



Agenda for the Water and Sewer Committee Meeting July 24, 2024 7:00 PM

Old Business

- Minutes from previous meeting April 24 , 2024.
- PFAS PFOS – **MDE has sampled Well 22,23 this March. Claim has been filed within the deadline. We now wait. A new announcement for a settlement with BASF was sent to the Town this past week. BASF will settle in the amount of \$312 million.**
- Water and Sewer Capacity Update – No changes
- ENR PER Update – **The Town was scheduled to received the updated DRAFT from RK and K the week of July 8. MDE has requested an update and RK and K was copied. We have not yet received the draft from RK and K.**
- I and I CB Basin update – **Letters to residents have been sent for inspections with the AMI installation. Installations and inspections have begun. The flow monitors remain in the manholes but we have not received any data yet. There has not been any significant rainfall so I am not anticipating much data at the end of 90 days.**
- Memar Appropriation Application – Staff directed the hydrogeologist to amend the application to request 130 gpd/unit. Testing for PFAS tort suit results indicated non detect. MDE will advise testing 2x during the 60 day long term pumping test. **Public hearing was held July 16 with 29 citizens present and presenting their concerns. MDE announced the record to remain open for an additional 30 days and then they will issue the finds and or permit. The developer and Town have expressed concern over the added delay and comments made about Well 16.**
- SERCAP Rate Study and Fees- Committee was formed to evaluate the rate study and review a rewrite of the current rate structure and classifications. Staff working on data and classifications to discuss in committee. Consideration to update or create Water and Sewer Rules and Regulations. **No update**
- Springline Replacement Project & RMC Grant Application- discussion of the history and feasibility of the replacement project. Board has agreed to move forward with phase one design and construction with conditions. Staff has received a cost estimate of

\$550,000.00 for the first phase of construction (Well field to Rt 70.). Staff will create document and apply for permits. Scheduled for October 2024. **MDE has granted a permit without comments for the project. Staff will send out notification letters in the near future with construction on schedule.**

- Lead and Copper Revision- Lead Survey due October 2024. **Staff has completed 800 accounts of the 1700 and continues to work on the survey.**
- SHA Route 17 project. Existing curb stops are located in the project limits and will be replaced to the proposed grade of the new ADA sidewalks. Committee recommends replacing the curb stops with outside meters installed by Town or its Contractor. Will be shown in CIP budget request. **No action**
- Water Conservation Rewrite and Town Ordinance change. **Completed.**
- Water Supply Update: Springs dropping at seasonal norm 66 gpm or 95,040 gpd.
- MDE Grant application: Submittals for grant cycle FFY24 SFY26: I and I, PFAS, Springline, ENR WWTP, Stream Restoration MS4, Comprehensive Flood Management (Lagoon Decommission) were submitted Jan 30. **MDE released the project ratings for public comment and the Town is #2 for ENR, and #20 for PFAS. We expect PFAS to be funded at \$975K. The ENR project appears to be possibly funded as a grant in the Governors budget for FY26.**
- Emergency Water Connection with Frederick County: Staff will draft outline of services to county Water and Sewer. Email has been sent regarding subject matter of the agreement. Staff to make a first draft. **No action**
- AMI (Advanced Metering Infrastructure): **During the planning staff discovered approximately 500 meters at end of life (20+ years of service) and has begun replacing them with the AMI transmitters. Budgets have been adjusted. The last major meter replacement campaign was in 2002. There is now a spreadsheet in place to forecast and schedule all meter replacements into the future. The Town has not previously planning our budgeting for this activity. The future rates need to have a meter replacement component.**
- I and I Sump Pump Inspections: **Being performed in conjunction with the meter/AMI installations.**
- Meter and Usage review for 2023. Staff during preparation of the budget has reviewed 1.5" through 6" commercial meters for low reading and replacement based on age or low reads. This year's budget includes \$40,000.00 to replace the commercial and 30 each of residential meters. The original meter replacements from 2000 to 2014 are beginning to age out and will require larger numbers of replacements as they approach 20 years. This is how the revenue for the water and sewer account is generated. Replacement is an important operating fund item. **No action**

New Business

- Monthly Water and Sewer Operating Report for May, June and July 2024.

- MDE Permits: Received a revised DRAFT Irrigation PS Permit (Groundwater Discharge Permit) this week. Will review and respond.
- Water and Sewer Budgets: Passed by Town Board and are on the website.
- Staff Projects: Water conservation plan and water audit plan for MDE will be written by Staff, Meter analysis, rate study information, LCRR spreadsheet, Permit review. Field staff has replaced obsolete online instruments previously budgeted and will continue into the FY25.

DROUGHT 2023 Water Production Capabilities

1/31/2024							
MAXIMUM PRODUCTION NON DROUGHT				MAX PRODUCTION DROUGHT (2023 Drought DATA 30" rain)			
Wells	YIELD GPM	TOTAL DAILY		YIELD GPM	TOTAL DAILY		YR PRECIP
1,2,6,7,8,9,19	200			160			
14	10			7			
15	55			42			
16	17			17		19 GPM run 17 hours.	
22	5			5			
23	18			17			
	305	439200		248	357120		
						combined sources	
SPRINGS WINTER avg	85	122400	561600	40	57600	414720	
SPRINGS SUMMER avg	50	72000	511200	30	43200	400320	
SPRINGS SUMMER min				17	24480	381600	30
				GPM	Drought Yield	AvgDaily	Tot Rain Fall in
				265	1 month most severe	381600	30
				278	3 month moderate	400320	35

Water Capacity Calculations Jan 2024

	EDU		Annual Average	Month of Maximum
Annual Appropriation Permit			387,000	504,000
10% Reserve Capacity			38,700	50,400
W1 Infill Lots not connected(see below)	47.13	250	11,783	15,317
Existing Demand - 3 Year Average			311,911	399,246
Available Capacity			24,607	39,037
Planned W2 Future Connections				
Lancaster Property	10	250	2,500	3,500
10% Reserve Capacity			250	350
Future Demand			2,750	3,850
Available System Capacity			21,857	35,187
EDU's Available		250	87	
Memar Annexation	148	250	37,000	51,800
10% Reserve Capacity			3,700	5,180
Memar Annexation Demand			40,700	56,980
EDU's Required**			163	
** This will be offset by additional source provided by the developer.				
W1 Infill, not connected				
28 East Green St Lot		1		
216 E Green St		1		
12 & 14E Main ST Church Lots		2		
30 W Main St		1	jeff and main	
101 W Green St		1		
204 Lombardy Court		1		
Walnut St (subdivision)		1	application	
2 Boileau Drive 205 S Ch St		1		
Municipal Hall		11		
Brown TH's		3		
carolines view		9		
3 on Jefferson St check tap fee already paid		3	308,312,316,open lots	
Cross Stone Commons		4.95		
New Library		4.18		
18 E Green St Lot Williams lot		1		
500 & 502 E Main ST Rhoutzahn		2		
		47.13	EDU's	

1/29/2024

Wastewater Capacity

		Usage GPD	Basin*	EWWT	WWTP	
Design Capacity				350,000	250,000	
Permit Number				13-DP3182	18-DP-0462	
Permitted Capacity	MGD			0.25	0.25	
planned permit increase	MGD			0.100	0.000	
Current Permit Discharge Limit	MGD			0.250	0.250	
Planned Permit Discharge Limit	MGD			0.350	0.250	
3 year avg discharge flow	MGD			0.226	0.168	
Percent Capacity Used at Permit Capacity				90%	67%	
Available Capacity	MGD			0.0238	0.0818	
Units Available Current Permit	SFD			95	327	
Future Connections						
infill lots S1 actual sold 2023						
Brown TH	3	250	West			0.00075
Carolines View	9	250	West			0.00225
Cross Stone Commons	4.95	250	East	0.0012375		
Memorial Hall	11	250	West			0.00275
Infill Lots	14	250	West			0.0035
Library	4.18	250	West			0.001045
						46.13
planned S2 res MEMAR	148	250	Either			0.037
planned S2 comm LANC	1	1600	East	0.0016		0
Planned future flow	MGD			0.0028		0.047
Available Capacity with approved connections at current Permit				0.0209		0.0345
Units available at current permit				84		138
						222
Available Future Capacity at design capacity Permit				0.1209		0.0345
Units available at design capacity				484		138
						622

Abbreviations

Million Gallons/ Day	MGD
Single Family Dwelling	SFD
Equivalent Dwelling Unit	EDU
Equivalent Dwelling Unit flow	1 EDU = 250 GPD
Approved Lot but not connected	S1
Platted Lot proposed usage	S2
Basin determined by gravity flow or by pumped flow	*

April 24, 2024 Water and Sewer Committee Meeting Minutes

Attendees : Gallagher, Smart, Falcinelli, Gabb, Spehr, Mantello, Carbaugh

- Meeting opened at 7:00 pm with AMI (Advanced Metering Infrastructure): Bryan Avery and Mitch Franks from LB Water presented a slide show of the Sensus AMI system. They described what AMI is and how it works. Present and future capabilities. Radio propagation studies, guarantee of radio service and the components of the radio system. Questions regarding integration of billing software were answered and staff will contact Harris software about integration and mapping. The Committee recommends the Town move to AMI. It maybe possible to utilize a portion of the grant received for this expense.
- PFAS: MDE has sampled Well 22,23 this past month. Meeting with attorneys regarding timeline for future actions and dispersion of funds. Committee recommended updating website with most current sample results based on media publication of the EPA passing the rule. Well 22 and 23 are the only wells that exceed the new EPA Rule. Blending of sources is an acceptable method to meet the new rule. Bob Smart suggested a standard response to questions posed by media or users when or if a question is asked.
- I and I CB Basin update: Staff is reconsidering the Engineers recommendations since the flows during recent rain events have been extreme and short. Survey of residences for sump pumps will begin with Foxfield since we have seen significant flow increases in that area during precipitation. Staff is receiving proposals to install additional flow monitoring in the Foxfield area. Sump pump disconnected on Caroline Drive and resident stated the pump runs continuously during wet weather. TA has drafted notice letter to residents for pump and interior piping and changes to the Ordinance. Expect to begin the survey as soon as notices are distributed and appointments made. Committee discussed fines and water cutoff as an option; fines are in the Ordinance. Recommended that the letter format include the wording of requirements of the recipient to be in RED or BOLD so notice is taken. Suggested online scheduling for letter recipients. Town should issue photo ID's for all staff entering a residents home. Recommended the Code Amendment be presented to the Board for approval.
- Water Conservation Rewrite and Town Ordinance change. The committee recommends the April 2024 edit be submitted to the Town Board for approval.
- Emergency Water Connection with Frederick County: Staff will draft outline of services to county Water and Sewer. Email has been sent regarding subject matter of the agreement. Staff to make a first draft to submit to the County. May need to verify MDE requirements.
- SERCAP Rate Study: Committee discussed the need to prioritize the rate structure and fees changes so it may be included in the FY 26 budget. July 2024 is a projected start date for the first sub committee meeting.

- Monthly Water and Sewer Operating Report for March 2024 was presented and the spring flow noted.
- Water meters: Reviewed the current status of water meter replacements including the 4" meter at the Main Cup. Owner will be required to install back flow prevention in accordance with the Town Cross Connection Ordinance. Previously check valves were part of the meter assembly but are no longer included. Current Plumbing codes require a testable dual check valve. Staff will notify any customer of the requirement as meters are changed out.
- MDE Permits: Received DRAFT Irrigation PS Permit (Groundwater Discharge Permit). Staff has summarized the changes and will respond to the Department with questions and comments. Discussed the requirements for a nutrient management plan and reporting that will be a requirement for the staff rather than the golf course. Town does have an agreement with the golf course regarding its responsibilities relative to the irrigation reporting.
- Water and Sewer Budgets: Budgets (April revision) were presented. Discussion of how the operating fund was balanced and cuts made in the maintenance items to meet the need for a balanced budget. A contingency item is included in the budget but includes real predicted maintenance costs. Staff felt we may be able to extend the maintenance cycle or pump replacement schedules to the following year rather than include them as a specific line item in the budget. A minimum 3% increase is needed to balance the budget. The budget does not include the standard \$75,000.00 I and I accrual payment. There is much concern over this budget item and the committee prefers the payment be restored given the extensive I and I projects ahead of the Town.
- Meeting ended at 9:45 pm.

second set of samples were all TC-. We suspect there was a handling error at the lab. There has never been a TC+ sample in the system since 1999. Well 2 OOS requires pump and motor replacement at \$7,000.00, last replaced in 2005.

Water Hydraulic Model: no update.

SSO and I&I: Staff met with B and L and will proceed with smoke testing and inspecting each connection in the CB Bassin for sump pumps. The inspection will be done in house and a schedule and determination of manhours will be made. Letters will be sent to each residence. Based on the first 3 days of April and flows of the CBPS staff will relook at Foxfield Subdivision based on field reconnaissance of SSMH's and observation of flow. Flow meters will be placed for monitoring and possibly cleaning televising to discover leaking pipe or defects. Originally due to the pipe type and age this area was not given as much priority as the 1954 collection system within the CB Basin. SSO occurred on April 3 from 0954 to 2327 = 811mins at 60 gpm for 48,660 gallon. MDE has been notified and a 5 day report will follow up. Notification letter and ordinance revision has been drafted. Staff also has received additional monitoring quotes but the we believe the peak rainfall events have passed and the current precipitation pattern may not support flow monitoring.

West Wastewater Treatment Plant: No new incidents.

East WWTP: Awaiting draft permit. Received a request for price change on the ENR study. MDE has approved the change request. Grant funding application for the BRF has been submitted.

Wells: Well 19 is OOS, needs a new check valve and other piping modifications. After 7 months the materials have been received. Awaiting repair. Well #2 out of service. \$7,000.00 to replace all components excluding pipe. Last replaced 2005.

Municipal Center: No issues

Harris Farm Property: Completed a review of the structures and a projected usage and cost budget. No action.

Wiles Branch Stream Rehabilitation (MS4): Consultant is moving ahead with Wiles Branch Stream Restoration design and permitting. Grant application will be submitted. Construction late FY24 into 25. Town has received a single price for the work. We will present this project summary and pricing for Board consideration in the near future. The projected budget for 2025 is \$550,000.00. Summary of project has been completed that includes costs and recommendation for contract for construction using previous contractor. This work needs to be completed no later than December 2024. Staff has provided a recommendation for review this month.

Linden Boulevard Culvert Replacement and Streetscape: Timeline and estimated costs presented for streetscape and stream restoration to the Board. Culvert lining ilo replacement and stream restoration at Wiles Branch appears to be the favored options. Engineering has been funded for FY 24. Staff has received the resident advisory committee notes. The design alternatives were presented at the March 25 town board meeting. Several discussions about additional considerations for around a bout and streetlights and sidewalk. The B&C recommend the committee come back with their final request. Awaiting a second recommendation from the community committee. No action.

Brookridge PS: No action.

Pickleball Courts: Lighting plans submitted to FrCo for site plan approval. Will be on the December FrCo planning Commission agenda Dec. 13. Approval declined due to noise concern with extending the hours of play into the nighttime. Executed the \$1,400.00 contract for the Sound mitigation study and expect results at the end of March. The sound mitigation study has been received and is recommending a sound attenuation screen to reduce the noise from the court. Staff will use a sound meter as recommended in the report to record noise and compare the study results. No action.

Patching Contract: modification for Mains Alley repaving with Washington Gas. (\$6875.00 11/14/23 MT Laney proposal). May projected schedule.

Developments

Middletown Library: Provided County Project Management with information regarding the temporary meter offered and the events leading up to that. The GC is seeking a delay claim (4/4/24). Sidewalks at the Town property and Green St have been completed.

ADMAR Annexation: Design for treatment plant in progress 95% submittal reviewed. IP drawings reviewed. MDE has reviewed and commented on the WTP (PFAS sampling occurred on 5/24 and 5/25 but was deemed unusable.) April 27 MDE and adjoining property Owners at Townhall. Non detect but we expect the sampling to reoccur during the 60 day test. WTP review with consultant plans at 95%. Will resubmit to MDE. Construction permit is contingent on 60 day long term test and appropriation permit. MDE staff has begun review and providing a preliminary impact analysis to management. Email update received from MDE regarding the status of the report has been received. Will provide calendar of events to the Burgess to demonstrate the length the Town has been waiting for the permit.

Middletown Municipal Hall: No action.

Horman Property Caroline's View: Draft Public Works Agreements were returned to Developer for execution 10/24/22. TA and planner met with Mr Horman on Feb 23. He desires to move forward and avoid the sunset provision by applying for a building permit. Received request for fire flow test this month.

Lancaster Development: Requested floor plans and use for water appropriation planning but have not received. No action. The property has been listed for sale. No action

Future Budget Considerations

W&S: Comprehensive sewer plan, West WWTP ENR plant replacement (non process component for Town budget).
upsized CB pumps (part of the facility review or ENR upgrade), PFAS treatment, springline replacement, Foxfield Control
SCADA upgrade (23 yr old), ½ ton Pickup for Oncall commuting (move 1 Ton to GF)
GF: **Additional 1 ton truck. New Skilled labor position** (24) and 2 future positions for 2 full crews. 3rd Party Miss utility.

Regulatory

EPA

Revised Lead and Copper: Inventory of all public and private service lines due October 2024. (10% complete). New LCRI has been released for comment. Area Completed Middletown Commons, 35% complete Glenbrook, 30% complete Foxfield.

PFOA PFOS: NEW EPA MCL PFOA 4.0 ppt and PFOS 4.0 ppt NOT the sum of both as previously reported. Town is required to participate in UCRM 5 as a result of the previous sampling. MDE / EPA will pay for the testing. MDE sampled the EWWTP on June 21, 2023. **WELL 22:** PFOA/PFOS lab report 2.82 ng/l, (1 ppt = 1 ng/l) **WELL 23:** PFOA/PFOS 2.87/5.96 **WTP 2 Well 15:** PFOA/PFOS 1.95/2.59 ng/l, **WTP1:** ND. Staff will develop budget costs for treatment, engineering and construction. Staff will be sampled all wells the week of October 5 to 12, no results. MDE Grant applied for January 2024. New PFAS regulations have been adopted by EPA. Initial sampling must be performed between 2024 and 2027, 2027 to 2029 initial results published in CCR and regular monitoring must begin, 2029 systems must comply with all MCL's (must have treatment online). MDE sampled Well 22 and 23 in April; no results as of this date. Website will be updated in the future with the most current information.

MDE

Permits: East WWTP Discharge Permit (exp Dec 2021) submitted 22 months prior to expiration and then revised 14 months before expiration. MDE advertised the reapplication. We have requested an increase in discharge flow from 250,000 to 350,000. MDE has approved the County Water and Sewer Plan which requested the increase in flow. MDE is has started working on the permit may be 9 months till completed, will await the PER ENR selection process before releasing Draft permit. Received email that MDE has begun the renewal (Jan 24). No action

Irrigation Pump Station Permit Renewal has been advertised by MDE awaiting same for EWWTP. Received DRAFT Effluent PS permit. Received the DRAFT Effluent Pump Station Permit and commented to MDE. Have responded to accept the DRAFT permit.

MS4 Permit: Received a Proposal from FSA or inspection and survey MS4 stream improvements to justify the MS4 credits and have placed in the General Fund budget. Staff will submit 23 report to MDE by October 31, 2023. MDE has issued a new MS4 permit to FrCo (they administer the permit) valid for 5 years. Consultant has reviewed existing SWM ponds, the Town will receive a reduction of 2 acres credit for these ponds reducing the number of credits the Town needed from 18.67 to 16.57. 2023 report due October 31, 2023. Report submitted and accepted. No action

West WWTP ENR Upgrade: A meeting with MDE for planning discharge limits on December 6 revealed concerns by MDE for discharging 700,000 gpd to the Hollow Creek based on summer base flows. Received planning limits Jan 27, 2023 for review. Met with Engineer to discuss the proposed limits and options. RK& K has provided 3 cost estimates for 3 options. DRAFT PER has been received and reviewed. Comments sent to RK&K. Received RK and K change proposal and forwarded to MDE. Town has received approval of the funding change to complete the PER and authorized RK and K to move forward. No action.

Wastewater Capacity Management reports: Submitted January 31, 2024 to MDE. No change.

**Public Works Monthly Report
June 4, 2024**

COMPLETED WORK

Sewer laterals on E Main and S Church, Replaced batteries at Elev Tank, Oil and grease service on East and West plant, Cut trees and shrubs out of wood partition in Lagoon. Vacuumed all head works pits, Replaced Well #2 pump and motor (\$6618.00), Replaced Well 22, SWM pond maintenance, Strip TS and place millings at CBPS, Install wood fence at Dog Park, Daily fountain filling, Remove grease from various manholes. Mulch Bee City garden, Replace Well 8 UG piping.

Public Works

New Projects or Requests

Research of Alleys in the Woodmere (Linden Locust and E Main ST area)

Unbudgeted Expenses:

Refrigerator at Maintenance shop \$700.00, refrigerator for MMC kitchen, \$850.00. CBPS Pump repair \$12,000 and purchase \$31,500. West WWTP Generator \$64,100, (diagnosis, rental and purchase).

Springs at 102 gpm or 146,880 gpd

Sludge cost for FY \$18,297.00 33,000 gal hauled, 19,950 gal bedded **Total hauled** 171,000 gal **Bedded** 270,750 Gal

Water Use (Average Daily for the Month, Flows stated in gallons per day)

Permit Limits (gal) 387,000/504,000 AD/MMU 250,000 AD 250,000 AD
Base flow 176,000 Base flow 115,000

MONTH	WATER USE		SPRING FLOW		East WWTP		West WWTP		Rain
	past yr	present yr	past yr	present yr	past yr	present yr	past yr	present yr	
January	294,589	321,178	109,491	80,906	252,000	294,000	164,000	318,000	6.15
February	296,667	313,101	123,213	110,452	239,000	285,000	132,000	249,000	2.6
March **	309,885	307,186	142,161	140,913	275,000	328,000	162,000	267,000	4.7
April **	325,983	339,818	142,274	150,187	213,000	330,000	117,000	399,000	4.6
May	343,765	339,070	146,882	146,094	237,000	242,000	151,000	151,000	4.65
June	329,912	340,446	141,430	122,478	203,251	198,000	124,123	119,000	2.4
July	314,364	318,543	106,315	87,179	195,429	178,000	137,369	127,000	3.15
August	324,822	322,376	79,521	61,243	201,118	167,000	132,900	115,000	1.75
September	302,063	319,276	67,700	46,212	226,936	182,000	159,864	131,000	3.75
October **	309,119	311,354	61,992	41,232	209,733	172,000	138,747	112,000	1.05
November**	295,148	308,601	59,761	37,317	217,000	179,000	141,000	126,000	2.2
December	302,135	319,517	80,456	44,759	282,795	224,000	238,529	174,000	3.95

Avg Daily/yr	312,371	321,706	105,100	89,081	229,355	231,583	149,878	190,667	41.0
Avg Yr Flw	114.02	117.42	38.36	32.51	83.71	84.53	54.71	69.59	

**Hydrants flushed this month

October 2019 531,958, Spring 2020 not flushed. Fall 2020 582,024 Spring 2021 704,842 Fall 2021 744,925 Spring 2022 664,933 Fall 2022 749,561(5 day avg) spring 23 702,023 Fall 23 no flushing Spring 24 581,628 gal

Sewer Flow

Planned Work

Lead and Copper (inventory due Oct 2024), MDE water inspection corrections. POS purchases, Rate Study support,

WS Projects: I and I. Springline replacement: in permit phase with MDE and SCD. Schedule for October installation.

Open Projects

ADA sidewalk ramp reconstructions: completed 5 in May for \$10,000.00

Glenbrook Arch Engineering Study: Staff have reviewed the County and Consultant recommendation. Preparing summary and cost report for corrections. Report summary and estimated costs being reviewed. Remsburg will complete in June.

Water System: Several leaks repaired this past month; 6" Cast iron Lombardy Drive, 12" valve on Smithfield Dr.

Water Hydraulic Model: no update.

SSO and I&I: Staff met with B and L and will proceed with smoke testing and inspecting each connection in the CB Bassin for sump pumps. The inspection will be done in house and a schedule and determination of manhours will be made. Letters will be sent to each residence. Based on the first 3 days of April and flows of the CBPS staff will relook at Foxfield Subdivision based on field reconnaissance of SSMH's and observation of flow. Flow meters will be placed for monitoring and possibly cleaning televising to discover leaking pipe or defects. Originally due to the pipe type and age this area was not given as much priority as the 1954 collection system within the CB Basin. SSO occurred on April 3 from 0954 to 2327 = 811mins at 60 gpm for 48,660 gallon. Flow monitors have been installed in Foxfield area for 90 days. Repaired significant sewer CO leak in Foxfield.

West Wastewater Treatment Plant: No new incidents.

East WWTP: Awaiting draft permit. Received a request for price change on the ENR study. MDE has approved the change request. Grant funding application for the BRF has been submitted. No action.

Wells: Well 19 is scheduled for this month. Replaced Well #2 pump and motor (\$6618.00). Monitoring Well 15 for flow decrease.

Municipal Center: No issues

Harris Farm Property: Completed a review of the structures and a projected usage and cost budget. No action.

Wiles Branch Stream Rehabilitation (MS4): Consultant is moving ahead with Wiles Branch Stream Restoration design and permitting. Grant application will be submitted. Construction late FY24 into 25. Town has received a single price for the work. Project summary and pricing for Board was presented at the May workshop. The projected budget for 2025 is \$550,000.00. Summary of project has been completed that includes costs and recommendation for contract for construction using previous contractor. This work needs to be completed no later than December 2025.

Linden Boulevard Culvert Replacement and Streetscape: Timeline and estimated costs presented for streetscape and stream restoration to the Board. Culvert lining ilo replacement and stream restoration at Wiles Branch appears to be the favored options. Engineering has been funded for FY 24. Staff has received the resident advisory committee notes. The design alternatives were presented at the March 25 town board meeting. Several discussions about additional considerations for around a bout and streetlights and sidewalk. The B&C recommend the committee come back with their final request. Awaiting a second recommendation from the community committee. May 14, 2024, Board approved no sidewalks, new Town Standard street lights. The discussion included a roundabout but that was later discussed and decided to provide a 4 way stop at Pine and Linden. Staff will move forward with this option.

Brookridge PS: No action.

Pickleball Courts: Executed the \$1,400.00 contract for the Sound mitigation study and expect results at the end of March. The sound mitigation study has been received and is recommending a sound attenuation screen to reduce the noise from the court. Staff will use a sound meter as recommended in the report to record noise and compare the study results. Is there a need to move ahead with windscreen while the annexation moves forward and the lighting is delayed? Cost for South side and West end is \$11,200.00.

Patching Contract: modification for Mains Alley repaving with Washington Gas. (\$6875.00 11/14/23 MT Laney proposal). Completed first week of June. (27k was not used (waterline patch))

Developments

Middletown Library: Provided County Project Management with information regarding the temporary meter offered and the events leading up to that. The GC is seeking a delay claim (4/4/24). Sidewalks at the Town property and Green St have been completed. Project Complete pending punchlist.

ADMAR Annexation: Design for treatment plant in progress 95% submittal reviewed. IP drawings reviewed. MDE has reviewed and commented on the WTP (PFAS sampling occurred on 5/24 and 5/25 but was deemed unusable.) April 27 MDE and adjoining property Owners at Townhall. Non detect but we expect the sampling to reoccur during the 60 day test. WTP review with consultant plans at 95%. Will resubmit to MDE. Construction permit is contingent on 60 day long term test and appropriation permit. MDE staff has begun review and providing a preliminary impact analysis to management. Email update received from MDE regarding the status of the report has been received. July 16 has been scheduled for the MDE public hearing.

Horman Property Caroline's View: Project approval has expired on May 2, 2024. Project will be removed the report in July.

Lancaster Development: Requested floor plans and use for water appropriation planning but have not received. No action. The property has been listed for sale. No action

Future Budget Considerations

W&S: Comprehensive sewer plan, West WWTP ENR plant replacement (non process component for Town budget). upsize CB pumps (part of the facility review or ENR upgrade), PFAS treatment, springline replacement, ½ ton Pickup for Oncall commuting (move 1 Ton to GF), Field Maintenance tractor

GF: Additional 1 ton truck. New Skilled labor position (24) and 2 future positions for 2 full crews.

Regulatory

EPA

Revised Lead and Copper: Inventory of all public and private service lines due October 2024. (10% complete). New LCRI has been released for comment. Area Completed Middletown Commons, 35% complete Glenbrook, 30% complete Foxfield. Northpointe Completed. Woodmere 30% complete.

PFOA PFOS: MDE Grant applied for January 2024. New PFAS regulations have been adopted by EPA. Initial sampling must be performed between 2024 and 2027, 2027 to 2029 initial results published in CCR and regular monitoring must begin, 2029 systems must comply with all MCL's (must have treatment online). MDE sampled Well 22 and 23 in April; no results as of this date. Website has been updated with the approved EPA Rule and most recent testing.

MDE

Permits: East WWTP Discharge Permit (exp Dec 2021) submitted 22 months prior to expiration and then revised 14 months before expiration. MDE advertised the reapplication. We have requested an increase in discharge flow from 250,000 to 350,000. MDE has approved the County Water and Sewer Plan which requested the increase in flow. MDE is has started working on the permit may be 9 months till completed, will await the PER ENR selection process before releasing Draft permit. Received email that MDE has begun the renewal (Jan 24). No action

Irrigation Pump Station Permit Renewal has been advertised by MDE awaiting same for EWWTP. Received DRAFT Effluent PS permit. Received the DRAFT Effluent Pump Station Permit and commented to MDE. Have responded to accept the DRAFT permit. MDE reissued the Draft with new PFAS requirements and the Town has responded with exceptions to the permit. Have not received a response.

MS4 Permit: Received a Proposal from FSA or inspection and survey MS4 stream improvements to justify the MS4 credits and have placed in the General Fund budget. Staff will submit 23 report to MDE by October 31, 2023. MDE has issued a new MS4 permit to FrCo (they administer the permit) valid for 5 years. Consultant has reviewed existing SWM ponds, the Town will receive a reduction of 2 acres credit for these ponds reducing the number of credits the Town needed from 18.67 to 16.57. 2023 report due October 31, 2023. Report submitted and accepted. No action

West WWTP ENR Upgrade: A meeting with MDE for planning discharge limits on December 6 revealed concerns by MDE for discharging 700,000 gpd to the Hollow Creek based on summer base flows. Received planning limits Jan 27, 2023 for review. Met with Engineer to discuss the proposed limits and options. RK& K has provided 3 cost estimates for 3 options. DRAFT PER has been received and reviewed. Comments sent to RK&K. Received RK and K change proposal and forwarded to MDE. Town has received approval of the funding change to complete the PER and authorized RK and K to move forward. No action.

Wastewater Capacity Management reports: Submitted January 31, 2024 to MDE. No change.

**Public Works Monthly Report
July 8, 2024**

COMPLETED WORK

Well 19 repaired, Well 23 repaired, Main Street Banners, Mowing, New West WWTP generator installed, Concrete weirs at Remsburg Park installed. Striping parking lots, Remsburg Park signs, Millings at Natelli Parking lot and CBPS. Effluent PS started.

Public Works

New Projects or Requests

Research of Alleys in the Woodmere (Linden Locust and E Main ST area)

Unbudgeted Expenses:

Springs at 84 gpm or 120,960 gpd

Sludge cost for FY \$20,544.00 18,000 gal hauled, 12,825 gal bedded **Total hauled** 192,000 gal **Bedded** 283,575 Gal

Water Use (Average Daily for the Month, Flows stated in gallons per day)

Permit Limits (gal) 387,000/504,000 AD/MMU 250,000 AD 250,000 AD
Base flow 176,000 Base flow 115,000

MONTH	WATER USE		SPRING FLOW		East WWTP		West WWTP		Rain
	past yr	present yr	past yr	present yr	past yr	present yr	past yr	present yr	
January	294,589	321,178	109,491	80,906	252,000	294,000	164,000	318,000	6.15
February	296,667	313,101	123,213	110,452	239,000	285,000	132,000	249,000	2.6
March **	309,885	307,186	142,161	140,913	275,000	328,000	162,000	267,000	4.7
April **	325,983	339,818	142,274	150,187	213,000	330,000	117,000	399,000	4.6
May	343,765	339,070	146,882	146,094	237,000	242,000	151,000	151,000	4.65
June	340,446	337,789	122,478	140,908	198,000	191,000	119,000	119,000	2.4
July	314,364	318,543	106,315	87,179	195,429	178,000	137,369	127,000	3.15
August	324,822	322,376	79,521	61,243	201,118	167,000	132,900	115,000	1.75
September	302,063	319,276	67,700	46,212	226,936	182,000	159,864	131,000	3.75
October **	309,119	311,354	61,992	41,232	209,733	172,000	138,747	112,000	1.05
November**	295,148	308,601	59,761	37,317	217,000	179,000	141,000	126,000	2.2
December	302,135	319,517	80,456	44,759	282,795	224,000	238,529	174,000	3.95

Avg Daily/yr 313,249 321,484 103,520 90,617 228,918 231,000 149,451 190,667 41.0
 Avg Yr Flw 114.34 117.34 37.78 33.08 83.55 84.32 54.55 69.59

**Hydrants flushed this month

October 2019 531,958, Spring 2020 not flushed. Fall 2020 582,024 Spring 2021 704,842 Fall 2021 744,925 Spring 2022 664,933 Fall 2022 749,561(5 day avg) spring 23 702,023 Fall 23 no flushing Spring 24 581,628 gal

Planned Work

Lead and Copper (inventory due Oct 2024) 750 accounts of 1675 complete, MDE water inspection corrections. POS purchases pending BPW, Rate Study support,

WS Projects: I and I. Springline replacement: in permit phase with MDE and SCD. Schedule for October installation. Church Street Meter Installation, Meter change outs

Open Projects

ADA sidewalk ramp reconstructions: No action

Glenbrook Arch Engineering Study: Staff have reviewed the County and Consultant recommendation. Preparing summary and cost report for corrections. Report summary and estimated costs being reviewed. Remsburg will complete in July.

Water System: Reviewed system for end of life meters (521 each - FY 25), notification to customers for replacement letters have been prepared.

Water Hydraulic Model: no update.

SSO and I&I: Staff met with B and L and will proceed with smoke testing and inspecting each connection in the CB Basin for sump pumps. The inspection will be done in house and a schedule and determination of manhours will be made.

Letters will be sent to each residence. Based on the first 3 days of April and flows of the CBPS staff will relook at Foxfield Subdivision based on field reconnaissance of SSMH's and observation of flow. Flow meters will be placed for monitoring and possibly cleaning televising to discover leaking pipe or defects. Originally due to the pipe type and age this area was not given as much priority as the 1954 collection system within the CB Basin. SSO occurred on April 3 from 0954 to 2327 = 811mins at 60 gpm for 48,660 gallon. Flow monitors have been installed in Foxfield area for 90 days. Repaired significant sewer CO leak in Foxfield. Letters prepared for sump pump inspections.

West Wastewater Treatment Plant: No new incidents.

East WWTP: Awaiting draft permit. Received a request for price change on the ENR study. MDE has approved the change request. Grant funding application for the BRF has been submitted. PER is expected week of July 8.

Wells: Well 19 piping replacement has been completed. Well 15 being monitored for reduced yield. Well 23 pulled and and pump end replaced, clogged.

Municipal Center: No issues

Harris Farm Property: Completed a review of the structures and a projected usage and cost budget. No action.

Wiles Branch Stream Rehabilitation (MS4): Consultant is moving ahead with Wiles Branch Stream Restoration design and permitting. Grant application will be submitted. Construction late FY24 into 25. Town has received a single price for the work. Project summary and pricing for Board was presented at the May workshop. The projected budget for 2025 is \$550,000.00. Summary of project has been completed that includes costs and recommendation for contract for construction using previous contractor. This work needs to be completed no later than December 2025. No action.

Linden Boulevard Culvert Replacement and Streetscape: Timeline and estimated costs presented for streetscape and stream restoration to the Board. Culvert lining ilo replacement and stream restoration at Wiles Branch appears to be the favored options. Engineering has been funded for FY 24. Staff has received the resident advisory committee notes. The design alternatives were presented at the March 25 town board meeting. Several discussions about additional considerations for around a bout and streetlights and sidewalk. The B&C recommend the committee come back with their final request. Awaiting a second recommendation from the community committee. May 14, 2024, Board approved no sidewalks, new Town Standard street lights. The discussion included a roundabout but that was later discussed and decided to provide a 4 way stop at Pine and Linden. Staff has met with Traid Engineering and discussed the possibility of Washington Gas Line (they opt out for Broad)

Brookridge PS: No action.

Pickleball Courts: Executed the \$1,400.00 contract for the Sound mitigation study and expect results at the end of March. The sound mitigation study has been received and is recommending a sound attenuation screen to reduce the noise from the court. Staff will use a sound meter as recommended in the report to record noise and compare the study results. Cost for South side and West end is \$11,200.00. Court Lighting proposal has been signed with work to begin in late August.

Patching Contract: modification for Mains Alley repaving with Washington Gas. (\$6875.00 11/14/23 MT Laney proposal). Completed first week of June. (27k was not used (waterline patch)). Patching contract completed by RFP.

Developments

Middletown Library: Project completed

ADMAR Annexation: Design for treatment plant in progress 95% submittal reviewed. IP drawings reviewed. MDE has reviewed and commented on the WTP (PFAS sampling occurred on 5/24 and 5/25 but was deemed unusable.) April 27 MDE and adjoining property Owners at Townhall. Non detect but we expect the sampling to reoccur during the 60 day test. WTP review with consultant plans at 95%. Will resubmit to MDE. Construction permit is contingent on 60 day long term test and appropriation permit. MDE staff has begun review and providing a preliminary impact analysis to management. Email update received from MDE regarding the status of the report has been received. July 16 has been scheduled for the MDE public hearing. No action.

Lancaster Development: Requested floor plans and use for water appropriation planning but have not received. No action. The property has been listed for sale. No action

Future Budget Considerations

W&S: Comprehensive sewer plan, West WWTP ENR plant replacement (non process component for Town budget). upsize CB pumps (part of the facility review or ENR upgrade), PFAS treatment, springline replacement, ½ ton Pickup for Oncall commuting (move 1 Ton to GF), Field Maintenance tractor

GF: Additional 1 ton truck. New Skilled labor position (24) and 2 future positions for 2 full crews.

Regulatory

EPA

Revised Lead and Copper: Inventory of all public and private service lines due October 2024. (50% complete). New LCRI has been released for comment. Area Completed Middletown Commons, 99% complete Glenbrook, 40% complete Foxfield. Northpointe Completed. CB Estates 100% complete. Eastern Circle 20% complete,

PFOA PFOS: MDE Grant applied for January 2024. New PFAS regulations have been adopted by EPA. Initial sampling must be performed between 2024 and 2027, 2027 to 2029 initial results published in CCR and regular monitoring must begin, 2029 systems must comply with all MCL's (must have treatment online). MDE sampled Well 22 and 23 in April; no results as of this date. Website has been updated with the approved EPA Rule and most recent testing. No action

MDE

Permits: East WWTP Discharge Permit (exp Dec 2021) submitted 22 months prior to expiration and then revised 14 months before expiration. MDE advertised the reapplication. We have requested an increase in discharge flow from 250,000 to 350,000. MDE has approved the County Water and Sewer Plan which requested the increase in flow. MDE is has started working on the permit may be 9 months till completed, will await the PER ENR selection process before releasing Draft permit. Received email that MDE has begun the renewal (Jan 24). No action

Irrigation Pump Station Permit Renewal has been advertised by MDE awaiting same for EWWTP. Received DRAFT Effluent PS permit. Received the DRAFT Effluent Pump Station Permit and commented to MDE. Have responded to accept the DRAFT permit. MDE reissued the Draft with new PFAS requirements and the Town has responded with exceptions to the permit. Have not received a response. MDE is reviewing the new requirements and will respond.

MS4 Permit: Received a Proposal from FSA or inspection and survey MS4 stream improvements to justify the MS4 credits and have placed in the General Fund budget. Staff will submit 23 report to MDE by October 31, 2023. MDE has issued a new MS4 permit to FrCo (they administer the permit) valid for 5 years. Consultant has reviewed existing SWM ponds, the Town will receive a reduction of 2 acres credit for these ponds reducing the number of credits the Town needed from 18.67 to 16.57. 2023 report due October 31, 2023. Report submitted and accepted. No action

West WWTP ENR Upgrade: A meeting with MDE for planning discharge limits on December 6 revealed concerns by MDE for discharging 700,000 gpd to the Hollow Creek based on summer base flows. Received planning limits Jan 27, 2023 for review. Met with Engineer to discuss the proposed limits and options. RK& K has provided 3 cost estimates for 3 options. DRAFT PER has been received and reviewed. Comments sent to RK&K. Received RK and K change proposal and forwarded to MDE. Town has received approval of the funding change to complete the PER and authorized RK and K to move forward. No action.

Wastewater Capacity Management reports: Submitted January 31, 2024 to MDE. No change.

Grants: The January 2024 deadline grants list has been released for public comment. Middletown is listed for ENR, PFAS, Springline replacement and I and I.