City of Columbia, SC Stormwater Management — Partnering for clean waterways

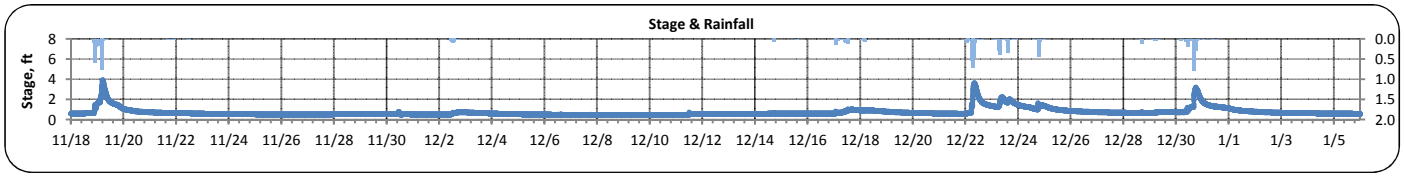
Continuous Water Quality Monitoring Periodic Report

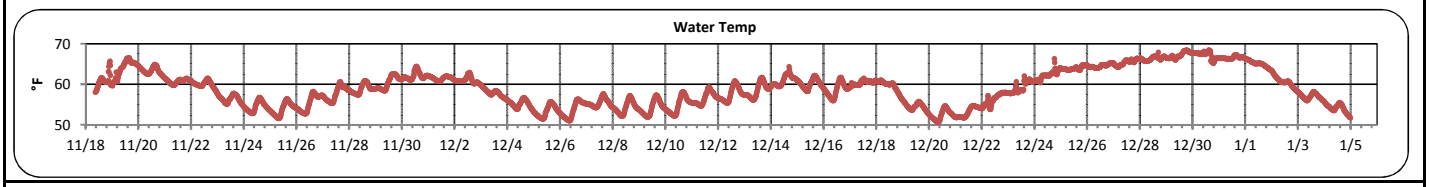
WOOLPERT — DESIGN | GEOSPATIAL | INFRASTRUCTURE

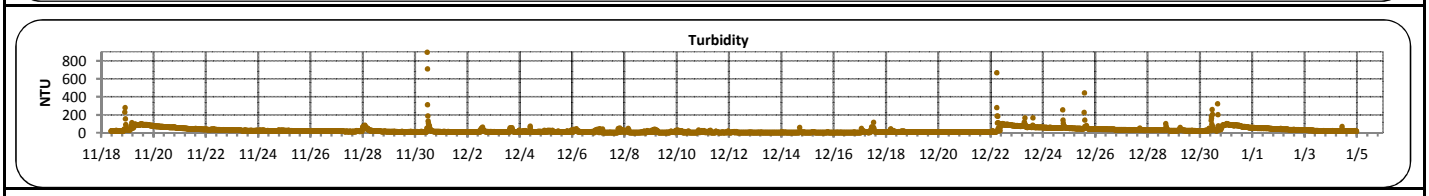
Kinley Creek A (November 18, 2015 -- January 6, 2016)

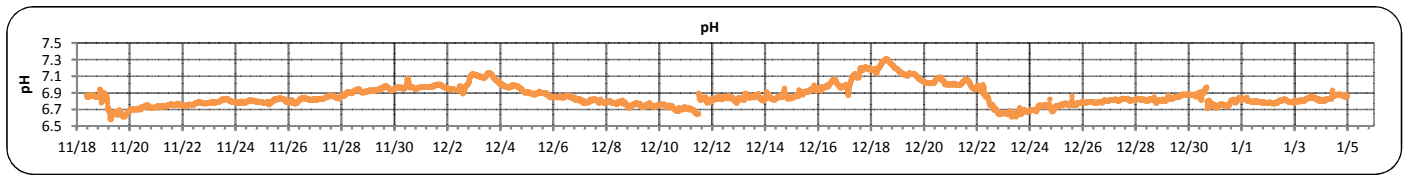
PARAMETER	DESCRIPTION
STREAM NAME:	Kinley Creek
LOCATION:	Longhorn Steakhouse
ADDRESS:	171 Harbison Blvd Columbia, SC 29212
COORDINATES:	34.069897, -81.164592
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	9
MAX. DAILY RAINFALL:	2.7 inches
TOTAL RAINFALL (FOR PERIOD):	10.7 inches

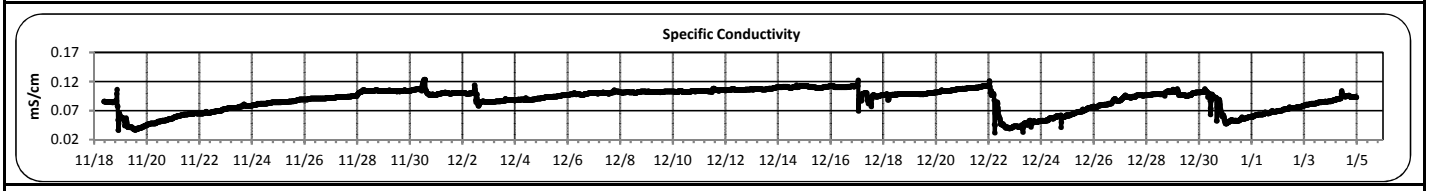
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.5	3.9	0.6	0.7	0.4
TEMPERATURE (°F):	51	68	59	59	4
TURBIDITY (NTU):	3	898	18	26	33
pH:	6.6	7.3	6.8	6.9	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.032	0.123	0.095	0.088	0.019
DISSOLVED OXYGEN (mg/L):	7.0	9.9	8.8	8.7	0.5

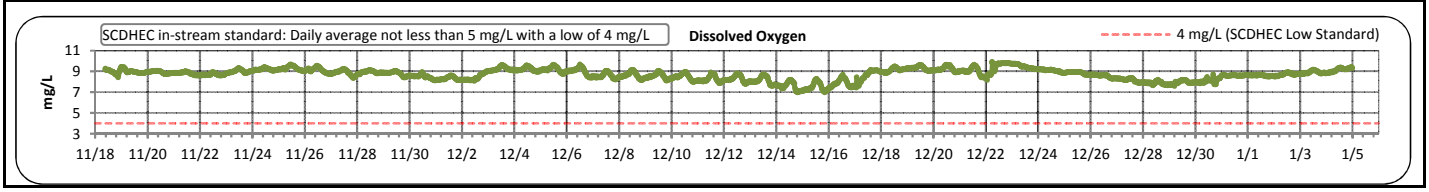












Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

REPORT GENERATED ON 1/18/2016

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Monitoring Periodic Report

Kinley Creek A (November 18, 2015 -- January 6, 2016)

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:

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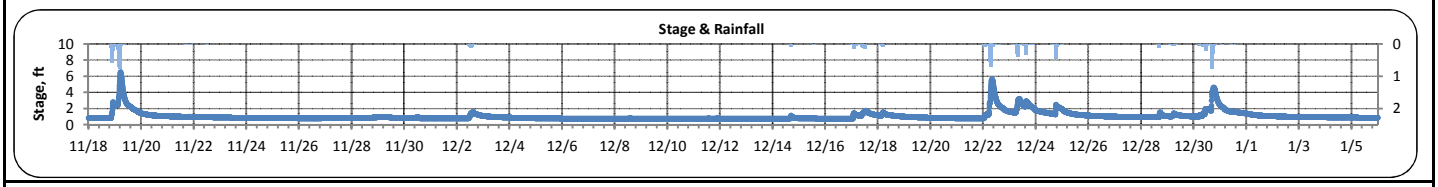
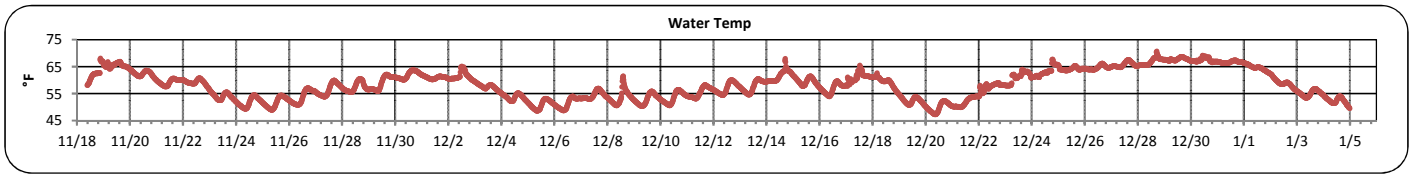
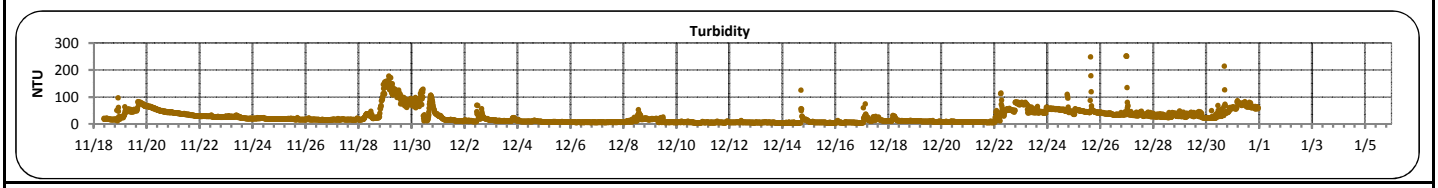
Kinley Creek B (November 18, 2015 -- January 6, 2016)

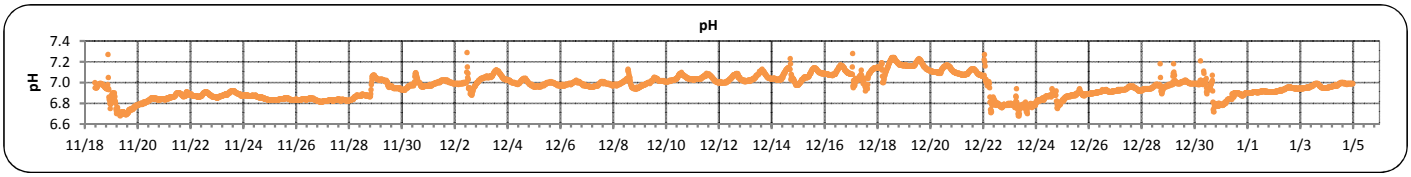
PARAMETER	DESCRIPTION
STREAM NAME:	Kinley Creek
LOCATION:	Broken Hill Rd
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212
COORDINATES:	34.06635, -81.159986
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most downstream site
TOTAL NO. STORMS OVER 0.1 INCH:	9
MAX. DAILY RAINFALL:	2.7 inches
TOTAL RAINFALL (FOR PERIOD):	10.7 inches

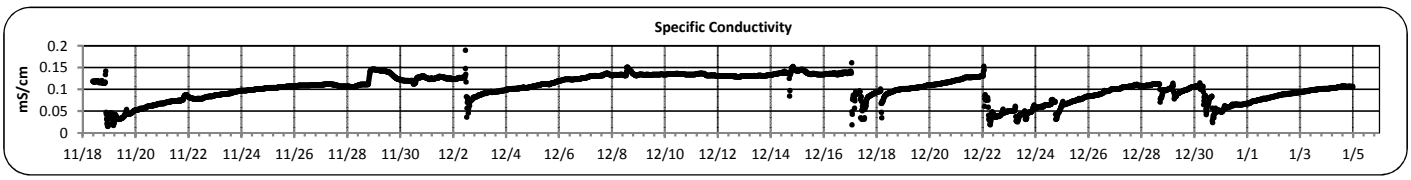
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.8	6.5	0.9	1.1	0.6
TEMPERATURE (°F):	47	71	58	58	5
TURBIDITY (NTU):	4	253	17	26	26
pH:	6.7	7.3	7.0	7.0	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.015	0.190	0.106	0.102	0.028
DISSOLVED OXYGEN (mg/L):	5.5	10.2	8.5	8.4	0.7

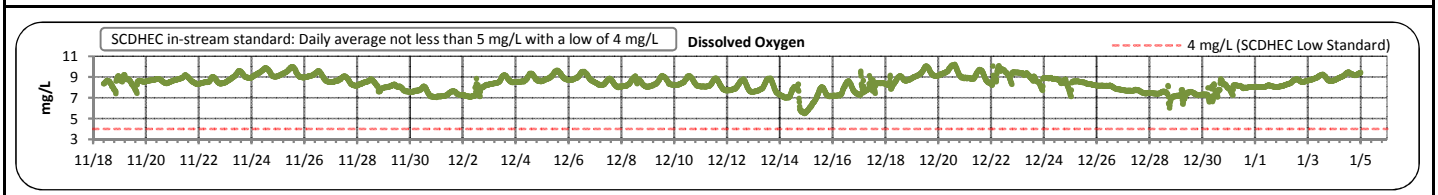












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