



Public Works and Utilities Monthly Report July 2022

Please accept this as the Public Works and Utilities Department's monthly report.

Public Works:

- Staff continued maintaining the Town's roads, grounds, and facilities. The street crew replaced the culvert pipe and completed the installation of the road to the pump station behind Taylor Middle School.



- Number of burials performed. 1

Public Utilities:

- 3 Customers concerns were responded to/resolved.
- 0 New service lines installed. 0 Service line repaired.
- 0 Service line was repaired.
- 1 Main line repaired.
- 101 Fire hydrants were serviced.
- 257 Miss Utility Locate tickets.
- 4 Sanitary sewer lines flushed. 950 Total feet.
- 6 Videoed sewer lines. 3,468 Total feet.
- 0 Sanitary sewer lines Installed 0 Repaired.
- 12 Water lines flushed.

Meter Dept:

- 1 Cross connections inspected.
- 1 Water connections inspected. 2 Water connections issued.
- 1 Irrigation inspected.
- 2 Sewer connections issued.
- 1 Meter installed. 0 Meters replaced. 11 Check for leaks.
- 5118 Meters read. 70 Reread. 44 Read & transfer.
- 25 Water cut-ons. 25 Water cut-offs.
- 25 Maintenance

Engineering & Project Status:

Site Plans/Permits reviewed:

- Fauquier-Dakota Springs Road Acceptance
- North Hill, Lot C
- Walmart Waterline
- Piedmont Urgent Care
- 236 E. Lee Street
- Farrish Properties, ZMA2022-1

Project Review Update:

- VDOT Broadview Avenue Improvements: Staff continues to work with VDOT and Dominion Power for the Street light improvements, including continued conversion of existing light heads to LED lights. Dominion is beginning work on the engineering of the street light conversion design and estimate. VDOT continues in the process of Right of Way acquisition from property owners where additional ROW or easements for construction are needed for the proposed improvements.
- Inflow and Infiltration Reduction into the Sanitary Sewer System: Rehabilitation has been placed on hold for budgetary priority shifts for WWTP repairs. Tri-State is currently awaiting orders to continue when the Town is ready. A new Service agreement for the next phase of the I&I Evaluation work will be re-advertised once budget availability has been determined. The plan will be to continue a new Flow Monitoring program to better focus priority areas for sewer rehabilitation. With the success that our I&I reduction program has netted over the last two years, the peak response of flows at the WWTP has been dampened. The plan is to start up again in mid-2022 to further reduce I&I. The table below shows the flow history at the WWTP since 2015 through last year.

Year	Rainfall (in.)	Ave Flow (MGD)	High Peak Flow (MGD)	Number of Times over 6.0	Ave Flow/ Inch Rain
2015	41.80	1.86	6.10	2.00	44398
2016	37.30	1.73	6.00	3.00	46403
2017	34.09	1.84	6.00	3.00	53975
2018	77.10	2.17	6.00	6.00	28124
2019	58.90	2.08	6.00	4.00	35257
2020	61.60	1.88	6.00	4.00	30519
2021	45.55	1.72	6.00	2.00	37688
2022*	31.2	1.72	6.00	1.00	NA
*	Year to date				

- Garrett Street Stormwater Pond Retrofit: The project was successfully bid and awarded to the low bidder. Construction should start in September. The selected contractor is KBS Earthworks, and the bid price was \$132,655.02.
- Automated Water Filling Station, Corral Farms: The project was bid, and the lowest acceptable bidder was DeBorn Construction, Inc., for a bid price of \$446,000. Public Utilities will request Council to appropriate an additional \$230,857, so this project can move to construction. A draft Land-Lease Agreement and Exhibit for the proposed site in exchange for access to free water for the Landfill Transfer Station is under review by the Sr. Town Staff and Attorney. The landfill's access to water from this facility will also help us utilize water at the end of the southern distribution system and assist in maintaining chlorine residual and water quality.
- Timber Fence Trail, Segment 2: The Project Designers, LPDA and Carson Land Consultants, have been provided PO's to complete plan and plat preparation. This phase will finalize the Segment 2 plans as a separate bid document from the Segment 1 plans to reduce confusion from Contractor for bids to construct. Once started work in mid-August, we will coordinate with Fauquier Co. School Board for easement agreement.
- Stormwater Utility and MS-4 Permitting: Staff continues to work with the Villa's of Warrenton HOA and the Hampton Inn for a Stream Restoration Project across their properties. This will be a large step toward the Town meeting its permit goals set by DEQ. Much needs to be done to bring this on within the timeframe needed to meet the DEQ permit deadlines. It is hoped the Consultant/Contractor for this project will be authorized to start the permitting process before the end of August. The Town is in jeopardy of not having the project far enough along to obtain the credits needed to meet our DEQ nutrient reduction mandates and the Town will need to by some credits from a commercial bank on a temporary basis until the project is completed. The Town will also need to find additional opportunities to reduce Nitrogen, which the WWTP can temporarily help with until we get our Septic Tank decommissioning program underway.
- WWTP: With the new budget, WWTP Staff is planning to re-bid the improvements to the Gravity Sludge Thickener that was put off due to insufficient funds. The WWTP Blower Motors at the new MBBR Blower Building have been repaired and are functioning well. There is still a dispute as to the reason for the failure and whether the blowers were still under warranty. Staff is working through the Town Attorney and the system integrator, Suez, and the blower supplier, Kaeser, to resolve this issue. The UV Disinfection light system is installed and functioning well. Secondary Clarifier #1 is back operational, and the Staff is preparing to award a contract to replace the existing drive. Progress is being made in cleaning out the excess sediment from the denitrification filters, and to reduce the amount of sludge that has accumulated in the plant. Rainfall in July totaled 7.10 inches and average flows at the WWTP were 1.71 MGD for the month, a slight increase from last month.

- General Civil Engineering & Surveying Services: Annual Dam reports were filed with the DCR. The Staff is preparing RFP's from our selected Engineering firms to design the improvements to the Rappahannock Street Waterline.
- Water Plant Planning & Design: The Town's consultant has submitted a permit renewal to the on-going Warrenton Dam permit with the Department of Conservation and Recreation. They are also helping to determine longer range (5 to 15 years) improvements to the dam. This will need to consider improvements to the dam to improve the spillway and to meet our future expanding water supply needs for infill redevelopment and the potential boundary line adjustment. The Town will also look for Grants to help fund these improvements. The current budget provides for a little over \$1.1 Million to begin the conceptual and preliminary planning of this effort.

General Comments:

- Engineering is continuing to assist Community Development in traffic monitoring.

Storm Water Management:

Outreach:

- -

Applications/Permitting/Inspections:

- x55 ESC & SWM inspections completed (including drainage issues & outfall inspections).
- x6 SPD under review (ESC & SWM).
- x6 LDP under review (ESC & SWM).
- x2 SUP under review (ESC & SWM).
- x1 LDP approved (ESC & SWM).
- x2 As-built plans approved (ESC & SWM).
- x1 Private BMP Inspections.

Operations:

- Construction General Permit (CGP) July Monthly Report submitted to DEQ.
- Agreement in Lieu/LDP/CGP in progress (missing information) or under review: Warrenton Crossing, Strickland Brothers Oil Change, 105 W. Shirley Ave., Piedmont Urgent Care, 97 Horner St., 620 Evans Dr.
- SDP / Plat / Dees in progress (missing information) or under review: Piedmont Urgent Care, Strickland Brothers Oil Change, Harris Teeter Service Station, Country Chevrolet 11 E. Lee Hwy., Retail Auto Parts, North Hill - Lot C.
- SUP under review: Waterloo Junction / Farrish Properties, Warrenton Village Mixed-Use Center.
- SDP / Plat / Dees approved: Subdivision- 50 Oak Street.
- As-built plans approved: Steeplechase and Lindsay.
- Bid Tabulations for 5th. St. Parking Lot Bio Swale and Garrett Street Facility Projects.
- Non-competitive and competitive Litter & Recycling Grant Application accounting reports submitted – FY 2022.
- Meeting to go over comments: AWS Post Comment Review Meeting
- Pre-Application Meeting: PRE-22-5 - 511 Falmouth St, Warrenton - Zoning Map Amendment.
- Continued preparing Hampton Inn Memo of Understanding.
- Continued answering emails from clarification needed to citizens regarding the SW Utility Fee bill.
- Elaborate necessary configuration for land disturbance applications on OpenGov with Community Development.
- Continued answering emails from clarification needed to citizens regarding the Annual BMP / Stormwater Annual Inspections.

Wastewater Treatment Plant:

Total water pumped during July, 2022

Well No. 3 _____ 0 _____ Gallons

Well No. 5 _____ 0 _____ Gallons

Well No. 6 _____ 382,342 _____ Gallons

Filter Plant _____ 34,652,000 _____ Gallons

Total pumped (All Sources): _____ 35,034,342 _____ Gallons

Average gallons per day: _____ 1,130,140 _____

Total pumped during the same month last year: _____ 39,814,663 _____ Gallons

Average gallons per day: _____ 1,284,344 _____

Total flow through the sewage plant: _____ 53,090,000 _____ Gallons

Average gallons per day: _____ 1,712,581 _____

Total flow during the same month last year: _____ 44,920,000 _____ Gallons

Average gallons per day: _____ 1,449,032 _____ Gallons

Total rainfall: _____ 7.1 _____ Inches

Warrenton Reservoir overflow elevation: _____ 445.3 _____ Feet

Warrenton Reservoir current elevation: _____ 445.3 _____ Feet

Refuse & Recycling Report for:
July 2022

DATE	REFUSE	BLUE BAG	HOUSE	TIRES	FREON	CLEAN UP	CHIPPED	LEAVES	CARD	NEWS	OFFICE	COLLECTED IN BLUE BAGS				BLUE BAG	TONS	TONS	TONS	RECYCLE %
		REFUSE	DEBRIS			METAL	BRUSH		BOARD	PAPER	PAPER	GLASS	ALUMIN.	STEEL	PLASTIC	TOTALS	LANDFILL	RECYCLE	LANDFILL	
Fri. 1	15.10																15.10	0.00	15.10	0%
Mon. 4	HOLIDAY																0.00	0.00	0.00	0%
Tues. 5	42.66										0.03						42.66	0.03	42.69	0%
Wed. 6	2.88	0.10							3.04	0.23		1.09	0.07	0.12	0.09	1.47	2.98	4.64	7.62	61%
Thurs. 7	10.35						5.76										10.35	5.76	16.11	0%
Fri. 8	15.96																15.96	0.00	15.96	0%
Mon. 11	23.86																23.86	0.00	23.86	0%
Tues. 12	21.87																21.87	0.00	21.87	0%
Wed. 13	1.61	0.09							3.50	0.16		0.99	0.07	0.11	0.08	1.34	1.70	4.91	6.61	74%
Thurs. 14	14.15																14.15	0.00	14.15	0%
Fri. 15	14.49																14.49	0.00	14.49	0%
Mon. 18	21.37																21.37	0.00	21.37	0%
Tues. 19	22.75										0.03						22.75	0.03	22.78	0%
Wed. 20	3.62	0.13							3.53	0.30		1.35	0.09	0.15	0.11	1.82	3.75	5.52	9.27	60%
Thurs. 21	13.95																13.95	0.00	13.95	0%
Fri. 22	13.98						2.13										13.98	2.13	16.11	13%
Mon. 25	21.13																21.13	0.00	21.13	0%
Tues. 26	20.47					0.32											20.47	0.32	20.79	0%
Wed. 27	0.11	0.10							3.28	0.23		1.01	0.07	0.11	0.08	1.36	0.21	4.77	4.98	96%
Thurs. 28	13.93						2.44										13.93	2.44	16.37	0%
Fri. 29	15.81																15.81	0.00	15.81	0%
TOTAL	310.05	0.42	0.00	0.00	0.00	0.32	10.33	0.00	13.35	0.92	0.06	4.43	0.30	0.48	0.36	5.99	310.47	30.55	341.02	9%