# Smith Branch Monitoring Sites Monitoring Data Summary for March 24<sup>th</sup>, 2021 – April 27<sup>th</sup>, 2021

#### Data Gaps

- The SMIA station experienced multiple periods of fouling turbidity data on March 28<sup>th</sup>, April 2<sup>nd</sup>-5<sup>th</sup>, April 11<sup>th</sup>-13<sup>th</sup>, and April 22<sup>nd</sup>-24<sup>th</sup>, so those periods of data were removed from the dataset.
- The SMIB station experienced multiple periods of fouling turbidity data from March 24<sup>th</sup>-28<sup>th</sup> and April 6<sup>th</sup>-12<sup>th</sup>. The DO sensor was fouled from March 24<sup>th</sup>-29<sup>th</sup> and April 9<sup>th</sup>-10<sup>th</sup>. Those periods of data were removed from the dataset.
- Both rain gauges along the Smith Branch experienced a gap in data collection from April 17<sup>th</sup> to April 18<sup>th</sup>.

#### SCDHEC Standards

- The SMIA and SMIB stations did not record any pH values outside the acceptable SCDHEC range of 6 to 8.5.
- The SMIA station recorded an average DO concentration of 8.1 mg/L and the SMIB station recorded an average DO concentration of 8.0 mg/L, which are both above the SCDHEC daily average standard of 5 mg/L.
- The minimum DO concentration recorded at the SMIA station was 5.3 mg/L and 5.0 mg/L at the SMIB station, which are above the SCDHEC discrete minimum standard of 4 mg/L.

#### Storm Events

- The SMIA rain gauge recorded 5 storms (at least 0.1 inches) in this monitoring period resulting in 1.7 inches of precipitation. The SMIB rain gauge recorded 4 storms (at least 0.1 inches) in this monitoring period resulting in 1.0 inches of precipitation.
- The SMIA and SMIB monitoring stations recorded typical water quality responses to the storm events observed during this monitoring period.

#### Potential Illicit Discharges and Abnormal Events

• At the SMIA and SMIB stations, there were no abnormal events during this monitoring period.

#### Flow Measurements

• No flow measurements were taken in this watershed during this monitoring period.





#### Smith Branch A (March 24, 2021 - April 27, 2021)



Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

### Smith Branch A (March 24, 2021 - April 27, 2021)

# **Explanation of Statistics:**

MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
MAXIMUM OBSERVED	The maximum of the values recorded by the datasonde in 15 minute intervals.
MEDIAN OBSERVED	The median of all the values recorded by the datasonde in 15 minute intervals.
MEAN OBSERVED	The average of all the values recorded by the datasonde in 15 minute intervals.
STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

# Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	4/22/2021							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	11:52	312						
Total Suspended Solids (mg/L)	11:52	1.9						
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: Sample 1 was collected during dry weather conditions.





#### Smith Branch B (March 24, 2021 - April 27, 2021)



REPORT GENERATED ON 05/25/2021

### Smith Branch B (March 24, 2021 - April 27, 2021)

# **Explanation of Statistics:**

MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
MAXIMUM OBSERVED	The maximum of the values recorded by the datasonde in 15 minute intervals.
MEDIAN OBSERVED	The median of all the values recorded by the datasonde in 15 minute intervals.
MEAN OBSERVED	The average of all the values recorded by the datasonde in 15 minute intervals.
STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

### Sampled Data:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)								
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli								
(MPN/100mL)								
Total Suspended								
Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: No samples were collected during this monitoring period.