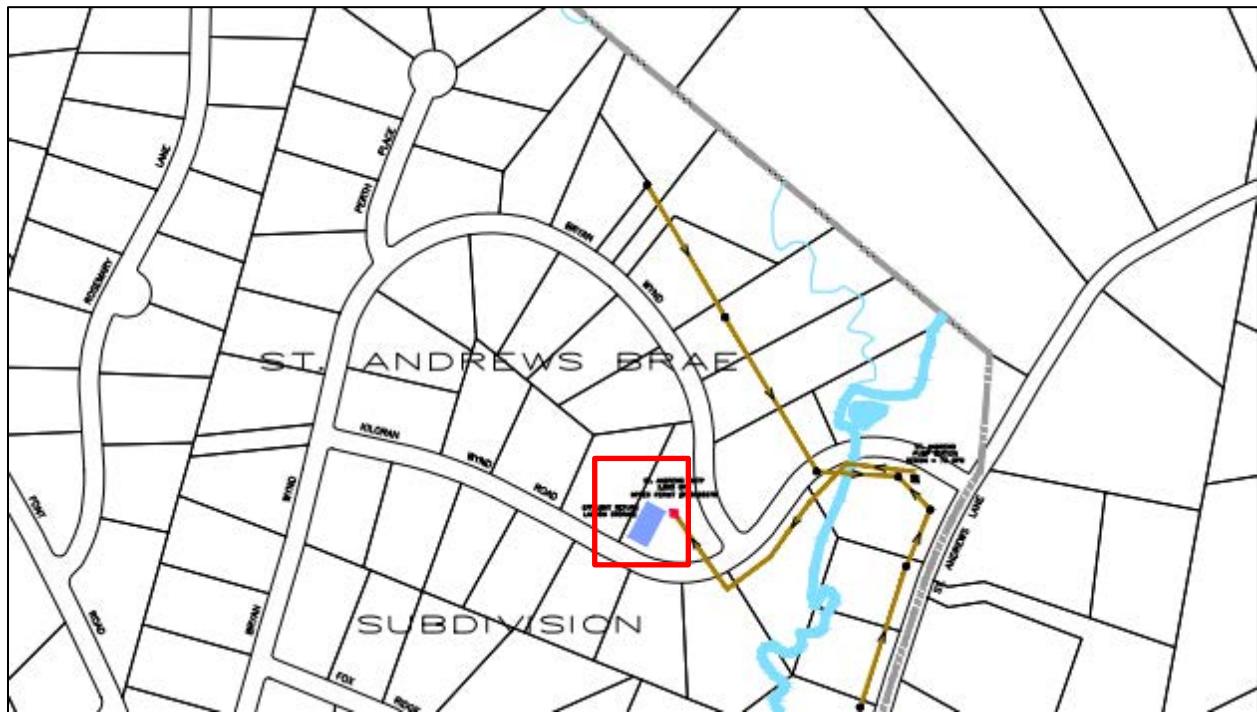
Saybrooke Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

St. Andrew's Brae Wastewater System

The St. Andrew's Brae Wastewater System consists of the St. Andrew's Brae conveyance pump station and the St. Andrew's Brae WWTP, rated for 3,600 gpd, which collect sewage from residential customers within the St. Andrew's Brae development. The treatment process consists of an equalization tank, an aeration tank, a clarifier, disinfection, sand filtration, and dechlorination. Following treatment, treated effluent is discharged directly into Black Horse Creek under PA DEP NPDES Permit No. PA0058378.



St. Andrew's Brae Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

**Upper Uwchlan Municipal Authority
2020 BUDGET and FIVE YEAR PROJECTION**

	2017 Actual (audited)	2018 Actual (audited)	YTD 2019 (thru 10/31)	2019 Budget	\$ Over Budget	% of Budget	2020 Budget	2021 Budget	2022 Budget	2023 Budget	2024 Budget
Income											
300 Revenues											
06-340-000-000 Interest Income	7,811	17,267	123,129	15,000	108,129	721%	80,000	60,000	50,000	50,000	30,000
06-365-000-000 Usage Fees - Residential	1,924,864	2,140,967	1,716,745	2,139,571	(422,826)	-20%	2,293,851	2,464,851	2,586,451	2,651,051	2,658,651
06-365-000-001 Usage Fees - Commercial	113,285	91,041	92,117	100,000	(7,883)	-8%	-	100,000	100,000	120,000	120,000
06-365-000-010 Connection Fees	139,413	31,256	25,875	2,543,000	(2,517,125)	-99%	1,622,250	1,968,750	945,000	157,500	157,500
06-370-000-000 Misc Revenue	174,949	-	-	1,000	(1,000)	-100%	1,000	1,000	1,000	1,000	1,000
06-393-000-100 Proceeds from Long Term Debt	-	-	-	5,393,221	(5,393,221)	0%	-	-	-	-	-
06-395-000-000 Refund of Prior Year Expenditures	-	-	-	-	-	0%	-	-	-	-	-
06-395-000-100 Transfer from Sewer Fund	-	-	-	-	-	0%	-	-	-	-	-
06-395-000-100 Transfer from Sewer Fund	385,000	-	-	-	-	0%	-	-	-	-	-
Total Income	2,745,322	2,280,531	1,957,866	10,191,792	(2,840,705)	494%	3,997,101	4,594,601	3,682,451	2,979,551	2,967,151
Expense											
General											
06-400-000-001 Administration	212,464	211,283	228,723	241,246	(12,523)	-5%	273,821	282,036	290,497	299,212	308,188
06-400-000-002 Authority Administrator	123,249	121,855	108,686	120,000	(11,314)	-9%	120,000	120,000	100,000	103,000	106,090
06-400-000-003 Professional Fees	3,001	7,533	-	12,000	(12,000)	-100%	12,000	12,000	13,000	14,000	14,000
06-400-000-200 Admin Supplies	10	-	150	1,000	(850)	-85%	1,000	1,030	1,061	1,093	1,126
06-400-000-341 Advertising	-	3,408	68	5,000	(4,932)	-99%	5,000	2,000	2,000	2,000	2,000
06-400-000-352 Insurance - Liability	8,133	4,661	3,575	5,545	(1,970)	-36%	5,370	5,531	5,697	5,868	6,044
06-400-000-355 Bank Fees	530	205	275	650	(375)	-58%	650	650	650	650	650
06-402-000-450 Audit Fees	5,050	5,300	5,550	5,450	100	2%	5,450	5,600	5,750	5,900	6,050
06-404-000-000 Legal Fees	19,969	15,202	7,391	20,800	(13,409)	-64%	25,000	25,000	25,000	25,000	25,000
06-406-000-100 Utility Billing Costs	18,530	8,079	10,904	10,000	904	9%	12,000	12,000	12,000	12,000	12,000
06-408-000-000 Engineering Fees	166,097	127,632	354,921	150,000	204,921	137%	175,000	175,000	175,000	175,000	175,000
Total General Expenses	557,033	505,158	720,243	571,691	148,552	26%	635,291	640,847	630,655	643,722	656,147
Building Expenses											
06-409-000-031 Lawn Care	11,528	1,194	-	5,000	(5,000)	-100%	5,000	5,000	5,000	5,000	5,000
06-409-000-032 Telephone	13,228	14,923	12,021	15,000	(2,979)	-20%	15,000	15,000	15,000	15,000	15,000
06-409-000-035 Insurance - Property	-	6,974	10,726	8,756	1,970	22%	11,078	11,632	12,213	12,824	13,485
06-409-000-036 Electric	204,222	250,538	194,982	250,000	(55,018)	-22%	250,000	250,000	250,000	250,000	250,000
06-409-000-037 Water	6,366	11,628	16,733	25,000	(8,267)	-33%	20,000	20,000	20,000	20,000	20,000
06-409-000-052 Building Maintenance & Repair	600	1,514	-	10,000	(10,000)	-100%	10,000	10,000	10,000	10,000	10,000
06-409-000-260 Building Supplies and Small Tools	1,014	259	16,011	5,000	11,011	220%	15,000	15,000	15,000	15,000	15,000
06-409-000-427 Waste Disposal	-	-	250	-	-	-	-	-	-	-	-
Total Building Expenses	236,958	287,030	250,473	318,756	(68,283)	-21%	326,078	326,632	327,213	327,824	328,465
Operations											
06-420-000-020 Supplies	11,076	19,287	48,324	20,000	28,324	142%	50,000	50,000	50,000	50,000	50,000
06-420-000-022 Chemicals	7,377	10,680	9,539	15,000	(5,461)	-36%	15,000	20,000	20,000	20,000	20,000
06-420-000-023 Propane & Fuel Oil	467	4,649	851	5,000	(4,149)	-83%	5,000	5,000	5,000	5,000	5,000
06-420-000-025 Maintenance & Repair	134,712	98,619	75,677	120,000	(44,323)	-37%	120,000	120,000	120,000	120,000	120,000
06-420-000-030 Testing	35,664	42,973	28,274	40,000	(11,726)	-29%	35,000	35,000	35,000	35,000	35,000
06-420-000-031 Pump and Haul	59,530	50,600	47,904	50,000	(2,096)	-4%	50,000	45,000	40,000	40,000	40,000
06-420-000-032 Vegetation Management	16,256	10,228	18,056	20,000	(1,944)	-10%	20,000	20,000	20,000	20,000	20,000
06-420-000-035 Permits	2,967	3,768	2,366	5,000	(2,634)	-53%	5,000	5,000	5,000	5,000	5,000
06-420-000-042 Dues and Memberships	2,100	2,100	10	2,500	(2,490)	-100%	-	-	-	-	-
06-420-000-045 Contracted Services	119,358	142,952	134,964	135,000	(36)	0%	150,000	150,000	150,000	150,000	150,000
06-420-000-048 Misc Expenses	-	27,070	1,299	10,000	(8,701)	-87%	10,000	10,000	10,000	10,000	10,000
06-420-000-235 Vehicle Maintenance	-	3,910	39	2,000	(1,961)	-98%	2,000	2,000	2,000	2,000	2,000
06-420-000-329 PA One Call	-	1,541	1,042	2,500	(1,458)	-58%	2,500	2,500	2,500	2,500	2,500
Total Operations	389,507	418,377	368,345	427,000	(58,655)	-14%	464,500	464,500	459,500	459,500	459,500

**Upper Uwchlan Municipal Authority
2020 BUDGET and FIVE YEAR PROJECTION**

	2017 Actual (audited)	2018 Actual (audited)	YTD 2019 (thru 10/31)	2019			2020 Budget	2021 Budget	2022 Budget	2023 Budget	2024 Budget
				Budget	\$ Over Budget	% of Budget					
06-483-000-000 Capital Repair	2,497	-	605,487	50,000	555,487	1111%	50,000	50,000	50,000	50,000	50,000
06-483-000-100 Capital Construction	-	-	-	1,500,000	-	0%	1,500,000	2,500,000	2,000,000	-	-
06-492-000-000 Start Up Costs	-	-	-	-	-	0%	-	-	-	-	-
06-493-000-083 Depreciation	56,406	87,514	-	50,000	(50,000)	-100%	100,000	100,000	100,000	100,000	100,000
Total Misc. Expenses	58,903	87,514	605,487	1,600,000	505,487	32%	1,650,000	2,650,000	2,150,000	150,000	150,000
06-492-000-020 Transfer to Water Resource Protection Fu Tapping Fee Reimbursement	-	-	-	-	-	0%	-	-	-	-	-
-	-	-	-	-	-	0%	-	-	-	-	-
-	-	-	-	-	-	#DIV/0!	-	-	-	-	-
Total Expenses	1,242,401	1,298,079	1,944,548	2,917,447	(972,899)	-33%	3,075,869	4,081,979	3,567,368	1,581,046	1,594,113
Net Income before Operations Agreement	1,502,921	982,452	13,318	7,274,345	(7,261,027)	-100%	921,232	512,622	115,083	1,398,505	1,373,038
Other											
06-471-000-010 Operations Mgt Agree-2014 Bonds	364,562	364,339	280,631	369,213	(88,582)	-24%	-	-	-	-	-
06-471-000-020 Operations Mgt Agree-2019 Bonds	-	-	81,267	190,681	(109,414)	-57%	237,494	236,744	235,994	235,244	239,344
06-471-000-030 Operations Mgt Agree-2019A Bonds	-	-	-	-	-	0%	335,300	336,200	337,000	332,700	334,475
Total Other	364,562	364,339	361,898	559,894	(197,996)	-35%	572,794	572,944	572,994	567,944	573,819
Net Income after Operations Agreement	1,138,359	618,113	(348,580)	6,714,451	(7,063,031)	-105%	348,438	(60,321)	(457,911)	830,561	799,219

The projected losses for 2021 and 2022 are due to the capital project expenditures that are incorporated into the operating fund. Funding for those projects come from bond proceeds and not operating revenue.

**Upper Uwchlan Township Municipal Authority
2020 Capital Budget Equipment Replacement Recommendations**

The following are recommendations for replacement or maintenance of equipment and facilities for the year 2020 for each of the wastewater treatment systems maintained by the Township.

Eaglepointe Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Total Estimated Cost:							\$0.00

Notes:

1. There are no recommendations for replacement or capital maintenance of equipment for the year 2020 at this wastewater system.

Greenridge Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Total Estimated Cost:							\$0.00

Notes:

1. There are no recommendations for replacement or capital maintenance of equipment for the year 2020 at this wastewater system.

Lakeridge Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Repave WWTP Driveway ¹				1	EA	\$20,000.00	\$20,000.00
Pine Tree Removal ¹				1	LS	\$4,000.00	\$4,000.00
Total Estimated Cost:							\$24,000.00

Notes:

1. Estimated Cost as provided by Department of Public Works

**Upper Uwchlan Township Municipal Authority
2020 Capital Budget Equipment Replacement Recommendations**

The following are recommendations for replacement or maintenance of equipment and facilities for the year 2020 for each of the wastewater treatment systems maintained by the Township.

Marsh Harbour Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Repave WWTP Driveway ¹				1	EA	\$20,000.00	\$20,000.00
Replace SBR Blower				1	LS	\$11,000.00	\$11,000.00
Pine Tree Removal ²				1	LS	\$5,000.00	\$5,000.00
Total Estimated Cost:							\$36,000.00

Notes:

1. Estimated Cost as provided by the Department of Public Works
2. Estimated Cost per recent bidding documents - this cost may vary based on caliper and height of trees

Meadow Creek Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Total Estimated Cost:							\$0.00

Notes:

1. There are no recommendations for replacement or capital maintenance of equipment for the year 2020 at this wastewater system.

Route 100 Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Wet Well Coating (Spray Roq-125 mil thickness) ¹				300	SF	\$18.20	\$5,460.00
Spare pump for remote pump stations ²				4	LS	\$10,900.00	\$43,600.00
Total Estimated Cost:							\$49,060.00

Notes:

1. Quantity is approximate and may change upon closer inspection
2. Spare pumps are required at the Windsor Ridge, Ewing West Vincent, Ewing Tract, and Reserve at Eagle 2 pump stations. Estimated cost per WWTP operator Brian Norris.

**Upper Uwchlan Township Municipal Authority
2020 Capital Budget Equipment Replacement Recommendations**

The following are recommendations for replacement or maintenance of equipment and facilities for the year 2020 for each of the wastewater treatment systems maintained by the Township.

Saybrooke Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Total Estimated Cost:							\$0.00

Notes:

1. There are no recommendations for replacement or capital maintenance of equipment for the year 2020 at this wastewater system.

St. Andrew's Brae Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Total Estimated Cost:							\$0.00

Notes:

1. There are no recommendations for replacement or capital maintenance of equipment for the year 2020 at this wastewater system.

2020 Summary Capital Budget Replacement Costs

UUTMA Wastewater Facility Equipment Recommendations	
Eaglepointe Wastewater System	\$0.00
Greenridge Wastewater System	\$0.00
Lakeridge Wastewater System	\$24,000.00
Marsh Harbour Wastewater System	\$36,000.00
Meadow Creek Wastewater System	\$0.00
Route 100 Wastewater System	\$49,060.00
Saybrooke Wastewater System	\$0.00
St. Andrew's Brae Wastewater System	\$0.00
Act 537 Plan Update	\$65,220.00
Byers Road Sanitary Sewer Extension	\$1,100,000.00
Total Cost:	\$1,348,480.00

Miscellaneous Budgetary Items

System - UCC Code Updates	\$30,000.00
Capital Equipment Purchases shared with Twp	\$19,200.00
System - Misc. Capital Purchases	\$25,000.00

Notes: Capital Maintenance is defined by unanticipated or extraordinary expenses or equipment failure.

GLOSSARY

Accrual Basis of Accounting – The basis of accounting in which revenues are recognized when they are earned and expenses are recognized when they are incurred.

Act 537 Plan – refers to the Pennsylvania Sewage Facilities Act, as amended, enacted on January 24, 1966 to correct existing sewage disposal problems and prevent future problems. The Act requires proper planning in all types of sewage disposal situations. Local municipalities are largely responsible for administering the Act 537 sewage disposal program.

Assets – Property owned by the Township that has a monetary value.

Balanced Budget – A budget is considered balanced when budgeted revenues equal or exceed budgeted expenditures.

CAFR – abbreviation for Comprehensive Annual Financial Report. The CAFR expands upon full GAAP financial statements by including a large amount of statistical information applicable to the municipality.

Capital assets – any tangible or intangible asset that has an initial useful life extending beyond a single reporting period. Assets such as land, easements, buildings, building improvements, vehicles, machinery, equipment, infrastructure, works of art or of historical significance are normally capital assets.

Capital Expenditures – Money expended to purchase capital assets.

Comprehensive Annual Financial Report – The official financial report of a municipal entity. It includes management's discussion and analysis, financial statements, supporting schedules and required supplementary information and statistics on the municipality.

DDB – “DDB” is an abbreviation for Dry Detention Basin. A dry detention basins' outlets have been designed to detain storm water runoff for a minimum period of time (ie. Usually 24 hours) to allow particles and pollutants to settle. Unlike wet ponds, they do not have a permanent pool of water.

Debt Limit – The State-set maximum amount of legally permitted outstanding net debt.

Delaware Valley Insurance Trust (DVIT) – A regional risk sharing pool providing property, liability and/or health coverage to its participating members which consists of municipalities in Southeastern Pennsylvania. The Trust was formed under the authority granted by the Pennsylvania Intergovernmental Cooperation Act and the Pennsylvania Political Subdivision Tort Claims Act.

The Township currently has all of its insurance coverage through DVIT.

Effluent – The outflow from a sewage treatment facility.

GLOSSARY, cont'd

Enterprise Funds – Proprietary fund type used to report an activity for which a fee is charted to external users for goods or services.

Fund – A fiscal and accounting tool with a self-balancing set of accounts to record revenues and expenditures.

Fund Balance – Fund balance is the net position of a governmental fund. It is equal to the difference between assets, liabilities, deferred outflows of resources and deferred inflows of resources. It is the “equity” of a governmental fund.

GAAP - GAAP is an abbreviation for Generally Accepted Accounting Principles which are the standard framework and guidelines used in financial accounting in the United States of America. The Financial Accounting Standards Board is responsible for issuing new accounting pronouncements.

GASB - GASB is an abbreviation for The Government Accounting Standards Board. GASB is the authoritative accounting and financial reporting standard –setting body for state and local governments.

General Fund - An accounting entity used to account for all revenue and expenditures applicable to the general operations of the departments of the Township, and to record all financial transactions not accounted for in another fund.

GFOA – GFOA is the abbreviation for The Government Finance Officers Association. The GFOA is a national professional organization comprised of people who are working in government finance on a state, local or federal level. The GFOA holds educational training seminars nationally and also provides information on “Best Practices”, as well as other services, to its members. State and local chapters provide local training on a monthly, quarterly or annual basis.

Impervious Coverage - Impervious coverage refers to any man-made surfaces, along with compacted soil, that water cannot penetrate. Examples, are asphalt, concrete, and rooftops.

LUAR – is the abbreviation for a Land Use Assumptions Report.

Modified Accrual Basis of Accounting – an accounting method that combines elements of the two basic accounting methods, cash basis and accrual basis. Revenues are recognized when earned, measurable and available. Expenses are recognized when the liability is incurred.

GLOSSARY, cont'd

MS-4 – Under the 1987 Clean Water Act Amendments, the U.S. EPA developed new regulations to address storm water that might impact water quality. These new “Municipal Separate Storm Sewer System” (MS4) regulations were established by the EPA and are administered in Pennsylvania by the Pennsylvania Department of Environmental Protection (“DEP” or “PADEP”).

NPDES permit – National Pollutant Discharge Elimination System permit. Permits are issued by PADEP.

PADEP – Pennsylvania Department of Environmental Protection

PEMA – Pennsylvania Emergency Management Agency

Scheduled interest - is the amount of interest that would be paid by following the bank's amortization schedule. If the Township pays additional principal amounts during the remaining years of the loan, the actual amount of interest paid will be less.

Second Class Township – a second class township is defined as having a population of less than 300 inhabitants per square mile and in Pennsylvania they are governed by the Second Class Township Code, enacted by the state legislature on May 1, 1933, as amended.

WWTF – Waste Water Treatment facility

Clean Water, Inc.

170 Dallas St.
Box 475
Atglen, Pa. 19310

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

January 24, 2020

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

RE: Report for the January meeting

Dear Authority,

Enclosed please find the monthly report that was submitted to the DEP on your behalf. The reports are for November, informational items are current.

Route 100

We are reporting a CBOD violation for November. The result of 52 mg/l was extremely high. The lab failed to notify us of the violation in time preventing a few more submittals to lower average. I feel the reason for the result may have been I had not “moved” water in a while and it got somewhat stagnant in pipe. During one of the high wind days, the floating baffle was torn from its mooring. It is a very heavy object. We have secured it for now; we will attempt to re-secure using a new threaded wire, and then attaching to the lagoon bank. I can tell you in December, weather severely limited spray days. We had sludge removed by McGovern. The influent pump at Ewing got bound up. M and S services pulled it and restored it to normal ops. They also replaced the battery for the auto dialer. We also continue to have issues with the phone line over at Eagle Manor. We have decided to install a FIOS line since the original phone line was giving us troubles. Verizon said the new line should be installed in a week.

Eaglepointe

Plant continues to run well. However, DEP was out during a time when flows were high and weather conditions were not great and noticed two items of concern. First was an old pipe attached to the aeration basin that had some minor sludge/foam leave and deposit on the ground. Secondly the right-hand filter was fuller than normal and the pipe that carries water to the filter had a large gap between the wall and pipe which allowed some pre-filter effluent (clear water) weep out onto the ground. After being notified of this, it was repaired the next day. I have provided photos for your review.

Marsh Harbour

Plant is running fine. Spray was greatly limited here in December. We had 1/3 of the typical days allocated for use. The valve box down at the influent pump had a valve go bad that was leaking back into the wet well. Predoc repaired all three of them since they are the same age and wear.

Lakeridge

Plant is running fine. The final paving was done. M and S services replaced the auto dialer. I had them run separate floats directly into the dialer for high levels. This should prevent a panel power failure from not calling out. It was a bit more labor but feel it is the best application. The cell hot spot here was checked and is working.

Saybrooke

Facility is running fine. I replaced one of the motors that failed. I also ordered and received a start capacitor for another motor. It was installed in another motor. The pump mentioned last month was not able to be rebuilt; a new one was delivered for spare.

Greenridge

The drip was shut down the end of December and only recently returned to use.

St. Andrew

We had some issues with the small filters freezing during a cold spell. When they freeze over the lack of flow prevents pass thru and maintenance. We had to bypass for a time till they could be returned to service. We also had work done on the equalization pump panel. Mulls Electric came out and repaired the panel. If you recall many years ago we abandoned the air lift that was originally used to lift water from the equalization into the treatment plant and replaced it with a pump and float system. The old one corroded to the point it no longer could be used. Anyway, I had Predoc repair it so it could be used as a back up should we have a failure of the pump or system. It seems DEP was out while all of this was going on and there were solids in the effluent. I am expecting we will be issued a NOV for this. I have told Dave Wolfinger from DEP of our recent work to prevent this from happening again and insured him the plant is running at its typical terrific levels. We are working on meeting him and show him as well.

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

Respectfully,
Brian Norris

[Done](#)

7 of 9



[Done](#)

9 of 9





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: January 22, 2020

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

Byers Station

Village at Byers Station (5C), Lot #1 Townhouse Parcel: 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. As of mid-April 2018 all sanitary sewer mains and laterals have been installed and air tested, while 75 percent of the sewer mains have also passed deflection testing. As of mid-May 2018 all sanitary sewer mains have passed pressure and deflection testing and only manhole vacuum testing remains to be done after base paving is completed. Vacuum testing of each sanitary sewer manhole on the site was completed on July 11, 2018. ARRO approved escrow release No. 1 in the amount of \$302,330.01 by letter dated September 6, 2018. Installation of the gravity house service line to each new townhouse began on September 13, 2018. ARRO reviewed the sanitary sewer videos submitted by Toll Brothers on October 19, 2018. The pipe is in good condition with only minor debris in a few runs that need to be flushed and cleaned. ARRO emailed Toll Brothers on November 2, 2018 with a list of the runs that needed cleaned.

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

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 (SFPM) 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. Sewage Facilities Planning Modules were sent to PADEP on April 18, 2018. ARRO reviewed Amended Final PRD Plans, last revised May 7, 2018, and submitted a May 30, 2018 letter to the Township containing comments to the Plans. Additional revised Plans were submitted on July 12, 2018 and are currently under review. The PADEP SFPM approval letter, dated June 27, 2018, was received by the Township. Vacuum testing of each sanitary sewer manhole on the site was completed on July 11, 2018. By email dated July 4, 2018, ARRO requested of Toll Brothers that they submit an agreement document between Toll and BPG Partners, Ltd. stipulating that after BPG has the binder course paving completed each manhole will again be vacuum tested and BPG will repair any manhole that fails its vacuum re-test. ARRO

submitted a July 19, 2018 sanitary sewer comments letter to the Township regarding the additional revised Plans submitted by Bohler Engineering on July 12, 2018. Toll Brothers submitted a July 30, 2018 letter acknowledging it will be responsible to ensure that the sanitary manholes in 5C Commercial will be tested after construction of the commercial portion of the subdivision. Toll requests the Authority require the testing to be a component of the financial security agreement as it relates to the commercial site work. ARRO prepared an August 31, 2018 letter to the Township with comments to the latest Final PRD Plans, last revised August 30, 2018. Eight buildings with various uses are proposed with a sewer capacity of 9,025 gallons per day. On March 18, 2019, ARRO received the draft of a revised land development drawing from Bohler Engineering presenting a new layout arrangement consisting of 67 townhome units, a coffee shop, retail store and a daycare center, and also a revised sanitary sewer capacity request of 15,195 gpd. On July 9, 2019, ARRO received from Bohler Engineering Revision 1 to the Lot #2 land development drawings. The drawings now show 55 townhome units, a 1-½ story retail building and a 2-story mixed-use commercial building. There is a revised sanitary sewer capacity request of 12,872 gpd. ARRO is reviewing the sanitary sewer portion of the drawings. ARRO prepared a July 24, 2019 comments letter to the Revision 1 land development drawings. On August 20, 2019, ARRO received revised Bohler Engineering Lot #2 land development drawings, Revision 2, dated August 16, 2019. ARRO is reviewing the sanitary sewer portion of the drawings. ARRO prepared a September 3, 2019 comments letter to the sanitary sewer portion of Bohler Engineering Lot #2 land development drawings, Revision 2, dated August 16, 2019. At the October 14, 2019 UUT Board of Supervisors meeting it was approved to send the revised Lot #2 Commercial Parcel SFPM package to PADEP. ARRO is assisting Bohler Engineering in preparing responses to comments contained in PADEP's October 31, 2019 review letter regarding the revised Lot #2 Commercial Parcel SFPM package. The Authority Administrator sent a December 9, 2019 letter to PADEP with responses to comments contained in the October 31, 2019 review letter regarding the revised Lot #2 Commercial Parcel SFPM package.

Bohler Engineering reported to PADEP on January 3, 2020 that the Authority Administrator pronounced Upper Uwchlan will own the sanitary sewer main that will run within a dedicated easement through Lot 2 and connect to the sewer in Station Boulevard.

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. ARRO reviewed the project's Sewage Facilities Planning Module (SFPM). The module shows a request for 45 EDUs (10,000 gpd) of sanitary sewer capacity. SFPM Component 3 Section G and J were signed. The Pennsylvania Historical and Museum Commission clearance letter and Aqua water service letter have been received for the Sewage Facilities Planning Module (SFPM). On April 18, 2018, the Township forwarded SFPM Components 4B and 4C to the Chester County Planning Commission and Health Department. ARRO reviewed Land Development Plans, plotted April 6, 2018, and submitted an April 30, 2018 letter to the Township containing comments to the Plans. The SFPM is complete and a resolution to accept the document was placed on the Board of Supervisors' August 20, 2018 agenda. The SFPM application package was submitted to PADEP. ARRO prepared a September 6, 2018 sanitary sewer review letter to the latest Land Development Plans submitted by D.L. Howell, last revised August 13, 2018. ARRO received on December 5, 2018 the latest Land Development Plans, last revised November 30. ARRO will submit a sanitary sewer review letter the week of December 10. ARRO prepared and sent to the Township a December 14, 2018 sanitary sewer review letter to the December 5, 2018 Land Development Plans. ARRO received and reviewed the sanitary sewer portion of land development plans Revision No. 3, dated June 21, 2019. The plans show a dedicated sanitary sewer manhole in Byers Road to be installed when the Byers Road sewer extension project is constructed. ARRO prepared and sent a July 5, 2019 review comments letter to the Township. PADEP issued a July 23, 2019 with three (3) items missing from the submitted SFPM. The Authority sent PADEP an August 23, 2019 letter in response to PADEP's July 23, 2019 letter containing three comments to the project's

SFPM. The UUT Board of Supervisors at its September 16, 2019 meeting executed the amended Tentative Approval Decision to permit Parcel 6C to be developed as a senior living facility.

PADEP issued a November 7, 2019 letter approving the Official Plan revision for the construction of the 101-unit retirement living apartment unit at 10,100 gpd sewage volume.

ARRO reviewed the latest revision to the Vantage Point Retirement Living land development plans, dated December 6, 2019. ARRO issued a January 6, 2020 review comments letter to the Township.

Eagle Hunt

Nothing new to report.

Eaglepointe

Wastewater Treatment Plant and Sanitary Sewer System:

ARRO is working on a plan for the decommissioning of the Eaglepointe WWTP.

ARRO and UUT Public Works are working together to locate the source of rag-dumping into the Eaglepointe sanitary sewer system that are clogging the WWTP's influent pumps. On June 27, 2019 UUT Public Works found rags in an Eaglepointe sanitary sewer system manhole only Wawa uses. ARRO discussed the rag issue with the Wawa store manager. ARRO also sent correspondence to the Wawa corporate office and has received written and verbal responses from Wawa that they are endeavoring to correct the issue at their store. On August 20, 2019 ARRO received an email from Wawa that they have retained an outside engineer to design an in-line tank to catch rags and articles of clothing that have been found in the WWTP's influent pump station. On August 20, 2019 ARRO received an email from Wawa that they have retained an outside engineer to design an in-line tank to catch rags and articles of clothing that have been found in the WWTP's influent pump station. On August 27, 2019 ARRO received an email from Wawa stating they have retained Keystone Engineering to design an in-line tank to catch rags and articles of clothing before they get into the Eaglepointe sanitary sewer system. ARRO is awaiting drawings for review. On October 10, 2019 ARRO received Keystone Engineering's Wawa site design plans depicting an in-line septic tank to catch rags before they can enter the Eaglepointe sanitary sewer system. ARRO reviewed the drawings and transmitted comments back to Keystone. ARRO reviewed and commented on the revised drawings for the in-line septic tank and piping at the Wawa site submitted by Keystone Engineering on October 23, 2019. ARRO provided responses to December 9, 2019 contractor questions regarding the proposed Keystone Engineering in-line septic tank and piping at the Wawa site.

ARRO received a phone call on January 10, 2020 from Hohmann & Barnard, Inc. stating they are scrapping their scrubber project and will not need the 500 gpd additional wastewater disposal capacity at the Eaglepointe WWTP.

During the week of January 13, 2020 the Wawa contractor installed the new in-line septic tank, manhole and piping at the Wawa site.

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 (NRWD) 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 NRWD 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. A lab error occurred with the sample collected on March 29, 2018. The lab scheduled another sampler collection for April 5 into April 6, 2018. ARRO has not received the latest sampling test results. ARRO transmitted the April 6, 2018 test results to Liberty Union. ARRO is preparing comments to Liberty Union questions on the test results. ARRO prepared comments to Liberty Union questions on the test results. Ten random grab samples for analysis will be taken from the Liberty Union pump station wetwell. Two grab samples have been analyzed and BOD exceeds 1000 mg/L in both samples. The results of two grab samples (collected September 25 and 27) were received and the BOD is below 500 mg/L in both. The results of seven grab samples collected between September 5 and October 10, 2018 all had BOD above the NRWD maximum 250 mg/L threshold, the highest result was 1,700 mg/L.

ARRO is in the process of updating the Non-Residential Waste Discharge resolution.

Dilibero - 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. ARRO completed the evaluation, including a piping layout and cost estimate, and it is now under internal review. On April 20, 2018 ARRO transmitted its sanitary sewer evaluation to Dilibero. ARRO has been responding to sanitary sewer related questions from Dilibero's sewer contractor. On March 7, 2019 ARRO transmitted the Authority's Eaglepointe sanitary sewer and easement drawings to Dilibero's engineer for use in preparing their sanitary sewer extension plans.

Nothing new to report.

Eagle Retail Associates – Starbucks: ARRO is reviewing the sanitary sewer portion of a conditional use plan for a Starbucks with drive-through to occupy the former Key Bank Building at the Eaglepointe Shopping Center. ARRO reviewed the sanitary sewer portion of the conditional use application and submitted a May 28, 2019 letter to UUT with comments to the plan. ARRO recommended water consumption records be submitted from a similarly-sized facility to determine the necessary wastewater capacity. ARRO reviewed the latest land development plan, dated September 18, 2019, and issued an October 28, 2019 letter with comments to the plan.

On January 22, 2020 ARRO was informed by E. B. Walsh Engineering that water consumption records will be submitted.

Ewing Tract

ARRO received from Toll Brothers, on December 5, 2018, Phase 2 Ewing Tract – West Vincent documents concerning (1) Maintenance Service Agreement for Carriage Home South, (2) Grant of Sanitary Sewer Easements and Dedication of Facilities for Butternut Lane and Rainer Road, (3) Deed of Dedication for Future Spray Field #4, (4) Grant of Sanitary Sewer Easements and Dedication of Facilities for Lots 327 and 343, and (5) Grant of Access Easements for Lot 335. ARRO is in the process of reviewing the documents. ARRO completed its review of the Toll Brothers December 5, 2018, Phase 2 Ewing Tract – West Vincent documents concerning (1) Maintenance Service Agreement for Carriage Home South, (2) Grant of Sanitary Sewer Easements and Dedication of Facilities for Butternut Lane and Rainer Road, (3) Deed of Dedication for Future Spray Field #4, (4) Grant of Sanitary Sewer Easements and Dedication of Facilities for Lots 327 and 343, and (5) Grant of Access Easements for Lot 335. ARRO emailed documents comments to Riley Riper, dated December 21, 2018 and December 31, 2018. Subsequently, ARRO received from Riley Riper a January 9, 2019 email containing documents with recommended adjustments. On February 25, 2019 ARRO received from Taylor Wiseman Taylor (TWT) revised sanitary sewer record drawings for the Ewing Tract – West Vincent Carriage Home North subdivision. ARRO approved the Ewing Tract – West Vincent Carriage Home North subdivision sanitary sewer record drawings on May 14, 2019 and ARRO subsequently received final drawings and electronic

files from TWT. ARRO reviewed TWT sanitary sewer record drawings for the Ewing Tract – West Vincent Single Family East subdivision and transmitted comments to TWT on December 11, 2019.

Nothing new to report.

Fetter Farm Tract (Preserve at Marsh Creek)

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 was 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-Milford 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. The Board of Supervisors approved the SFPM resolution at the April 16, 2018 meeting. The developer's engineer stated in an April 17 email to the Authority Administrator that the SFPM is close to being submitted to PADEP for review. The Sewage Facilities Planning Module was sent to PADEP on April 18, 2018. Ebert Engineering requested Authority assistance in preparation of a response to comments received from PADEP on the Sewage Facilities Planning Module. ARRO is working on a response. ARRO assisted Ebert Engineering in preparation of letter responses to comments received from PADEP to the Sewage Facilities Planning Module. ARRO transmitted its responses to Ebert Engineering on November 1, 2018. ARRO in association with Ebert Engineering prepared a December 13, 2018 letter to PADEP in response to PADEP Sewage Facilities Planning Module comments. ARRO reviewed the Water Quality Management Part II Permit application,

dated July 23, 2019 as submitted by Ebert Engineering on July 26, 2019, along with the supporting design reports for the low pressure sewer system and the upgrades to the Reserve at Eagle Pump Station No.1. ARRO sent comments to Ebert Engineering by email dated August 13, 2019. Ebert subsequently revised its documents based on ARRO comments and resubmitted the documents. ARRO is currently reviewing the revised documents. ARRO reviewed the latest revised Water Quality Management Part II Permit application package received August 21, 2019 from Ebert Engineering. ARRO has no further comments to Ebert's permit application, only ARRO comments remain to be addressed on E. B. Walsh's land development drawings regarding the lining of low pressure force main discharge manholes. Ebert Engineering sent to PADEP the WQM Part II Permit Application package by transmittal letter dated October 3, 2019. On October 15, 2019 ARRO received from E. B. Walsh the latest Subdivision and Land Development Plan drawings entitled "The Preserve at Marsh Creek" along with a response letter to previous plan review comments. ARRO will review and comment on the sanitary sewer portion of the latest drawings. ARRO reviewed and on November 1, 2019 issued comments to the Phases 1 and 1A sanitary sewer escrow calculations as submitted by the McKee Group. McKee Group issued revised escrow calculations on November 15, 2019 in response to ARRO comments. The Preserve at Marsh Creek preconstruction meeting was held on December 4, 2019. Site survey and erosion control measures work will be starting within two weeks. ARRO has requested a schedule of sanitary sewer installation work from the site contractor.

PADEP issued the WQM permit, dated November 25, 2019, for the low pressure sanitary sewer with individual grinder pumps and for the upgrade to the Reserve at Eagle Pump Station No. 1 required as part of the project.

ARRO started reviewing the project's sanitary sewer materials shop drawings.

Frame Property (Reserve at Chester Springs)

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 the last new home (Lot #16) was done

on March 26, 2019. On February 11, 2019, ARRO received the sanitary sewer televising video and reports from Toll Brothers' contractor. Ahead of Toll Brothers' paving the subdivision, on April 4, 2019 ARRO checked all sanitary sewer manhole frames and covers and found no damaged units. ARRO inspected all manholes and prepared a punchlist of work items that was sent to Toll Brothers by letter dated May 21, 2019. ARRO received the draft sanitary sewer record drawings. ARRO reviewed the drawings and returned comments to Toll Brothers on November 26, 2019.

Nothing new to report.

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 Upattina 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 (SFPN) 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 SFPN 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. On behalf of the Open Community Developer, on November 13, 2018 Boucher & James submitted sewer connection plans for review. ARRO is in the process of reviewing the plans and will issue comments in a separate letter. ARRO completed its review of the November 13, 2018 Boucher & James sewer connection plans and issued a November 28, 2018 comments letter to the Township. Subsequently, Boucher & James submitted to ARRO a response email on December 3, 2018 along with revised plans, last dated December 3, 2018. ARRO is reviewing the email responses and the latest revised plans. On February 25, 2019 PADEP released the WQM permit for the Open Community Adaptive Reuse Project. On March 12, 2019 the Township received a sewer permit application from the Developer. ARRO is setting up a pre-construction meeting for the Open Community Adaptive Reuse Project. On April 25, 2019 ARRO conducted a pre-construction meeting for the Open Community project. The Developer will attempt to use the existing lateral connection installed during the original Greenridge sanitary sewer installation work done in 2005. The Developer excavated a test hole at the existing Greenridge subdivision lateral connection. ARRO was informed by the Developer that elevations were taken and submitted to Boucher & James. The lateral will be used. New plans for connection to the existing lateral will be prepared and submitted to the Authority and ARRO for review. ARRO sent a September 17, 2019 email to the Developer requesting a project update for the sanitary sewer portion of the Open Community Adaptive Reuse Project. On October 15, 2019 ARRO received an email from the Developer with a project update stating bids have been awarded for the sanitary sewer portion of the Open Community Adaptive Reuse Project. Developer also indicated construction is tentatively scheduled for mid-December 2019.

ARRO reviewed the latest sanitary sewer connection plan drawings, dated December 19, 2019. ARRO also reviewed some project sanitary sewer shop drawings. On January 16, 2020 ARRO submitted to the Developer comments to both items.

The property owner at 307 Deerhaven Way in Stonehedge requested the above-ground remnants of the former community on-lot system in his backyard be removed and the abandoned underground tanks be filled. A \$12,420 proposal was submitted by a contractor for the work. As the Authority accepted the contractor (Pikeland Construction) proposal ARRO will coordinate with Pikeland for the start of work. On December 6, 2019, ARRO attended a meeting with the property owner and Pikeland Construction to discuss start of the work, which Pikeland intends to begin the week of December 9, 2019.

Pikeland completed the demolition of the abandoned community on-lot structures during the week of December 9, 2019.

Jankowski (Chester Springs Crossing)

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. ARRO responded to Toll Brothers regarding the Windsor Ridge Pump Station capacity to receive Jankowski estimated sanitary flow. ARRO reviewed the Preliminary/Final Subdivision-Land Development Plan, last revised May 18, 2018, and prepared June 11, 2018 comments to the Township. Sewage Facilities Planning Module Components 4A, 4B and 4C were received. Presently the project is in the 30-day Public Notice periods, which upon completion the Township can submit the components to PADEP. The Authority Administrator sent an August 14, 2018 letter to Chester County Health Department (CCHD) regarding CCHD's Component 4C comment about malfunctions along Surrey Lane, Font Road and Carriage Drive. The Administrator stated the Authority will be evaluating future extensions in these areas. Subsequently, ARRO conducted a small conceptual planning study to sewer these areas. ARRO presented three sewer extension options and cost opinions to the Authority Administrator for review and comment. The first gravity and low pressure sewer concept sends all flow through the Jankowski tract, the second all-gravity sewer concept sends some flow through Jankowski and the remainder to Reserve at Eagle, while the third all gravity sewer concept sends all flow to the Reserve at Eagle. ARRO is reviewing the latest Preliminary/Final Subdivision Land Development Plan transmitted by E.B. Walsh letter, dated August 10, 2018. SFPM Components 4A, 4B and 4C were received, but the bog turtle clearance letter from PA Fish & Wildlife is still outstanding. The UUT Board of Supervisors authorized the resolution needed for the Sewage Facilities Planning Module at their October 15, 2018 meeting but are holding it until the clearance letter is issued. ARRO prepared an August 30, 2018 sanitary sewer review letter to the latest Preliminary/Final Subdivision-Land Development Plan transmitted by E.B. Walsh letter, dated August 10, 2018. On February 4, 2019, ARRO

received the preliminary sanitary sewer escrow calculations from Toll Brothers. ARRO reviewed the calculations and returned comments to Toll. Revised calculations were received and after review were accepted by ARRO. ARRO prepared and sent a letter to the Township recommending acceptance of the sanitary escrow in the amount of \$425,955.60. On February 27, 2019 ARRO received from E. B. Walsh updated Preliminary/Final Subdivision Land Development Plans. ARRO reviewed the sanitary sewer portion of the drawings and transmitted comments to E. B. Walsh by letter dated March 11, 2019. On March 18, 2019 ARRO received from E. B. Walsh updated Preliminary/Final Subdivision Land Development Plans. ARRO reviewed the sanitary sewer portion of the drawings and transmitted comments to E. B. Walsh by email dated April 1, 2019. On April 2, 2019 ARRO received from Toll Brothers a revised sanitary sewer escrow calculation based on the latest E. B. Walsh drawings. ARRO prepared an April 2 letter to the Township recommending accepting the revised escrow amount. ARRO received a May 22, 2019 email from Toll Brothers stating Jankowski construction might start in July 2019. A pre-construction meeting for the project has been scheduled for July 24, 2019. ARRO attended the July 24, 2019 pre-construction meeting and the August 21, 2019 PennDOT HOP site meeting. Sanitary sewer installation for the project is set to begin on August 26, 2019 starting offsite in Windsor Ridge's Garrison Drive. Sanitary sewer installation for the project began on August 26, 2019 starting offsite in Windsor Ridge's Garrison Drive. Garrison Drive sanitary sewer installation is almost complete and the contractor intends to continue its work in the Jankowski site. The boring for the sanitary sewer casing under Route 100 linking Jankowski and Windsor Ridge will take place sometime in October 2019. The sanitary sewer casing boring under Route 100 linking Jankowski and Windsor Ridge is scheduled for the week of October 28, 2019. The boring and casing work under Route 100 was completed the week of November 18, 2019. In order to correct a sewer misalignment through the casing Toll Brothers agreed to install two new manholes, one upstream and one downstream of the casing, and also relocate a recently installed manhole to achieve minimum sewer slope required by PADEP. Sanitary sewer installation continues within the site.

Over the weeks of January 6 through January 13, 2020 two new manholes, one upstream and one downstream of the casing, were installed and one existing manhole in Garrison Drive was relocated to achieve minimum sewer slope required by PADEP. Sanitary sewer installation still continues within the site.

Lakeridge

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. ARRO has both the sludge tank plans and specifications and the PADEP Part 2 permit application approximately 80 percent complete. ARRO has completed the sludge tank plans and specifications. The Part 2 permit application is expected to be submitted to PADEP by the end of May 2018. Changes to sludge tank design plans were necessary due to updated Columbia Gas easement information. ARRO submitted the Part 2 permit application to PADEP on July 17, 2018. PADEP sent an August 14, 2018 Water Quality Management permit for the sludge tank project. The bidding phase of the work is now in progress. The Sludge Tank Relocation project was put out to bid on September 4, 2018. A pre-bid meeting for the project is scheduled for September 20, 2018. Bids are due October 18, 2018. ARRO plans to have a bid award recommendation prepared for the October 23, 2018 Authority meeting. Bids for the Sludge Tank Relocation project were received on October 18, 2018 and reviewed by ARRO. ARRO recommended award of the General Contract to Blooming Glen Contractors and the Electrical Contract to Eastern Environmental Contractors. Agreements were delivered to the Township on November 19, 2018 for execution by the Authority at its November Board meeting. ARRO conducted the Sludge Tank Relocation project pre-construction meeting on December 10, 2018. The Sludge Tank project Notice to Proceed was issued on December 17, 2018 for a 180-calendar day construction period. Blooming Glen Contractors submitted its one-call notice for excavation on January 9, 2019. Sludge Tank project shop drawings are being reviewed. The Blooming Glen Contractors project schedule says construction will

start in April 2019. The sludge tank project schedule had a setback due to a tank precast fabrication delay. Blooming Glen has submitted a 90-calendar day extension of contract time change order request. Work has begun in the Control Building with the installation of replacement unit heaters. The sludge tank excavation is complete and the tank is scheduled to be delivered July 18, 2019. The date of substantial completion is September 13, 2019. The sludge tank was installed and the general construction and electrical work is commencing. Change orders have been prepared for a 28-calendar day time extension to the general and electrical contracts. The date of substantial completion is now October 11, 2019. The sludge tank general construction and electrical work is coming to an end. Start-up testing is expected to be done in mid-October to meet the substantial completion date. Start-up testing is scheduled for the week of October 21, 2019 to meet the revised substantial completion date. Start-up testing is complete. Punchlist work is commencing. The project is expected to be done by mid-December 2019.

Punchlist work is continuing. The project is expected to be done by mid-January.

Marsh Harbour

The Marsh Harbour WWTP WQM permit was renewed and issued on December 9, 2019. ARRO completed the Groundwater Monitoring Background report required as part of the permit renewal and transmitted the report to PADEP on January 22, 2020.

Reserve at Eagle

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 has initiated preliminary layout design for two potential 18-acre drip fields on the South Chester Springs Road parcel (the Bennett property).

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 is working on setting the entire Route 100 Regional WWTP disposal system into a geographical information system (GIS). ARRO has digitized the record drawings from each disposal system and has completed much of the field work gathering data from each spray and drip field and their associated pump stations. ARRO finished data collection of all Route 100 Regional WWTP disposal fields and is currently analyzing the data and integrated it into the sanitary GIS. ARRO finished integrating into sanitary GIS the data collected from all Route 100 Regional WWTP disposal fields and the Route 100 Regional WWTP. ARRO is continuing to work on digitizing features from all the satellite WWTPs.

ARRO submitted the Act 537 Planning Grant Application to the Pennsylvania Department of Community and Economic Development on May 23, 2019. ARRO received correspondence from the Pennsylvania Department of Community and Economic Development that they will consider the UUT Act 537 Planning Grant Application at their September 17, 2019 Commonwealth Financing Authority (CFA) Board meeting. The CFA posted its September 17, 2019 meeting grant award list and Upper Uwchlan Township was awarded the \$32,610 grant as requested on the Act 537 Planning Grant application. The UUTMA Act 537 Planning Project is awaiting the grant award documentation and agreement from CFA, which needs to be processed and signed before ARRO can move ahead with the planning. The UUTMA Act 537 Planning Project grant award documentation and agreement from CFA was signed. ARRO has started some basic planning work by reviewing past 537 Planning documents and township demographics.

ARRO continues basic Act 537 planning work.

ARRO started preparing the Route 100 Regional WWTP 2019 Chapter 94 report.

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. On May 3, 2018 ARRO completed a preliminary cost opinion for the Phase III construction.

Nothing new to report.

Saybrooke

ARRO is working on a plan for the decommissioning of the Saybrooke WWTP.

Nothing new to report.

St. Andrews Brae

The property owner at 10 Kiloran Wynd, adjacent to the St. Andrews Brae WWTP, has had two blockages in his sewer and questions whether the WWTP is causing the problem. The Authority Administrator authorized a survey investigation to determine if the blockage location is on the WWTP property or the property owner's land.

Upland Farms

Columbia Gas is planning cathodic protection work within its right-of-way through a portion of Upland Farms and Waynebrook. ARRO reviewed the work plan drawings and provided information to Columbia Gas regarding the Authority's disposal fields and Little Conestoga Pump Station force main bordering the planned work area.

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.

Nothing new to report.

Windsor Ridge

Nothing new to report.

Miscellaneous

270 – 290 Park Road (The Townes at Chester Springs) – 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. The last four house service lines were installed and tested during the week of October 1, 2019. Sanitary sewer installation work is complete, but dedication of sanitary sewer remains.

Nothing new to report.

Village of Eagle

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 wye. 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. ARRO is preparing a letter to the Authority in response to the capacity request from the Developer. ARRO is reviewing the sanitary sewer portion of a conditional use application for additional development at 160/180 Park Road. ARRO completed a

review of the sanitary sewer portion of a conditional use application for additional development at 160/180 Park Road and submitted a May 28, 2019 letter to the Township. ARRO recommends an additional 8.66 EDUs of capacity should be purchased for the proposed use. ARRO prepared a July 23, 2019 comments letter to the Preliminary/Final Plans for Eagle Village Parking Expansion as prepared by DL Howell, dated July 3, 2019. An additional 8.5 EDUs need to be purchased for the proposed use and a SFPM will be required. The Board of Supervisors granted approval of the Plans at their August 19, 2019 meeting. PADEP sent an August 19, 2019 letter stating no Sewage Facilities Planning Modules are required for expansion of the 160 Park Road parking lot.

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 survey information for inclusion in the plans. ARRO has the design plans and specifications in the final stage of completion. ARRO submitted the highway occupancy permit to PennDOT on April 16, 2018. There were no public comments to the sewage facilities planning module (SFPM) and the Board of Supervisors passed a resolution approving the submission of the SFPM to PADEP. ARRO submitted the Sewage Facilities Planning Module to PADEP on April 27, 2018. Comments from PADEP are expected within sixty (60) days. PennDOT has approved the highway occupancy permit plans and requires payment of \$810 for inspection observation prior to release of the permit. PADEP transmitted its comments to the Sewage Facilities Planning Module by letter dated June 21, 2018. ARRO is in the process of addressing each of the PADEP comments. The PennDOT Highway Occupancy Permit for the project has been received. ARRO submitted an August 6, 2018 letter to PADEP addressing each PADEP comment from its Sewage Facilities Planning Module review letter, dated June 21, 2018. PADEP transmitted a September 5, 2018 letter with additional comments to Sewage Facilities Planning Module. ARRO submitted a response letter addressing each concern on October 17, 2018. PADEP transmitted a November 14, 2018 letter with additional comments to the Sewage Facilities Planning Module. ARRO is reviewing the letter and will address each comment in a future letter. The Authority Administrator sent a December 20, 2018 letter to PADEP containing responses to PADEP's November 14, 2018 comments to the Sewage Facilities Planning Module. ARRO sent an email to PADEP on January 31, 2019 requesting approval of the Byers Road Sanitary Sewer Extension Sewage Facilities Planning Module. As of March 20, 2019 no response has been forthcoming from PADEP. ARRO is proceeding with preparation of finishing plans and specifications for the bidding of the project. Regarding the Byers Road Sanitary Sewer Extension SFPM and the December 20, 2018 letter sent by the Authority to PADEP, PADEP responded with an April 5, 2019 letter to the Township. PADEP said the December letter did not sufficiently address all of PADEP's concerns with sewage disposal needs identification in the project area. PADEP wants the needs identification submitted by September 3, 2019. ARRO prepared letters that were delivered to property owners in the Byers Road sewer area inviting them to the April 23, 2019 Authority meeting to be held at the Pickering Valley Elementary School. ARRO submitted documents to PennDOT to extend the Byers Road HOP to July 10, 2020 and was granted the extension by PennDOT. At the request of PADEP, on September 26, 2019 ARRO submitted to PADEP a study and \$522,000 cost opinion for potentially providing sewer service to an additional sixteen (16) lots east of the proposed Byers Road Sanitary Sewer Extension terminal manhole. PADEP responded that they will review the study information. ARRO has started preparing

a sanitary sewer grant application under the Pennsylvania Department of Community & Economic Development H2O PA grant program for the Byers Road Sanitary Sewer Extension project. By letter dated November 7, 2019 PADEP issued Byers Road Sanitary Sewer Extension SFPM approval. ARRO is continuing to prepare and will submit a sanitary sewer grant application under the Pennsylvania Department of Community & Economic Development H2O PA grant program for the Byers Road Sanitary Sewer Extension project.

ARRO is studying the feasibility of a sewer extension across Route 100 near Byers Road to pick up commercial business on the west side of Route 100. ARRO is proceeding with the design of the sewer extension across Route 100 near Byers Road to pick up commercial business on the west side of Route 100.

The Byers Road grant application was submitted on December 12, 2019. Action on the application is not expected until May or June 2020.

Milford Farms – ARRO had survey completed on Surrey Lane and Carriage Drive, and on portions of Font Road and Milford Road, as preliminary to the sanitary sewer design for residential homes along these roads. Survey indicated Milford Road gravity sewers would be untenable due to existing grades. ARRO completed a preliminary design for gravity sewer within Surrey Lane, Carriage Drive and the portion of Font Road between Surrey and Carriage. A small wastewater pump station will be needed. The pump station is proposed to be located at the intersection of Font Road and Milford Road and its force main would be connected to an existing force main located in Font Road serving three homes on the Milford Road dead-end. ARRO prepared presentation graphics of the proposed sewer for the Authority Administrator. ARRO prepared letters that were delivered to property owners in the Milford Farms sewer area inviting them to the April 23, 2019 Authority meeting to be held at the Pickering Valley Elementary School.

ARRO is proceeding with the preparation of the sanitary sewer design drawings and specifications for project's submission to PADEP.

ARRO is creating Milford Road and Byers Road sanitary sewer informational documents for the Township's website.

Windsor Baptist Church – A Preliminary Plan – Land Development Plan was submitted for a 3-story building expansion to the church. ARRO prepared an April 4, 2019 letter to the Township with its comments to the sanitary sewer portion of the project. ARRO reviewed the Land Development Plan Revision No. 1, dated April 18, 2019, and received by ARRO July 1, 2019. ARRO prepared a July 1, 2019 letter to the Township with comments to the sanitary sewer portion of the plan.

Nothing new to report.

241 Park Road LLC (McQueen)

E. B. Walsh transmitted a September 2010 Grading and Utility Plan and a sanitary sewer Details drawing to ARRO. On October 10, 2019 E. B. Walsh informed ARRO that as yet no updated SFPM documents have been submitted for the project.

Nothing new to report.

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

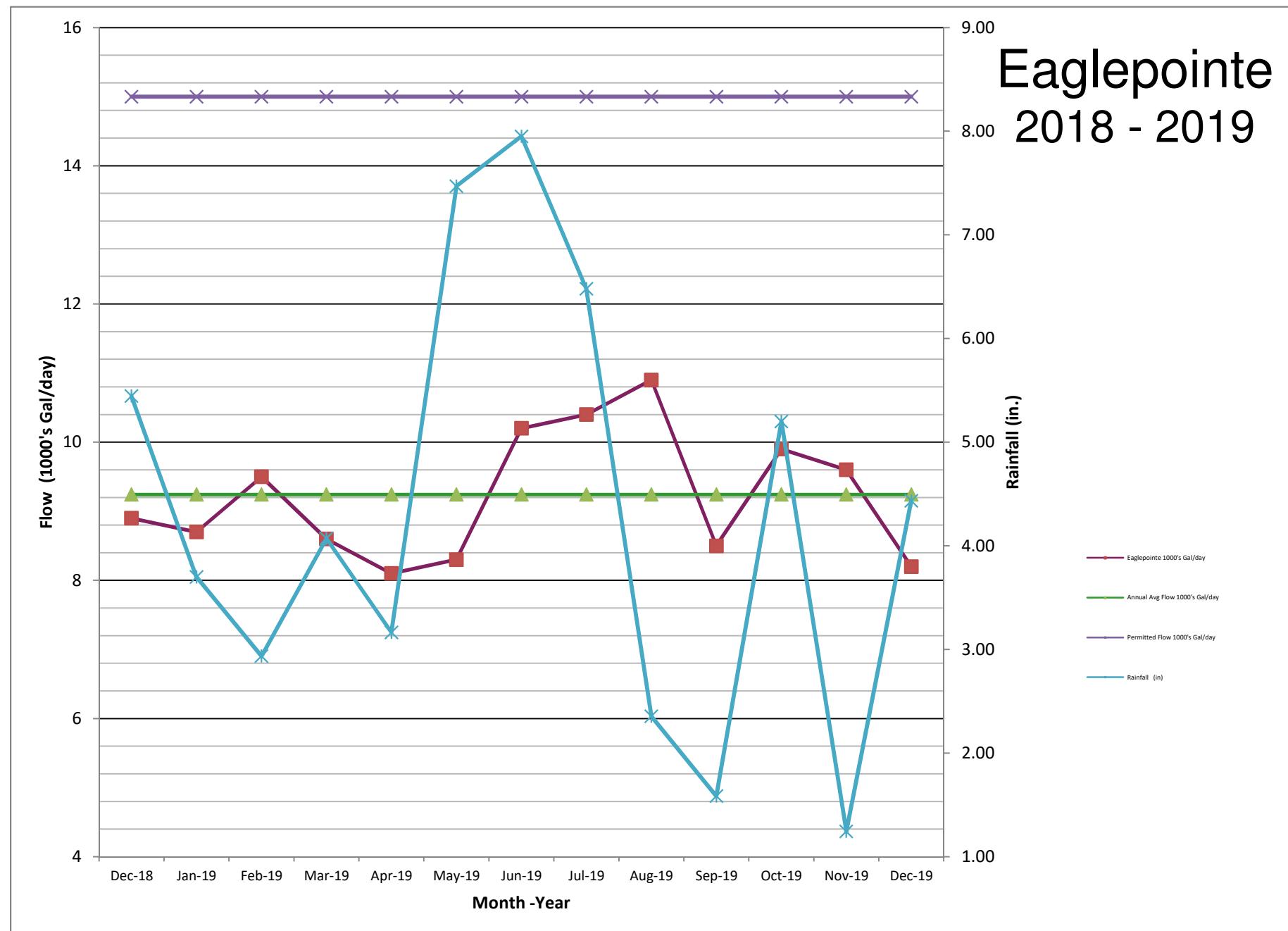
UPPER UWCHLAN MUNICIPAL AUTHORITY
WASTEWATER TREATMENT PLANTS

MONTHLY AVERAGE DAILY FLOWS

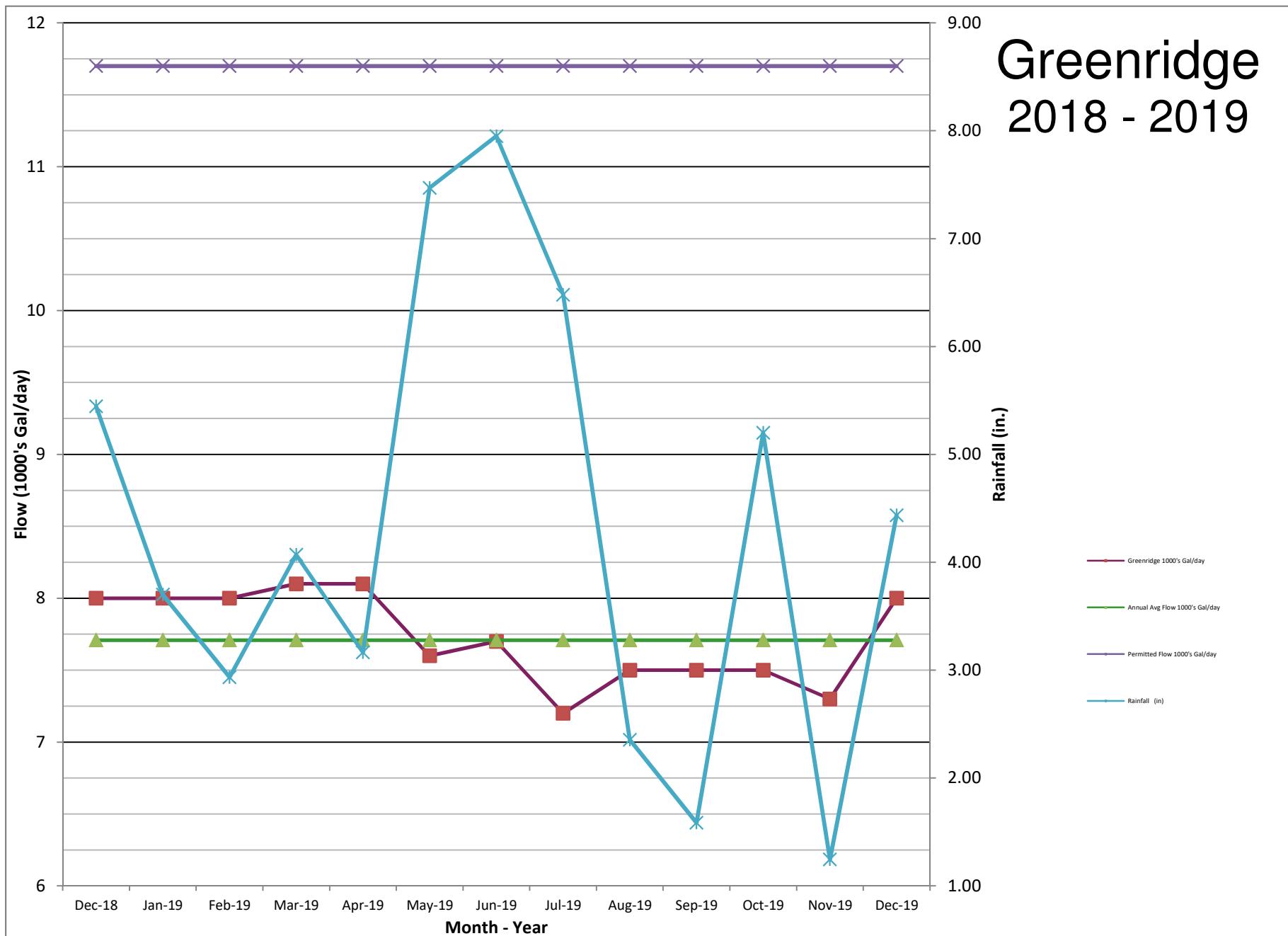
Month - Year		Average Daily Flow (MGD)							Rainfall (in)
		Eaglepointe	Greenridge	Lakeridge	Marsh Harbour	Route 100	Saybrooke	St. Andrews	
Dec-18		0.00890	0.00800	0.03170	0.04500	0.35840	0.00800	0.00270	5.45
Jan-19		0.00870	0.00800	0.03470	0.04560	0.36600	0.00760	0.00270	3.70
Feb-19		0.00950	0.00800	0.02940	0.04410	0.36780	0.00800	0.00250	2.94
Mar-19		0.00860	0.00810	0.02860	0.04420	0.38600	0.00800	0.00240	4.07
Apr-19		0.00810	0.00810	0.02670	0.04070	0.36500	0.00820	0.00260	3.17
May-19		0.00830	0.00760	0.02820	0.04250	0.35720	0.00820	0.00260	7.47
Jun-19		0.01020	0.00770	0.02310	0.03990	0.34300	0.00750	0.00200	7.95
Jul-19		0.01040	0.00720	0.02330	0.04040	0.34700	0.00790	0.00170	6.48
Aug-19		0.01090	0.00750	0.02250	0.03820	0.32830	0.00800	0.00140	2.36
Sep-19		0.00850	0.00750	0.02110	0.03630	0.33150	0.00720	0.00140	1.59
Oct-19		0.00990	0.00750	0.02120	0.03730	0.32760	0.00790	0.00250	5.20
Nov-19		0.00960	0.00730	0.02270	0.03850	0.33940	0.00790	0.00240	1.25
Dec-19		0.00820	0.00800	0.02600	0.04310	0.35160	0.00730	0.00240	4.44
Annual Avg Flow =		0.00924	0.00771	0.02563	0.04090	0.35087	0.00781	0.00222	
Permitted Flow =		0.01500	0.01170	0.04000	0.07600	0.60000	0.00920	0.00360	

Eaglepointe

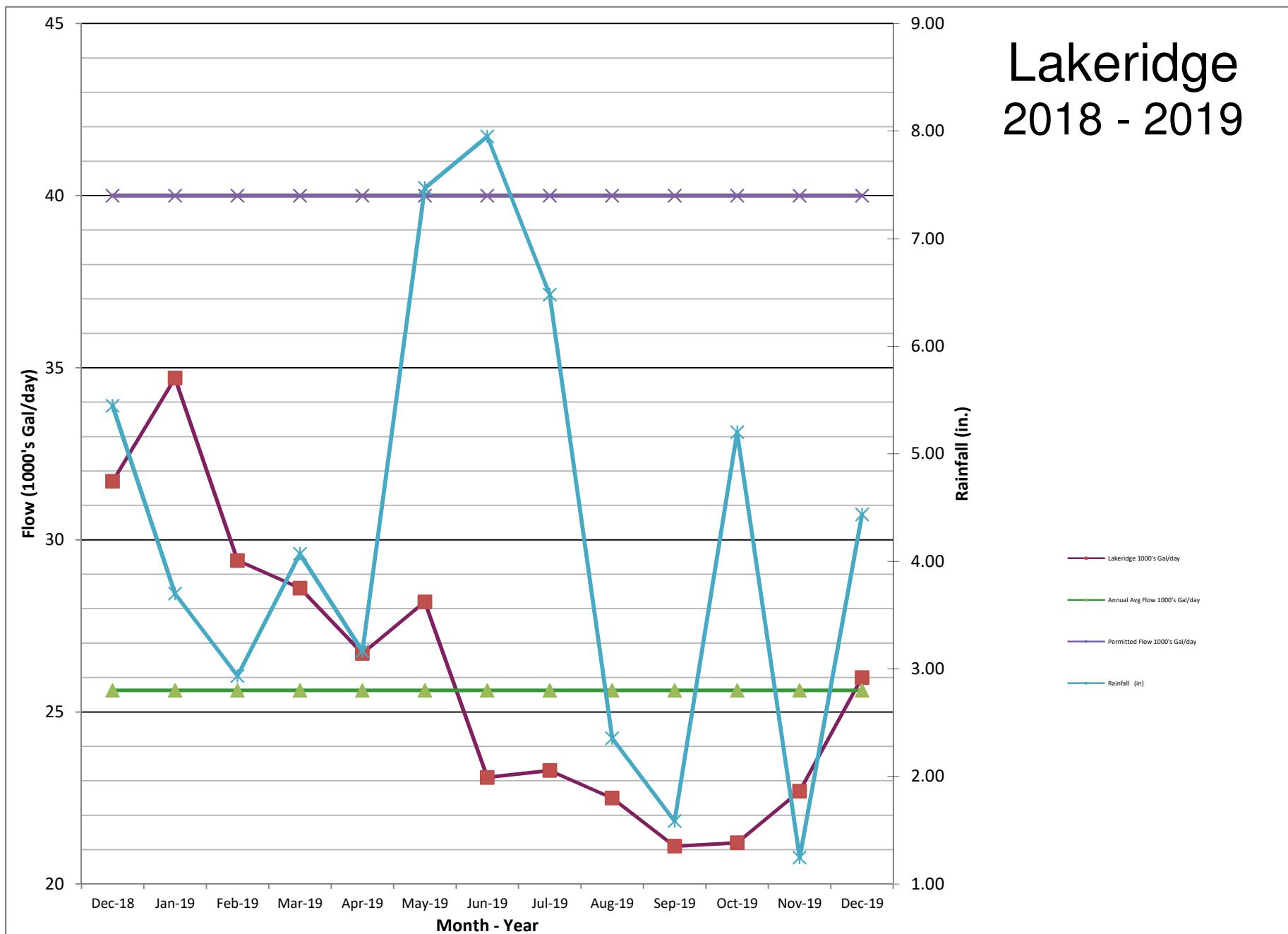
2018 - 2019



Greenridge 2018 - 2019

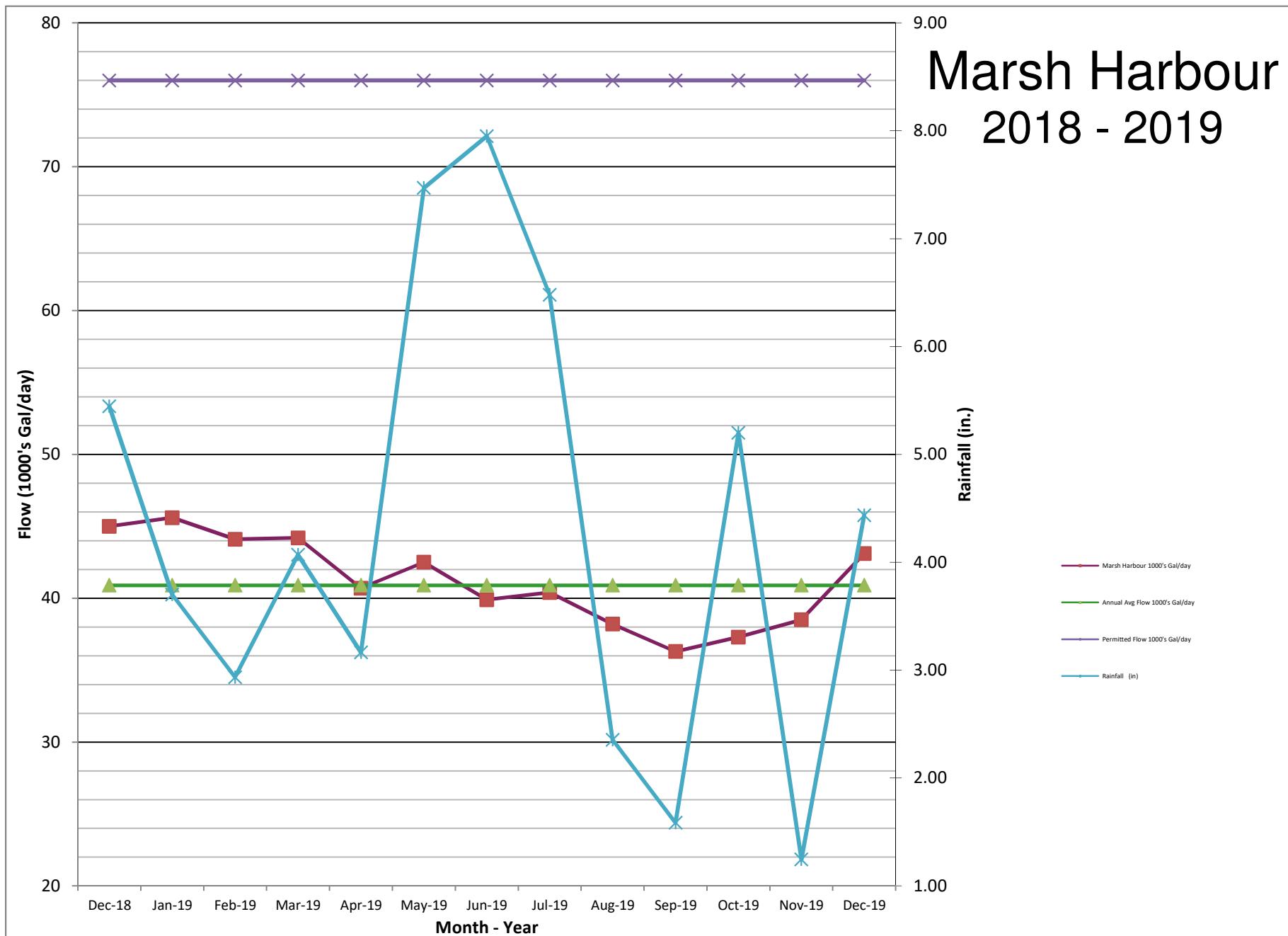


Lakeridge 2018 - 2019



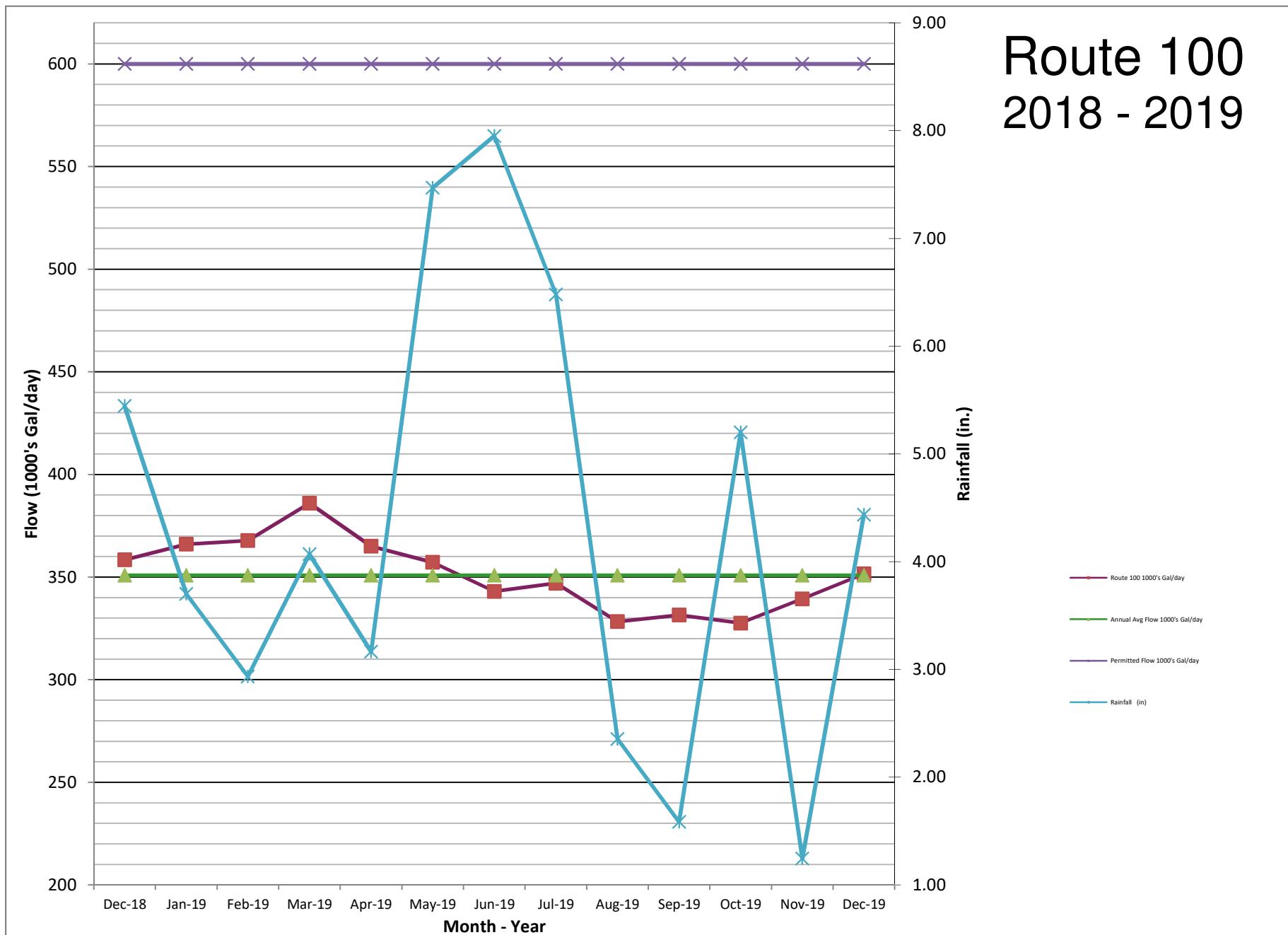
Marsh Harbour

2018 - 2019

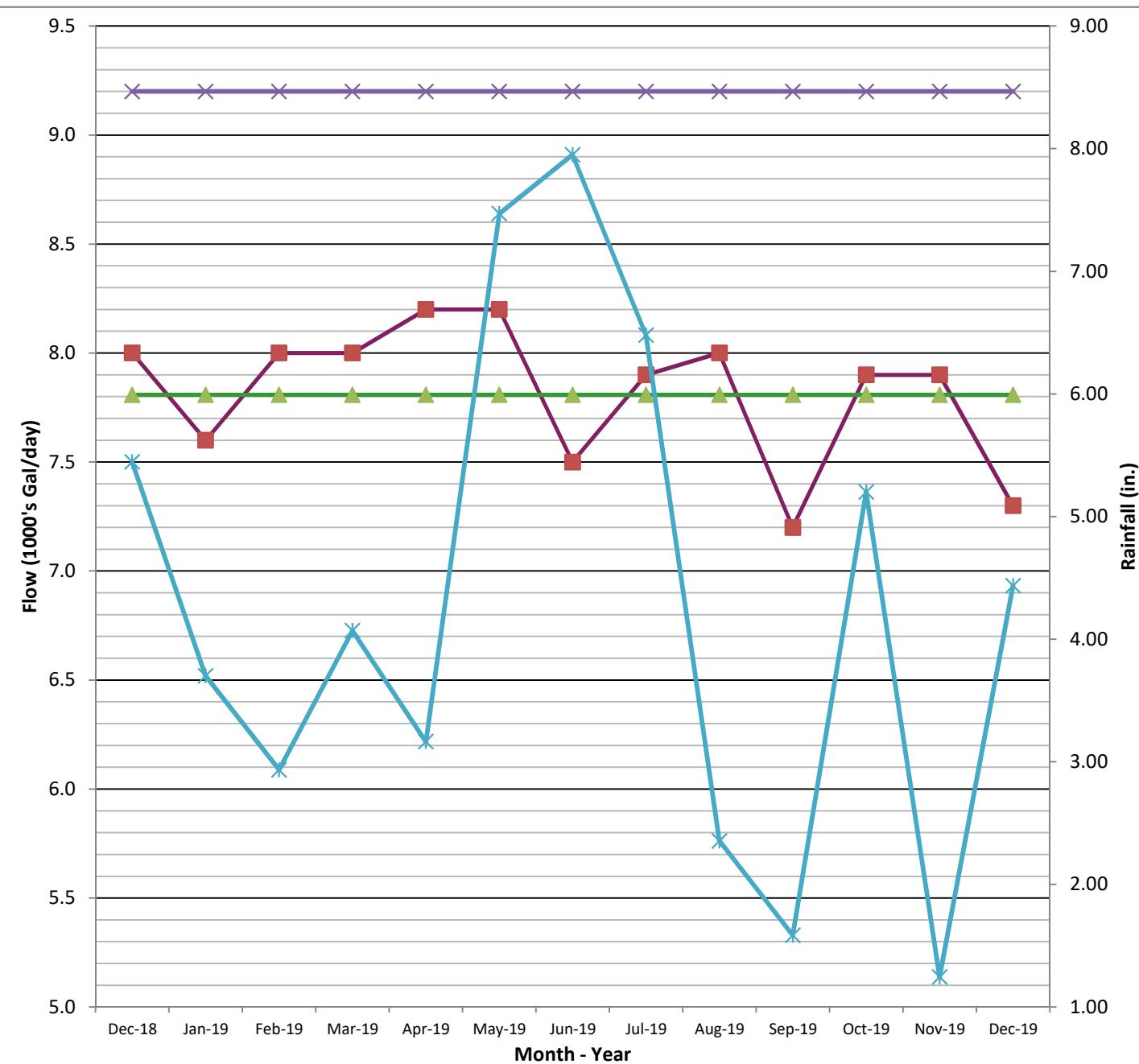


Route 100

2018 - 2019

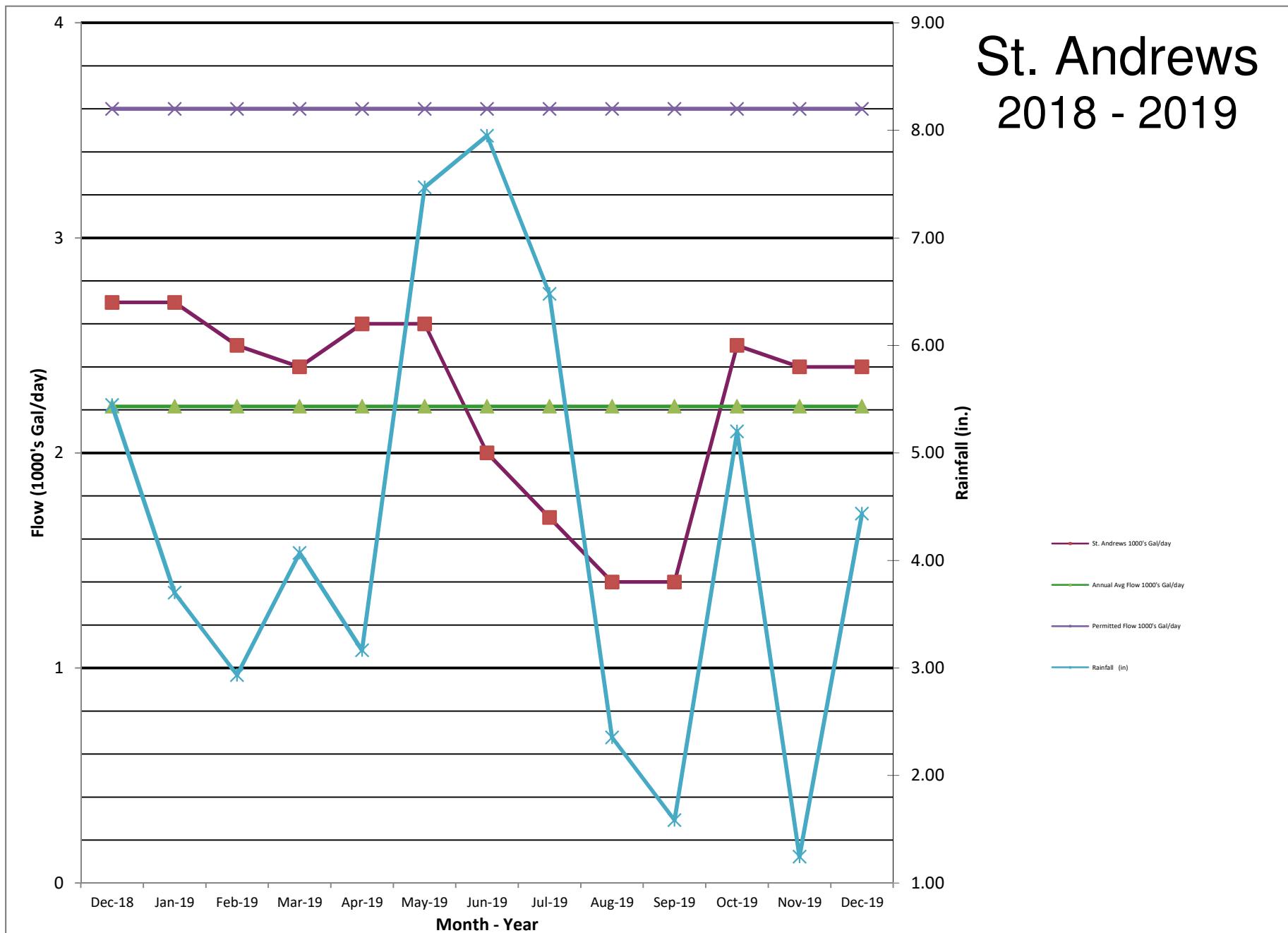


Saybrooke 2018 - 2019



St. Andrews

2018 - 2019





To: Municipal Authority Members
From: G. Matthew Brown, P.E., DEE
Re: Authority Administrator's Report
Date: January 24, 2020

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 McKee, Solicitor and Authority regarding Phase III of the Route 100 WWTF and Agreement.
- E. Communication with Randy DiLibero regarding his proposed sewer extension to the Eaglepointe WWTF and revisions to the design of the sewer line.
- F. Communication with WAWA, Clean Water and ARRO regarding discharge to the Eaglepointe WWTF.
- G. Communication with the Developer and ARRO regarding the Vantage Point Retirement Living (Byers Station Parcel 6C) connection.
- H. Communication with ARRO and contractors regarding the Lakeridge Sludge Holding Tank Project.
- I. Modification of Draft 2020 Operating and Capital Budgets.

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



DECEMBER 2019 REPORT UUT MUNICIPAL AUTHORITY PUBLIC WORKS DEPARTMENT

The following projects are underway:

Ongoing:

- Now working on new hire to replace Brian Owens who has left the position of Facilities Worker with emphasis on MA. Tim Connolly has stepped up for the time being. He is doing a fine job.
- 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.

Public Works continues to work on the properties as follows:

Complete:

- Rte. 100 WWTP
 - 1. Replaced life rings
 - 2. General cleanup at this location
- Byers Station Effluent PS
 - 1. General cleaning of station
- Byers Station Influent PS
 - 1. General cleaning of station
- Ewing PS
 - 1. General cleaning of station
- Ewing West Vincent PS
 - 1. General cleaning of station
- Ewing Tract Effluent Disposal System
 - 1. No work orders for this location
 - 2. Cleaned station
- Eagle Hunt
 - 1. Cleaning of this location

- **Windsor Ridge**
 - 1. General cleaning
- **Saybrook WWTP**
 - 1. General cleaning of station
 - 2. Trash removal
- **Seabury**
 - 1. There are currently no work orders for this facility.
- **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. General cleaning of station
- **St Andrews Brae PS (at St Andrews intersection)**
 - 1. There are currently no work orders for this facility.
- **Reserve Lagoon**
 - 1. Replaced two 3-way switches for the general lighting.
 - 2. General cleaning of station
- **Reserve at Eagle PS1**
 - 1. General cleaning
- **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. General cleaning of station
- **Stonehedge**
 - 1. There are currently no work orders for this facility.
- **Marsh Harbour WWTP**
 - 1. General cleaning and trash removal
 - 2. Tree work was completed at this location to stop pine needles from clogging plant
- **Marsh Harbour PS**
 - 1. There are no work orders for this station

- **Meadowcreek**
 1. There are currently work orders for this facility.
 2. The planting is done
- **Eaglepointe**
 1. Trash collection and cleaning
 2. The rag issue continues here. Wawa is working on a tank installation prior to entering our system.
- **Heron Hill PS**
 1. There are currently no work orders for this facility.
- **Lakeridge WWTP**
 1. General cleaning and trash removal
 2. Tree removal has been completed at this plant also. We may need to address new plantings in the spring.
 3. Tank project still underway. Mostly complete.
- **Lakeridge Pump Station**
 1. The station has been cleaned and painted.
- **Eagle Farms Rd PS (WV)**
 1. General cleaning of station
- **Little Conestoga Rd PS**
 1. There are currently no work orders for this facility.
 2. General cleaning
- **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.
- **Public Works continues to respond to Pa 1-calls. UUT responded to 70 PA 1-Call tickets during the month of December.**

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



Trappe Office

350 West Main Street

Suite 200

Trappe, PA 19426

O 610-495-2103

VIA EMAIL

January 20, 2020

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

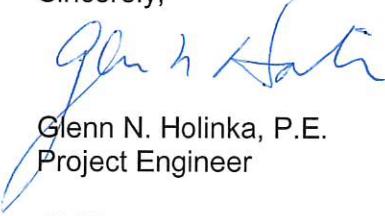
RE: Lakeridge Wastewater Treatment Facilities Sludge Holding Tank Replacement
Contract LSHT – B – Electrical Construction Contract
Execution Request; Change Order No. 5
ARRO No. 10270.53

Dear Gentlemen:

On behalf of Eastern Environmental Contractors, Inc., the general contractor for the above referenced project, ARRO Consulting, Inc. is submitting the attached Change Order No. 5 for your review and execution. This change order is related to an allowance for permitting costs which were required as mandatory in the bid form as Item No. 2, however, were not required as indicated in the preconstruction meeting. The change order resulted in a net deduct in the contract cost of \$7,500.00.

If you have any questions, please feel free to contact me at glenn.holinka@arroconsulting.com or by telephone at 484.294.4351.

Sincerely,



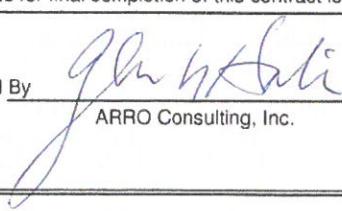
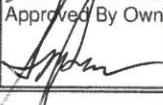
Glenn N. Holinka, P.E.
Project Engineer

GNH
Enclosures

cc: Gwen Jonik, Township Secretary, Upper Uwchlan Township (w/ encl. via email)
G. Matthew Brown, P.E., DEE – ARRO (w/ encl. via email)
Barry Conrad, Eastern Environmental Contractors, Inc. (w/ encl. via email)
John A. Mott, P.E. – ARRO (w/ encl. via email)
Jay R. Jackson, P.E. – ARRO (w/ encl. via email)

ARRO Consulting, Inc. 350 West Main Street, Suite 200 Trappe, PA 19426	Change Order No. 5		Contract No. LSHT - B Original Contract Date November 15, 2018 Base Contract Price: \$59,350.00 Engineer's Job No.: 10270.53 Owner's Job No.: N.A.
	Addition	Deduction (\$7,500.00)	
Owner Name: Upper Uwchlan Municipal Authority Address: 140 Pottstown Pike Chester Springs, PA 19425		Contract For Lakeridge Wastewater Treatment Facilities Sludge Tank Replacement	
Contractor Name: Eastern Environmental Contractors, Inc. Address: 6304 - 5th Street Green Lane, PA 18054			

It is hereby agreed this 16th day of January 2020, subject to the provisions of the contract and specifications to make the following changes:

CO Item No.	Bid Item No.	Description	Unit	Qty.	Unit Price	Addition	Deduction
1	2	Dollar amount allowance for permitting costs which were required as mandatory in the bid form. No permits were required as discussed in the preconstruction meeting.	L.S.	1.0	\$7,500.00		\$ 7,500.00
Totals							
Net Addition or Deduction this Change Order							
(\$7,500.00)							
Base Contract Price							
\$59,350.00							
Total Net Addition or Deduction by Previous Change Order(s)							
\$5,150.01							
Total Amount of Contract Prior to this Change Order							
\$64,500.01							
Net Addition or Deduction this Change Order No. 5							
(\$7,500.00)							
Net Amount of Contract to Date							
\$57,000.01							
There will be an extension of time of 0 calendar days for completion. The date for substantial completion of this contract is October 11, 2019 and the date for final completion of this contract is November 10, 2019.							
Prepared By		01/20/2020	Date	Approved By Contractor 		Date	
	ARRO Consulting, Inc.			Approved By Owner 			Date 01/20/2020

**VIA ELECTRONIC MAIL**

January 22, 2020

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

Trappe Office
350 West Main Street
Suite 200
Trappe, PA 19426
O 610-495-2103

RE: Upper Uwchlan Township Municipal Authority
Lakeridge Wastewater Treatment Facilities Sludge Holding Tank Replacement
Contract LSHT – A – General Construction – Blooming Glen Contractors, Inc.
Payment Application Nos. 8 and 9
ARRO No. 10270.53

Dear Gentlemen:

Please find enclosed a copy of Lakeside Sludge Tank Replacement for Payment Application No. 8 and Payment Application No. 9. Both applications are being submitted concurrently as a result of Blooming Glen missing the submission date for December's Authority meeting.

Payment Application No. 8 is in the amount of \$9,956.71 for work completed through December 10, 2019. This application includes payment for work associated with demolition and decommissioning of the existing sludge holding tank, and miscellaneous site work in preparation of paving.

Payment Application No. 9 is in the amount of \$36,600.75 for work completed through January 22, 2020. This application includes payment for work associated with paving, site restoration and demobilization.

We recommend that the Authority approve payment to Blooming Glen Contractors, Inc. in the combined amount of \$46,557.46 (\$9,956.71 plus \$36,600.75), which represents the value of the work completed less five percent (5%) retainage in accordance with the terms of the Agreement and less previous payments.

If you have any questions, please feel free to contact me at glenn.holinka@arroconsulting.com or by telephone at 484.294.4351.

Sincerely,

Glenn N. Holinka, P.E.
Project Engineer

GNH
Enclosure

Cc: Gwen Jonik – Upper Uwchlan Township (via email)
Jill Bukata – Upper Uwchlan Township (via email)
Sandy Diffendal – Upper Uwchlan Township (via email)
Kyle Taylor - Blooming Glen Contractors, Inc. (via email)
G. Matthew Brown, P.E., DEE – ARRO (via email)

APPLICATION FOR PAYMENT NO.8

TO (OWNER): Upper Uwchlan Township

PROJECT NO.: LHST-A

PERIOD TO:

12/10/19

FROM (CONTRACTOR):

Blooming Glen Contractors, Inc.-Water & Wastewater Services Division

CONTRACT DATE:

12/17/18

CONTRACT FOR: Site Work-Lakeridge Sludge Holding Tank

CHANGE ORDER SUMMARY		ADDITIONS	DELETIONS
Change Orders approved in previous months by Owner			
	TOTAL		-\$1,491.68
Approved this Month			
Number	Date Approved		
COR 5	11/22/2019	3243.91	
COR 6	11/27/2019	6707.20	
	TOTALS	\$9,951.11	
Net change by Change Orders		\$8,459.43	

PAGE 1 OF 2

1. ORIGINAL CONTRACT SUM	\$ 520,500.00
2. Net change by Change Orders	\$ 8,459.43
3. CONTRACT SUM TO DATE (Line 1±2)	\$ 528,959.43
4. TOTAL COMPLETED TO DATE (Columns B+C on Page 2)	\$ 457,221.20
5. RETAINAGE: 5 % of Completed Work	\$ 22,861.06
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5)	\$ 434,360.14
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Application)	\$
8. CURRENT AMOUNT DUE	\$ 424,403.43
9. BALANCE TO FINISH, PLUS RETAINAGE (Line 3 less Line 6)	\$ 9,956.71
	\$ 94,599.29

CONTRACTOR'S CERTIFICATION:

The undersigned Contractor certifies that (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied to discharge in full all obligations of Contractor incurred in connection with Work covered by prior Applications for Payment numbered 1 through _ inclusive and that such payments have been made in compliance with the Pennsylvania Prompt Pay Act, Act 142 of 1994; (2) title to all materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment, free and clear of all liens, claims, security interests and encumbrances (except such as covered by Bond acceptable to Owner indemnifying Owner against any such lien, claim, security interest, or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective, as that term is defined in the Contract Documents.

Dated 12/13/19 2019

Blooming Glen Contractors, Inc.-Water & Wastewater Services Division

By *Amber Nelson* CONTRACTOR
(Authorized Signature)

Amber Nelson, Vice-President, Asst. Sect.

Jennifer S. Kratz

Payment of the above CURRENT AMOUNT DUE is recommended.

Dated *January 20*, 20 *20*

By *Jennifer S. Kratz* ARRO CONSULTING, INC.
ENGINEER
(Authorized Signature)

COMMONWEALTH OF PENNSYLVANIA	
NOTARIAL SEAL	
JENNIFER S. KRATZ, Notary Public Skippack Twp., Montgomery County My Commission Expires July 25, 2020	

APPLICATION FOR PAYMENT NO.8

CONTRACT FOR: Site Work-Lakeridge Sludge Holding Tank

PERIOD TO: 12/10/19

Project # LHST-A

PAGE 2 OF 2

Item No.	DESCRIPTION OF WORK	WORK COMPLETED						
		Previous Applic - B	This Period - C					
1	Bonds & Insurance	LS	\$11,895.00	1	\$11,895.00	—	1	\$11,895.00
2	Mobilization	LS	\$2,900.00	1	\$2,900.00	—	1	\$2,899.10
3	Demobilization	LS	\$1,555.00	1	\$1,555.00	—	1	
4	As-Builts & Close-Out	LS	\$1,166.00	1	\$1,166.00	—	1	
5	Excavate & Shore For Precast	LS	\$57,570.00	1	\$57,570.00	—	1	\$57,570.00
6	Backfill Vault, Remove Shoring	LS	\$18,386.00	1	\$18,386.00	—	1	\$18,386.00
7	Backfill Sludge Pit & New Floor	LS	\$8,968.00	1	\$8,968.00	—	1	\$8,968.00
8	Furnish & Set Precast Tank	LS	\$80,088.00	1	\$80,088.00	—	1	\$80,088.00
9	Pour in Place Vault Concrete	LS	\$7,851.00	1	\$7,851.00	—	1	\$7,851.00
10	F&I Hatches	LS	\$11,107.00	1	\$11,107.00	—	1	\$11,107.00
11	Mechanical Work, Sludge Tank	LS	\$120,524.00	1	\$120,524.00	—	1	\$120,524.00
12	Mechanical Work, Odor Control	LS	\$35,671.00	1	\$35,671.00	—	1	\$35,671.00
13	Replace Blower	LS	\$13,879.00	1	\$13,879.00	—	1	\$13,879.00
14	Replace Unit Heaters	LS	\$12,900.00	1	\$12,900.00	—	1	\$12,900.00
15	Demolition of Sludge Pit	LS	\$23,518.00	1	\$23,518.00	0.55	1	\$12,934.90
16	Yard Piping to New Vault	LS	\$17,569.00	1	\$17,569.00	—	1	\$17,569.00
17	Yard Piping Connections	LS	\$14,813.00	1	\$14,813.00	—	1	\$14,813.00
18	Temp & Perm Fence Work	LS	\$14,820.00	1	\$14,820.00	—	1	
19	Electrical Trench Work	LS	\$10,863.00	1	\$10,863.00	—	1	\$10,863.00
20	Bollards	LS	\$2,739.00	1	\$2,739.00	—	1	\$2,739.00
21	Grass Restoration	LS	\$4,922.00	1	\$4,922.00	—	1	
22	Asphalt	LS	\$25,479.00	1	\$25,479.00	—	1	
23	E&S	LS	\$7,157.00	1	\$7,157.00	0.85	1	\$6,083.45
24	Unclassified Excavation	CY	\$94.00	10	\$940.00	—	1	
25	2A Backfill	CY	\$56.00	10	\$560.00	—	1	
26	Misc Concrete	CY	\$434.00	5	\$2,170.00	—	1	
27	Rock Removal	CY	\$299.00	10	\$2,990.00	—	1	
28	Permits & Inspections	LS	\$7,500.00	1	\$7,500.00	—	1	
		Totals			\$520,500.00			\$446,740.45
								\$10,480.75
CO No.	CHANGE ORDERS							
1	Adjust Location of Sludge Tank	LS	-\$1,491.68	\$1.00	-\$1,491.68	—	1	
2			\$0.00		\$0.00	—	1	
5	Ports in Dosing Tank	LS	\$3,243.91	\$1.00	\$3,243.91	—	1	
6	OSY Mill & Overlay	LS	\$6,707.20	\$1.00	\$6,707.20	—	1	
		Totals	8459.43		8459.43	—	1	

APPLICATION FOR PAYMENT NO.9

TO (OWNER): Upper Uwchlan Township PROJECT NO.: LHST-A PERIOD TO: 01/22/20

FROM (CONTRACTOR): Blooming Glen Contractors, Inc.-Water & Wastewater Services Division CONTRACT DATE: 12/17/18

CONTRACT FOR: Site Work-Lakeridge Sludge Holding Tank

CHANGE ORDER SUMMARY		ADDITIONS	DELETIONS
Change Orders approved in previous months by Owner			
TOTAL			-\$1,491.68
Approved this Month			
Number	Date Approved		
COR 5	11/22/2019	3243.91	
COR 6	11/27/2019	6707.20	
TOTALS		\$9,951.11	
Net change by Change Orders		\$8,459.43	

CONTRACTOR'S CERTIFICATION:

The undersigned Contractor certifies that (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied to discharge in full all obligations of Contractor incurred in connection with Work covered by prior Applications for Payment numbered 1 through 8 inclusive and that such payments have been made in compliance with the Pennsylvania Prompt Pay Act, Act 142 of 1994; (2) title to all materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment, free and clear of all liens, claims, security interests and encumbrances (except such as covered by Bond acceptable to Owner indemnifying Owner against any such lien, claim, security interest, or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective, as that term is defined in the Contract Documents.

Dated 01/22/20

Blooming Glen Contractors, Inc.-Water & Wastewater Services Division

By *Carly Henry* CONTRACTOR
(Authorized Signature)

Carly Henry, President/Asst. Sect.

Jennifer S. Kratz

1. ORIGINAL CONTRACT SUM
2. Net change by Change Orders
3. CONTRACT SUM TO DATE (Line 1±2)
4. TOTAL COMPLETED TO DATE (Columns B+C on Page 2)
5. RETAINAGE: 5 % of Completed Work
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5)
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Application)
8. CURRENT AMOUNT DUE
9. BALANCE TO FINISH, PLUS RETAINAGE (Line 3 less Line 6)

PAGE 1 OF 2

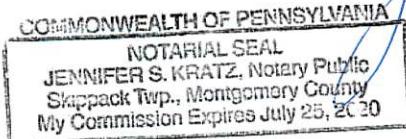
\$	\$520,500.00
\$	\$8,459.43
\$	\$528,959.43
\$	\$495,748.31
\$	\$24,787.42
\$	\$470,960.89
\$	\$434,360.14
\$	\$36,600.75
\$	<u>\$57,998.55</u>

Payment of the above CURRENT AMOUNT DUE is recommended.

Dated *January 22*, 20*20*

ARRO CONSULTING, INC.
ENGINEER

By *Jeanne S. Kratz*
(Authorized Signature)



APPLICATION FOR PAYMENT NO.9

CONTRACT FOR: Site Work-Lakeridge Sludge Holding Tank

PERIOD TO: 01/22/20

Project # LHST-A

PAGE 2 OF 2

Item No.	DESCRIPTION OF WORK					WORK COMPLETED			
		Previous Applic - B		This Period - C					
1	Bonds & Insurance	LS	\$11,895.00	1	\$11,895.00	1	\$11,895.00		
2	Mobilization	LS	\$2,900.00	1	\$2,900.00	1	\$2,899.10		
3	Demobilization	LS	\$1,555.00	1	\$1,555.00				0.5 \$777.50
4	As-Builts & Close-Out	LS	\$1,166.00	1	\$1,166.00				
5	Excavate & Shore For Precast	LS	\$57,570.00	1	\$57,570.00	1	\$57,570.00		
6	Backfill Vault, Remove Shoring	LS	\$18,386.00	1	\$18,386.00	1	\$18,386.00		
7	Backfill Sludge Pit & New Floor	LS	\$8,968.00	1	\$8,968.00	1	\$8,968.00		
8	Furnish & Set Precast Tank	LS	\$80,088.00	1	\$80,088.00	1	\$80,088.00		
9	Pour in Place Vault Concrete	LS	\$7,851.00	1	\$7,851.00	1	\$7,851.00		
10	F&I Hatches	LS	\$11,107.00	1	\$11,107.00	1	\$11,107.00		
11	Mechanical Work, Sludge Tank	LS	\$120,524.00	1	\$120,524.00	1	\$120,524.00		
12	Mechanical Work, Odor Control	LS	\$35,671.00	1	\$35,671.00	1	\$35,671.00		
13	Replace Blower	LS	\$13,879.00	1	\$13,879.00	1	\$13,879.00		
14	Replace Unit Heaters	LS	\$12,900.00	1	\$12,900.00	1	\$12,900.00		
15	Demolition of Sludge Pit	LS	\$23,518.00	1	\$23,518.00	0.95	\$22,342.10	0.05	\$1,175.90
16	Yard Piping to New Vault	LS	\$17,569.00	1	\$17,569.00	1	\$17,569.00		
17	Yard Piping Connections	LS	\$14,813.00	1	\$14,813.00	1	\$14,813.00		
18	Temp & Perm Fence Work	LS	\$14,820.00	1	\$14,820.00				
19	Electrical Trench Work	LS	\$10,863.00	1	\$10,863.00	1	\$10,863.00		
20	Bollards	LS	\$2,739.00	1	\$2,739.00	1	\$2,739.00		
21	Grass Restoration	LS	\$4,922.00	1	\$4,922.00			0.75	\$3,691.50
22	Asphalt	LS	\$25,479.00	1	\$25,479.00			0.9	\$22,931.10
23	E&S	LS	\$7,157.00	1	\$7,157.00	1	\$7,157.00		
24	Unclassified Excavation	CY	\$94.00	10	\$940.00				
25	2A Backfill	CY	\$56.00	10	\$560.00				
26	Misc Concrete	CY	\$434.00	5	\$2,170.00				
27	Rock Removal	CY	\$299.00	10	\$2,990.00				
28	Permits & Inspections	LS	\$7,500.00	1	\$7,500.00				



VIA ELECTRONIC MAIL

January 20, 2020

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

Trappe Office
350 West Main Street
Suite 200
Trappe, PA 19426
O 610-495-2103

RE: Upper Uwchlan Township Municipal Authority
Lakeridge Wastewater Treatment Facilities Sludge Holding Tank Replacement
Contract LSHT – B – Electrical Construction – Eastern Environmental Contractors, Inc.
Payment Application No. 5
ARRO No. 10270.53

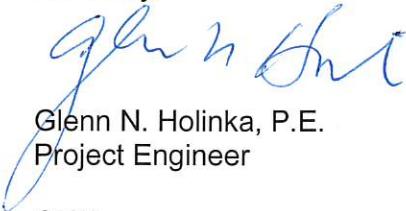
Dear Gentlemen:

Please find enclosed a copy of Lakeside Sludge Tank Replacement for Payment Application No. 5 in the amount of \$5,367.50 submitted by Eastern Environmental Contractors, Inc. for work completed through December 31, 2019. This application includes work associated with providing as-built information for preparation of record documents and completed closeout forms.

We recommend that the Authority approve payment to Eastern Environmental Contractors, Inc. in the amount of \$5,367.50, which represents the value of the work completed, as final payment with no retainage in accordance with the terms of the Agreement.

If you have any questions, please feel free to contact me at glen.holinka@arroconsulting.com or by telephone at 484.294.4351.

Sincerely,

A handwritten signature in blue ink, appearing to read "Glenn N. Holinka".

Glenn N. Holinka, P.E.
Project Engineer

GNH
Enclosure

Cc: Gwen Jonik – Upper Uwchlan Township (via email)
Jill Bukata – Upper Uwchlan Township (via email)
Sandy Diffendal – Upper Uwchlan Township (via email)
Barry Conrad, Eastern Environmental Contractors, Inc. (via email)
G. Matthew Brown, P.E., DEE – ARRO (via email)

APPLICATION FOR PAYMENT NO. Five

TO (OWNER): Upper Uwchlan Township Municipal Authority
140 Pottstown Pike, Chester Springs, PA

PROJECT NO. 10270.53

PERIOD TO:

12/1/19 to 12/31/19

FROM (CONTRACTOR): Eastern Environmental Contractors, Inc.
6304 5th Street, PO Box 278 Green Lane, PA 18054

CONTRACT DATE:

12/27/18

CONTRACT FOR: Upper Uwchlan Township, Lakeridge Wastewater Treatment Facilities Sludge Holding Tank Replacement

PAGE 1 OF 2

CHANGE ORDER SUMMARY		ADDITIONS	DELETIONS
Change Orders approved in previous months by Owner			
TOTAL		\$5,150.01	
Approved this Month		-7500	
Number	Date Approved		
3	5/28/2019		
2	5/28/2019		
TOTALS		-\$7,500.00	
Net change by Change Orders		-\$2,349.99	

1. ORIGINAL CONTRACT SUM	\$ 59,350.00
2. Net change by Change Orders	\$ (2,349.99)
3. CONTRACT SUM TO DATE (Line 1±2)	\$ 57,000.01
4. TOTAL COMPLETED TO DATE (Columns B+C on Page 2)	\$ 57,000.01
5. RETAINAGE: 0% of Completed Work	\$ -
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5)	\$ 57,000.01
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Application)	\$ 51,632.51
8. CURRENT AMOUNT DUE	\$ 5,367.50
9. BALANCE TO FINISH, PLUS RETAINAGE (Line 3 less Line 6)	\$ -

CONTRACTOR'S CERTIFICATION:

The undersigned Contractor certifies that (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied to discharge in full all obligations of Contractor incurred in connection with Work covered by prior Applications for Payment numbered 1 through inclusive and that such payments have been made in compliance with the Pennsylvania Prompt Pay Act, Act 142 of 1994; (2) title to all materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment, free and clear of all liens, claims, security interests and encumbrances (except such as covered by Bond acceptable to Owner indemnifying Owner against any such lien, claim, security interest, or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective, as that term is defined in the Contract

Documents.

Dated 31-Dec, 2019

Eastern Environmental Contractors, Inc.

CONTRACTOR

By 

(Authorized Signature)

Payment of the above CURRENT AMOUNT DUE is recommended.

Dated January 20, 2020

ARRO CONSULTING, INC.

ENGINEER

By 

(Authorized Signature)

APPLICATION FOR PAYMENT NO. Five

CONTRACT FOR: Upper Uwchlan Township, Lakeridge Wastewater Treatment Facilities Sludge Holding Tank Replacement

PERIOD TO: 12/1/19 to 12/31/19

Project # 10270.53

PAGE 2 OF 2

Item No.	DESCRIPTION OF WORK	CONTRACTOR's Schedule of Values - A				WORK COMPLETED			
		Unit	Unit Price	Quantity	Ext. Price	Previous Applic - B		This Period - C	
						Quantity	Amount	Quantity	Amount
1	Mobilization Demolition Install Electrical Equipment Install Buried Conduit Install Conduit & Wire As-builts & Closeout Permit Allowance	lump	\$ 2,967.00	1	\$ 2,967.00	1	\$ 2,967.00	0	\$ -
2			\$ 3,550.00	1	\$ 3,550.00	1	\$ 3,550.00	0	\$ -
3			\$ 15,800.00	1	\$ 15,800.00	1	\$ 15,800.00	0	\$ -
4			\$ 6,000.00	1	\$ 6,000.00	1	\$ 6,000.00	0	\$ -
5			\$ 20,883.00	1	\$ 20,883.00	1	\$ 20,883.00	0	\$ -
6			\$ 2,650.00	1	\$ 2,650.00	0	\$ -	1	\$ 2,650.00
7			\$ 7,500.00	1	\$ 7,500.00	0	\$ -	1	\$ 7,500.00
Totals					\$ 59,350.00		\$ 49,200.00		\$ 10,150.00
CO No.	CHANGE ORDERS								
1	Tank Location Adjustment No cost time extension New feed for heater circuits Deduct Permit Allowance	Lump	\$ 1,491.68	1	\$ 1,491.68	1	\$ 1,491.68	0	\$ -
2			0	0	0	1	0	0	\$ -
3			\$ 3,658.33	1	\$ 3,658.33	1	\$ 3,658.33	0	\$ -
5			\$ (7,500.00)	0	\$ (7,500.00)	0	\$ (7,500.00)	1	\$ (7,500.00)
Totals			\$ (2,349.99)		\$ (2,349.99)		\$ 5,150.01		\$ (7,500.00)



December 23, 2019

Mr. Bob Watts
Chairman
and
Ms. Shanna Lodge
Acting Township Manager
Upper Uwchlan Township Municipal Authority
140 Pottstown Pike
Chester Springs, PA 19425-9156

Dear Mr. Watts and Ms. Lodge:

The following represents our understanding of the services we will provide Upper Uwchlan Township Municipal Authority.

You have requested that we audit the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of Upper Uwchlan Township Municipal Authority, as of December 31, 2019 and 2020, and for the years then ended and the related notes, which collectively comprise Upper Uwchlan Township Municipal Authority's basic financial statements as listed in the table of contents. Also, the document we submit to you will include the following additional information that will be subjected to the auditing procedures applied in our audit of Upper Uwchlan Township Municipal Authority:

- Annual Report of Municipal Authorities (DCED)
- Summary Financial Statements

In addition, we will file the Annual Report of Municipal Authorities electronically with the Department of Community and Economic Development.

We are pleased to confirm our acceptance and our understanding of this audit engagement by means of this letter. Our audit will be conducted with the objective of our expressing an opinion on each opinion unit applicable to those basic financial statements.

Auditor Responsibilities

We will conduct our audit in accordance with auditing standards generally accepted in the United States of America and the standards for financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the basic financial statements are free from material misstatement. An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the basic financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the Upper Uwchlan Township Municipal Authority, whether due to fraud or error, misappropriation of assets, or violations of laws, governmental regulations, grant agreements, or contractual agreements.

An audit also includes evaluating the appropriateness of accounting policies used, and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the basic financial statements. If appropriate, our procedures will therefore include tests of documentary evidence that

support the transactions recorded in the accounts, tests of the physical existence of inventories, and direct confirmation of cash, investments, and certain other assets and liabilities by correspondence with creditors and financial institutions. As part of our audit process, we will request written representations from your attorneys, and they may bill you for responding. At the conclusion of our audit, we will also request certain written representations from you about the basic financial statements and related matters.

Because of the inherent limitations of an audit, together with the inherent limitations of internal control, an unavoidable risk that some material misstatements (whether caused by errors, fraudulent financial reporting, misappropriation of assets, or violations of laws or governmental regulations) may not be detected exists, even though the audit is properly planned and performed in accordance with auditing standards generally accepted in the United States of America.

In making our risk assessments, we consider internal control relevant to the entity's preparation and fair presentation of the basic financial statements in order to design audit procedures that are appropriate in the circumstances but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. However, we will communicate to you in writing concerning any significant deficiencies or material weaknesses in internal control relevant to the audit of the basic financial statements that we have identified during the audit. Our responsibility as auditors is limited to the period covered by our audit and does not extend to any other periods.

We cannot provide assurance that unmodified opinions will be expressed. Circumstances may arise in which it is necessary for us to modify our opinions or add emphasis-of-matter or other-matter paragraphs. If our opinions on the basic financial statements are other than unmodified, we will discuss the reasons with you in advance. If, for any reason, we are unable to complete the audit or are unable to form or have not formed opinions, we may decline to express opinions or to issue a report as a result of this engagement.

Compliance with Laws and Regulations

As previously discussed, as part of obtaining reasonable assurance about whether the basic financial statements are free from material misstatement, we will perform tests of the Upper Uwchlan Township Municipal Authority's compliance with the provisions of applicable laws, regulations, contracts, and agreements. However, the objective of our audit will not be to provide an opinion on overall compliance and we will not express such an opinion.

Other Services

We will also assist in preparing the basic financial statements and the Summary Financial Statement of the Upper Uwchlan Township Municipal Authority in conformity with accounting principles generally accepted in the United States of America and in preparing closing journal entries. We will perform the services in accordance with applicable professional standards. The other services are limited to the financial statement services previously defined. We, in our sole professional judgment, reserve the right to refuse to perform any procedure to take any action that could be construed as assuming management responsibilities.

Management Responsibilities

Our audit will be conducted on the basis that management acknowledge and understand that they have responsibility:

- a. For the preparation and fair presentation of the basic financial statements in accordance with accounting principles generally accepted in the United States of America.
- b. For the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the basic financial statements that are free from material misstatement, whether due to error, fraudulent financial reporting, misappropriation of assets, or violations of laws, governmental regulations, grant agreements, or contractual agreements; and
- c. To provide us with:
 - i. Access to all information of which management is aware that is relevant to the preparation and fair presentation of the basic financial statements such as records, documentation, and other matters.

- ii. Additional information that we may request from management for the purpose of the audit; and
- iii. Unrestricted access to persons within the entity from whom we determine it necessary to obtain audit evidence.
- d. For including the auditor's report in any document containing the basic financial statements that indicates that such basic financial statements have been audited by the entity's auditor;
- e. For identifying and ensuring that the entity complies with the laws and regulations applicable to its activities;
- f. For adjusting the basic financial statements to correct material misstatements and confirming to us in the management representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the current year period(s) under audit are immaterial, both individually and in the aggregate, to the basic financial statements as a whole; and
- g. For maintaining adequate records, selecting and applying accounting principles, and safeguarding assets.

With regard to the supplementary information referred to above, you acknowledge and understand your responsibility: (a) for the preparation of the supplementary information in accordance with the applicable criteria; (b) to provide us with the appropriate written representations regarding supplementary information; (c) to include our report on the supplementary information in any document that contains the supplementary information and that indicates that we have reported on such supplementary information; and (d) to present the supplementary information with the audited basic financial statements, or if the supplementary information will not be presented with the audited basic financial statements, to make the audited basic financial statements readily available to the intended users of the supplementary information no later than the date of issuance by you of the supplementary information and our report thereon.

With respect to any nonattest services we perform, the Upper Uwchlan Township Municipal Authority's management is responsible for (a) making all management decisions and performing all management functions; (b) assigning a competent individual to oversee the services; (c) evaluating the adequacy of the services performed; (d) evaluating and accepting responsibility for the results of the services performed; and (e) establishing and maintaining internal controls, including monitoring ongoing activities. *Government Auditing Standards* require that we document an assessment of the skills, knowledge, and experience of management, should we participate in any form of preparation of the basic financial statements and related schedules or disclosures as these actions are deemed a nonaudit service.

As part of our audit process, we will request from management written confirmation concerning representations made to us in connection with the audit. You agree that we shall not be responsible for any claim that may arise out of or relate to any of the written or oral representations relied upon by us in issuing our report to you.

In addition, you further agree to indemnify and hold us harmless from any claim, demand, or potential liability; and you agree to tender a defense (including providing counsel) on our behalf, reasonably acceptable to us, to defend against any claim, demand, or potential liability arising out of our services performed under this engagement asserted, brought, or commenced against us by any third party relating to or pertaining to any false or misleading representations by any officer, director, or member of your management team. It is expressly understood that your indemnification and duty to defend obligations apply even if such claim, demand, or potential liability asserts that we were negligent in any way or that the claimed negligence was our own negligence. If you fail to tender a defense, you agree to pay all of our costs and attorneys' fees incurred by us incident to defending against any such claim, demand, or potential liability asserted, brought, or commenced against us by any third party. Additionally, you agree to reimburse us for any settlement reached by us or any monetary award paid by us (unless you have tendered the defense required herein) in the event any such claim, demand, or potential liability is asserted, brought, or commenced against us by any third party.

You agree that any claim, dispute, or cause of action that may arise out of this engagement or relate, in any way, to this engagement, prior to any claim or cause of action being brought in any court or in any other proceeding,

must first be brought to the attention of our Managing Partner by written notice ("Informal Dispute Notice"), and you agree to give the Managing Partner at least twenty (20) days after receipt of your Informal Dispute Notice to resolve any such claim or dispute ("Informal Dispute Procedure").

After the expiration of the Informal Dispute Procedure, you agree that any dispute not resolved must be submitted to mandatory mediation and that the parties will engage in the mediation process in good faith. The mandatory mediation process shall be initiated by a written demand given by either party to the other party in the engagement which describes the nature and basis of the dispute or disputes to be mediated and what relief and/or damages are sought. A mediation demand must be made within one hundred eighty (180) days after the date of the Informal Dispute Notice. Mediation shall be conducted in accordance with the Commercial Mediation Rules of the American Arbitration Association existing as of the date of the mediation demand ("Mediation Rules"). The parties may agree to the selection of a mediator. However, if the parties are unable to agree to the selection of a mediator within twenty (20) days of the mediation demand (or such later time as the parties may mutually agree), such mediator shall be selected in accordance with the Mediation Rules. The Mediator selected must have a minimum of ten (10) years related experience. You shall advance the costs of the mediation, and we agree to reimburse you for one-half of such costs at the conclusion of the mediation process or as may otherwise be mutually agreed during the mediation process. The mediation shall be confidential.

Any court action or other litigation shall be conducted only within the County of New Castle, Delaware. Delaware law shall apply irrespective of any conflicts of laws rules. You agree and consent to personal jurisdiction in the federal and state courts located in New Castle County, Delaware. The parties both agree to waive any right to a trial by jury in any dispute.

Any claim or litigation arising out of this engagement, except solely for any claims by us for payment of amounts due to us under our invoices, must be commenced within the earlier of (i) one (1) year from the accrual of such claim or cause of action; or (ii) one (1) year from the completion of the engagement, notwithstanding any statute of limitations or other statutory provision to the contrary. It is expressly understood that the completion of the engagement contemplated herein shall be deemed to have occurred upon delivery of our audit report to you. However, this period shall be deemed extended for ninety (90) days after the conclusion of the mediation process if the parties were engaged in the mediation process on the date that the period to commence any claim or litigation expires.

We shall not be liable for any incidental, consequential, punitive, exemplary, or noneconomic damages of any sort. In addition, any damages shall be limited to the amount of professional fees paid by you to us in connection with this engagement and shall not exceed such amount. Additionally, such damages shall only be required to be paid once; and upon paying such damages, we shall have no further or other liability for any damages. Further, we may refund to you the amount you paid for our services in connection with this engagement and fully discharge any and all liability to you for damages whatsoever without admitting any fault or liability.

An auditor is required to be "independent" under applicable professional guidelines. If, at any time, our independence is questioned, challenged, or otherwise at risk, we reserve the right to immediately discontinue any further services until such time as such independence issue is resolved to our satisfaction. You agree that you shall have no claim against us for any breach of this agreement if we, in good faith, cease performing work under this engagement due to any issue of independence.

You agree, during the term of this engagement and for a period of six (6) months following the conclusion of this engagement, not to discuss with or otherwise solicit for employment, hire, and/or appoint any person employed by us without our prior written consent. This prohibition shall apply to each and all entities controlled by you or any of your management team. If we give permission for you to engage in any act that you would otherwise be in violation of this prohibition, you agree to pay for all additional services that we reasonably deem to be necessary in order to maintain our independence. If you engage in any act that would be in violation of this prohibition, any reports issued by us shall be automatically deemed withdrawn and void.

The parties agree that no third-party beneficiaries are intended to be created by this engagement or by the work performed by us in connection with this engagement. However, without limiting the applicability of the foregoing, it is expressly understood that any person or entity claiming to be a third-party beneficiary of our services under this engagement shall be bound by all of the provisions of this engagement.

In the event we are required to respond to any subpoena, court order, or other legal process directing us to produce documents and/or testimony (deposition, grand jury, trial, or otherwise) related to knowledge or information we obtained and/or prepared related to, out of, or during the course of this engagement, you agree to compensate us for all time expended by us, in the same manner as set forth above in connection with such response and to reimburse us all costs incurred in connection with such response at our usual rates in effect at such time. We will notify you of the receipt of any such subpoena, court order, or other legal process, unless prohibited by law, by forwarding same to your last known address in our billing records. Unless we receive from you, at least a week before the response deadline in any such subpoena, court order, or other legal process, a court order quashing or other evidence satisfactory to us in our sole discretion that such response deadline is extended, we will respond to such subpoena, court order, or other legal process.

Reporting

We will issue a written report upon completion of our audit of the Upper Uwchlan Township Municipal Authority's basic financial statements. Our report will be addressed to the governing body of the Upper Uwchlan Township Municipal Authority. We cannot provide assurance that an unmodified opinion will be expressed. Circumstances may arise in which it is necessary for us to modify our opinion, add an emphasis-of-matter or other-matter paragraph(s), or withdraw from the engagement.

In accordance with the requirements of *Government Auditing Standards*, we will also issue a written report describing the scope of our testing over internal control over financial reporting and over compliance with laws, regulations, and provisions of grants and contracts, including the results of that testing. However providing an opinion on internal control and compliance will not be an objective of the audit and, therefore, no such opinion will be expressed.

We also will issue a written report on the concise financial report upon completion of our audit.

Other

We understand that your employees will prepare all confirmations we request and will locate any documents or support for any other transactions we select for testing.

If you intend to publish or otherwise reproduce the basic financial statements and make reference to our firm, you agree to provide us with printers' proofs or masters for our review and approval before printing. You also agree to provide us with a copy of the final reproduced material for our approval before it is distributed.

Provisions of Engagement Administration, Timing, and Price

During the course of the engagement, we may communicate with you or your personnel via fax or e-mail, and you should be aware that communication in those mediums contains a risk of misdirected or intercepted communications.

Jeffrey A. Kowalczyk, CPA, CFE, CGAP is the engagement partner for the audit services specified in this letter. His responsibilities include supervising Barbacane, Thornton & Company LLP's services performed as part of this engagement and signing or authorizing another qualified firm representative to sign the audit report. To ensure that Barbacane, Thornton & Company LLP's independence is not impaired under the AICPA Code of Professional Conduct, you agree to inform the engagement partner before entering into any substantive employment discussion with any of our personnel.

Our price for these services will be at our standard hourly rates plus out-of-pocket expenses. We estimate that our price for the above services will be \$5,800 for 2019 and \$6,050 for 2020. Our standard hourly rates vary according to the degree of responsibility involved and the experience level of the personnel assigned to your audit. Our invoices for these services will be rendered each month as work progresses and are payable on presentation. Interest is charged at the rate of 1½ percent per month on past due invoices. In accordance with our firm policies, work may be suspended if your account becomes 90 days or more overdue and will not be resumed until your account is paid in full. If we elect to terminate our services for nonpayment, our engagement will be deemed to have been completed upon written notification of termination, even if we have not completed our report(s). You will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket expenditures through the date of termination. The suspension or termination of our work may result in adverse consequences

to you including your failure to meet deadlines imposed by governments, lenders, or other third parties. You agree that we will not be responsible for your failure to meet such deadlines, or for penalties or interest that may be assessed against you resulting from such failure. The above price is based on anticipated cooperation from your personnel and the assumption that unexpected circumstances will not be encountered during the audit. If additional time is necessary, we will discuss it with you and arrive at a new price estimate.

You may request that we perform additional services not contemplated by this engagement letter. If this occurs, we will communicate with you regarding the scope of the additional services and the estimated price. We also may issue a separate engagement letter covering the additional services. In the absence of any other written communication from us documenting such additional services, our services will continue to be governed by the terms of this engagement letter.

Our audit engagement ends on delivery of our audit report. Any follow-up services that might be required will be a separate, new engagement. The terms and conditions of that new engagement will be governed by a new, specific engagement letter for that service.

You agree to inform us of facts that may affect the basic financial statements of which you may become aware during the period from the date of the auditor's report to the date the financial statements are issued.

We agree to retain our audit documentation or work papers for a period of at least seven years from the date of our report.

At the conclusion of our audit engagement, we will communicate to the Board of Supervisors the following significant findings from the audit:

- Our view about the qualitative aspects of the entity's significant accounting practices;
- Significant difficulties, if any, encountered during the audit;
- Uncorrected misstatements, other than those we believe are trivial, if any;
- Disagreements with management, if any;
- Other findings or issues, if any, arising from the audit that are, in our professional judgment, significant and relevant to those charged with governance regarding their oversight of the financial reporting process;
- Material, corrected misstatements that were brought to the attention of management as a result of our audit procedures;
- Representations we requested from management;
- Management's consultations with other accountants, if any; and
- Significant issues, if any, arising from the audit that were discussed, or the subject of correspondence, with management.

The audit documentation for this engagement is the property of Barbacane, Thornton & Company LLP and constitutes confidential information. However, we may be requested to make certain audit documentation available to a regulator or its designee, a federal agency providing direct or indirect funding, or the U.S. Government Accountability Office pursuant to authority given to it by law or regulation, or to peer reviewers. If requested, access to such audit documentation will be provided under the supervision of Barbacane, Thornton & Company LLP's personnel. Furthermore, upon request, we may provide copies of selected audit documentation to the aforementioned parties. These parties may intend, or decide, to distribute the copies of information contained therein to others, including other governmental agencies.

Please sign and return the attached copy of this letter to indicate your acknowledgment of, and agreement with, the arrangements for our audit of the basic financial statements including our respective responsibilities.

We appreciate the opportunity to be your financial statement auditors and look forward to working with you and your staff.

Very truly yours,

Barbacane, Thornton & Company LLP
BARBACANE THORNTON & COMPANY LLP

/aef

RESPONSE:

This letter correctly sets forth the understanding of Upper Uwchlan Township Authority.

Approved by _____
Bob Watts, Chairman

Date _____

Approved by _____
Shanna Lodge, Acting Township Manager

Date _____