Kinley Creek Monitoring Sites
Monitoring Data Summary for
May 4th, 2017 – June 7th, 2017

Data Gaps

- The KINA station did not experience any gaps in the data record during this monitoring period.
- The KINB sonde experienced turbidity fouling from May 12th – May 13th and this data was removed from the dataset.

SCDHEC Standards

- The KINA station did not record any pH readings outside of the acceptable SCDHEC range of 6 to 8.5.
- The KINA station recorded some pH values above the standard maximum of 8. These high values occurred during the storm event on May 22nd. The highest pH value recorded was 8.7. The KINB station did not record any violations of the pH standards during this period.
- The KINA and KINB stations recorded average DO concentrations of 6.5 mg/L and 6.0 mg/L, respectively. These averages were well above the SCDHEC daily average standard minimum of 5 mg/L.
- The instantaneous minimum DO values recorded at the KINA and KINB stations were 2.9 mg/L and 3.9mg/L, respectively. The low DO minimums occurred during the same storm event on May 6th at the end of the deployment period.

Storm Events

- The Kinley rain gauge recorded twelve storm events over this deployment period, resulting in 6.2 inches of precipitation.
- Both stations generally recorded typical storm event responses during this monitoring period.
- The maximum antecedent dry time since the last significant precipitation event (at least 0.1 inches) was approximately 8.4 days in the Kinley Creek watershed, and occurred prior to the May 21st storm event.

Potential Illicit Discharges and Abnormal Events

- At the KINB station, several periods of slightly elevated specific conductivity were recorded. These occurred on May 31st, June 1st, and 2nd.

Flow Measurements

- There were not any flow measurements taken at any of the Gills Creek stations during this deployment period.

City of Columbia, SC Stormwater Management
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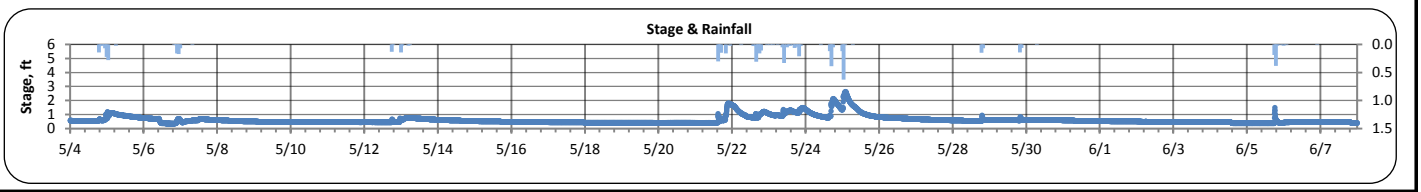
Continuous Water Quality Monitoring Periodic Report

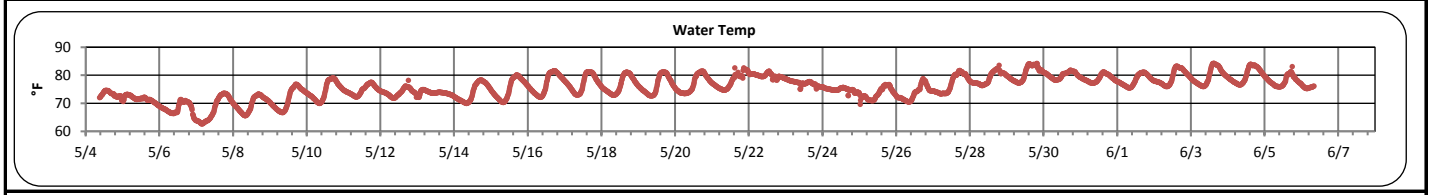
WOOLPERT

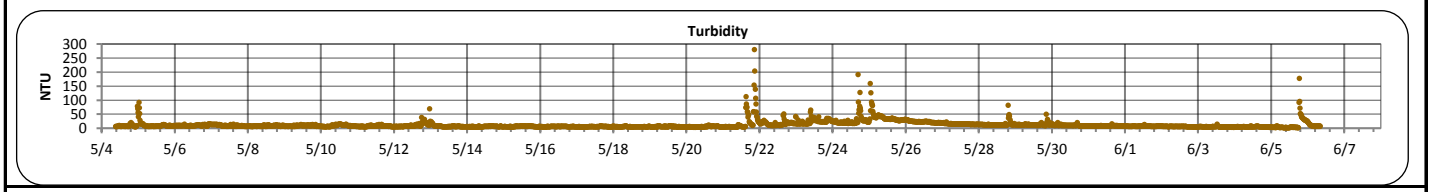
Kinley Creek A (May 4, 2017 -- June 7, 2017)

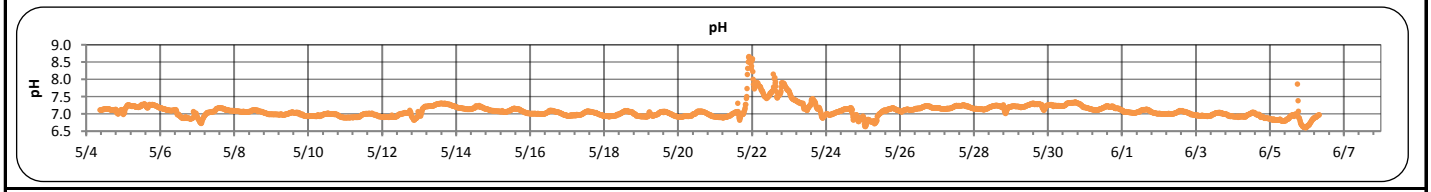
PARAMETER	DESCRIPTION
STREAM NAME:	Kinley Creek
LOCATION:	Longhorn Steakhouse
ADDRESS:	171 Harbison Blvd Columbia, SC 29212
COORDINATES:	34.069897, -81.164592
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	12
MAX. DAILY RAINFALL:	0.9 inches
TOTAL RAINFALL (FOR PERIOD):	6.2 inches

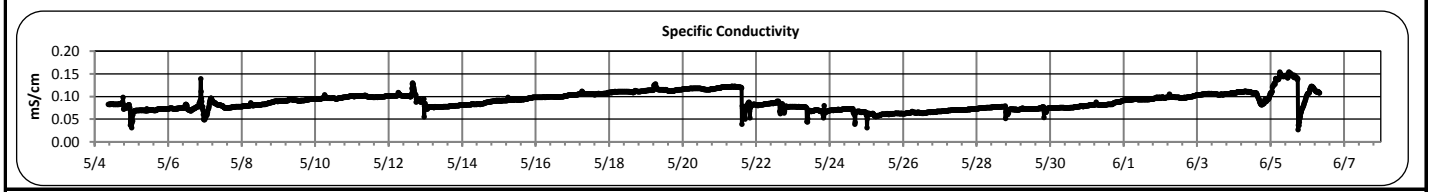
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.4	2.6	0.5	0.6	0.3
TEMPERATURE (°F):	63	84	76	76	4
TURBIDITY (NTU):	3	280	9	13	14
pH:	6.6	8.7	7.1	7.1	0.2
SPECIFIC CONDUCTIVITY (mS/cm):	0.027	0.154	0.088	0.089	0.018
DISSOLVED OXYGEN (mg/L):	2.9	9.7	6.6	6.5	1.2

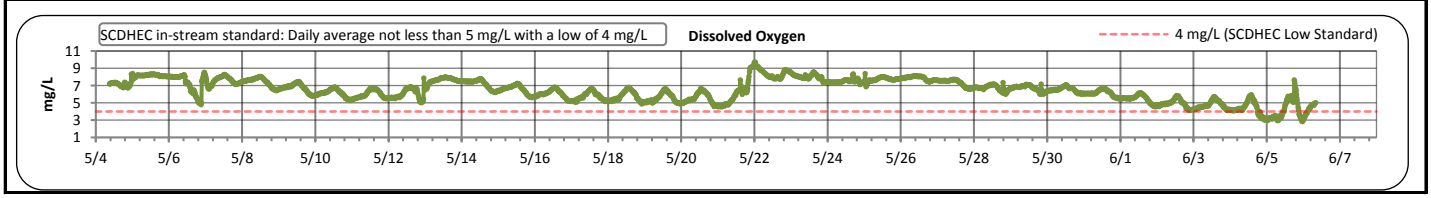












Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

REPORT GENERATED ON 6/23/2016

Continuous Water Quality
Monitoring Periodic Report

Kinley Creek A (May 4, 2017 -- June 7, 2017)

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	
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note:

City of Columbia, SC Stormwater Management
Partnering for clean waterways

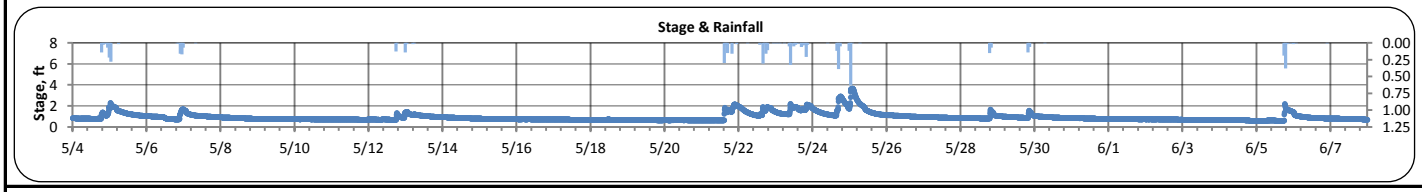
Continuous Water Quality Monitoring Periodic Report

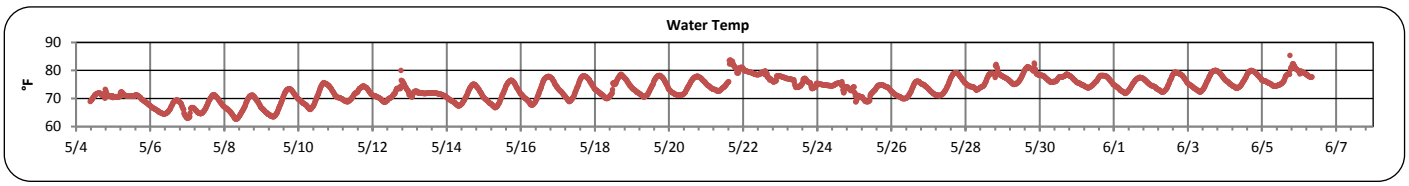
WOOLPERT

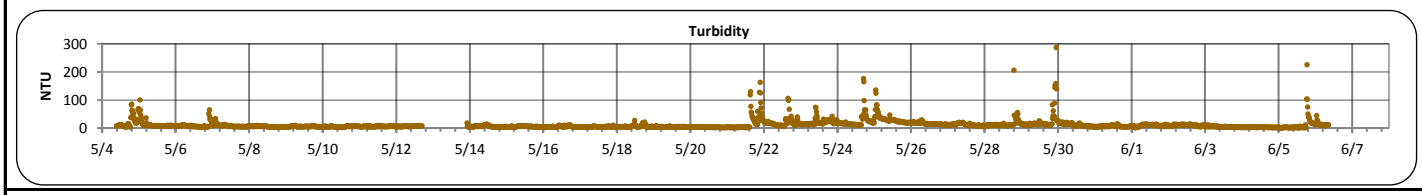
Kinley Creek B (May 4, 2017 -- June 7, 2017)

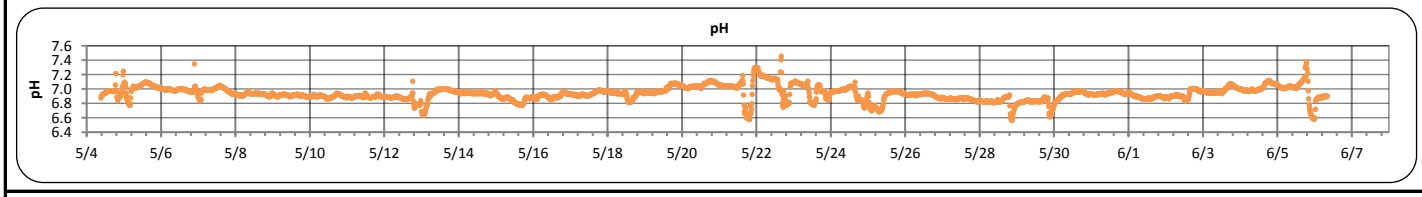
PARAMETER	DESCRIPTION
STREAM NAME:	Kinley Creek
LOCATION:	Broken Hill Rd
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212
COORDINATES:	34.06635, -81.159986
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most downstream site
TOTAL NO. STORMS OVER 0.1 INCH:	12
MAX. DAILY RAINFALL:	0.9 inches
TOTAL RAINFALL (FOR PERIOD):	6.2 inches

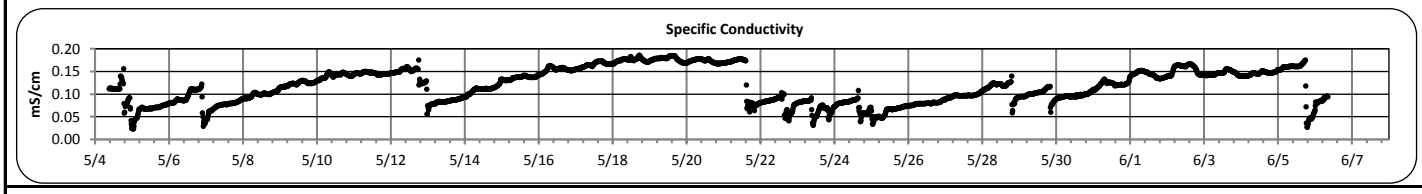
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.6	3.7	0.8	0.9	0.4
TEMPERATURE (°F):	63	85	74	73	4
TURBIDITY (NTU):	2	288	8	12	16
pH:	6.6	7.5	6.9	6.9	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.023	0.186	0.12	0.118	0.038
DISSOLVED OXYGEN (mg/L):	3.9	9.1	5.8	6.0	1.0

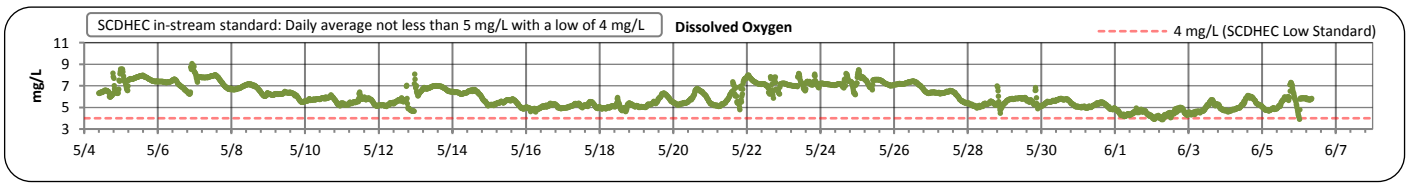












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Continuous Water Quality
Monitoring Periodic Report

Kinley Creek B (May 4, 2017 -- June 7, 2017)

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Sampled Data:

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Total Phosphorus (mg/L)								
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Note: