

**MAINTENANCE DEPARTMENT
MONTHLY OPERATIONS REPORT
FOR THE MONTH OF: MAY 2020
PREPARED: JUNE 2020**

MEASURE	MONTH	UNITS	FY YTD	UNITS
WORK ORDERS (W.O.) PROCESSED	139		1308	#
STAFF HOURS REQUIRED FOR W.O.	394	HRS.	3762	HRS.
NON-CORE DUTIES HOURS	20	HRS.	364.25	HRS.
CD. MAN HOURS REQUIRED FOR WO	374	HRS.	3044.75	HRS.
PM FIRE HYDRANTS	1		64	
FIRE HYDRANT REPAIR	0		3	
PM VALVE EXERCISED	0		178	
MANHOLE INSPECTIONS	0		11	
CCTV SEWER LINE	0	L. FT.	2,604	L. FT.
SEWER LINE CLEANED	0	L. FT.	2,666	L. FT.
SL RAT INSPECTIONS	0	L. FT.	11,911	L. FT.
VEHICLES SERVICED/REPAIRED	0		87	
# OF WATER BREAKS	0		1	
# OF SEWER BACKUPS	2		9	
# OF CLEANOUTS INSTALLED	1		4	
# OF MISS UTILITY TICKETS	149		1054	
# OF METERS READ	18		212	
# OF METERS SHUT OFF	0		29	
# OF METERS TURNED ON	0		27	
# OF REPLACED METERS	0		0	
# OF REPLACED REGISTERS	0		0	
# OF NEW ACC. METER INSTALLS	1		9	
# OF LEAK CHECKS	33		293	
# OF REPLACED MIUs (Radios)	26		325	
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

Weekly mowing operations for town owned properties and Facilities
 Cross training with Water and Wastewater Treatment Plants
 Community Garden cleanup and preparation for the upcoming season
 Relocated radar data signs from Glenmeade to Purcellville Green
 Cleared debris from curb and gutter on Ken Culbert Lane
 Cleared brush/limbs from water sample station on Ken Culbert Lane
 Community Event sign work orders
 Emptied public trash cans in downtown district
 Replaced old traffic signs
 Cleaned/restocked dog waste stations
 Drainage repairs at the Water Treatment Plant
 Drainage repairs at S. Maple/W. T. Druhan Blvd
 Cleaned/Swept parking lots at the Water Treatment plant and Maintenance Facility
 Cleaned/Swept walking path along Hirst Road from the W&OD Trail to RT. 287
 Performed Maintenance on Mowing Equipment
 Cleaned Pump Stations
 Assisted Facilities Maintenance with Geo Thermal vault cleaning
 Memorial Day Ceremony cleanup
 Replaced water sample station on Main Street
 Fire Hydrant flushing
 Checked and prepped all manholes and risers from upcoming paving project

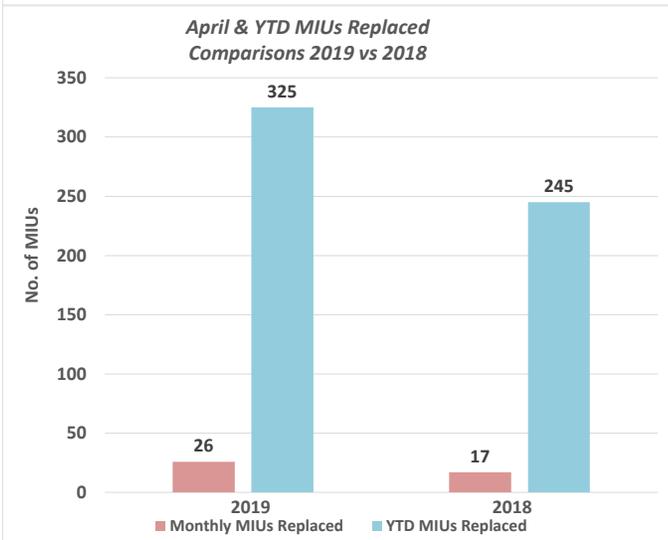
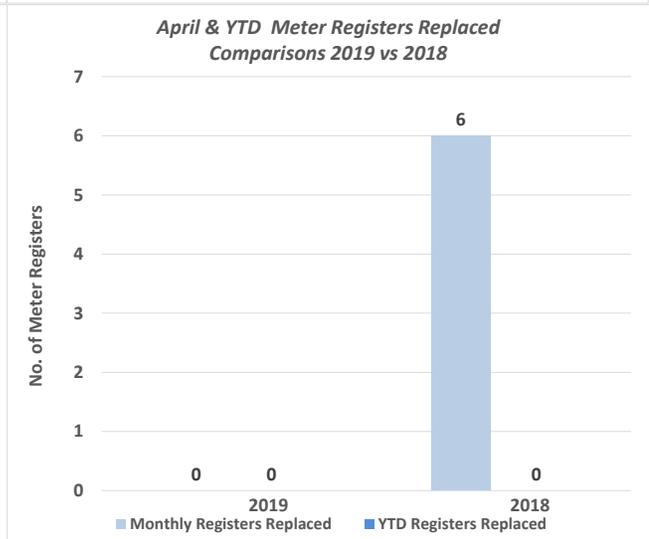
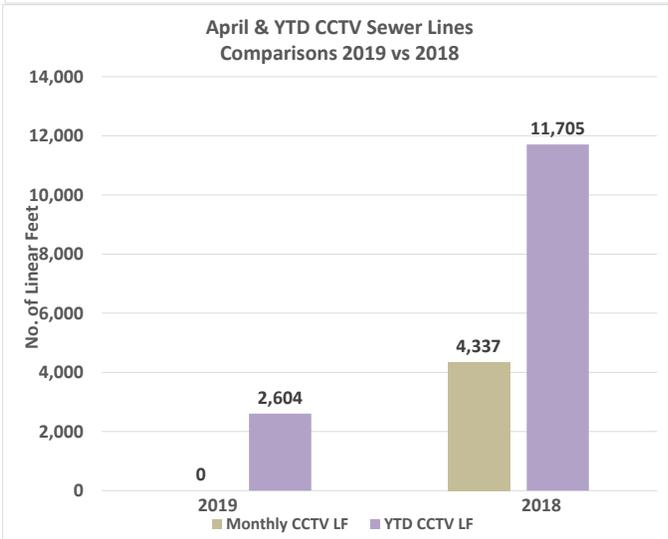
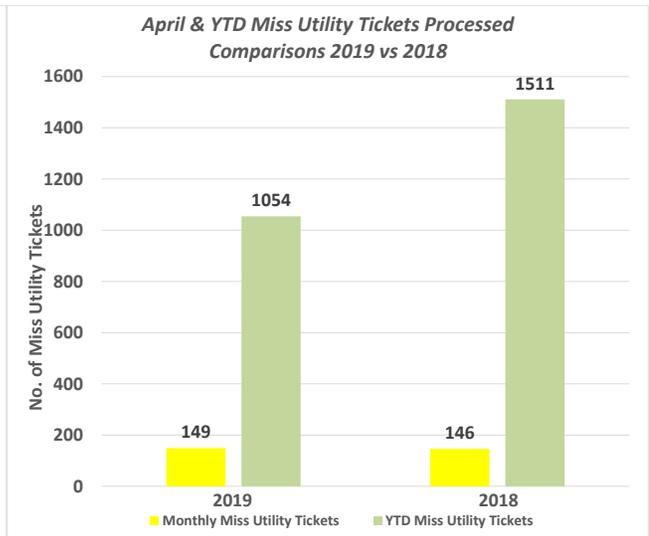
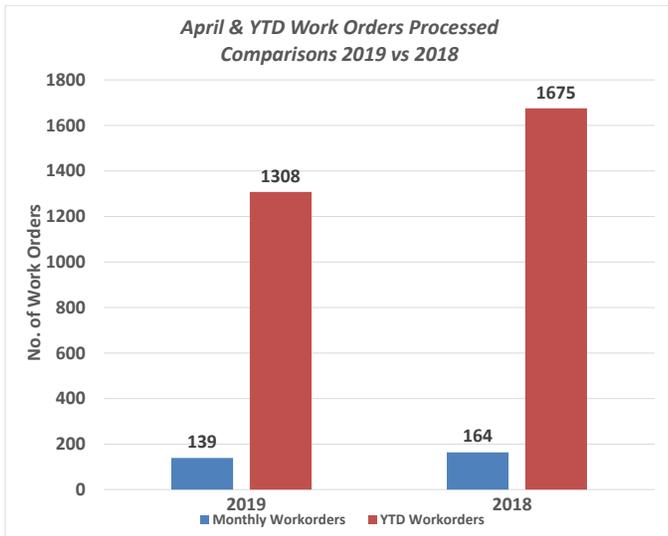
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MEASURE	MONTH	UNITS	FY YTD	UNITS
WORK ORDERS (W.O.) PROCESSED	164		1675	#
STAFF HOURS REQUIRED FOR W.O.	366	HRS.	4490.68	HRS.
NON-CORE DUTIES HOURS	102.25	HRS.	979.75	HRS.
CD. MAN HOURS REQUIRED FOR WO	263.75	HRS.	3209.28	HRS.
PM FIRE HYDRANTS	15		143	
FIRE HYDRANT REPAIR	0		1	
PM VALVE EXERCISED	0		404	
MANHOLE INSPECTIONS	0		283	
CCTV SEWER LINE	4,337	L. FT.	11,705	L. FT.
SEWER LINE CLEANED	5,526	L. FT.	11,147	L. FT.
SL RAT INSPECTIONS	0		37,500	L. FT.
VEHICLES SERVICED/REPAIRED	5		152	
# OF WATER BREAKS	2		5	
# OF SEWER BACKUPS	1		2	
# OF CLEANOUTS INSTALLED	0		0	
# OF MISS UTILITY TICKETS	146		1511	
# OF METERS READ	22		291	
# OF METERS SHUT OFF	11		42	
# OF METERS TURNED ON	11		45	
# OF REPLACED METERS	6		21	
# OF REPLACED REGISTERS	0		0	
# OF NEW ACC. METER INSTALLS	6		68	
# OF LEAK CHECKS	41		421	
# OF REPLACED MIUs (Radios)	17		245	
CUSTOMER COMPLAINTS	0		23	
WATER COMPLAINTS REC'D	0		0	
WATER COMPLAINTS RESOLVED	100		100	
WASTEWATER COMPLAINTS REC'D	3		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 with Town Events (Sadie's Race, Safety Day, Memorial Day)
 Radar Sign Data Collection for PD
 Crackfill/Sealcoat Town Hall/Tabernacle parking lots
 Chapman DeMary Trail work orders
 Drainage improvements (Culverts and Ditches)
 Pothole Repairs
 Installed Blinker Sign, crosswalk signage at Town Hall
 Yellow curb painting
 Street/Stop sign replacement Hirst Farm
 Assembled and installed EDAC Baseball Card Art
 Tree limb clearing in ROW's
 Weekly mowing operations for town owned properties/facilities
 Repaired water fountain at the train station
 Repaired leak on 36" contact line at Forbes Well building
 Installed new Mag meter and pipe at raw building
 Repaired broken sewer lateral on Loudoun Valley Drive

**Maintenance Department
2019 vs 2018 Comparisons**



**WATER TREATMENT PLANT
MONTHLY OPERATIONS REPORT
FOR THE MONTH OF: MAY 2020
PREPARED: JUNE 2020**

**WATER TREATMENT PLANT
MONTHLY OPERATIONS REPORT
FOR THE MONTH OF: MAY 2019
PREPARED: JUNE 2019**

WATER	MONTH	UNITS	AVG./DAY	UNITS
ALUMINUM SULFATE	988.3	lbs.	31.9	lbs.
POLYMER			0.0	
METAPHOSPHATE	152.0	lbs.	4.9	lbs.
SODA ASH	1,185.0	lbs.	38.2	lbs.
FLUORIDE (WTP & WELLS)	162.8	lbs.	5.3	lbs.
POTASSIUM PERMANGANATE	32.5	lbs.	1.0	lbs.
CHLORINE (HYPOCHLORITE @ WTP)	312.5	lbs.	10.1	lbs.
CHLORINE RESIDUAL (TANK)			2.0	mg/L
AVERAGE PH (FINISHED)			7.6	SU
BULK WATER SALES	0	gals.	0.0	gals.
INLINE METER, COOPER SPRINGS	4,628,864	gals.	149,318.2	gals.
JEFFERIES WELL	0	gals.	0.0	gals.
WATER PLANT GALLONS	8,742,000	gals.	282,000.0	gals.
MARSH WELL	2,170,200	gals.	70,006.5	gals.
MOUNTAIN VIEW WELL	545,836	gals.	17,607.6	gals.
MAIN STREET VILLAGES WELLS (MS-1 & VC)	3,090,767	gals.	99,702.2	gals.
CORNWELL #2 WELL	1,669,059	gals.	53,840.6	gals.
FORBES WELL	1,240,213	gals.	40,006.9	gals.
HIRST #2 WELL	0	gals.	0.0	gals.
TOTAL WATER FLOW	17,458,075	gals.	563,163.7	gals.

RESERVOIR LEVELS:	1-May-2020	30-May-2020
FRONT LAKE:	5.90'	5.87'
BACK LAKE	5.20'	4.97'
RAINFALL:	3.33"	

WATER	MONTH	UNITS	AVG./DAY	UNITS
ALUMINUM SULFATE	1,088.4	lbs.	35.1	lbs.
POLYMER				
METAPHOSPHATE	738.4	lbs.	23.8	lbs.
SODA ASH	1,720.3	lbs.	55.5	lbs.
FLUORIDE (WTP & WELLS)	179.0	lbs.	5.8	lbs.
POTASSIUM PERMANGANATE	21.7	lbs.	0.7	lbs.
CHLORINE (HYPOCHLORITE @ WTP)	297.9	lbs.	9.6	lbs.
CHLORINE RESIDUAL (TANK)			1.8	mg/L
AVERAGE PH (FINISHED)			7.6	SU
BULK WATER SALES	-	gals.	0	gals.
INLINE METER, COOPER SPRINGS	4,586,931	gals.	147,966	gals.
JEFFERIES WELL	0	gals.	0	gals.
WATER PLANT GALLONS	9,857,600	gals.	317,987	gals.
MARSH WELL	1,955,100	gals.	63,068	gals.
MOUNTAIN VIEW WELL	559,900	gals.	18,061	gals.
MAIN STREET VILLAGES WELLS (MS-1 & VC)	3,232,668	gals.	104,280	gals.
CORNWELL #2 WELL	1,455,308	gals.	46,945	gals.
FORBES WELL	912,779	gals.	29,444	gals.
HIRST #2 WELL	0	gals.	0	gals.
TOTAL WATER FLOW	17,973,355	gals.	579,786	gals.

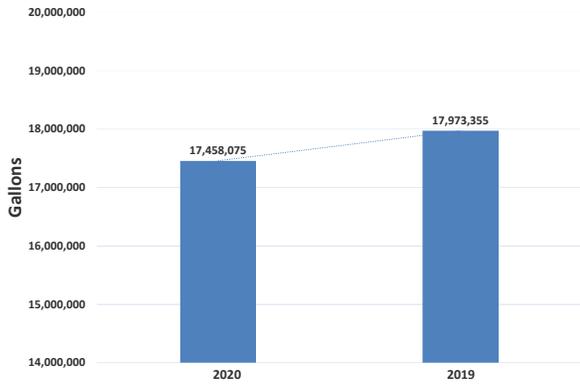
RESERVOIR LEVELS:	1-May-2019	30-May-2019
FRONT LAKE:	5.48'	5.60'
BACK LAKE	5.10'	4.98'
RAINFALL:	6.91"	

ACCOMPLISHMENTS

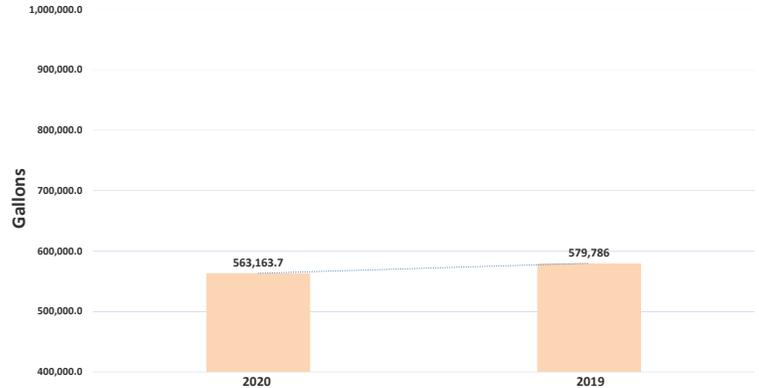
VDH ODW Monthly Operating Report due 06/10 was submitted electronically on 06/08/2020.
Four Weekly Water Production Reports were completed.

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

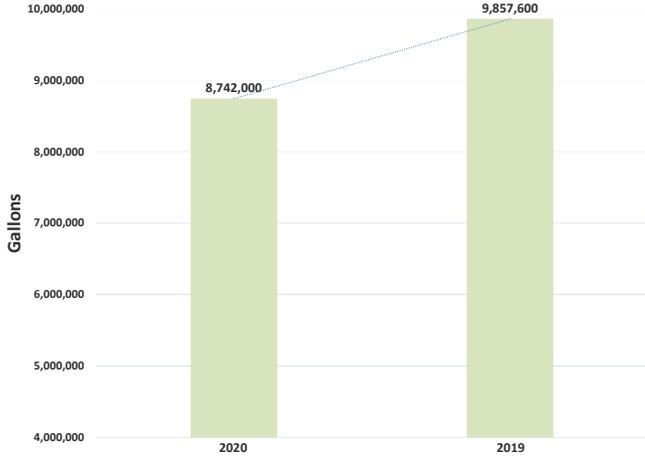
May Total Monthly Water Production 2020 vs 2019



May Total Average Daily Water Production 2020 vs 2019



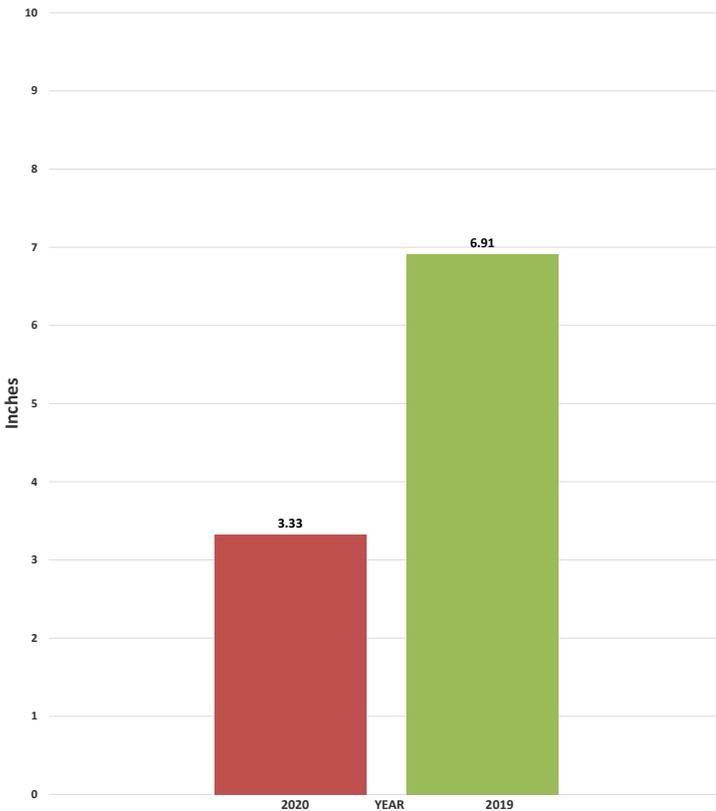
May Monthly Water Plant Water Production 2020 vs 2019



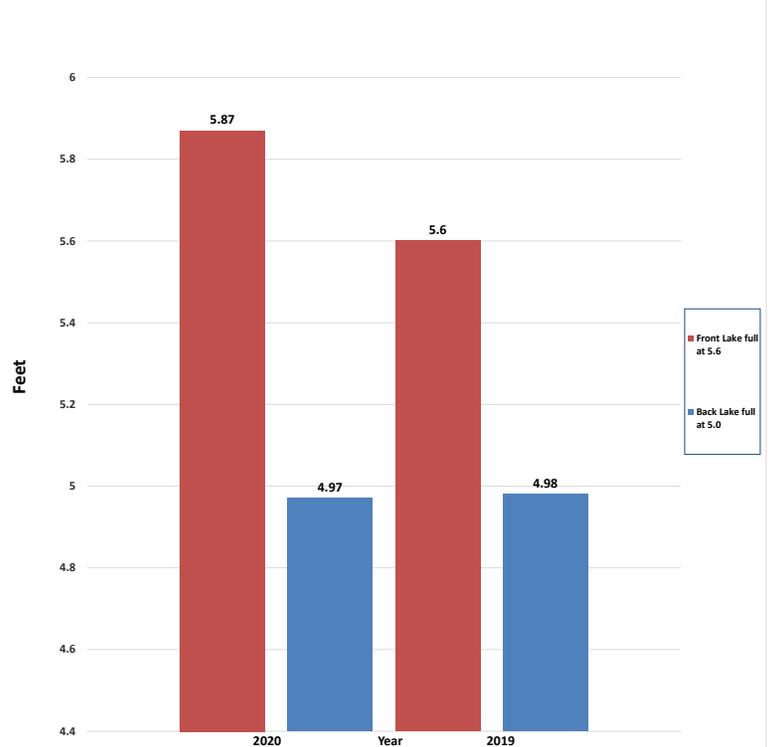
May Monthly Well Water Production 2020 vs 2019



May Monthly Precipitation 2020 vs 2019



Front & Back Lake Levels 2020 vs 2019



**WATER RECLAMATION FACILITY
MONTHLY OPERATIONS REPORT
FOR May 2020
Prepared: June 2020**

MEASURE	MONTH	AVG./DAY
INFLUENT FLOW	19,696,000 GAL	635,400 GAL
EFFLUENT FLOW	21,336,600 GAL	688,300 GAL
MAXIMUM DAY INFLUENT	1,024,200 GAL	
FERRIC CHLORIDE	2,583 GAL	83 GAL
CITRIC ACID	282 GAL	71 GAL
SODIUM HYPOCHLORITE	90 GAL	23 GAL
METHANOL	1,088 GAL	35 GAL
RAIN	1.80 IN.	0.06 IN.

MONTHLY TOTAL NUTRIENT DISCHARGE

TOTAL NITROGEN	77 LBS.
TOTAL NITROGEN YTD	432 LBS.
AVG. DAILY NITROGEN	0.45 MG/L
VPDES NITROGEN LIMIT	4.0 MG/L
TOTAL PHOSPHORUS	32 LBS.
TOTAL PHOSPHORUS YTD	138 LBS.
AVG. PHOSPHORUS DAILY	0.18 MG/L
VPDES PHOSPHORUS LIMIT	0.3 MG/L

NIA No information available at this time.

ACCOMPLISHMENTS

Any Training All Staff Received Training On, (EMS) Hazardous Waste Storage, (Lab) Chain of Custody Procedures for Water Plant Samples,(Plant) Ferric Chloride System,(Safety) Safety Pictogram Identification.
 Unusual activities Hauled 96 tons of Bio-Solids for land application.
 Maintenance Planned WWTF Preventive Maintenance YTD 45 Pieces out of 98 Scheduled per Year, Four Vehicle Checks
 Applications None
 Awards
 Reports Submitted Submitted VDEQ monthly discharge monitoring report and Virginia's nutrient monthly report
 Submitted Copper and Hardness Monitoring Report

**WATER RECLAMATION FACILITY
MONTHLY OPERATIONS REPORT
FOR May 2019
Prepared: June 2019**

MEASURE	MONTH	AVG./DAY
INFLUENT FLOW	21,607,900 GAL	697,000 GAL
EFFLUENT FLOW	25,751,600 GAL	830,700 GAL
MAXIMUM DAY INFLUENT	1,365,900 GAL	
FERRIC CHLORIDE	3,865 GAL	125 GAL
CITRIC ACID	- GAL	GAL
SODIUM HYPOCHLORITE	665 GAL	74 GAL
METHANOL	1,225 GAL	40 GAL
RAIN	6.45 IN.	0.21 IN.

MONTHLY TOTAL NUTRIENT DISCHARGE

TOTAL NITROGEN	73 LBS.
TOTAL NITROGEN YTD	363 LBS.
AVG. DAILY NITROGEN	0.31 MG/L
VPDES NITROGEN LIMIT	4.0 MG/L
TOTAL PHOSPHORUS	46 LBS.
TOTAL PHOSPHORUS YTD	175 LBS.
AVG. PHOSPHORUS DAILY	0.19 MG/L
VPDES PHOSPHORUS LIMIT	0.3 MG/L

NIA No information available at this time.

Basham Simms Water Reclamation Facility 2019 vs 2018 Comparisons

