Kinley Creek Monitoring Sites Monitoring Data Summary for January 17th, 2020 – February 19th, 2020

Data Gaps

• Neither of the Kinley Creek monitoring stations experienced interruptions in the data during this monitoring period.

SCDHEC Standards

- The KINA station recorded pH readings that were within the SCDHEC acceptable range of 6 to 8.5.
- The KINB station recorded a minimum pH reading of 5.9 which is outside of the SCDHEC acceptable range of 6 to 8.5.
- The KINA and KINB station recorded average DO concentrations of 9.9 mg/L and 9.8 mg/L respectively, which are both well above the SCDHEC daily average standard of 5 mg/L.
- The instantaneous minimum DO value recorded at the KINA station was 8.4 mg/L and 7.2 mg/L at the KINB station, which are both above the SCDHEC instantaneous minimum standard of 4 mg/L.

Storm Events

- The rain gauge along Kinley Creek recorded 7 storm events during this deployment period that resulted in a total of 7 inches of precipitation.
- Both the KINA and KINB stations recorded typical storm response patterns during this monitoring period.
- The maximum antecedent dry time since the last significant precipitation event (at least 0.1 inches) was approximately 6.4 days in the Kinley Creek watershed, occurring prior to the storm event on February 13th.

Potential Illicit Discharges and Abnormal Events

• A sudden increase in stage occurred at the KINA and KINB stations on January 23rd, likely caused by activity at Lake Quail Valley, which resulted in a decrease in specific conductivity at both stations.

Flow Measurements

• No flow measurements were taken in the Kinley Creek watershed during this deployment period.





Kinley Creek A (January 17, 2020 - February 19, 2020)



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

Kinley Creek A (January 17, 2020 - February 19, 2020)

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.

Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	2/5/2020		2/6/2020					
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	8:20	462	9:35	320				
Total Suspended Solids (mg/L)			9:35	8.4				
Total Phosphorus (mg/L)			9:35	0.037				
Total Nitrogen (mg/L)			9:35	1.38				

Note: Sample 1 was taken during dry weather conditions. Sample 2 was taken during wet weather conditions.





Kinley Creek B (January 17, 2020 - February 19, 2020)



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

Kinley Creek B (January 17, 2020 - February 19, 2020)

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	
	2/5/2020		2/6/2020		2/6/2020			
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	8:35	270	10:00	1596	15:25	338		
Total Suspended Solids (mg/L)			10:00	13.1	15:25	13.2		
Total Phosphorus (mg/L)			10:00	0.047	15:25	0.057		
Total Nitrogen (mg/L)			10:00	1.13	15:25	1.02		

Note: Sample 1 was taken during dry weather conditions. Samples 2 and 3 were taken during wet weather conditions.