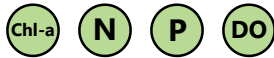


Curry Creek Condition Report for 2023



PASS



4 out of 4
indicators
were rated as
PASS.

All four indicators must pass for the creek to be rated as
PASS.

Size: 6,399 acres

Location: Central Sarasota County

Discharges into: Roberts Bay (Venice)

For more information, please see: **Curry Creek
Basin Master Plan Update, Venice County
Model (2001).**

[View county-wide water quality trends >>](#)

Curry Creek



Water Chemistry Ratings | Freshwater Portion of the Creek

Creek Conditions Ratings are based on comparing nitrogen, phosphorus, chlorophyll and dissolved oxygen to water quality guidelines or regulations. Florida law defines a maximum allowable concentration of nitrogen, phosphorus, and chlorophyll *a*, and a minimum allowable concentration of dissolved oxygen in these streams.

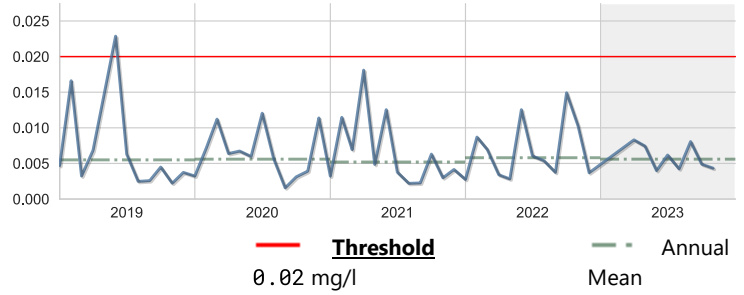


Chlorophyll a

Score: Pass

Units: mg/l	Year 2023	Historical period of record
High	0.0157	0.132
Mean	0.0056	0.0069
Low	0.0014	0.0003
No. of Samples	15	636

Five-year Rolling Average

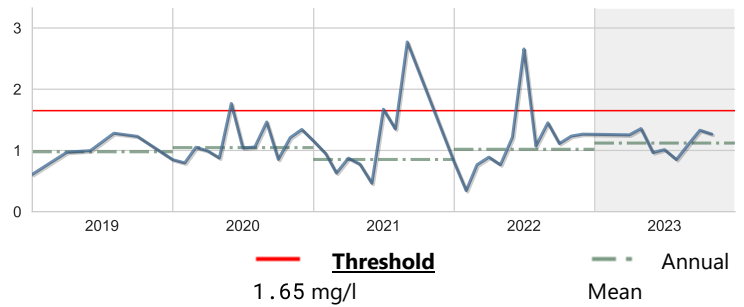


Nitrogen, Total

Score: Pass

Units: mg/l	Year 2023	Historical period of record
High	1.495	3.155
Mean	1.1207	1.0744
Low	0.757	0.117
No. of Samples	15	536

Five-year Rolling Average



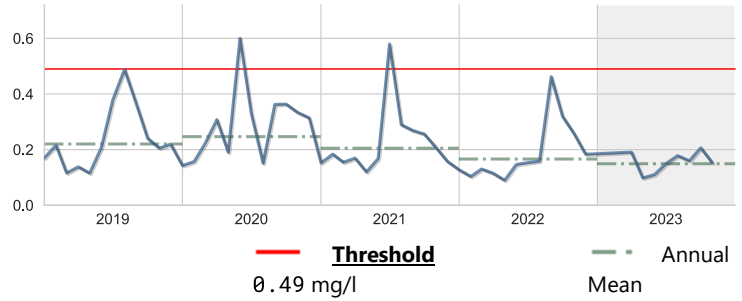


Phosphorus, Total

Score: Pass

Units: mg/l	Year 2023	Historical period of record
High	0.217	0.885
Mean	0.1492	0.2395
Low	0.064	0.043
No. of Samples	15	577

Five-year Rolling Average



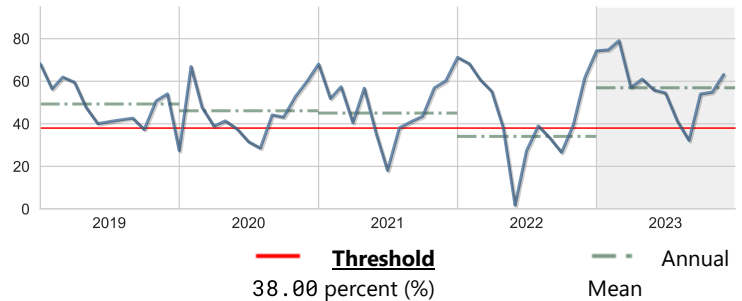
Dissolved Oxygen Saturation

Note: Low DO saturation also may be naturally influenced by inflows from nearby wetlands or groundwater sources.

Score: Pass

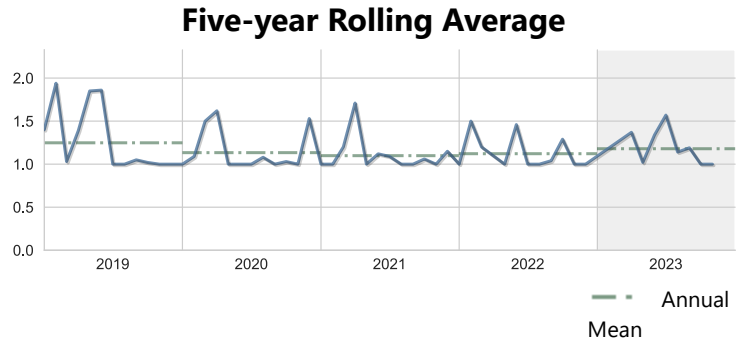
Units: percent (%)	Year 2023	Historical period of record
High	95.404	166.80
Mean	56.92	52.05
Low	29.8854	1.3632
No. of Samples	23	652

Five-year Rolling Average



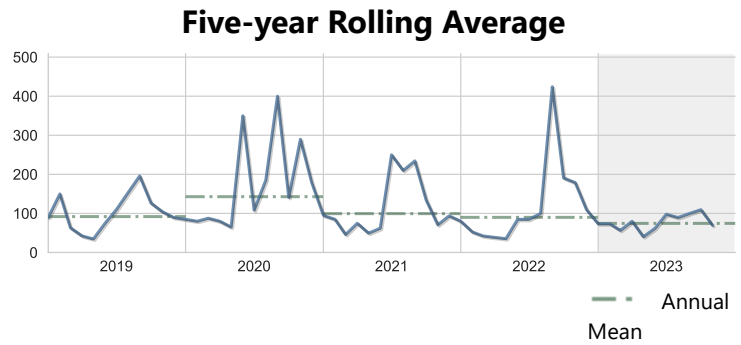
BOD, Biochemical oxygen demand

Units: mg/l	Year 2023	Historical period of record
High	1.79	6.58
Mean	1.18	1.32
Low	1.00	0.50
No. of Samples	15	494



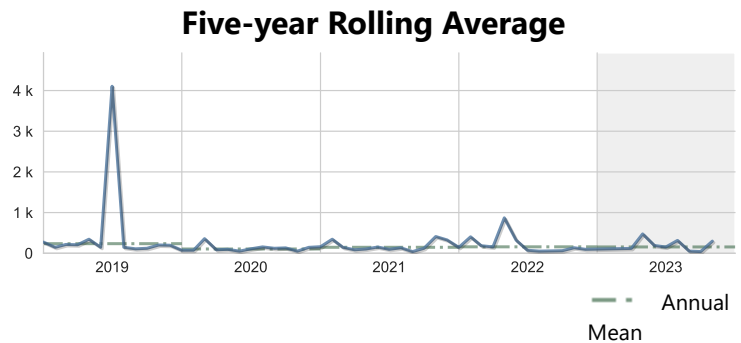
Color

Units: PCU	Year 2023	Historical period of record
High	120.00	450.00
Mean	74.5	108.34
Low	25.00	5.00
No. of Samples	21	691



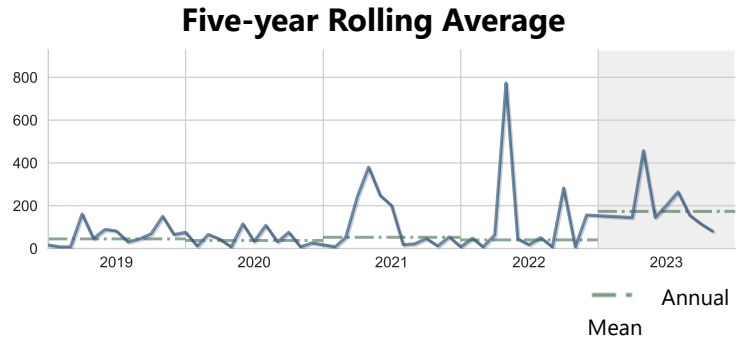
Escherichia coli

Units: cfu/100ml	Year 2023	Historical period of record
High	476.00	4106.00
Mean	155.02	160.13
Low	41.00	10.00
No. of Samples	8	134



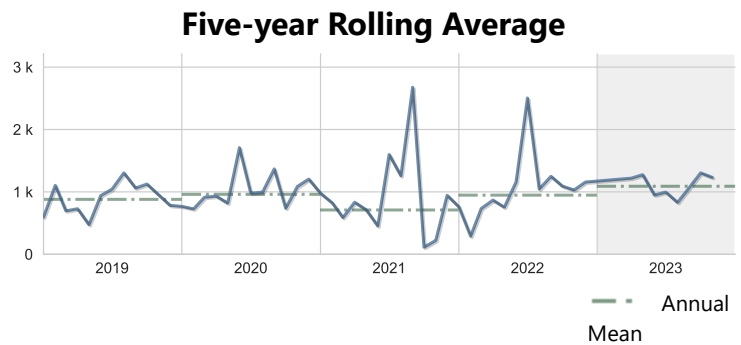
Nitrogen, Ammonia + Ammonium as N

Units: ug/l	Year 2023	Historical period of record
High	681.00	25570.00
Mean	173.57	22.81
Low	28.00	0.00
No. of Samples	15	651



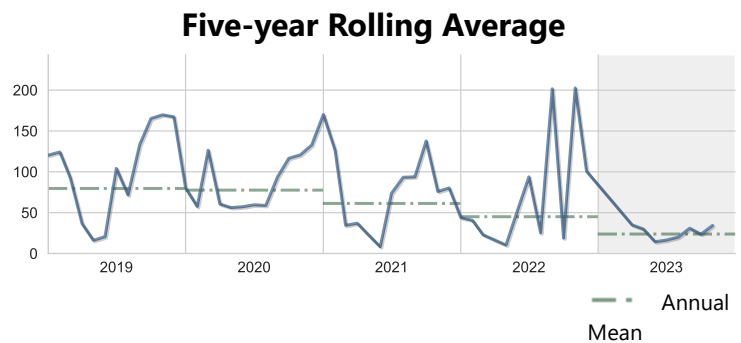
Nitrogen, Kjeldahl

Units: ug/l	Year 2023	Historical period of record
High	1460.00	26190.00
Mean	1089.94	1038.53
Low	737.00	50.00
No. of Samples	15	617



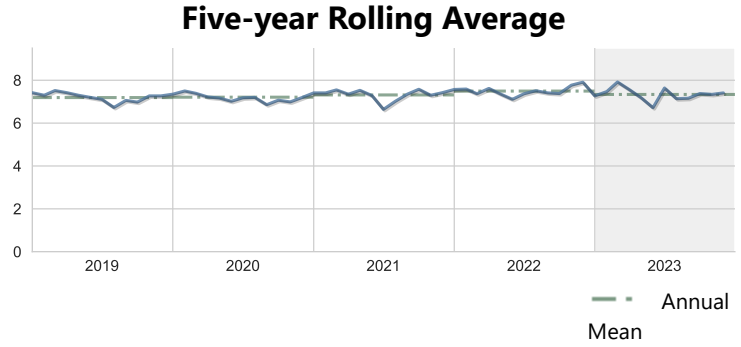
Nitrogen, Nitrite + Nitrate as N

Units: ug/l	Year 2023	Historical period of record
High	150.00	790.00
Mean	23.83	58.89
Low	6.00	0.00
No. of Samples	15	582



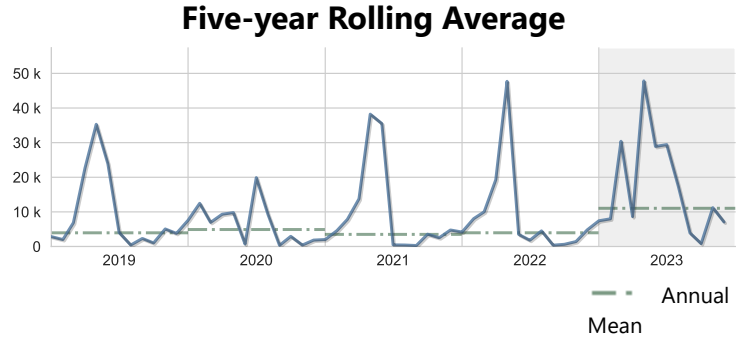
pH

Units: None	Year 2023	Historical period of record
High	8.13	8.90
Mean	7.34	7.56
Low	6.45	5.52
No. of Samples	23	4,367



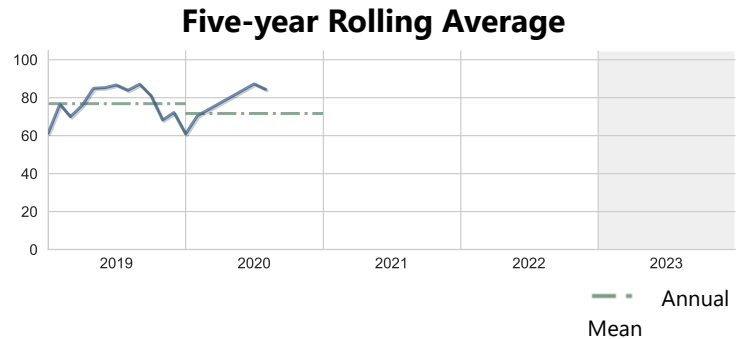
Specific conductance

Units: umho	Year 2023	Historical period of record
High	56988.90	61277.60
Mean	11039.21	15630.22
Low	449.028	0.286
No. of Samples	23	4,335



Temperature, water

Units: deg F	Year 2023	Historical period of record
High	192.9268	192.9268
Mean	171.92	75.59
Low	146.4468	47.858
No. of Samples	23	4,253

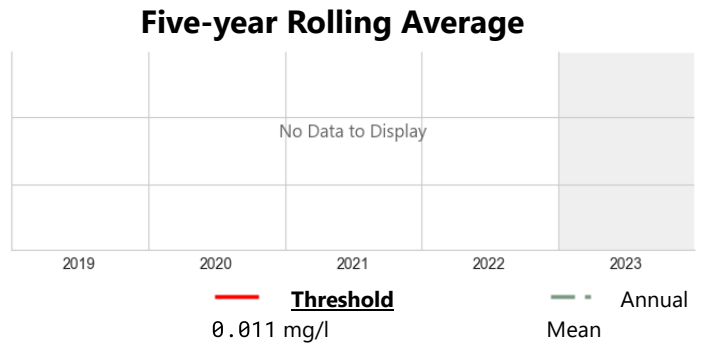


Water Chemistry Ratings | Tidal Portion of the Creek

Creek Conditions Ratings are based on comparing nitrogen, phosphorus, chlorophyll and dissolved oxygen to water quality guidelines or regulations. Florida law defines a maximum allowable concentration of chlorophyll *a* and a minimum allowable concentration of dissolved oxygen in these streams. Florida has no regulatory thresholds for nitrogen or phosphorus in tidal creeks so trends are used to rate the creeks.

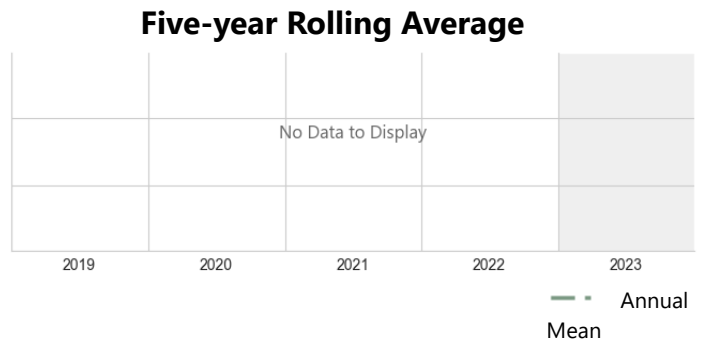
Chlorophyll a

Units: mg/l	Year 2023	Historical period of record
High		
Mean		
Low		
No. of Samples		



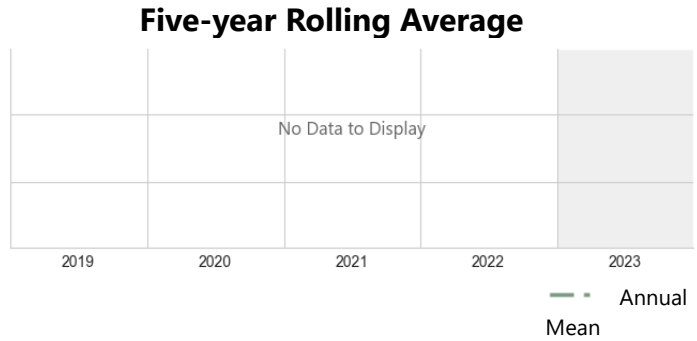
Nitrogen, Total

Units: mg/l	Year 2023	Historical period of record
High		
Mean		
Low		
No. of Samples		



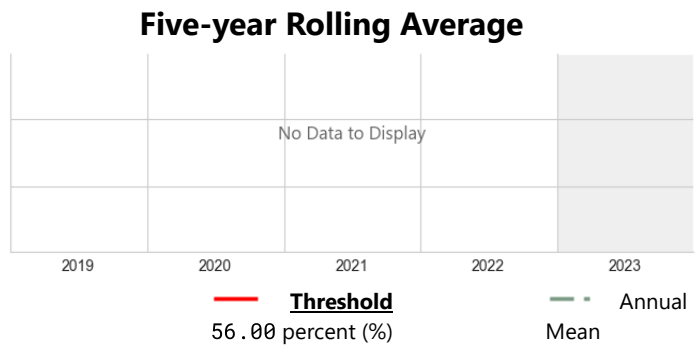
Phosphorus, Total

Units: mg/l	Year	Historical
	2023	period of record
High		
Mean		
Low		
No. of Samples		



Dissolved Oxygen Saturation

Units: percent (%)	Year	Historical
	2023	period of record
High		
Mean		
Low		
No. of Samples		



Impervious Features

Rain that falls on land that is in a natural state is absorbed and filtered by soils and vegetation as it makes its way into underground aquifers. However, in developed areas, "impervious surfaces" impede this process and contribute to polluted urban runoff entering surface waters. These surfaces include human infrastructure like roads, sidewalks, driveways and parking lots that are covered by impenetrable materials such as asphalt, concrete, brick and stone, as well as buildings and other permanent structures. Soils that have been disturbed and compacted by urban development are often impervious as well.

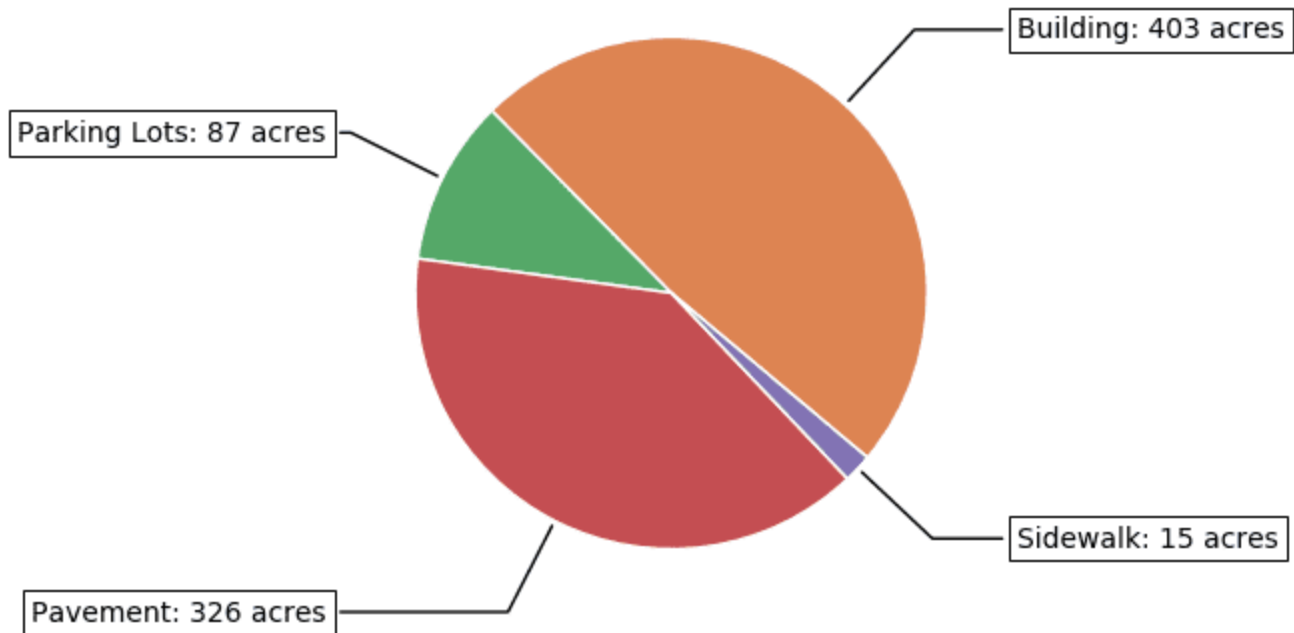


13% of the land area within the **Curry Creek Basin** is covered by impervious

surfaces

2014 Impervious Surface Coverage by Type

in acres, within the Curry Creek Basin











Land Use / Land Cover

Land use within a creek's watershed has a major effect on its water quality. In general, less development means better water quality. Land Cover/Land Use classifications categorize land in terms of its observed physical surface characteristics (e.g. upland or wetland), and also reflect the types of activity that are taking place on it (agriculture, urban/built-up, utilities, etc.). Florida uses as its standard a set of statewide classifications which were developed by the Florida Department of Transportation.

Acreage and Percentage within each Land Use / Land Cover Category for Curry Creek Basin

2023 Creek Conditions Report for Curry Creek

Land Use Classification	1990	1995	1999	2005	2011	2014	2017	2020	Trend
Urban & Built-up	2,089 32.7%	2,331 36.4%	2,915 45.6%	3,504 54.8%	3,621 56.6%	3,519 55%	3,825 59.8%	4,025 62.9%	
Agriculture	1,532 23.9%	1,374 21.5%	1,201 18.8%	736 11.5%	385 6%	369 5.8%	270 4.2%	225 3.5%	
Rangeland	174 2.7%	212 3.3%	188 2.9%	75 1.2%	317 5%	322 5%	214 3.3%	153 2.4%	
Upland Forests	1,452 22.7%	1,229 19.2%	826 12.9%	767 12%	707 11.1%	813 12.7%	701 11%	535 8.4%	
Water	350 5.5%	438 6.8%	482 7.5%	493 7.7%	492 7.7%	492 7.7%	508 7.9%	549 8.6%	
Wetlands	526 8.2%	463 7.2%	461 7.2%	483 7.6%	522 8.2%	522 8.2%	519 8.1%	510 8%	
Barren Land	8 0.1%	21 0.3%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	
Transportation and Utilities	266 4.2%	330 5.2%	326 5.1%	341 5.3%	354 5.5%	362 5.7%	360 5.6%	402 6.3%	

2020 Land Use / Land Cover for Curry Creek Basin

as a percentage of land area for this basin

