

**MAINTENANCE DEPARTMENT
MONTHLY OPERATIONS REPORT
FOR THE MONTH OF: FEBRUARY 2022
PREPARED: MARCH 2022**

MEASURE	MONTH	UNITS	FY YTD	UNITS
WORK ORDERS (W.O.) PROCESSED	184		1296	#
STAFF HOURS REQUIRED FOR W.O.	465	HRS.	4362.24	HRS.
NON-CORE DUTIES HOURS	111.5	HRS.	762.44	HRS.
CD. MAN HOURS REQUIRED FOR WO	353.5	HRS.	3509.3	HRS.
PM FIRE HYDRANTS	0		124	
FIRE HYDRANT REPAIR	0		1	
PM VALVE EXERCISED	0		0	
MANHOLE INSPECTIONS	0		0	
CCTV SEWER LINE	3,921	L. FT.	6,444	L. FT.
SEWER LINE CLEANED	3,398	L. FT.	6,286	L. FT.
SL RAT INSPECTIONS	6,375	L. FT.	43,275	L. FT.
VEHICLES SERVICED/REPAIRED	26		131	
# OF WATER BREAKS	0		3	
# OF SEWER BACKUPS	0		6	
# OF CLEANOUTS INSTALLED	0		2	
# OF MISS UTILITY TICKETS	61		757	
# OF METERS READ	11		203	
# OF METERS SHUT OFF	0		48	
# OF METERS TURNED ON	0		46	
# OF REPLACED METERS	0		1	
# OF REPLACED REGISTERS	0		0	
# OF NEW ACC. METER INSTALLS	0		0	
# OF LEAK CHECKS	58		539	
# OF REPLACED MIUs (Radios)	9		167	
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	%

ACCOMPLISHMENTS

Equipment repairs
 Snow removal operations
 Cleaned Snow Removal equipment
 Stocked 250 tons of road salt in inventory
 Fire extinguisher inspections
 Fleet maintenance
 Facility maintenance-Paint ingress/egress access points in Maintenance shop
 Animal control issues
 Weekly cleaning/restocking of dog waste stations
 Weekly checking and emptying of public trash cans
 Implemented signage plan for 32nd/Main Streets Improvement Plan
 Troubleshoot Radar data collection sign issues
 Snow Removal operation repairs-damaged mailboxes, etc.
 Assisted tree contractor with removal of wood chips from removed dead trees at Reservoir
 Removed wood chips from ground stumps at Fireman's Field complex
 Community Garden Cleanup
 Hauled debris (Leaves and wood chips) to local recycling
 Removed dead trees at Maintenance facility
 Removed concrete footing and floors from demolished buildings at Village Case
 Relocated radar data collection signs per PD request
 Town Hall work orders-Deployed variable message boards
 Community event sign work orders
 Traffic and street sign repairs
 Marsh well-Removed trees in preparation for fence installation
 Removed fallen trees from access easement to wells on Aberdeen property
 Spring cleanup of all mowing locations
 Performed repairs to damaged dog waste station at Magnolia's/W&OD Trail
 Drainage repairs

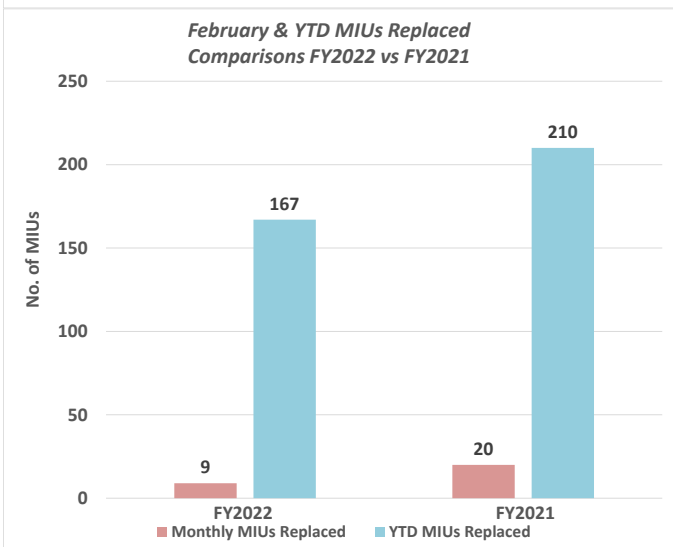
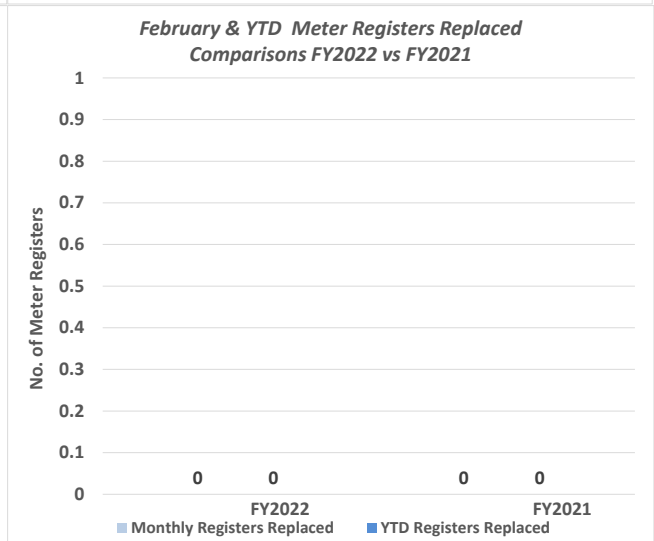
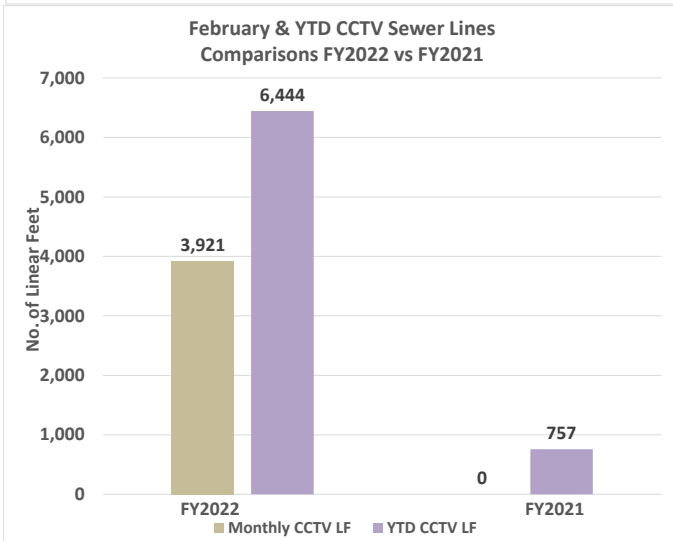
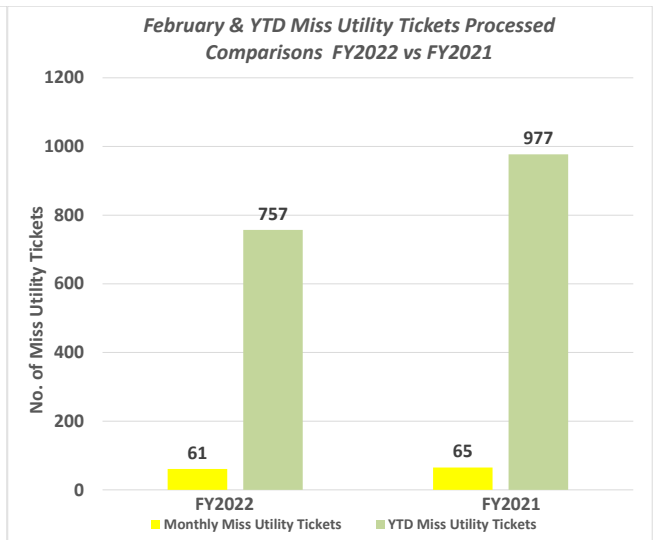
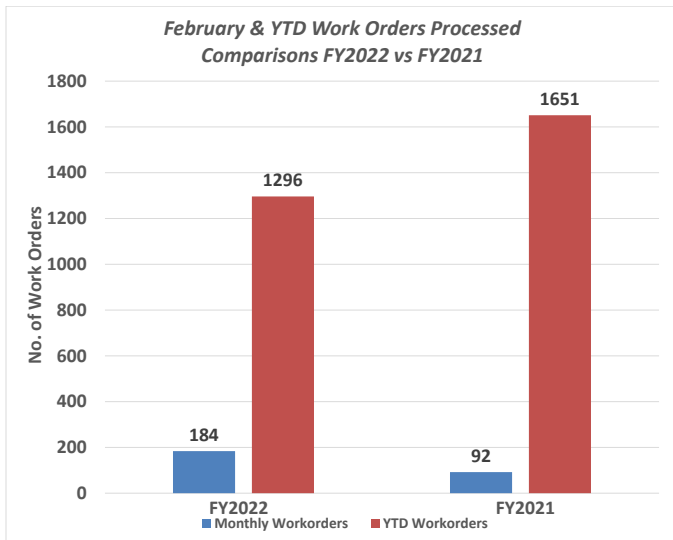
**MAINTENANCE DEPARTMENT
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FOR THE MONTH OF: FEBRUARY 2021
PREPARED: MARCH 2021**

MEASURE	MONTH	UNITS	FY YTD	UNITS
WORK ORDERS (W.O.) PROCESSED	92		1651	#
STAFF HOURS REQUIRED FOR W.O.	1108.98	HRS.	4029.41	HRS.
NON-CORE DUTIES HOURS	45	HRS.	440.5	HRS.
CD. MAN HOURS REQUIRED FOR WO	1063.98	HRS.	2986.41	HRS.
PM FIRE HYDRANTS	0		223	
FIRE HYDRANT REPAIR	0		2	
PM VALVE EXERCISED	0		0	
MANHOLE INSPECTIONS	0		179	
CCTV SEWER LINE	0	L. FT.	757	L. FT.
SEWER LINE CLEANED	0	L. FT.	509	L. FT.
SL RAT INSPECTIONS	0	L. FT.	35,134	L. FT.
VEHICLES SERVICED/REPAIRED	19		125	
# OF WATER BREAKS	0		3	
# OF SEWER BACKUPS	0		1	
# OF CLEANOUTS INSTALLED	0		0	
# OF MISS UTILITY TICKETS	65		977	
# OF METERS READ	16		216	
# 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	2		22	
# OF LEAK CHECKS	39		418	
# OF REPLACED MIUs (Radios)	20		210	
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	

ACCOMPLISHMENTS

Snow removal operations for six separate inclement weather events
 Cleaning and maintenance of all snow removal equipment
 Fleet Vehicle maintenance
 Installed 5G software upgrades in four radar collection signs
 Weekly cleaning/restocking of dog waste stations
 Weekly emptying of public trash cans as needed
 Maintenance facility office area maintenance
 Damaged Street sign repairs
 Equipment maintenance
 Right of way tree trimming on Brewster Court
 Painted the office area and break room at the WWTP
 Routine cleaning of Wastewater pump stations
 Performed daily Miss Utility checks
 Cleared multiple sewer backups

**Maintenance Department
2022 vs 2021 Comparisons**



**WATER TREATMENT PLANT
MONTHLY OPERATIONS REPORT
FOR THE MONTH OF: FEBRUARY 2022
PREPARED: MARCH 2022**

WATER	MONTH	UNITS	AVG./DAY	UNITS
ALUMINUM SULFATE	1,216.0	lbs.	43.4	lbs.
POLYMER				
METAPHOSPHATE	145.0	lbs.	5.2	lbs.
SODA ASH	1,199.8	lbs.	42.8	lbs.
FLUORIDE (WTP & WELLS)	164.2	lbs.	5.9	lbs.
POTASSIUM PERMANGANATE	21.4	lbs.	0.8	lbs.
CHLORINE (HYPOCHLORITE @ WTP)	234.4	lbs.	8.4	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	4,028,267	gals.	143,866.7	gals.
JEFFRIES WELL	0	gals.	0.0	gals.
WATER PLANT GALLONS	7,051,000	gals.	251,821.4	gals.
MARSH WELL	1,623,400	gals.	57,978.6	gals.
MOUNTAIN VIEW WELL	491,492	gals.	17,553.3	gals.
MAIN STREET VILLAGES WELLS (MS-1 & VC)	2,439,266	gals.	87,116.6	gals.
CORNWELL #2 WELL	1,499,477	gals.	53,552.8	gals.
FORBES WELL	821,626	gals.	29,343.8	gals.
KANE WELLS #1 and #2	2,491,200	gals.	88,971.4	gals.
TOTAL WATER FLOW	16,417,461	gals.	586,337.9	gals.

RESERVOIR LEVELS:	1-Feb-2022	28-Feb-2022
FRONT LAKE:	5.79'	5.9'
BACK LAKE	5.18'	5.3'

RAINFALL: 1.97"

ACCOMPLISHMENTS

VDH Inspection of Water Treatment Plant (2/24) and Wells (2/25)
VDH ODW Monthly Operating Report due 03/10 was submitted electronically on 03/10/2022.
Four Weekly Water Production Reports were completed.
Sara Tier II report submitted to VDEQ on 2/11/2022.

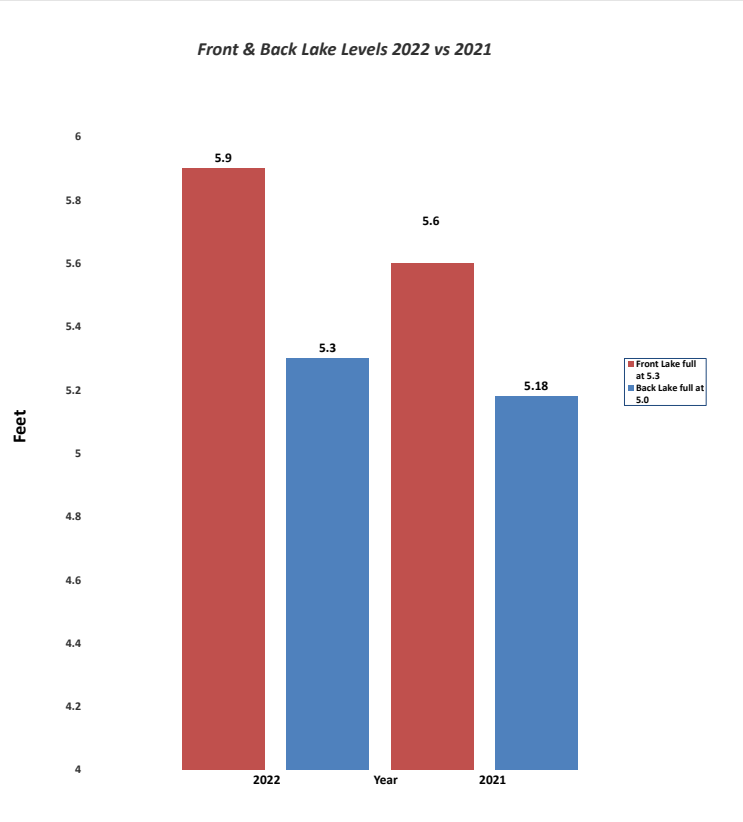
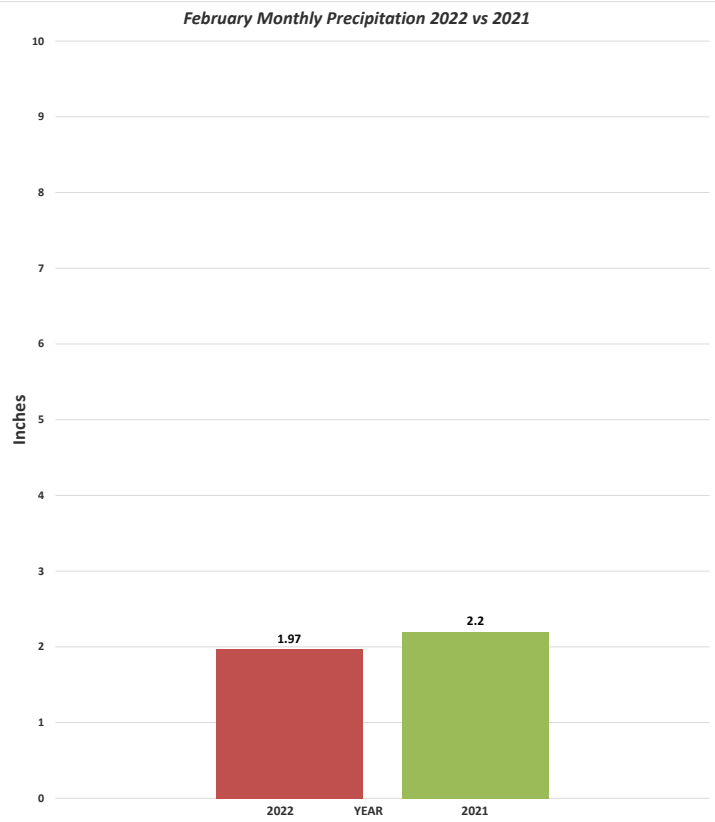
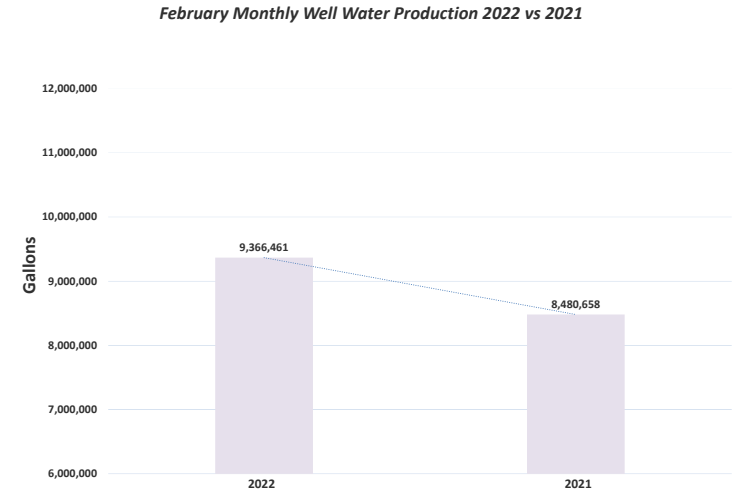
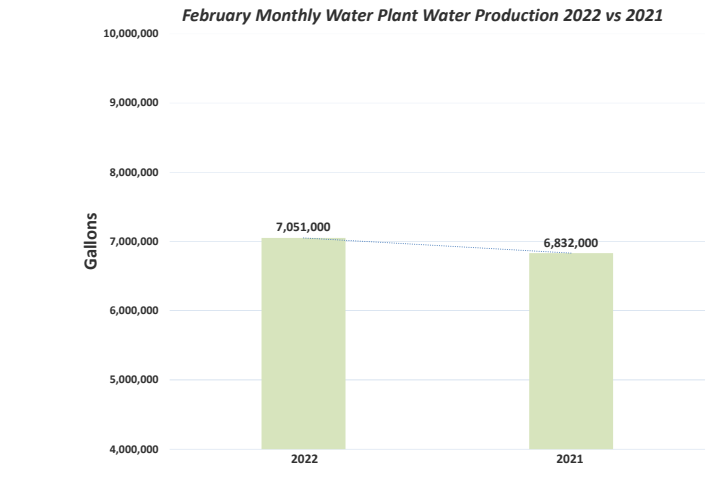
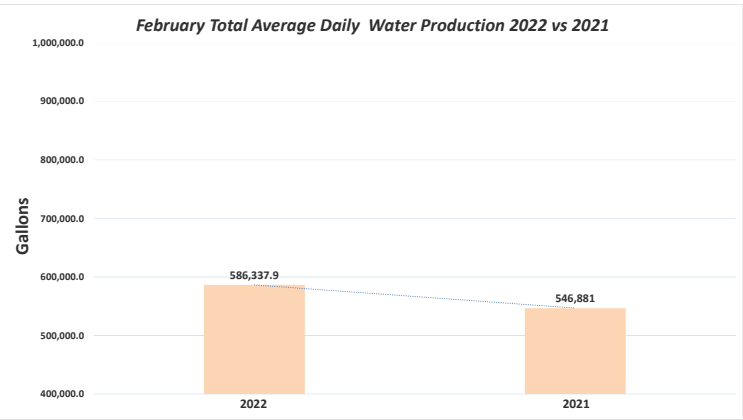
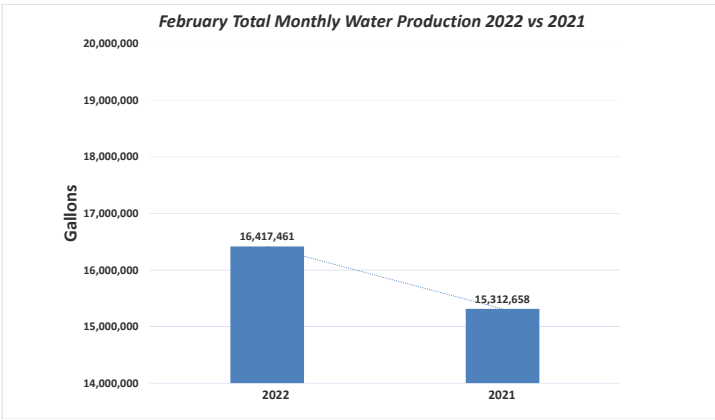
**WATER TREATMENT PLANT
MONTHLY OPERATIONS REPORT
FOR THE MONTH OF: FEBRUARY 2021
PREPARED: MARCH 2021**

WATER	MONTH	UNITS	AVG./DAY	UNITS
ALUMINUM SULFATE	990.8	lbs.	35.4	lbs.
POLYMER				
METAPHOSPHATE	93.4	lbs.	3.3	lbs.
SODA ASH	982.9	lbs.	35.1	lbs.
FLUORIDE (WTP & WELLS)	144.4	lbs.	5.2	lbs.
POTASSIUM PERMANGANATE	23.4	lbs.	0.8	lbs.
CHLORINE (HYPOCHLORITE @ WTP)	216.3	lbs.	7.7	lbs.
CHLORINE RESIDUAL (TANK)			1.9	mg/L
AVERAGE PH (FINISHED)			7.6	SU
BULK WATER SALES	-	gals.	0	gals.
INLINE METER, COOPER SPRINGS	4,061,333	gals.	145,048	gals.
JEFFRIES WELL	0	gals.	0	gals.
WATER PLANT GALLONS	6,832,000	gals.	244,000	gals.
MARSH WELL	1,804,100	gals.	64,432	gals.
MOUNTAIN VIEW WELL	324,024	gals.	11,572	gals.
MAIN STREET VILLAGES WELLS (MS-1 & VC)	2,083,945	gals.	74,427	gals.
CORNWELL #2 WELL	1,434,805	gals.	51,243	gals.
FORBES WELL	1,055,604	gals.	37,700	gals.
KANE WELLS #1 and #2	1,778,180	gals.	63,506	gals.
TOTAL WATER FLOW	15,312,658	gals.	546,881	gals.

RESERVOIR LEVELS:	1-Feb-2021	28-Feb-2021
FRONT LAKE:	5.85'	Full (gauge damaged)
BACK LAKE	5.00'	5.18'

RAINFALL: 2.2" (estimated)

Water Well Production Facilities
February 2022 vs 2021 Comparisons



**WATER RECLAMATION FACILITY
MONTHLY OPERATIONS REPORT
FOR February 2022
Prepared: March 2022**

**WATER RECLAMATION FACILITY
MONTHLY OPERATIONS REPORT
FOR February 2021
Prepared: March 2021**

MEASURE	MONTH	AVG./DAY
INFLUENT FLOW	16,102,900 GAL	575,100 GAL
EFFLUENT FLOW	15,521,300 GAL	554,300 GAL
MAXIMUM DAY INFLUENT	803,100 GAL	
FERRIC CHLORIDE	2,309 GAL	82 GAL
CITRIC ACID	- GAL	- GAL
SODIUM HYPOCHLORITE	180 GAL	23 GAL
METHANOL	587 GAL	21 GAL
RAIN	1.64 IN.	0.06 IN.

MONTHLY TOTAL NUTRIENT DISCHARGE		
TOTAL NITROGEN	29	LBS.
TOTAL NITROGEN YTD	99	LBS.
AVG. DAILY NITROGEN	0.23	MG/L
VPDES NITROGEN LIMIT	4.0	MG/L
TOTAL PHOSPHORUS	19	LBS.
TOTAL PHOSPHORUS YTD	45	LBS.
AVG. PHOSPHORUS DAILY	0.15	MG/L
VPDES PHOSPHORUS LIMIT	0.3	MG/L

NIA No information available at this time.

MEASURE	MONTH	AVG./DAY
INFLUENT FLOW	22,046,700 GAL	787,400 GAL
EFFLUENT FLOW	19,886,800 GAL	710,200 GAL
MAXIMUM DAY INFLUENT	1,340,500 GAL	
FERRIC CHLORIDE	2,365 GAL	84 GAL
CITRIC ACID	70 GAL	70 GAL
SODIUM HYPOCHLORITE	231 GAL	29 GAL
METHANOL	817 GAL	29 GAL
RAIN	4.20 IN.	0.14 IN.

MONTHLY TOTAL NUTRIENT DISCHARGE		
TOTAL NITROGEN	108	LBS.
TOTAL NITROGEN YTD	158	LBS.
AVG. DAILY NITROGEN	0.66	MG/L
VPDES NITROGEN LIMIT	4.0	MG/L
TOTAL PHOSPHORUS	21	LBS.
TOTAL PHOSPHORUS YTD	46	LBS.
AVG. PHOSPHORUS DAILY	0.13	MG/L
VPDES PHOSPHORUS LIMIT	0.3	MG/L

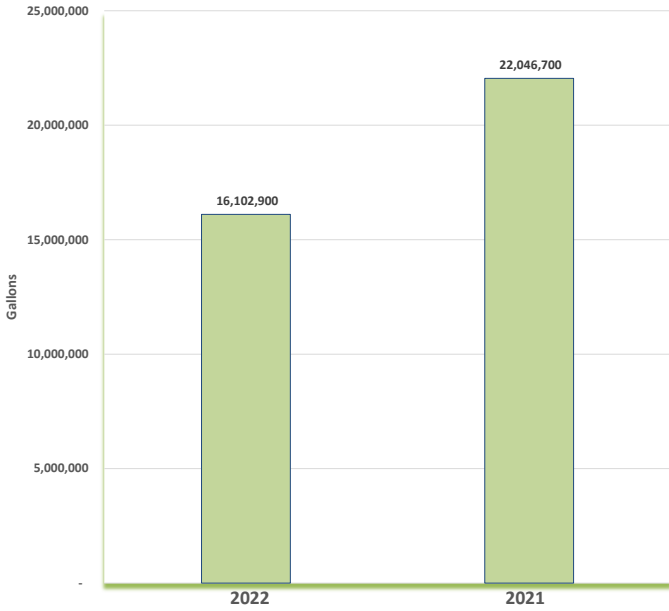
NIA No information available at this time.

ACCOMPLISHMENTS

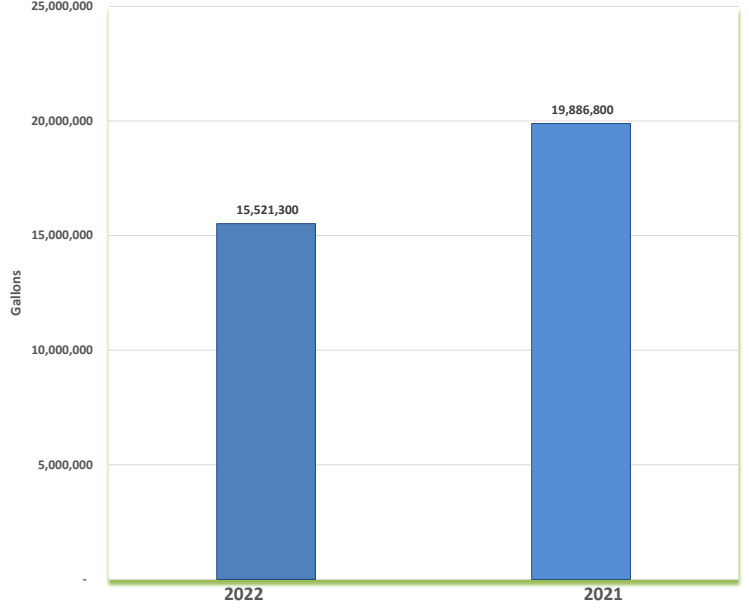
All Staff received training on (Plant Process) Coarse Screens, (Safety)Work Alone Protocol(Lab)D.O. Meter probe review, chemical contamination (Haz Mat) Spill Prevention Control & Countermeasures
Submitted VDEQ discharge monitoring report, Virginia's nutrient report, Bio-Solids Report to EPA & VDEQ

Basham Simms WWTF Historical Comparison 2022 vs 2021

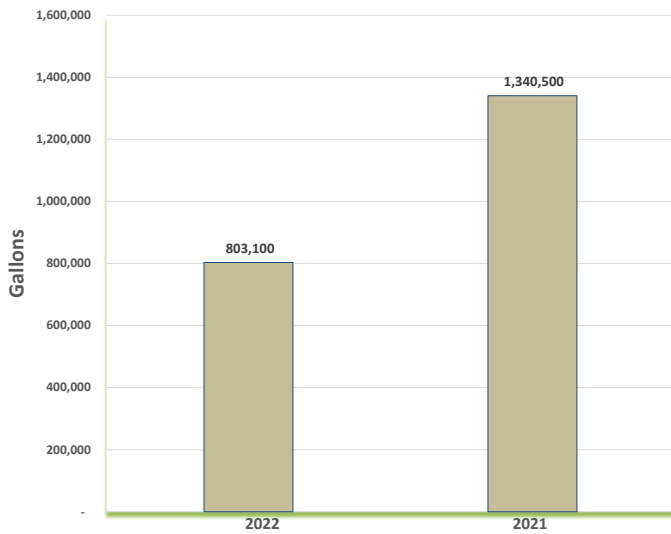
Influent Flows Comparisons 2022 vs 2021



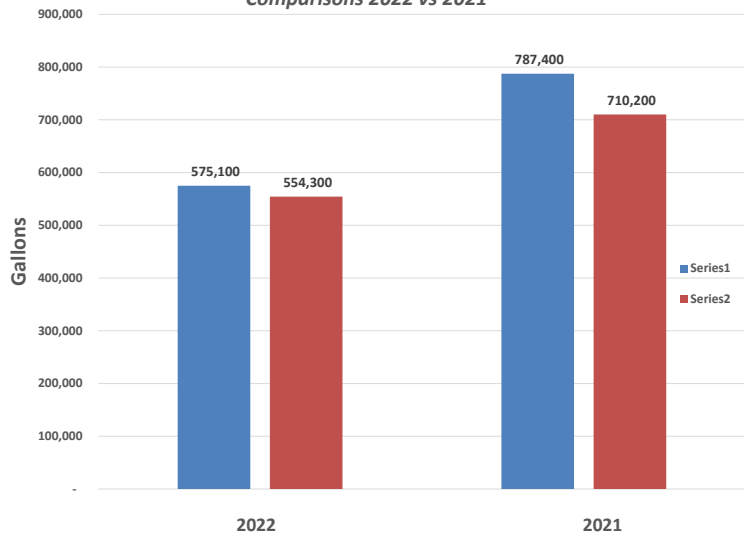
Effluent Flows Comparisons 2022 vs 2021



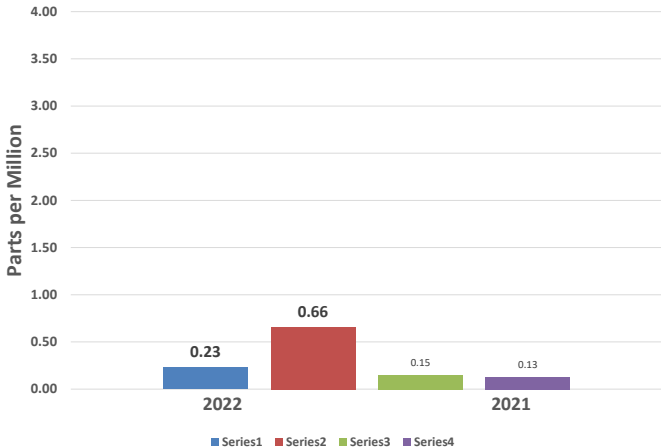
Max. Daily Flows Comparisons 2022 vs 2021



Average Day Influent & Effluent Flows Comparisons 2022 vs 2021



Average Daily Nitrogen & Phosphorus 2022 vs 2021



Monthly Precipitation 2022 vs 2021

