Jacksonville Environmental Protection Board
Environmental Quality Division Water Branch Report
May 20, 2024

Water Committee Meeting

The Water Committee met on April 22, 2024, and continued discussion of approaches to address surface water quality concerns in Duval County documented by EQD ambient water quality monitoring data. The discussion focused on staff presentation of data sources that could be of use to the Water Committee in evaluation and prioritization of potential actions.

Personnel

There are four (4) vacancies in the Water Branch:

- one (1) Stormwater Structures Inspector (SSI) in the Municipal Separate Storm Sewer System (MS4) Structural Controls Inspections Activity
- one (1) Environmental Quality Technician in the Ambient Water Quality Monitoring Section
- one (1) Environmental Specialists for the Storage Tanks Compliance Inspection Program.
- one (1) Environmental Specialist for the Hazardous Materials Emergency Response Activity

MyJax Service Requests

The following are the service requests received through the MyJax system in March 2024:

- Erosion – 1
- General Environmental Quality – 3
- Hazardous Material – 4
- Sewage – 12
- Stormwater – 7
- Unusual Dead Fish – 1
- Water – 3
- Watering – 1
- Wells – 1

Compliance Activity

The following investigations and inspections were performed during the month of March 2024

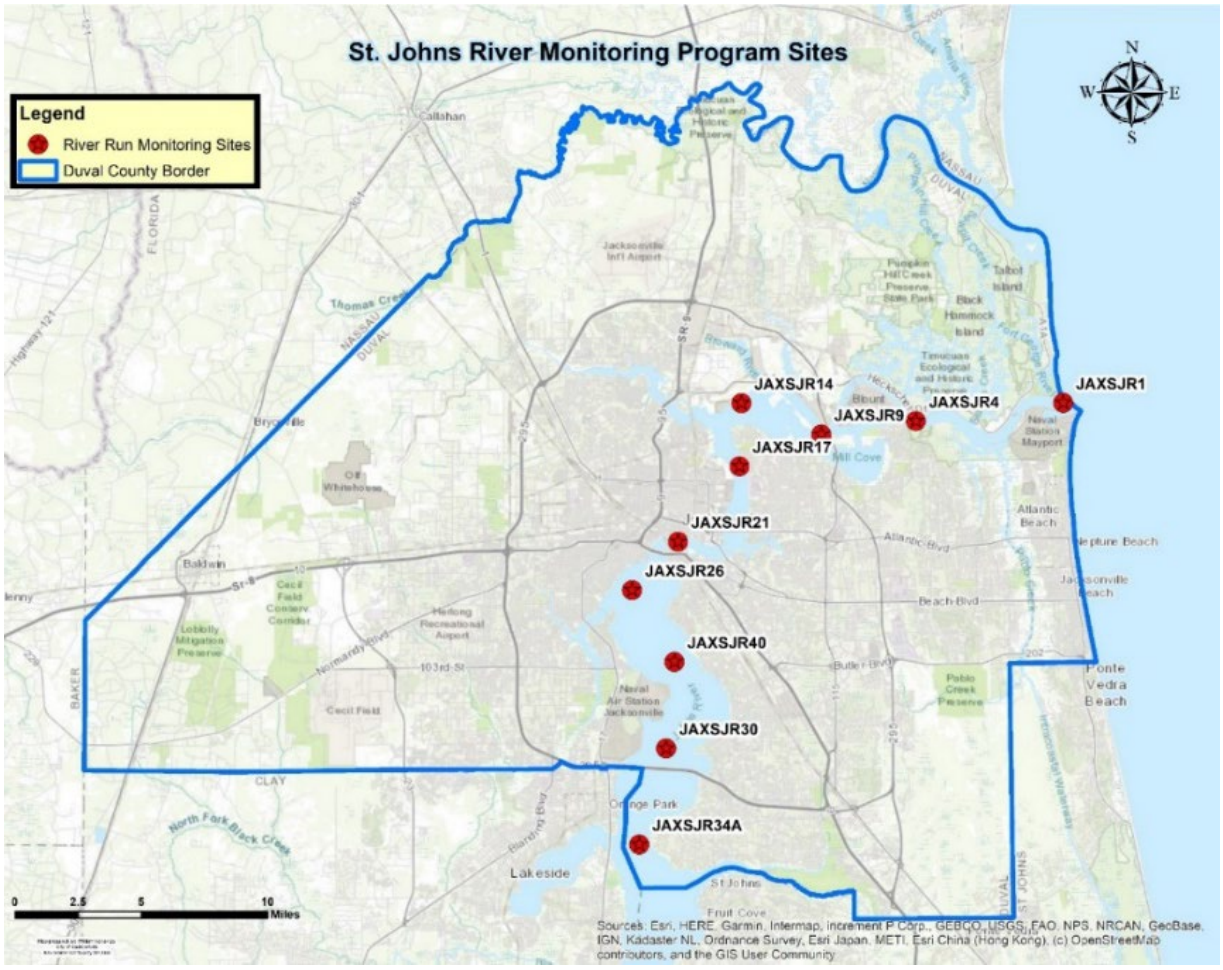
- Erosion and Sediment Control – 98
- Hazardous Materials Emergency Response – 11
- Hazardous Waste Generator – 27
- High Risk Facility – 16
- Illicit Discharge to MS4 – 8
- Pump Station – 18
- Storage Tanks – 75
- MS4 Structural Control – 1844
- Well – 8

Ambient Water Quality Monitoring (AWQM) Activity

The EQD ambient water quality monitoring (AWQM) activities facilitate surface water assessments by both FDEP and National Pollutant Discharge Elimination System co-permittees the cities of Jacksonville, Atlantic Beach, Neptune Beach, and the Florida Department of Transportation. EQD AWQM monitoring has evolved over the years to include various sampling projects (project types). There are 179 monitoring sites in the River Run, Timucuan, Routine Tributary Monitoring, Bacteria Pollution Control Plan, and Watershed Trend Monitoring, and special monitoring programs. The most currently available AWQM data for the River Run, Timucuan Run and Tributaries Monitoring Program follows:

River Run Ambient Water Quality Monitoring Stations

The River Run is a monthly sampling event consisting of 10 stations in the mainstem of the St. Johns River. The goals of this program are to monitor water quality trends for nutrients and to provide information used to assist FDEP in establishing Total maximum Daily Loads (TMDLs) for the lower St. Johns River in Duval County.



The analytical results for the most recent River Runs since the last Water Branch JEPB report are shown below.

March 12, 2024					
SITE	**Nitrate/Nitrite as N (N-N)**	**Total Kjeldahl Nitrogen (TKN)**	**Total Nitrogen**	**Total Phosphorus (TP)**	**Orthophosphate (o-P)**
JaxSJR1	0.012	0.306	0.318	0.035	0.011
JaxSJR4	0.06	0.278	0.338	0.045	0.014
JaxSJR9	0.142	0.329	0.471	0.077	0.041
JaxSJR14	0.209	0.533	0.742	0.085	0.054
JaxSJR17	0.27	0.731	1.001	0.101	0.059
JaxSJR21	0.299	0.787	1.086	0.13	0.055
JaxSJR26	0.285	0.799	1.084	0.096	0.053
JaxSJR30	0.256	0.681	0.937	0.078	0.048
JaxSJR34A	0.239	0.658	0.897	0.072	0.043
JaxSJR40	0.254	0.708	0.962	0.092	0.049

All results are in mg/L

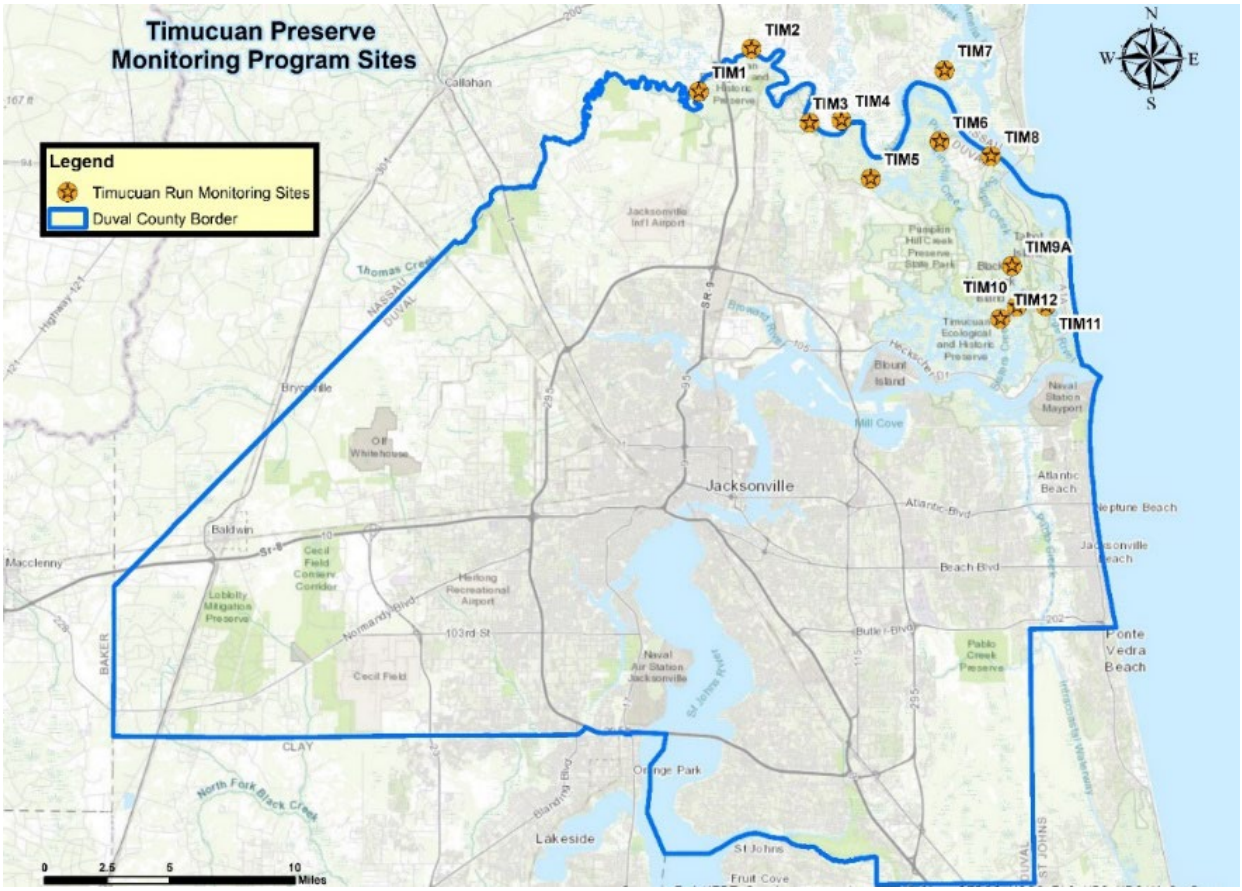
April 9, 2024					
SITE	**Nitrate/Nitrite as N (N-N)**	**Total Kjeldahl Nitrogen (TKN)**	**Total Nitrogen**	**Total Phosphorus (TP)**	**Orthophosphate (o-P)**
JaxSJR1	0.014	0.54	0.554	0.029	0.011
JaxSJR4	0.016	0.333	0.349	0.027	0.011
JaxSJR9	0.083	0.399	0.482	0.061	0.017
JaxSJR14	0.137	0.432	0.569	0.081	0.033
JaxSJR17	0.215	0.451	0.666	0.086	0.048
JaxSJR21	0.249	0.688	0.937	0.094	0.045
JaxSJR26	0.244	0.549	0.793	0.099	0.036
JaxSJR30	0.218	0.873	1.091	0.09	0.031
JaxSJR34A	0.199	0.735	0.934	0.082	0.03
JaxSJR40	0.171	0.821	0.992	0.089	0.023

All results are in mg/L

Timucuan Monitoring Sites

The Timucuan Program began in February 1997 and is a cooperative effort between the City of Jacksonville and the National Park Service (NPS). The purpose of this effort is to collect water quality data for the surface waters in and adjacent to the Timucuan Ecological and Historic Preserve.

The parameters measured are the same as for the River Run. Twelve sampling locations are monitored six (6) times per year.



The analytical results for the most recent Timucuan sampling since the last Water Branch JEPB report are shown below.

March 26 & 27, 2024					
SITE	**Nitrate/Nitrite as N (N-N)**	**Total Kjeldahl Nitrogen (TKN)**	**Total Nitrogen**	**Total Phosphorus (TP)**	**Orthophosphate (o-P)**
TIM1	0.057	0.96	1.01	0.17	0.09
TIM2	0.06	1.00	1.06	0.16	0.072
TIM3	0.016	0.43	0.45	0.074	0.027
TIM4	0.017	0.43	0.45	0.07	0.021
TIM5	0.014	0.45	0.46	0.07	0.016
TIM6	0.015	0.46	0.48	0.075	0.017
TIM7	0.018	0.33	0.35	0.053	0.015
TIM8	0.013	0.24	0.25	0.058	0.011
TIM9A	0.012	0.34	0.35	0.13	0.013
TIM10	0.012	0.18	0.19	0.042	0.016
TIM11	0.012	0.27	0.29	0.04	0.011
TIM12	0.012	0.19	0.20	0.043	0.012

All results are in mg/L

Recent Tributary Ambient Water Quality Monitoring Data

There are over 100 EQD AWQM tributaries monitoring sites. The two primary water quality parameters for tributary monitoring sites are dissolved oxygen and fecal coliform bacteria. The most recent tributary bacteria data are shown below.

The FDEP surface water quality standards for bacteria are:

- freshwater: *E. coli* – 410 MPN/100ml (follow-up source tracking investigation required for results >10,000)
- saltwater: *Enterococci* – 130 MPN/100ml

Ambient Water Quality Monitoring Project Types

BMAP1	Basin Management Action Plan I	Initial (2009) 10 tributaries based on a ranking method for severity of bacterial contamination
BMAP2	Basin Management Action Plan II	15 tributaries added (2010) based on a ranking method for severity of bacterial contamination
BPCP1	Bacteria Pollution Control Plan - Ribault River	Coordinated multi-stakeholder/multi-program efforts to reduce fecal indicator bacteria
BPCP2	Bacteria Pollution Control Plan - Strawberry Creek	Coordinated multi-stakeholder/multi-program efforts to reduce fecal indicator bacteria
INV	Investigation	Follow-up investigation based on extreme exceedance during monitoring for routine project types
MCC	McCoy Creek Study	Includes TRIB sites and Emerald Necklace study
TRIB	Tributary Monitoring	Long-standing tributary monitoring (since 1970s)
TRIB INT	Tributary Intensive Monitoring Program	Additional monitoring in BMAP tributaries
WTM	Watershed Trend Monitoring	Document trends in pollutant loadings for specific watersheds or outfalls.

Site ID	Project Type	Date	MPN/100ml	Analyte	Waterbody Name
BP67	Routine	4/24/2024	262	E. coli	Big Pottsburg Creek
BP71	Routine	4/24/2024	62	E. coli	Big Pottsburg Creek
CR427	Routine	4/16/2024	495	E. coli	Cedar Creek
CR428	Routine	4/17/2024	1014	E. coli	Cedar Creek
CR430	Routine	4/17/2024	350	E. coli	Cedar Creek
DR1	Routine	4/22/2024	2723	Enterococci	Deer Creek
DR2	Routine	4/22/2024	1246	E. coli	Deer Creek
HC3	Routine	4/22/2024	>24196	E. coli	Hogan Creek
Hogan Creek @ 6th St & Jefferson St	Routine	4/22/2024	>24196	E. coli	Hogan Creek
HC4	Follow-up	4/23/2024	1658	E. coli	Hogan Creek
Hogan Creek @ 6th Street & I-95	Follow-up	4/23/2024	1722	E. coli	Hogan Creek
Hogan Creek @ 8th Street	Follow-up	4/23/2024	749	E. coli	Hogan Creek
Hogan Creek @ 6th St & Jefferson St	Follow-up	4/23/2024	576	E. coli	Hogan Creek
HC3	Follow-up	4/23/2024	583	E. coli	Hogan Creek
HC1A	Follow-up	4/23/2024	1112	E. coli	Hogan Creek
COAB1	Routine	4/24/2024	1223	Enterococci	Hopkins Creek
IWWH	Routine	4/24/2024	30	Enterococci	Hopkins Creek
CR5	Routine	4/16/2024	6131	E. coli	Little Fishweir Creek
TR314	Routine	4/16/2024	1467	E. coli	Little Sixmile Creek
LB2	Routine	4/22/2024	>24196	E. coli	Long Branch
LB1	Routine	4/22/2024	>24196	Enterococci	Long Branch
LB1	Follow-up	4/23/2024	5475	Enterococci	Long Branch
LB2	Follow-up	4/23/2024	1785	E. coli	Long Branch
Long Branch @ Liberty Street	Follow-up	4/23/2024	1296	E. coli	Long Branch
Long Branch @ 27th Street	Follow-up	4/23/2024	1565	E. coli	Long Branch
Long Branch @ 23rd Street	Follow-up	4/23/2024	2282	E. coli	Long Branch
MC3	Routine	4/16/2024	759	E. coli	McCoy Creek
CLYDE	Routine	4/2/2024	754	E. coli	North Creek
45THST	Routine	4/1/2024	2282	E. coli	Palmdale Tributary
TR3	Routine	4/1/2024	473	E. coli	Palmdale Tributary
COAB3	Routine	4/25/2024	4106	E. coli	Puckett Creek
ARL3	Routine	4/24/2024	1725	E. coli	Red Bay Branch
WTW5	Routine	4/1/2024	9208	E. coli	Ribault River
TR137	Routine	4/1/2024	959	E. coli	Ribault River
RSDE	Routine	4/1/2024	987	E. coli	Ribault River
TR126	Routine	4/2/2024	75	Enterococci	Ribault River
TR128	Routine	4/2/2024	173	E. coli	Ribault River
TR129	Routine	4/2/2024	160	E. coli	Ribault River
TR133	Routine	4/2/2024	98	E. coli	Ribault River
VIRGINIA	Routine	4/2/2024	706	E. coli	Ribault River
WTW4	Routine	4/17/2024	3255	E. coli	Ribault River
COAB10	Routine	4/25/2024	146	E. coli	Sherman Creek
COAB12	Routine	4/25/2024	51	E. coli	Sherman Creek
COAB11	Routine	4/25/2024	10	E. coli	Sherman Creek
COAB2	Routine	4/25/2024	1722	E. coli	Sherman Creek
COAB4LS	Routine	4/25/2024	813	E. coli	Sherman Creek

Site ID	Project Type	Date	MPN/100ml	Analyte	Waterbody Name
TR422	Routine	4/17/2024	98	E. coli	Sixmile Creek
OLDKINGS	Routine	4/17/2024	218	E. coli	Sixmile Creek
TR23	Routine	4/17/2024	63	E. coli	Sixmile Creek
ARL325	Routine	4/24/2024	789	E. coli	Strawberry Creek
CR84	Routine	4/16/2024	>24196	E. coli	Williamson Creek
Wilson Blvd, East of School Zone	Investigation	4/18/2024	4884	E. coli	Williamson Creek
6217 Wilson Blvd JEA Lift Station	Investigation	4/18/2024	>24196	E. coli	Williamson Creek
6253 Wilson Boulevard Apartments	Investigation	4/18/2024	>24196	E. coli	Williamson Creek
Family Dollar on Wilson Boulevard	Investigation	4/18/2024	10462	E. coli	Williamson Creek
Wilson West @ Jammes Road	Investigation	4/18/2024	11199	E. coli	Williamson Creek
Jammes Rd, North of Wilson Blvd	Investigation	4/18/2024	>24196	E. coli	Williamson Creek
CR84	Investigation	4/18/2024	>24196	E. coli	Williamson Creek
CR21	Routine	4/16/2024	2723	E. coli	Wills Branch
CR22	Routine	4/17/2024	504	E. coli	Wills Branch

All results are in MPN/100mL

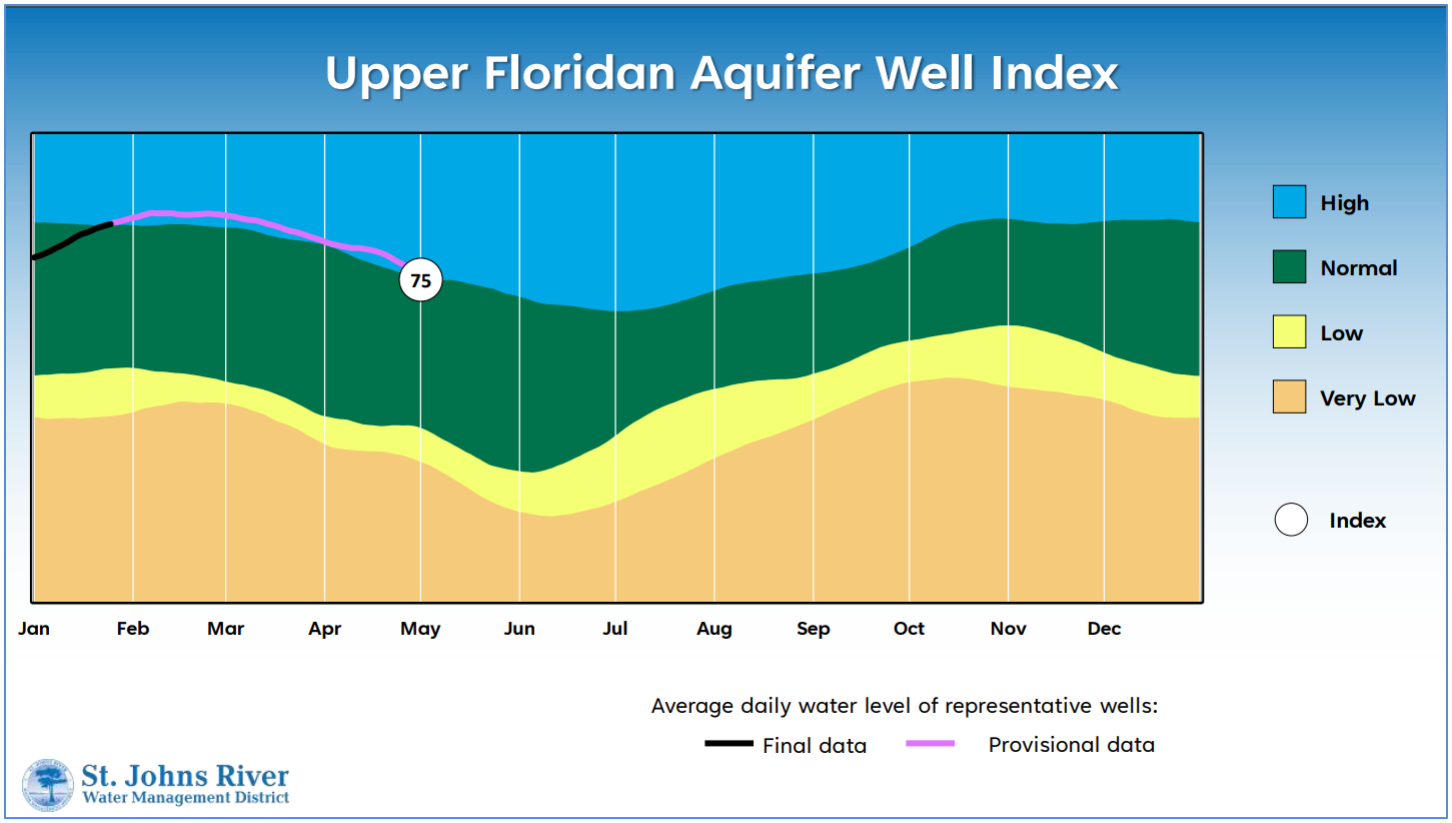
Supplemental Hydrogeological Data

The St. Johns River Water Management District (SJRWMD) Hydrologic Conditions Report which is prepared monthly by SJRWMD staff and presented to the SJRWMD Board can be accessed by using the link below:
https://www.sjrwmd.com/static/hydrologicdata/Hydrologic-Conditions-Report-2024-May-with-April-Data.pdf

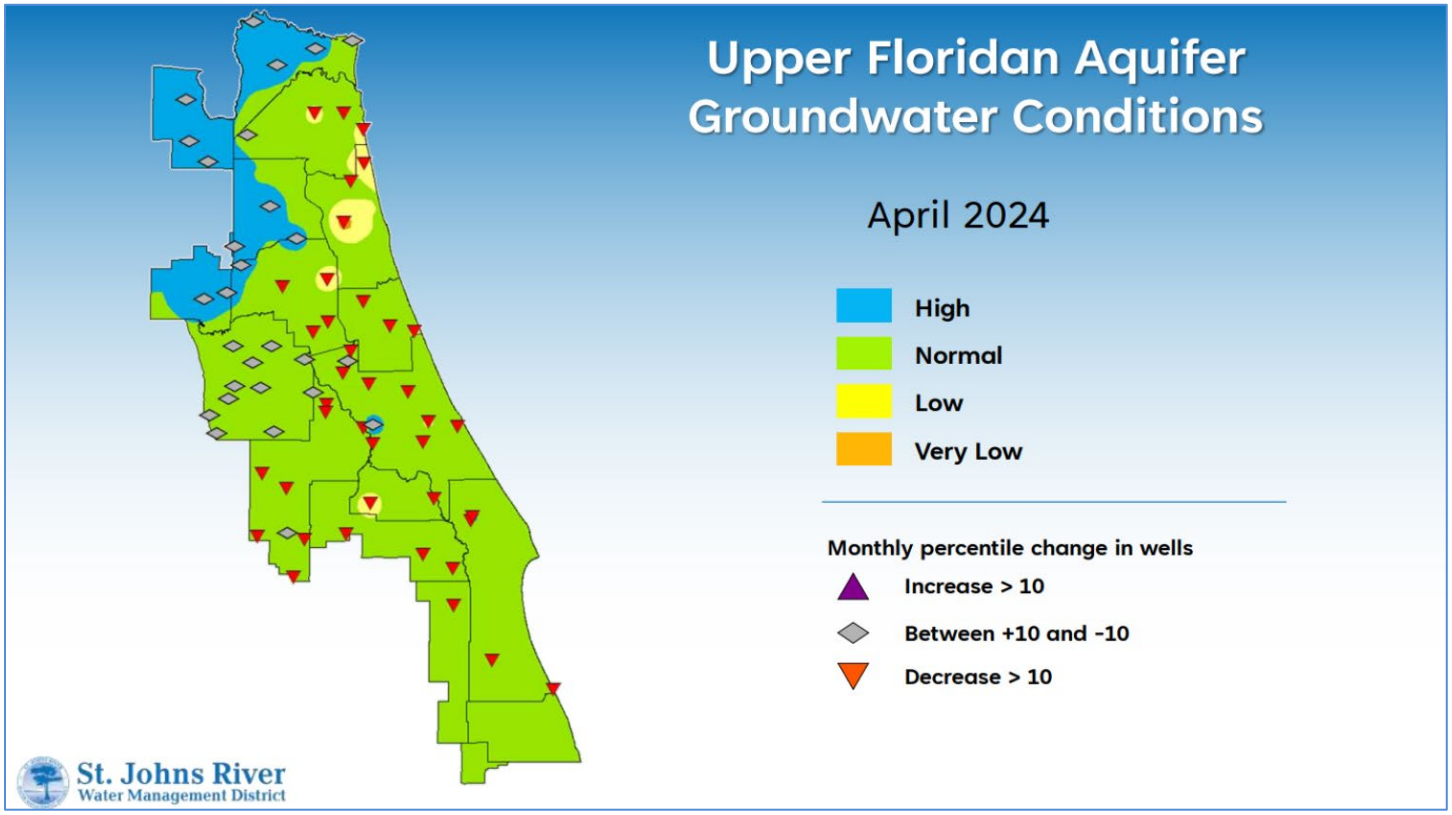
The SJRWMD Hydrologic Conditions Report includes a graphic display of the Upper Floridan Aquifer Well Index. Aquifer level measurements are evaluated using a monthly statistical framework based on percentiles of the monthly medians compiled over a period of record of many years for all of the monitoring wells used in the assessment.

For the slide below, the percentile value shown in the white “index” circle, the black line tracking the “final data” and the purple line tracking the “provisional data” is on a scale of 0 to 100 indicates the percentage with respect to the data over the period of record. For example, the value 62 in the white circle indicates that the aquifer index for December was higher than 62% of the indices for all Decembers in the period of record.

- A percentile greater than 75 is considered high (blue field).
- A percentile between 25 and 75 is considered normal (green field).
- A percentile between 10 and 25 is considered low (yellow field).
- A percentile less than 10 is considered very low (orange field).



This month's SJRWMD Hydrologic Conditions Report also contains a depiction of the monthly change in the Upper Floridan Groundwater Conditions in addition to drought indices as well as the usual slides for the Surface Water Flow Conditions and the Abandoned Artesian Well Plugging Program Update.



ENVIRONMENTAL PROTECTION BOARD
MAY WATER COMMITTEE MEETING
GROUNDWATER RESOURCE MANAGEMENT SECTION REPORT
APRIL 2024 DATA

Total Number of Wells Permitted: **205**

- Abandonment/Plugging 100 (49%)
- Domestic 58 (28%)
- Irrigation 11 (5%)
- Monitoring 34 (17%)
- Commercial/Industrial 1 (.5%)
- Public Water Supply 1 (.5%)

Total Number of Irrigation Wells Permitted: 11

- Surficial Aquifer System: 2 (19%)
- Intermediate Aquifer System-Hawthorn: 3 (27%)
- Floridan Aquifer System: 6 (6%)

Total Number of Domestic Potable & Public Supply Wells Permitted: 59

- Surficial Aquifer System: 39 (66%)
- Intermediate Aquifer System-Hawthorn: 14 (24%)
- Floridan Aquifer System: 6 (10%)

EQD Scorecard Data for FY 2024

Percentage of well permits issued within 5 working days for April: 95% average: 1.5 days

Well Related Complaints/Responses (Leaking, Damaged Wells): **1**

Irrigation/Watering Related Complaint Investigations: **1**

Irrigation/Watering Tickets Issued: **0**

Irrigation/Watering Related Information Requested: **0**

SJRWMD Floridan Aquifer Report April

Water levels in the Upper Floridan Aquifer Well Index rank at 75%.

SJRWMD Rainfall Summary Hydrologic Conditions Report April

Jacksonville received 1.93 inches of rainfall. The average rainfall is 2.62 inches.

Note: Daylight Savings Time began March 10th allowing twice a week landscape irrigation.

EQD Domestic and Public Supply Well Permitting Monthly Totals per Fiscal year - April 2024

Fiscal Year 2023-2024								Fiscal Year 2023-2024							
Month	Total Number of Domestic	Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System			Month	Total Number of Public	Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System		
		SAS	IAS	FAS	SAS	IAS	FAS			SAS	IAS	FAS	SAS	IAS	FAS
October	67	39	22	6	58%	33%	9%	October	0	0	0	0	0%	0%	0%
November	40	24	12	4	60%	30%	10%	November	1	1	0	0	100%	0%	0%
December	34	26	7	1	76%	21%	3%	December	2	0	0	2	0%	0%	100%
January	36	20	11	5	56%	31%	14%	January	0	0	0	0	0%	0%	0%
February	57	42	7	8	74%	12%	14%	February	2	0	0	2	0%	0%	100%
March	51	41	8	2	80%	16%	4%	March	0	0	0	0	0%	0%	0%
April	58	39	13	6	67%	22%	10%	April	1	0	1	0	0%	100%	0%
May								May							
June								June							
July								July							
August								August							
September								September							
Total for FY 2023-2024	343	231	80	32	67%	23%	9%	Total for FY 2023-2024	6	1	1	4	17%	17%	67%

Fiscal Year 2023-2024							
Month	Total Number of Domestic	Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System		
		SAS	IAS	FAS	SAS	IAS	FAS
October	67	39	22	6	58%	33%	9%
November	41	25	12	4	61%	29%	10%
December	36	26	7	3	72%	19%	8%
January	36	20	11	5	56%	31%	14%
February	59	42	7	10	71%	12%	17%
March	51	41	8	2	80%	16%	4%
April	59	39	14	6	66%	24%	10%
May							
June							
July							
August							
September							
Total for FY 2023-2024	349	232	81	36	66%	23%	10%

Permitted Irrigation Wells - Proposed Aquifer System Information
City of Jacksonville - EQD Well Permitting Program

Irrigation Well Aquifer Systems - Current & Historical

Fiscal Year 2023-2024								Fiscal Year 2022-2023							
		Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System					Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System		
Month	Total Number of Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS	Month	Total Number of Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS
October	10	5	1	4	50%	10%	40%	October	10	3	5	2	30%	50%	20%
November	13	1	2	10	8%	15%	77%	November	8	1	7	0	13%	88%	0%
December	14	5	3	6	36%	21%	43%	December	14	2	4	8	14%	29%	57%
Janaury	11	2	5	4	18%	45%	36%	Janaury	14	2	5	7	14%	36%	50%
February	14	1	8	5	7%	57%	36%	February	13	0	1	12	0%	8%	92%
March	5	1	4	0	20%	80%	0%	March	24	5	7	12	21%	29%	50%
April	11	2	3	6	18%	27%	55%	April	10	3	4	3	30%	40%	30%
May								May	20	4	7	9	20%	35%	45%
June								June	7	1	1	5	14%	14%	71%
July								July	16	1	3	12	6%	19%	75%
August								August	14	2	7	5	14%	50%	36%
September								September	8	2	3	3	25%	38%	38%
Total for FY 2023-2024 =	78	17	26	35	22%	33%	45%	Total for FY 2022-2023 =	158	26	54	78	16%	34%	49%

Fiscal Year 2021-2022								Fiscal Year 2020-2021							
		Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System					Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System		
Month	Total Number of Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS	Month	Total Number of Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS
October	8	2	5	1	25%	63%	13%	October	9	1	4	4	11%	44%	44%
November	12	2	6	4	17%	50%	33%	November	8	0	3	5	0%	38%	63%
December	9	8	1	0	89%	11%	0%	December	7	2	3	2	29%	43%	29%
Janaury	8	2	4	2	25%	50%	25%	Janaury	8	2	6	0	25%	75%	0%
February	10	4	3	3	40%	30%	30%	February	9	5	0	4	56%	0%	44%
March	14	2	0	12	14%	0%	86%	March	23	7	6	10	30%	26%	43%
April	22	2	11	9	9%	50%	41%	April	21	10	9	2	48%	43%	10%
May	22	2	9	11	9%	41%	50%	May	16	10	2	4	63%	13%	25%
June	15	4	1	10	27%	7%	67%	June	17	10	6	1	59%	35%	6%
July	13	1	6	6	8%	46%	46%	July	21	7	8	6	33%	38%	29%
August	21	5	2	14	24%	10%	67%	August	15	5	2	8	33%	13%	53%
September	18	5	3	10	28%	17%	56%	September	16	2	4	10	13%	25%	63%
Total for FY 2021-2022 =	172	39	51	82	23%	30%	48%	Total for FY 2020-2021 =	170	61	53	56	36%	31%	33%

Notes: SAS = Surficial Aquifer System
IAS = Intermediate Aquifer System (Hawthorn Group)
FAS = Floridan Aquifer System

Permitted Irrigation Wells - Proposed Aquifer System Information
City of Jacksonville - EQD Well Permitting Program

Fiscal Year 2019-2020								Fiscal Year 2018-2019							
		Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System					Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System		
Month	Total Number of Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS	Month	Total Number of Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS
October	22	9	5	8	41%	23%	36%	October	21	11	4	6	52%	19%	29%
November	14	2	6	6	14%	43%	43%	November	13	9	1	3	69%	8%	23%
December	4	2	0	2	50%	0%	50%	December	7	3	3	1	43%	43%	14%
Janaury	18	6	8	4	33%	44%	22%	Janaury	17	6	3	8	35%	18%	47%
February	23	9	2	12	39%	9%	52%	February	11	2	6	3	18%	55%	27%
March	14	7	4	3	50%	29%	21%	March	18	11	6	1	61%	33%	6%
April	4	1	3	0	25%	75%	0%	April	21	11	3	7	52%	14%	33%
May	13	4	8	1	31%	62%	8%	May	22	13	3	6	59%	14%	27%
June	29	13	10	6	45%	34%	21%	June	29	17	10	2	59%	34%	7%
July	19	9	6	4	47%	32%	21%	July	34	11	17	6	32%	50%	18%
August	11	5	2	4	45%	18%	36%	August	19	10	4	5	53%	21%	26%
September	14	4	7	3	29%	50%	21%	September	9	4	2	3	44%	22%	33%
Total for FY 2019-2020 =	185	71	61	53	38%	33%	29%	Total for FY 2018-2019 =	221	108	62	51	49%	28%	23%

Fiscal Year 2017-2018								Fiscal Year 2016-2017							
		Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System					Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System		
Month	Total Number of Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS	Month	Total Number of Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS
October	18	3	6	9	17%	33%	50%	October	25	13	5	7	52%	20%	28%
November	15	3	8	4	20%	53%	27%	November	20	12	2	6	60%	10%	30%
December	6	4	1	1	67%	17%	17%	December	30	19	4	7	63%	13%	23%
Janaury	17	9	3	5	53%	18%	29%	Janaury	26	11	4	11	42%	15%	42%
February	11	4	2	5	36%	18%	45%	February	35	20	5	10	57%	14%	29%
March	25	15	4	6	60%	16%	24%	March	54	31	13	10	57%	24%	19%
April	47	24	13	10	51%	28%	21%	April	57	35	9	13	61%	16%	23%
May	21	14	3	4	67%	14%	19%	May	72	45	16	11	63%	22%	15%
June	27	13	9	5	48%	33%	19%	June	73	38	14	21	52%	19%	29%
July	27	14	7	6	52%	26%	22%	July	29	15	11	3	52%	38%	10%
August	23	8	9	6	35%	39%	26%	August	25	17	1	7	68%	4%	28%
September	11	6	1	4	55%	9%	36%	September	6	4	0	2	67%	0%	33%
Total for FY 2017-2018 =	248	117	66	65	47%	27%	26%	Total for FY 2016-2017 =	452	260	84	108	58%	19%	24%

Notes: SAS = Surficial Aquifer System
IAS = Intermediate Aquifer System (Hawthorn Group)
FAS = Floridan Aquifer System

Permitted Irrigation Wells - Proposed Aquifer System Information
City of Jacksonville - EQD Well Permitting Program

Fiscal Year 2015-2016								Fiscal Year 2014-2015							
	Total Number of	Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System				Total Number of	Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System		
Month	Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS	Month	Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS
October	13	9	2	2	69%	15%	15%	October	11	2	5	4	18%	45%	36%
November	15	10	1	4	67%	7%	27%	November	10	4	3	3	40%	30%	30%
December	11	6	2	3	55%	18%	27%	December	9	1	1	7	11%	11%	78%
Janaury	10	7	0	3	70%	0%	30%	Janaury	10	4	2	4	40%	20%	40%
February	14	9	1	4	64%	7%	29%	February	16	11	2	3	69%	13%	19%
March	23	19	1	3	83%	4%	13%	March	33	16	8	9	48%	24%	27%
April	38	19	9	10	50%	24%	26%	April	25	13	4	8	52%	16%	32%
May	42	26	8	8	62%	19%	19%	May	27	21	3	3	78%	11%	11%
June	33	22	4	7	67%	12%	21%	June	30	20	7	3	67%	23%	10%
July	47	29	12	6	62%	26%	13%	July	54	34	10	10	63%	19%	19%
August	35	22	8	6	63%	23%	17%	August	20	13	3	4	65%	15%	20%
September	40	21	10	9	53%	25%	23%	September	15	10	1	4	67%	7%	27%
Total for FY 2015-2016 =	321	199	58	65	62%	18%	20%	Total for FY 2014-2015 =	260	149	49	62	57%	19%	24%

Fiscal Year 2013-2014								Fiscal Year 2012-2013							
	Total Number of	Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System				Total Number of	Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System		
Month	Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS	Month	Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS
October	17	11	1	5	65%	6%	29%	October	20	12	3	5	60%	15%	25%
November	9	3	2	4	33%	22%	44%	November	12	7	1	4	58%	8%	33%
December	5	2	1	2	40%	20%	40%	December	14	4	3	7	29%	21%	50%
Janaury	11	4	2	5	36%	18%	45%	Janaury	15	7	3	5	47%	20%	33%
February	16	10	3	3	63%	19%	19%	February	32	19	3	10	59%	9%	31%
March	14	6	3	5	43%	21%	36%	March	26	13	8	5	50%	31%	19%
April	31	18	5	8	58%	16%	26%	April	46	34	6	6	74%	13%	13%
May	26	16	6	4	62%	23%	15%	May	41	37	2	2	90%	5%	5%
June	24	17	4	3	71%	17%	13%	June	32	26	5	1	81%	16%	3%
July	20	13	4	3	65%	20%	15%	July	20	15	4	1	75%	20%	5%
August	15	8	5	2	53%	33%	13%	August	28	16	7	5	57%	25%	18%
September	12	2	2	8	17%	17%	67%	September	21	12	4	5	57%	19%	24%
Total for FY 2013-2014 =	200	110	38	52	55%	19%	26%	Total for FY 2012-2013 =	307	202	49	56	66%	16%	18%

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Permitted Irrigation Wells - Proposed Aquifer System Information
City of Jacksonville - EQD Well Permitting Program

Fiscal Year 2011-2012																	
	Total Number of	Number of Wells per Aquifer System			Percentage of Wells Per Aquifer System												
Month	Irrigation Wells	SAS	IAS	FAS	SAS	IAS	FAS										
October	15	9	3	3	60%	20%	20%										
November	15	6	4	5	40%	27%	33%										
December	9	8	1	0	89%	11%	0%										
Janaury	24	11	3	10	46%	13%	42%										
February	36	22	6	8	61%	17%	22%										
March	63	49	7	7	78%	11%	11%										
April	80	61	7	12	76%	9%	15%										
May	74	56	6	12	76%	8%	16%										
June	35	22	5	8	63%	14%	23%										
July	34	24	4	6	71%	12%	18%										
August	26	16	1	9	62%	4%	35%										
September	16	7	5	4	44%	31%	25%										
Total for FY 2011-2012 =	427	291	52	84	68%	12%	20%										

Notes: SAS = Surficial Aquifer System
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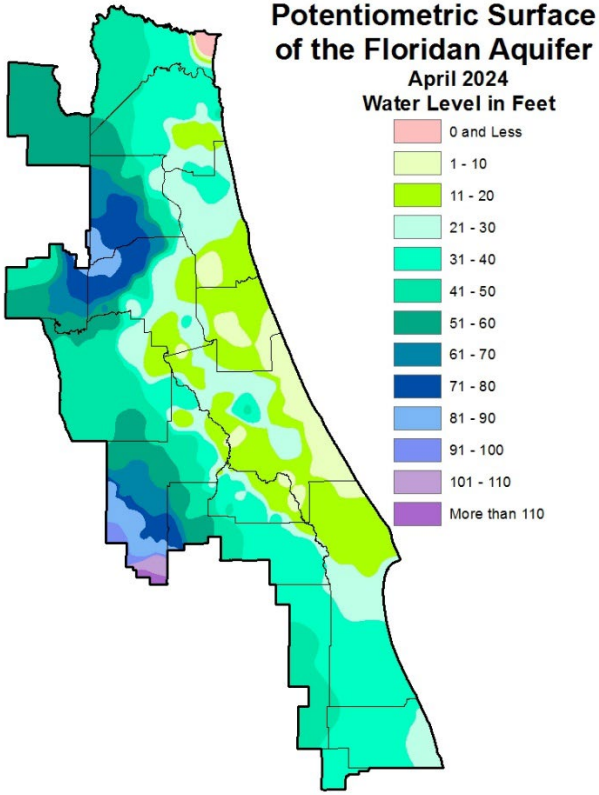
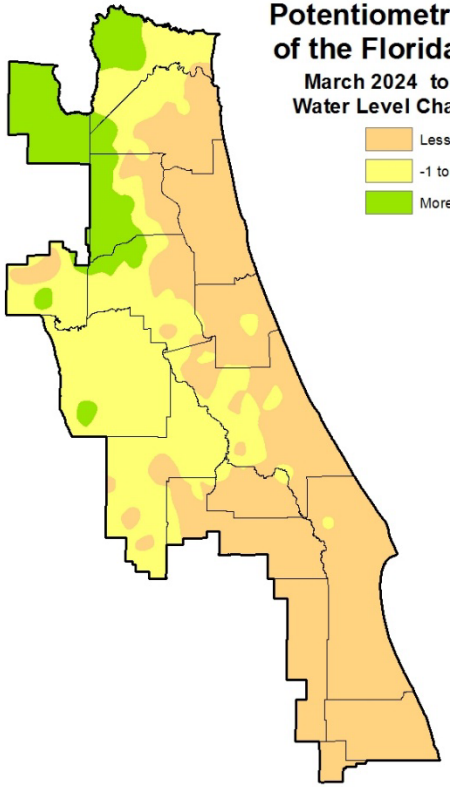
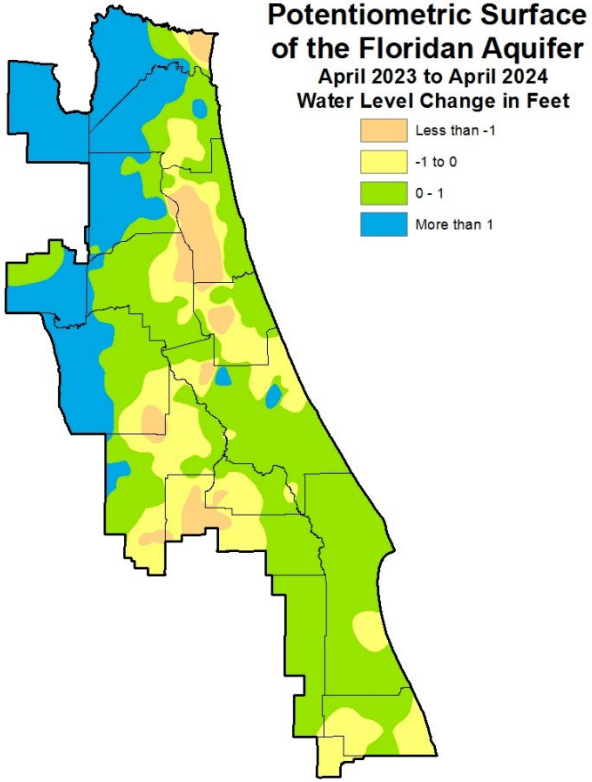
EQD Well Permitting Program
Monthly Permitting Totals per Fiscal Year

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
October	74	91	114	76	95	104	130	81	135	133	127	204	179
November	93	88	68	66	88	85	121	89	123	91	205	134	266
December	52	91	56	74	79	124	84	81	67	94	151	212	127
January	92	108	89	87	106	108	125	115	129	194	228	193	144
February	95	109	81	71	112	118	117	90	121	124	254	228	196
March	144	104	86	105	109	154	123	111	81	162	258	224	174
April	160	150	102	73	133	126	163	135	67	185	251	220	205
May	145	129	99	105	148	156	124	127	56	166	374	212	
June	95	102	110	88	129	178	131	149	127	266	228	194	
July	110	97	103	112	113	91	115	131	116	175	172	174	
August	105	98	90	107	139	95	98	131	66	173	202	160	
September	82	98	88	102	111	101	105	111	87	184	108	148	
Total Wells Permitted =	**1247**	**1265**	**1086**	**1066**	**1362**	**1440**	**1436**	**1351**	**1175**	**1947**	**2558**	**2303**	**1291**
Wells Permitted April =	**710**	**741**	**596**	**552**	**722**	**819**	**863**	**702**	**723**	**983**	**1474**	**1415**	**1291**

Aquifer Levels – April 2024



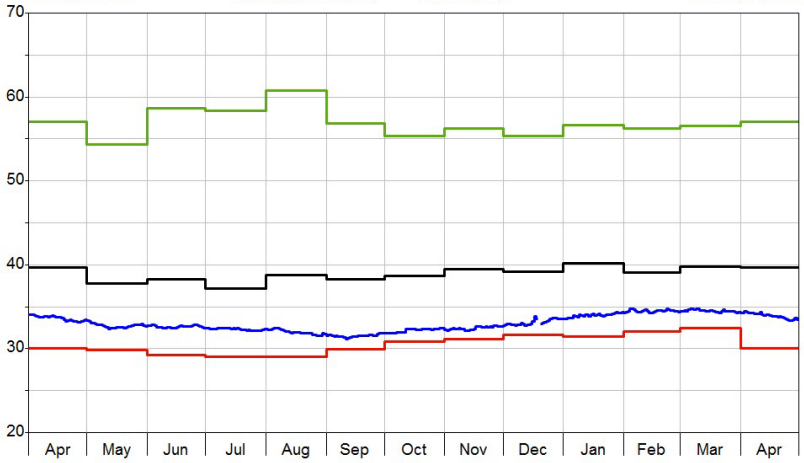




Well Water Levels – April 2024

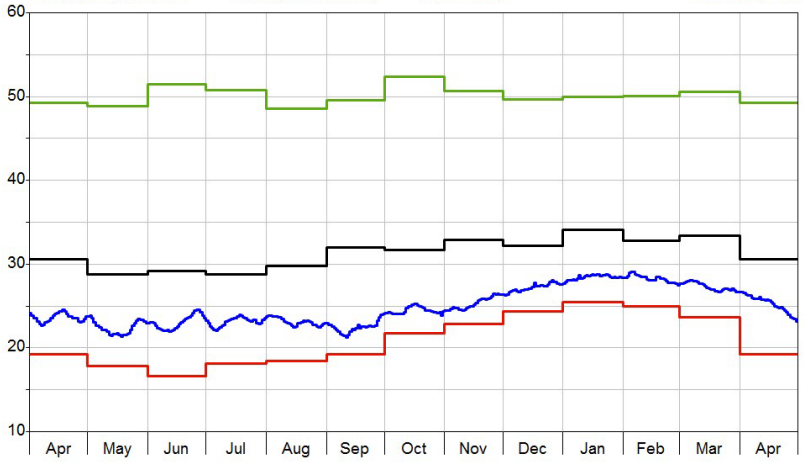
Note: This graph is based on provisional data that are subject to revision.

– Panama Pk	Elev. (feet NAVD88)	Max of Monthly Maximums	MONTH
– Panama Pk	Elev. (feet NAVD88)	Avg of Monthly Averages	MONTH
– Panama Pk	Elev. (feet NAVD88)	Min of Monthly Minimums	MONTH
– Panama Pk	Elev. (feet NAVD88)	Continuous	EOMGRAPHS



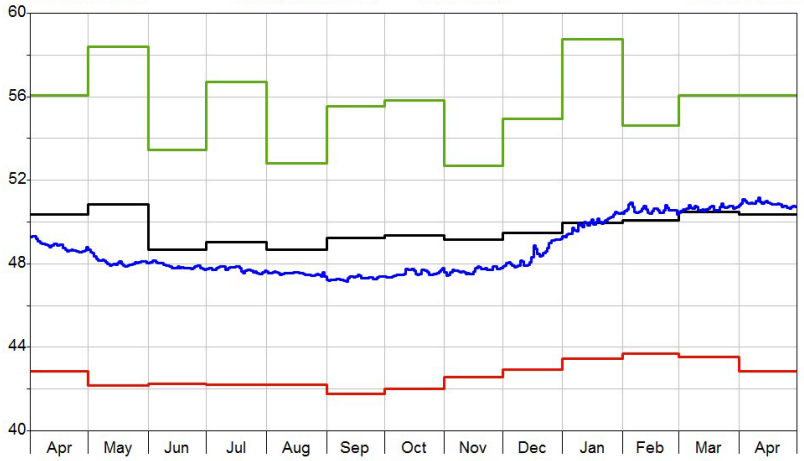
Note: This graph is based on provisional data that are subject to revision.

– City of Neptune Bch	Elev. (feet NAVD88)	Max of Monthly Maximums	MONTH
– City of Neptune Bch	Elev. (feet NAVD88)	Avg of Monthly Averages	MONTH
– City of Neptune Bch	Elev. (feet NAVD88)	Min of Monthly Minimums	MONTH
– City of Neptune Bch	Elev. (feet NAVD88)	Continuous	EOMGRAPHS



Note: This graph is based on provisional data that are subject to revision.

– Seaboard RR	Elev. (feet NAVD88)	Max of Monthly Maximums	MONTH
– Seaboard RR	Elev. (feet NAVD88)	Avg of Monthly Averages	MONTH
– Seaboard RR	Elev. (feet NAVD88)	Min of Monthly Minimums	MONTH
– Seaboard RR	Elev. (feet NAVD88)	Continuous	EOMGRAPHS



SJRWMD Rainfall Summary Hydrologic Conditions Report - April 2024

NAME	MONTHLY_TOTAL	MONTHLY_AVERAGE	MONTHLY_DEPARTURE	PRIOR_MONTHS_TOTAL	PRIOR_MONTHS_AVERAGE	PRIOR_MONTHS_DEPARTURE
Alachua	3.368	2.91	0.458	54.024	51.67	2.354
Baker	3.49	3.1	0.39	59.197	53.2	5.997
Bradford	2.814	2.69	0.124	56.125	49.58	6.545
Brevard	0.996	2.17	-1.174	52.13	50.24	1.89
Clay	3.137	2.44	0.697	54.992	48.32	6.672
Duval	1.927	2.62	-0.693	54.505	50.57	3.935
Flagler	2.373	2.68	-0.307	56.328	52.04	4.288
Indian River	0.556	2.67	-2.114	57.912	53.63	4.282
Lake	1.782	2.59	-0.808	53.045	50.49	2.555
Marion	2.264	2.76	-0.496	58.975	52.1	6.875
Nassau	3.786	2.94	0.846	55.848	51.27	4.578
Okeechobee	0.817	2.45	-1.633	49.744	48.82	0.924
Orange	1.433	2.53	-1.097	51.829	51.72	0.109
Osceola	1.221	2.3	-1.079	49.97	49.19	0.78
Putnam	2.656	2.76	-0.104	55.63	50.64	4.99
Seminole	1.468	2.38	-0.912	55.166	51.9	3.266
St. Johns	3.202	2.62	0.582	56.756	51.24	5.516
Volusia	1.777	2.5	-0.723	60.229	51.06	9.169
District	2.135	2.6	-0.465	55.555	51.01	4.545