

**MAINTENANCE DEPARTMENT  
MONTHLY OPERATIONS REPORT  
FOR THE MONTH OF: JULY 2020  
PREPARED: AUGUST 2020**

MEASURE	MONTH	UNITS	FY YTD	UNITS
WORK ORDERS (W.O.) PROCESSED	588		588	#
STAFF HOURS REQUIRED FOR W.O.	478	HRS.	478	HRS.
NON-CORE DUTIES HOURS	242	HRS.	242	HRS.
CD. MAN HOURS REQUIRED FOR WO	236	HRS.	236	HRS.
PM FIRE HYDRANTS	111		111	
FIRE HYDRANT REPAIR	1		1	
PM VALVE EXERCISED	0		0	
MANHOLE INSPECTIONS	136		136	
CCTV SEWER LINE	457	L. FT.	457	L. FT.
SEWER LINE CLEANED	388	L. FT.	388	L. FT.
SL RAT INSPECTIONS	24,558	L. FT.	24,558	L. FT.
VEHICLES SERVICED/REPAIRED	27		27	
# OF WATER BREAKS	1		1	
# OF SEWER BACKUPS	0		0	
# OF CLEANOUTS INSTALLED	0		0	
# OF MISS UTILITY TICKETS	162		162	
# OF METERS READ	44		44	
# OF METERS SHUT OFF	0		0	
# OF METERS TURNED ON	0		0	
# OF REPLACED METERS	0		0	
# OF REPLACED REGISTERS	0		0	
# OF NEW ACC. METER INSTALLS	3		3	
# OF LEAK CHECKS	57		57	
# OF REPLACED MIUs (Radios)	11		11	
CUSTOMER COMPLAINTS	0		0	
WATER COMPLAINTS REC'D	0		0	
WATER COMPLAINTS RESOLVED	100	%	100	%
WASTEWATER COMPLAINTS REC'D	0		0	
WASTEWATER COMPLAINTS RES'D	100	%	100	%
BULK WATER GALLONS AT NEW RATE	0	Gallons	0	Gallons
BULK WATER SALES-(rate \$15.18per)	\$0.00		\$0.00	

**ACCOMPLISHMENTS**

Cleared/Trimmed limbs along the Chapman/DeMary Trail  
 Weekly Mowing Operations  
 Weed control on numerous steets/parking lots  
 Fleet Maintenance  
 Assisted PD Dept with road closures for First Amendment Demonstration  
 Emptied public trash cans weekly  
 Cleaned and restocked dog waste stations weekly  
 Community event sign work orders  
 ROW tree trimming in Courtland Square, Kingsbridge, 287 walking trail and Stephens Ln.  
 Cleaned curb/gutter on WT Druhan Blvd, Ken Culbert and 26th St.  
 Drainage repairs on S. 26th St. and S. 18th St.  
 Relocated data radar signs to East E St.  
 Equipment Repairs  
 Sign Repairs and replacement  
 Brush hogged easements at Forbes Well locations  
 Removed fallen tree in Suzanne Kane Nature park  
 Assisted paving contractor with No Parking signs as needed  
 Mowed contractor's areas due to default in contract.

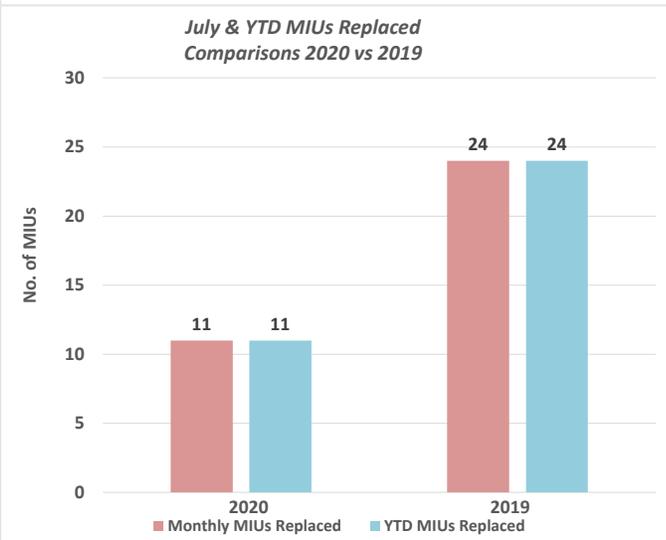
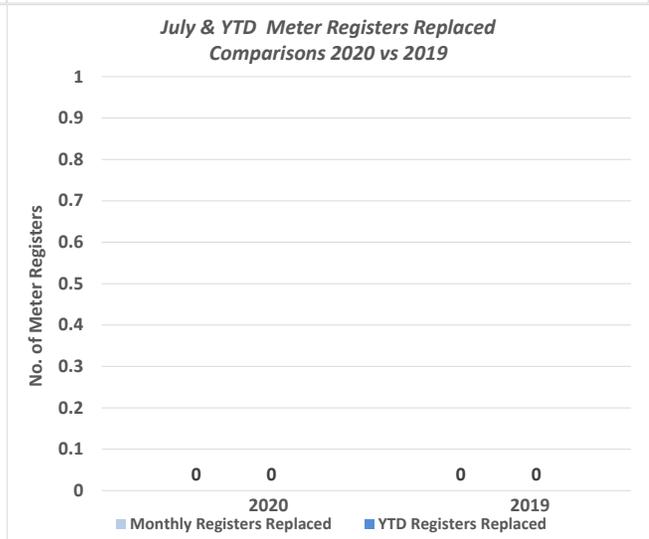
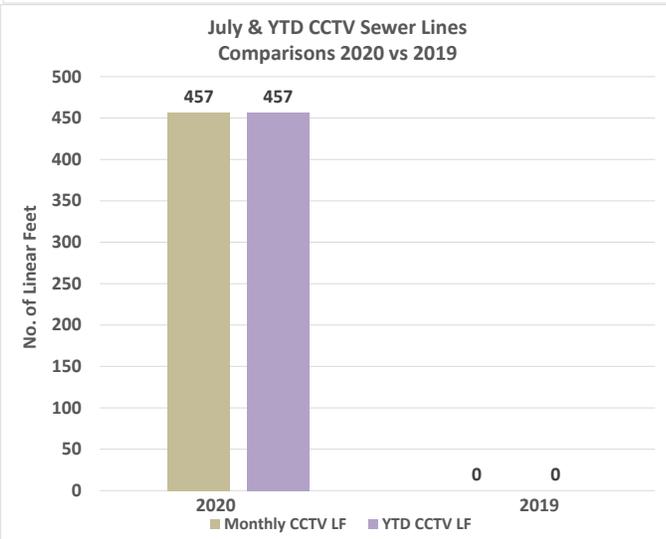
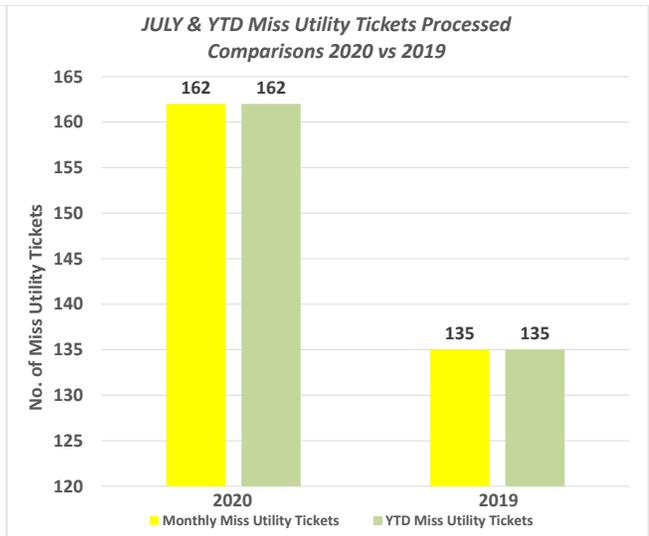
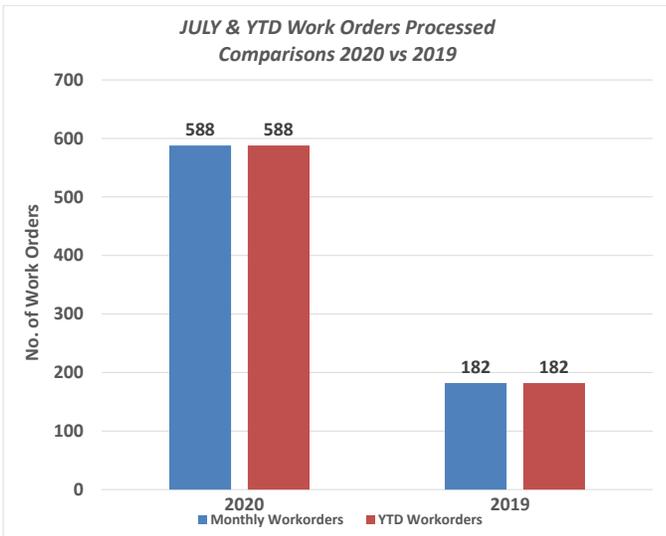
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MEASURE	MONTH	UNITS	FY YTD	UNITS
WORK ORDERS (W.O.) PROCESSED	182		182	#
STAFF HOURS REQUIRED FOR W.O.	357.75	HRS.	357.75	HRS.
NON-CORE DUTIES HOURS	48	HRS.	48	HRS.
CD. MAN HOURS REQUIRED FOR WO	309.75	HRS.	309.75	HRS.
PM FIRE HYDRANTS	17		17	
FIRE HYDRANT REPAIR	1		1	
PM VALVE EXERCISED	1		1	
MANHOLE INSPECTIONS	9		9	
CCTV SEWER LINE	0	L. FT.	0	L. FT.
SEWER LINE CLEANED	0	L. FT.	0	L. FT.
SL RAT INSPECTIONS	0	L. FT.	0	L. FT.
VEHICLES SERVICED/REPAIRED	13		13	
# OF WATER BREAKS	0		0	
# OF SEWER BACKUPS	0		0	
# OF CLEANOUTS INSTALLED	0		0	
# OF MISS UTILITY TICKETS	135		135	
# OF METERS READ	56		56	
# OF METERS SHUT OFF	4		4	
# OF METERS TURNED ON	4		4	
# OF REPLACED METERS	0		0	
# OF REPLACED REGISTERS	0		0	
# OF NEW ACC. METER INSTALLS	1		1	
# OF LEAK CHECKS	49		49	
# OF REPLACED MIUs (Radios)	24		24	
CUSTOMER COMPLAINTS	0		0	
WATER COMPLAINTS REC'D	0		0	
WATER COMPLAINTS RESOLVED	100		100	
WASTEWATER COMPLAINTS REC'D	0		7	
WASTEWATER COMPLAINTS RES'D	100		100	
BULK WATER GALLONS AT NEW RATE	0	Gallons	0	Gallons
BULK WATER SALES-(rate \$15.18per)	\$0.00		\$0.00	

**ACCOMPLISHMENTS**

Assisted Town contractor with Fire Lane painting on Main arteries within town limits  
 Provided staffing for 4th of July parade activities  
 Removed and distributed L-O-V-E letters to vendors for refurbishing  
 Weekly mowing operations for town owned properties/facilities  
 Weekly maintenance of dog waste stations  
 Trimmed limbs in VDOT right of way in numerous locations  
 Provided staffing for setup/take down during Zip Trip on 21st Street  
 Assisted contractor with the installation of stamped asphalt crosswalks on 21st and 23rd Streets  
 Installed new stop sign on Browning Ct. at exit from commuter lot.  
 Relocated four radar signs per PD request to E Street and Skyline Drive  
 Trimmed limbs overhanging sidewalks in numerous locations  
 Bush hogged water and sewer easements  
 Repaired washout at drainage inlet 37783 Eastgate Drive  
 Maintenance Facility Storage area cleanup and office area cleanup  
 Completed Town Hall work orders  
 Removed dead tree on town property at 828 Devonshire Circle  
 Performed asphalt patch work on A Street walking trail at culvert crossing  
 Emptied overflowing public trash cans that were missed by the town contractor  
 Applied seal coat on corks on "L" prior to the L-O-V-E letters being reinstalled  
 Removed fallentrees from Chapman DeMary Trail along with other trail maintenance tasks

**Maintenance Department  
2020 vs 2019 Comparisons**



**WATER TREATMENT PLANT  
MONTHLY OPERATIONS REPORT  
FOR THE MONTH OF: JULY 2020  
PREPARED: AUGUST 2020**

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MONTHLY OPERATIONS REPORT  
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WATER	MONTH	UNITS	AVG./DAY	UNITS
ALUMINUM SULFATE	1,396.1	lbs.	45.0	lbs.
POLYMER				
METAPHOSPHATE	171.2	lbs.	5.5	lbs.
SODA ASH	2,333.8	lbs.	75.3	lbs.
FLUORIDE (WTP & WELLS)	213.6	lbs.	6.9	lbs.
POTASSIUM PERMANGANATE	33.0	lbs.	1.1	lbs.
CHLORINE (HYPOCHLORITE @ WTP)	395.0	lbs.	12.7	lbs.
CHLORINE RESIDUAL (TANK)			1.9	mg/L
AVERAGE PH (FINISHED)			7.5	SU
BULK WATER SALES	0	gals.	0.0	gals.
INLINE METER, COOPER SPRINGS	4,115,517	gals.	132,758.6	gals.
JEFFERIES WELL	351,900	gals.	11,351.6	gals.
WATER PLANT GALLONS	10,949,000	gals.	353,193.5	gals.
MARSH WELL	2,113,200	gals.	68,167.7	gals.
MOUNTAIN VIEW WELL	520,740	gals.	16,798.1	gals.
MAIN STREET VILLAGES WELLS (MS-1 & VC)	3,108,651	gals.	100,279.1	gals.
CORNWELL #2 WELL	1,650,136	gals.	53,230.2	gals.
FORBES WELL	1,222,333	gals.	39,430.1	gals.
HIRST #2 WELL	0	gals.	0.0	gals.
<b>TOTAL WATER FLOW</b>	<b>19,564,060</b>	<b>gals.</b>	<b>631,098.7</b>	<b>gals.</b>

RESERVOIR LEVELS:	1-Jul-2020	31-Jul-2020
FRONT LAKE:	5.80'	5.0'
BACK LAKE	4.34'	5.02'
RAINFALL:	4.24"	

**ACCOMPLISHMENTS**

VDH ODW Monthly Operating Report due 08/10 was submitted electronically on 08/10/2020.  
Four Weekly Water Production Reports were completed.

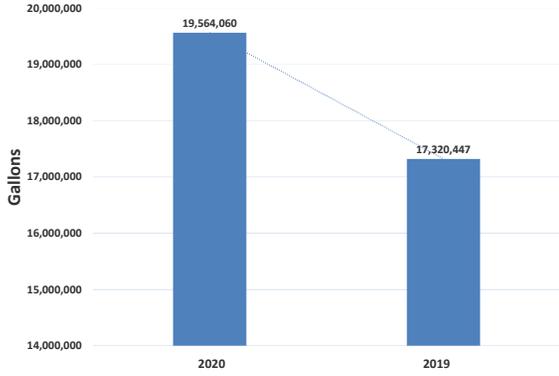
WATER	MONTH	UNITS	AVG./DAY	UNITS
ALUMINUM SULFATE	1,286.0	lbs.	41.5	lbs.
POLYMER				
METAPHOSPHATE	347.8	lbs.	11.2	lbs.
SODA ASH	1,923.0	lbs.	62.0	lbs.
FLUORIDE (WTP & WELLS)	163.3	lbs.	5.3	lbs.
POTASSIUM PERMANGANATE	28.2	lbs.	0.9	lbs.
CHLORINE (HYPOCHLORITE @ WTP)	283.8	lbs.	9.2	lbs.
CHLORINE RESIDUAL (TANK)			1.7	mg/L
AVERAGE PH (FINISHED)			7.5	SU
BULK WATER SALES	-	gals.	0	gals.
INLINE METER, COOPER SPRINGS	4,088,125	gals.	131,875	gals.
JEFFERIES WELL	0	gals.	0	gals.
WATER PLANT GALLONS	8,608,300	gals.	277,687	gals.
MARSH WELL	1,759,600	gals.	56,761	gals.
MOUNTAIN VIEW WELL	703,000	gals.	22,677	gals.
MAIN STREET VILLAGES WELLS (MS-1 & VC)	3,163,073	gals.	102,035	gals.
CORNWELL #2 WELL	1,670,140	gals.	53,875	gals.
FORBES WELL	1,416,334	gals.	45,688	gals.
HIRST #2 WELL	0	gals.	0	gals.
<b>TOTAL WATER FLOW</b>	<b>17,320,447</b>	<b>gals.</b>	<b>558,724</b>	<b>gals.</b>

RESERVOIR LEVELS:	1-Jul-2018	31-Jul-2018
FRONT LAKE:	5.56'	5.60'
BACK LAKE	4.88'	4.86'
RAINFALL:	6.61"	

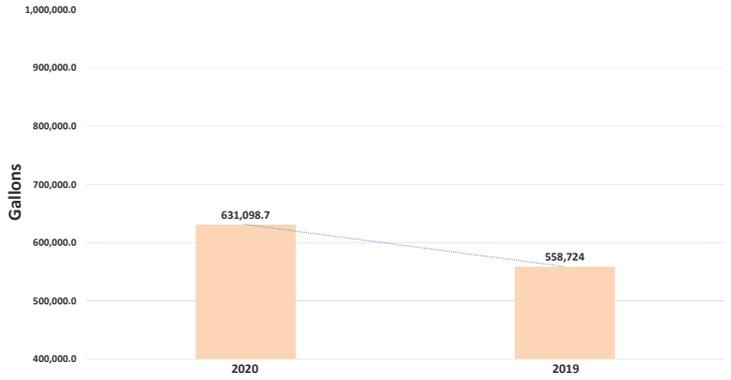
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**Water Well Production Facilities  
July 2020 vs 2019 Comparisons**

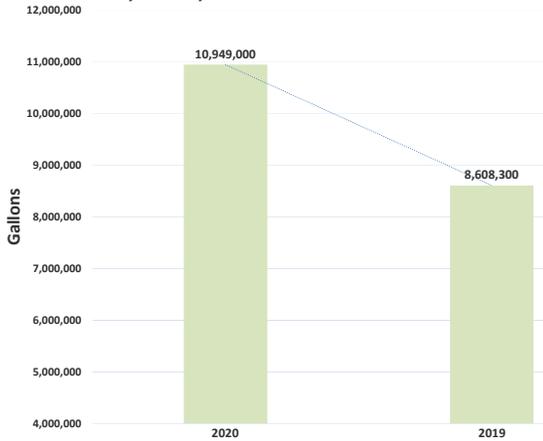
**July Total Monthly Water Production 2020 vs 2019**



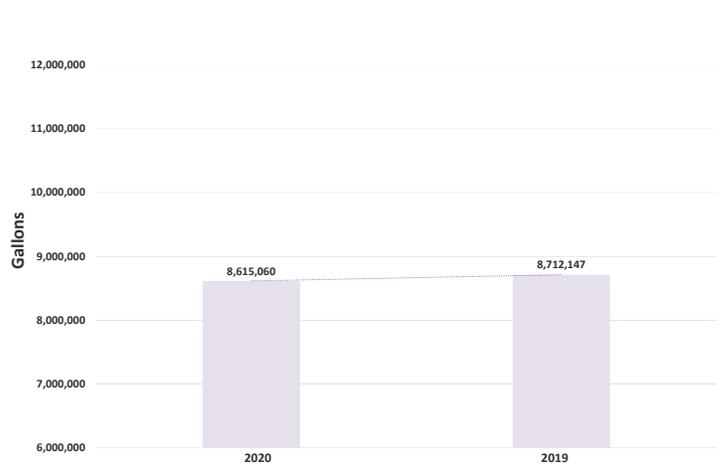
**July Total Average Daily Water Production 2020 vs 2019**



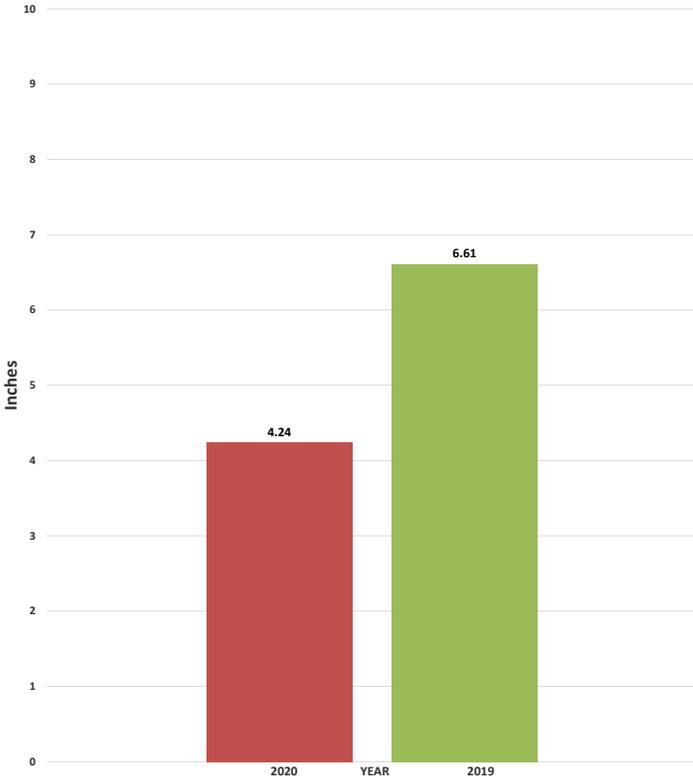
**July Monthly Water Plant Water Production 2020 vs 2019**



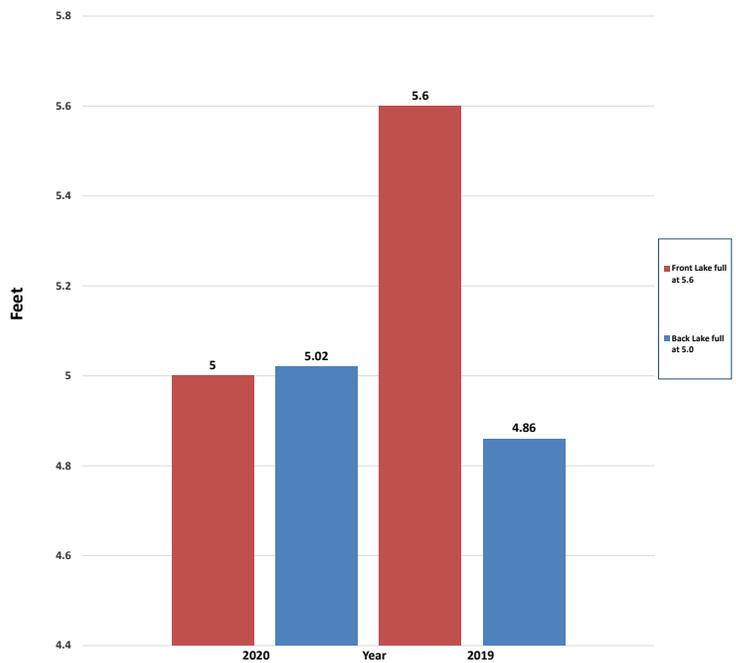
**July Monthly Well Water Production 2020 vs 2019**



**July Monthly Precipitation 2020 vs 2019**



**Front & Back Lake Levels 2020 vs 2019**



**WATER RECLAMATION FACILITY  
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MONTHLY OPERATIONS REPORT  
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MEASURE	MONTH	AVG./DAY
INFLUENT FLOW	18,195,500 GAL	587,000 GAL
EFFLUENT FLOW	18,092,400 GAL	GAL
MAXIMUM DAY INFLUENT	853,600 GAL	
FERRIC CHLORIDE	2,763 GAL	89 GAL
CITRIC ACID	- GAL	GAL
SODIUM HYPOCHLORITE	196 GAL	22 GAL
METHANOL	853 GAL	28 GAL
RAIN	5.35 IN.	0.17 IN.

MEASURE	MONTH	AVG./DAY
INFLUENT FLOW	13,906,100 GAL	432,500 GAL
EFFLUENT FLOW	17,467,500 GAL	563,500 GAL
MAXIMUM DAY INFLUENT	554,200 GAL	
FERRIC CHLORIDE	2,892 GAL	91 GAL
CITRIC ACID	207 GAL	69 GAL
SODIUM HYPOCHLORITE	412 GAL	59 GAL
METHANOL	924 GAL	30 GAL
RAIN	5.75 IN.	0.19 IN.

**MONTHLY TOTAL NUTRIENT DISCHARGE**

TOTAL NITROGEN	75 LBS.
TOTAL NITROGEN YTD	641 LBS.
AVG. DAILY NITROGEN	0.49 MG/L
VPDES NITROGEN LIMIT	4.0 MG/L
TOTAL PHOSPHORUS	35 LBS.
TOTAL PHOSPHORUS YTD	217 LBS.
AVG. PHOSPHORUS DAILY	0.24 MG/L
VPDES PHOSPHORUS LIMIT	0.3 MG/L

**MONTHLY TOTAL NUTRIENT DISCHARGE**

TOTAL NITROGEN	58 LBS.
TOTAL NITROGEN YTD	497 LBS.
AVG. DAILY NITROGEN	0.39 MG/L
VPDES NITROGEN LIMIT	4.0 MG/L
TOTAL PHOSPHORUS	34 LBS.
TOTAL PHOSPHORUS YTD	234 LBS.
AVG. PHOSPHORUS DAILY	0.22 MG/L
VPDES PHOSPHORUS LIMIT	0.3 MG/L

**ACCOMPLISHMENTS**

NIA

No information available at this time.

All Staff received training on (EMS) Wastewater By-passes and unusual discharges,  
(Plant Process) Aerobic Digestion Operation, (Safety) Chemical Hazard Communication Program, (LAB) Graduated Cylinder Measuring.

Submitted VDEQ discharge monitoring report, Virginia's nutrient report.

## Basham Simms Water Reclamation Facility 2019 vs 2018 Comparisons

