



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

Old Business

- Minutes from previous meeting March 27, 2024.
- PFAS PFOS – **MDE has sampled Well 22,23 this past month. Meeting with attorneys regarding timeline for future actions and dispersion of funds.**
- Water and Sewer Capacity Update – No changes
- ENR PER Update – Town provided requested letter to MDE regarding the change request. Town has received approval of the requested Amendment and reimbursement of requested charges. **No action**
- I and I CB Basin update – **Reconsideration of 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.**
- 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. **No update**
- 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. **FrCO requiring permit construction plans at a cost of \$22,500.00. No update**

- Lead and Copper Revision- Lead Survey due October 2024. The 3rd version spreadsheet has been released. **Staff has completed the Middletown Glen subdivision and currently working through Glenbrook at Tile Silo Lane.**
- 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. Attachment. Discussion: Commercial conservation, watering of gardens in code red. **Revisions are attached.**
- Water Supply Update: Springs steady at 104.5 gpm or 150,578 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. No update.
- 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.**
- AMI (Advanced Metering Infrastructure): Presented in the FY 25 budget. **Bryan Avery with LB Water will present an overview of AMI, components of the system, how it works and benefits.**
- I and I Sump Pump Inspections: **Discussed above.**
- 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 March 2024.
- Water meters: Ordered and changed out 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.
- Water and Sewer Budgets: review for information only.

- Staff Projects: Water conservation plan and water audit plan for MDE will be written by Staff, FY 25 Budget, UV system upgrade (to be postponed to FY 25). Meter analysis, rate study information, LCRR spreadsheet, Permit review.

March 2024 Water and Sewer Meeting Minutes

The committee opened the meeting at 7:00 pm and approved the March meeting minutes.

Old business was reviewed

I and I Update: Discussion of notice to customers for sump pump discovery, description of procedure within the residence, penalties for noncompliance and refusing to let staff into the residence. Water and Sewer to suggest fine amount. The first phase of the I and I project was discussed, how it was prioritized based on size and using the repairs as a model for the larger sub basins in the next phases. The Committee approved the methods described in the memo.

ENR / Grant: Lake regarding loans, “ should look at options before they are needed and not start at square one” . Mantello later clarified that the finance officer has looked into a 10 millions dollar loan over 30 years and the debt service and cost to customers.

Memar Appropriation Permit: Update of the lack of progress and communication from MDE on the Draft Permit. Commissioner Falcinelli stated the Town CIP is dependent on tap fees for funding improvements to the system.

New business

Meter system, billing software and rate study. Staff briefed the committee on the inaccurate information in the billing system regarding meter sizes, reading inaccuracies and classification. Smart requested a periodic email on what issues are being found and resolved. Comm. Falcinelli the monthly updates would be sufficient. Smart suggested a reading file or log file for issues found and resolved.

The Water conservation alert system was discussed relative to wording and form on the fine section. Zoning Officer suggested taking the fines out of the code and placing them in the Policy. Regarding concerns about warning etc. it is expected Zoning Officer will have some leeway to exercise judgement on warnings. The committee directed the blue drops taken down following the current policy and the current drought status.

Additional discussion about the school property and metering for the proposed improvement. The Town ordinance requires 1 water meter for 1 property and the project will provide the opportunity for this to be addressed. Public Works will comment on this for the current sketch plan review. For the record staff has briefly looked at the parcels and there are 2 parcels; one for the new elementary and middle and one for the existing high and elementary. The proposed collocated school will have its own meter vault. The existing schools meters will remain as they are until the demolition of the elementary school.

Existing Town Code for Chapter 13.08 Sewer Service System

- **13.08.040 - Drainwater.**

No person(s) shall make connection of roof downspouts, foundation drains, areaway drains, **sump pumps** or other sources of surface runoff or groundwater to a building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer unless such connection is approved by the superintendent or town administrator or such other person designated by the commissioners for purposes of disposal of polluted surface drainage.

(Prior code § 4-2204)

- **13.08.230 - Entry of premises.**

The director of public works and other duly authorized employees of the town bearing proper credentials and identification shall be permitted to enter all properties for the purposes of inspection, observation, measurement, sampling and testing pertinent to discharge to the community system.

(Prior code § 4-2501)

(Ord. No. 20-01-02, § II, 2-24-2020)

- **13.08.080 - Municipal infractions.**

Any violation of the provisions of Sections [13.08.020](#)—13.08.070 shall be a general municipal infraction.

(Prior code § 4-2208)

Chapter 1.12 – Arrest and Citation Procedure defines the procedure and penalties

- **1.16.020 - Municipal infraction penalties.**

The penalty for commission of a municipal infraction shall not exceed one thousand dollars (\$1000.00). If a person charged in a citation for a municipal infraction fails to pay the fine by the date of payment set forth on the citation or fails to provide written notice of intent to stand trial, the town may double the fine to an amount not to exceed one thousand dollars (\$1000.00).

DRAFT

Water Conservation Public Alert System
Updated 4/2024

Middletown's water supply is from ground water sources that are sensitive to drought conditions. "Droughts are periods of time when natural or managed water systems do not provide enough water to meet established human and environmental uses because of natural shortfalls in precipitation or stream flow." To keep Middletown residents informed of our drinking water supply status during drought conditions, the Burgess and Commissioners developed the following Public Alert System:

Public Notification of Code Status:

- Color coded water drop signs will be hung from a bracket attached to the welcome pillars on both ends of Town when drought conditions are present.
- The code status will be posted on the town web page and distributed electronically via the web page list serve and via the Town's alert system.

Warnings and Fines

Per Section 13.04.010 of the Middletown Code, a violation of the Water Conservation Public Alert System results in one warning and a copy of the Alert System. Subsequent violations in Code Blue, Yellow, and Orange will receive \$100 municipal infraction fine. Code Red violations will receive a \$200 municipal infraction fine and immediate disconnection of water service, however, the fine for filling or topping off private pools is \$500 and immediate disconnection of water service.

CODE BLUE (blue water drop):

- Ground water conditions are in the normal range.
- Per recommended conservation practices, watering of lawns is prohibited between 9am-6pm.

Critical Factors: Spring flows range between 60,000 -130,000 gallons per day, and/or water table levels in wells are at normal historical levels, and/or the U.S. Drought Monitor for Frederick County, Maryland indicate a drought condition of NONE or ABNORMALLY DRY.

CODE YELLOW (yellow water drop):

- Ground water conditions are decreasing at a rapid rate.
- Watering of lawns is prohibited.
- Additional voluntary water conservation is requested. Residents are requested to follow water conservation practices as outlined in "20 Tips to Prevent Water Waste" found on the town's website.

Critical Factors: Any of the following factors may trigger **CODE YELLOW**: The Maryland Department of the Environment (MDE) issues a drought declaration watch, spring flows range between 43,000-59,000 (gpd), water table levels in wells are below historic levels and dropping, the U.S. Drought Monitor for Frederick County, Maryland indicate a drought condition of MODERATE.

CODE ORANGE (orange water drop):

- Ground water conditions continue to decrease at a rapid rate.
- Watering of grass is prohibited. This includes athletic and/or playing fields.

- Washing paved surfaces such as streets, roads, sidewalks, driveways, garages, parking areas, tennis courts, and patios is prohibited.
- No vehicle washing, including automobiles, trucks, trailers and boats. Except cleaning of emergency vehicles, if necessary, to preserve the proper functioning and safe operation of the vehicle.
- Golf courses must have a water conservation plan in effect that shows a 10% reduction in usage, even if they do not use town water. No restriction on effluent usage.
- No flushing of water lines, fire hydrants or distribution equipment.
- Any additional restrictions the Burgess and Commissioners deem necessary per section 13.04.010.
- A reduction goal of 10% - 15% of the daily use will be monitored using the water plant distribution meters and evaluating previous non drought year/ month usage in calculating the reduction.
- **Use of rain barrels and gray water (i.e., used bath water) is permitted and encouraged.

Critical Factors: Any of the following factors may trigger **CODE ORANGE**: MDE issues a declaration of a drought warning and/or spring flows are below 43,000 gpd and/or the water table levels in wells are far below historic levels and are dropping. U.S. Drought Monitor for Frederick County, Maryland indicates a drought condition of SEVERE.

CODE RED (red water drop)

- Ground water conditions are critical.
- All outside water use of any kind is prohibited except for rain barrels and gray water.
- Private (homeowners) pools and exterior hot tubs may not be filled or topped off.
- Building restrictions and commercial water use restrictions are instituted.
- All businesses and residents are required to reduce potable water consumption by 10%.
- Use of water for the operation of ornamental fountains, artificial waterfalls, misting machines, and reflecting pools is prohibited.
- Golf courses must have a water conservation plan in effect that shows a 10% reduction in usage, even if they do not use town water. No restriction on effluent usage in accordance with the permit.
- Connecting to town fire hydrants is prohibited, except for emergency purposes.
- Any additional restrictions the Burgess and Commissioners deem necessary per section 13.04.010.
- A reduction goal of 15% - 20% of the daily use will be monitored using the water plant distribution meters and evaluating previous non drought year/ month usage in calculating the reduction.
- **Use of rain barrels and gray water (i.e., used bath water) is permitted and encouraged.

Critical Factors: The Governor of Maryland declares a drought emergency by executive order, and/or spring flows are below 29,000 gpd and/or the water table levels in wells are far below historic levels and are dropping. U.S. Drought Monitor for Frederick County, Maryland indicates a drought condition of EXTREME. The raw water reservoirs cannot be kept full on a daily basis.

Public Works Monthly Report
April 4, 2024

COMPLETED WORK

Hydrant flushing, events , parks repairs, SWM pond repairs, Open park bathrooms (3/15), truck repairs, fire hydrant refurb's, wildflower prep and planting, dog park maintenance, Pressure Sensor install at Schoolhouse, Fire Siren Removal, meter pit installations (2), Painting projects. Well 14 replaced, chem feed lines/ injectors replaced at reservoir, CBPS pump install, LED lighting installed in EWWTP garage and filter building, Thermo W and S markers placed on Young Branch, Generator low voltage indicator lights replaced Booster Station.

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.

Springs at 104.5 gpm or 150,480 gpd

Sludge cost for FY \$15,108.00 33,000 gal hauled, 19,950 gal bedded **Total hauled** 144,000 gal **Bedded** 236,550 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 **	311,260	325,983	139,909	142,274	267,481	213,000	185,830	117,000	3.05
May	317,665	343,765	126,325	146,882	300,180	237,000	293,045	151,000	2.55
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	308,969	320,944	103,190	88,487	239,160	221,417	167,451	167,167	37.3
Avg Yr Flw	112.77	117.14	37.66	32.30	87.29	80.82	61.12	61.02	

**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

Sewer Flow

Planned Work

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

WS Projects: I and I. Springline replacement,

Open Projects

ADA sidewalk ramp reconstructions: S Daily currently working on ramps and sidewalk replacements. Sidewalk grinding was completed on Friday March 29.

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.

Water System:

Water Hydraulic Model:

SSO and I&I: Staff has reviewed all the video of 36,470 ft of line (45 hours). A spreadsheet of all deficiencies and rating them by condition has been completed. Staff met with B and L and will proceed with smoke testing and inspecting each connection in the CB Basing 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. Chapter 13.08 Sewer Service System has been reviewed for sump pump connections and corrections and penalties and the Town has authority by Ordinance. W and S has reviewed 13.08 and will recommend a new paragraph for penalties relative to appropriate section. April 24, 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.

West Wastewater Treatment Plant: High flows of April 1 through 3 have caused bypass condition and reported to MDE.

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. Received the DRAFT Effluent Pump Station Permit for review. Comments are due by April 19, 2024.

Wells: Well 19 is OOS, needs a new check valve and other piping modifications. After 7 months the materials have been received. Awaiting repair.

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. We will provide the summary for review in April.

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.

Brookridge PS: Normal flow for the PS is 14,000gpd and the average for April 1-3 was 50,000 gpd.

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). No action.

Developments

Middletown Library: County Project Management has requested information regarding the temporary meter offered and the events leading up to that. The GC is seeking a delay claim (4/4/24).

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. Consultant will need to address most recent MDE comments. PFAS results have been received but analysis was not in accordance with method hold times, second samples were lost in shipment. Town sampled for mass tort and provided results. 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.

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. 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, 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. (2% complete). New LCRI has been released for comment. MDE has released the corrected mandatory spreadsheet (3rd) and then a 4th which we have not yet transferred data into yet..

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. New DRAFT PFAS summary has been released to water and sewer committee for Town facilities using updated MDE information. Website will be updated in the future. MDE Grant applied for January 2024. Provided flow history for each well for each year 2013 – 2022 and then another meeting to discuss the progress. The firm does not expect payments until 2025 due to normal events with this type of litigation.

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 DRADT Effluent PS 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.

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

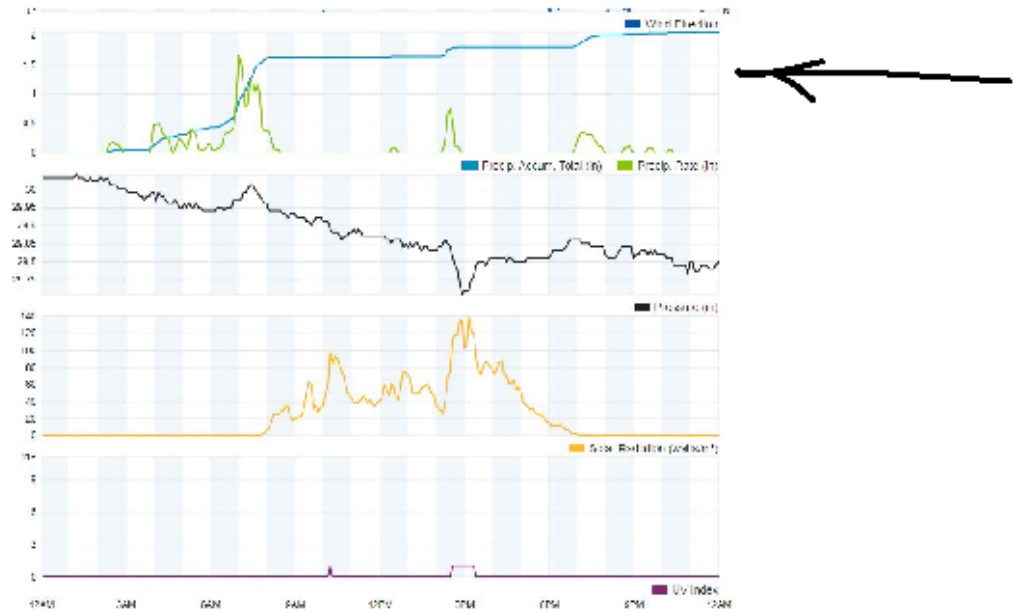
Wastewater Capacity

	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

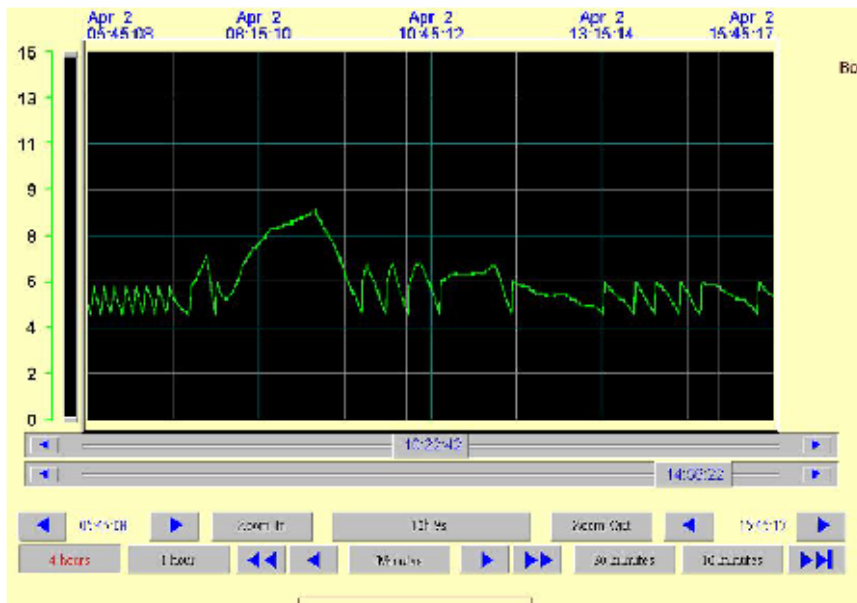
Abbreviations

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 2, 2024 Rainfall and Intensity



CBPS Wetwell Level



CBPS Flow

