Kinley Creek Monitoring Sites
Monitoring Data Summary for
October 30th, 2020 – December 1st, 2020

Data Gaps
- At the KINA and KINB stations, the turbidity and DO data was not recorded during this monitoring period because the sensors were out for repairs.

SCDHEC Standards
- None of the Kinley Creek monitoring stations recorded any pH readings outside of the acceptable SCDHEC range of 6 to 8.5.

Storm Events
- The rain gauge along Kinley Creek recorded 8 storm events during this deployment period that resulted in a total of 3.2 inches of precipitation.
- Both the KINA and KINB stations recorded typical storm response patterns during this monitoring period.

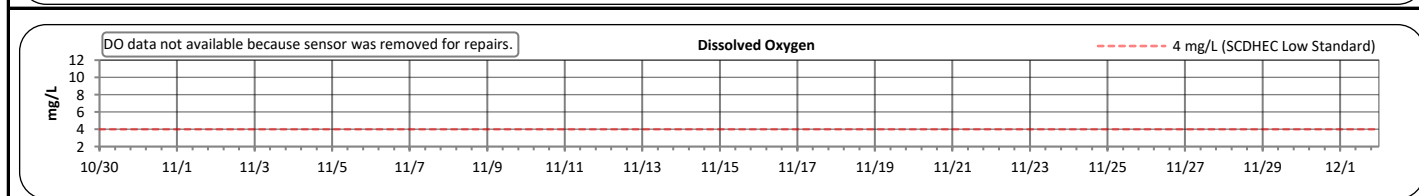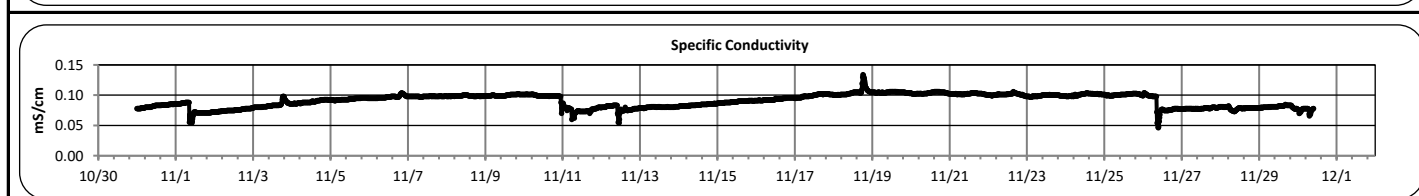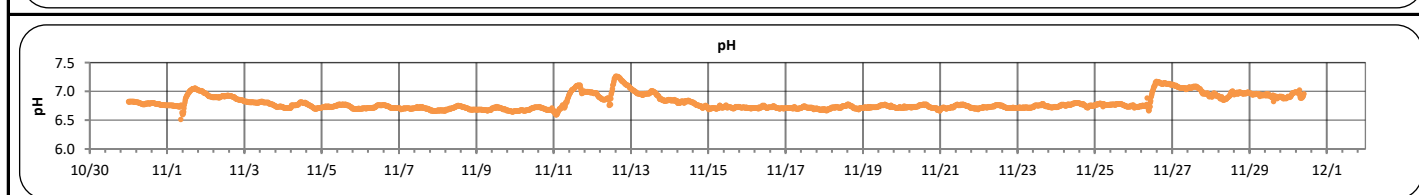*Potential Illicit Discharges and Abnormal Events*
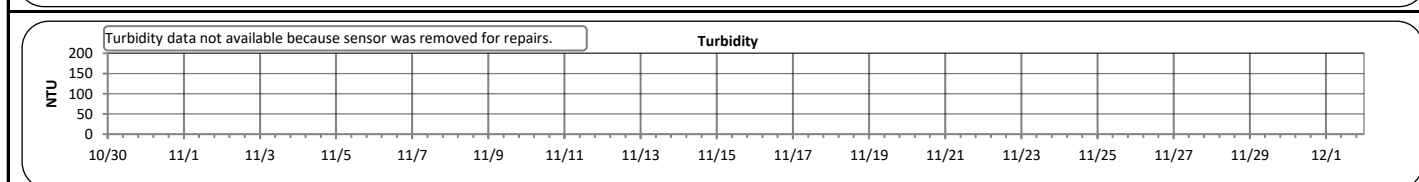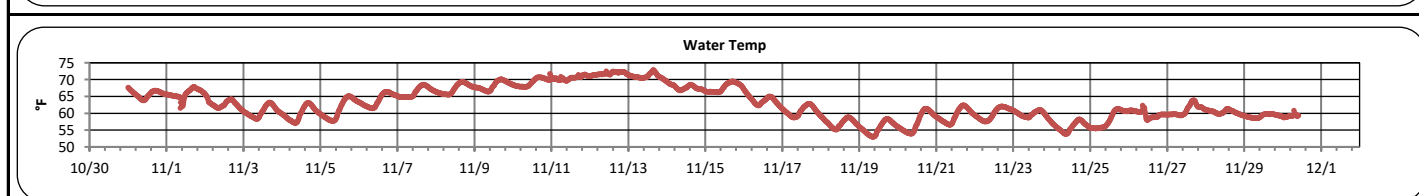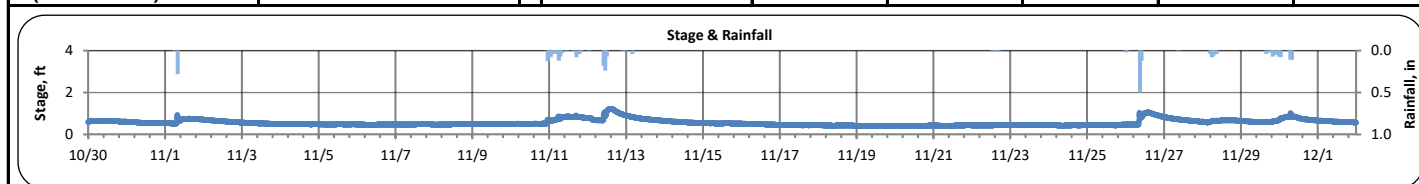- At the KINA station, the specific conductivity increased on November 18th, which may have been the result of an illicit discharge.
- At the KINB station, the specific conductivity increased on November 9th and November 26th, which may have been the result of illicit discharges.

Flow Measurements
- No flow measurements were taken in the Kinley Creek watershed during this monitoring period.

City of Columbia, SC
Stormwater Management
Partnering for clean waterways

Continuous Water Quality
Monitoring Periodic Report

WOOLPERT

Kinley Creek A (October 30, 2020 - December 1, 2020)

PARAMETER	DESCRIPTION
STREAM NAME:	Kinley Creek
LOCATION:	Longhorn Steakhouse
ADDRESS:	171 Harbison Blvd Columbia, SC 29212
COORDINATES:	34.069897, -81.164592
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	8
MAX. DAILY RAINFALL:	0.6 inches
TOTAL RAINFALL (FOR PERIOD):	3.2 inches

CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.4	1.2	0.5	0.6	0.1
TEMPERATURE (°F):	53	73	62	63	5
TURBIDITY (NTU):	-	-	-	-	-
pH:	6.5	7.3	6.8	6.8	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.046	0.134	0.094	0.091	0.011
DISSOLVED OXYGEN (mg/L):	-	-	-	-	-

Stage & Rainfall

Water Temp

Turbidity

Turbidity data not available because sensor was removed for repairs.

pH

Specific Conductivity

Dissolved Oxygen

DO data not available because sensor was removed for repairs.

- - - - - 4 mg/L (SCDHEC Low Standard)

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

Kinley Creek A (October 30, 2020 - December 1, 2020)

Explanation of Statistics:

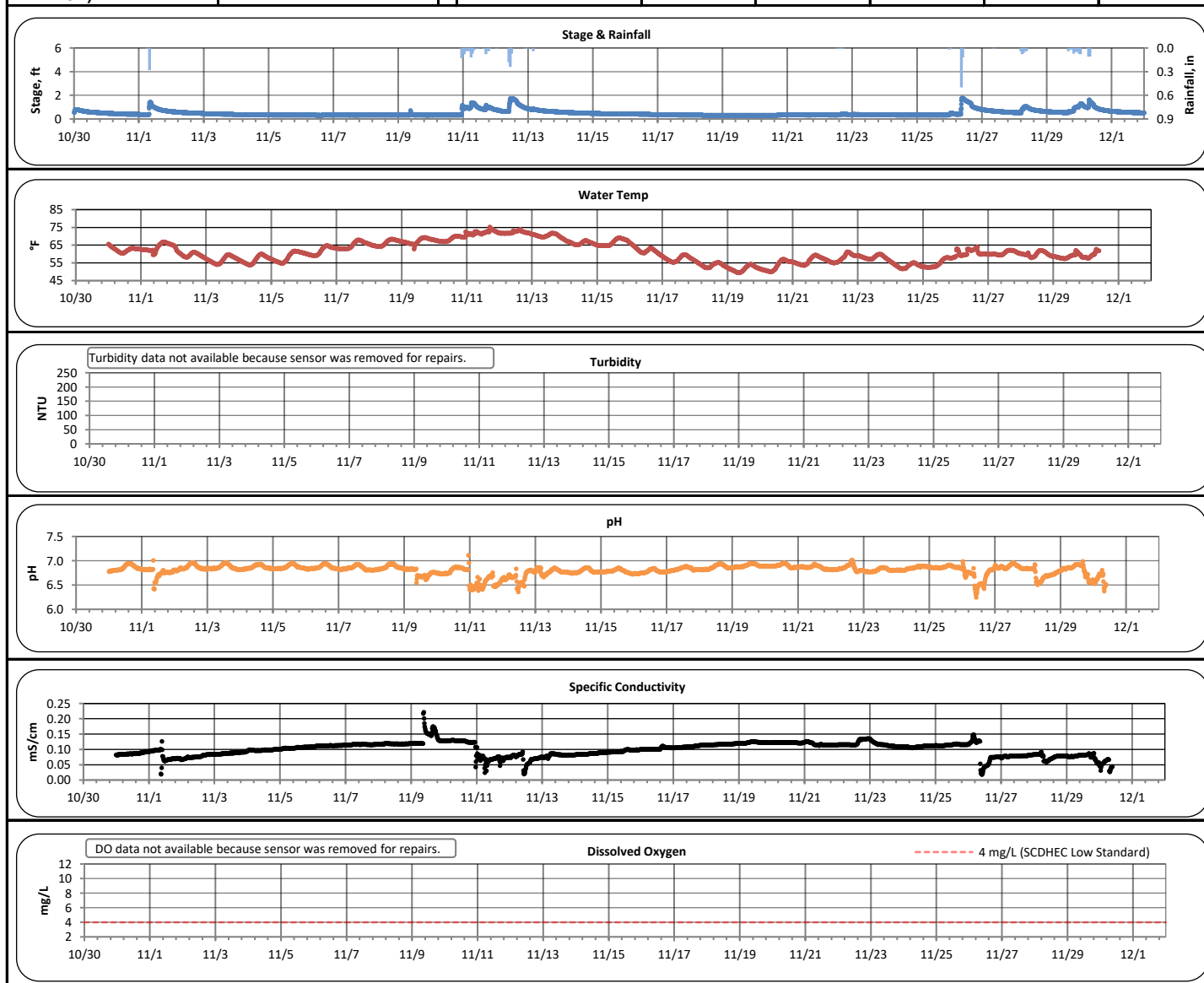|	
MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
MAXIMUM OBSERVED	The maximum of the values recorded by the datasonde in 15 minute intervals.
MEDIAN OBSERVED	The median of all the values recorded by the datasonde in 15 minute intervals.
MEAN OBSERVED	The 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 11/9/2020		Sample 2 11/12/2020		Sample 3 11/12/2020		Sample 4 11/12/2020	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:30	2,306	9:31	126	10:55	15,400	12:30	11,500
Total Suspended Solids (mg/L)			9:31	5.8	10:55	19.2	12:30	28.5
Total Phosphorus (mg/L)			9:31	0.075	10:55	0.14	12:30	0.13
Total Nitrogen (mg/L)			9:31	0.69	10:55	0.98	12:30	0.58

Notes: Sample 1 was taken during dry weather conditions. Samples 2-4 were taken during wet weather conditions.

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City of Columbia, SC
Stormwater Management
Partnering for clean waterways

Continuous Water Quality
Monitoring Periodic Report

WOOLPERT

Kinley Creek B (October 30, 2020 - December 1, 2020)

PARAMETER	DESCRIPTION
STREAM NAME:	Kinley Creek
LOCATION:	Broken Hill Rd
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212
COORDINATES:	34.06635, -81.159986
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most downstream site
TOTAL NO. STORMS OVER 0.1 INCH:	8
MAX. DAILY RAINFALL:	0.6 inches
TOTAL RAINFALL (FOR PERIOD):	3.2 inches

CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.3	1.8	0.4	0.5	0.3
TEMPERATURE (°F):	49	75	60	61	6
TURBIDITY (NTU):	-	-	-	-	-
pH:	6.3	7.1	6.8	6.8	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.018	0.222	0.105	0.100	0.022
DISSOLVED OXYGEN (mg/L):	-	-	-	-	-

Stage & Rainfall

Water Temp

Turbidity

Turbidity data not available because sensor was removed for repairs.

pH

Specific Conductivity

Dissolved Oxygen   ----- 4 mg/L (SCDHEC Low Standard)

DO data not available because sensor was removed for repairs.

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

Kinley Creek B (October 30, 2020 - December 1, 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 11/9/2020		Sample 2 11/12/2020		Sample 3 11/12/2020		Sample 4 11/12/2020	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:40	3,058	9:52	2,108	11:12	6,152	12:47	6,260
Total Suspended Solids (mg/L)			9:52	105	11:12	47.7	12:47	30
Total Phosphorus (mg/L)			9:52	0.15	11:12	0.1	12:47	0.12
Total Nitrogen (mg/L)			9:52	1.07	11:12	0.72	12:47	0.68

Notes: Sample 1 was taken during dry weather conditions. Samples 2-4 were taken during wet weather conditions.