

Lake Greenwood Continuous Monitoring Study Periodic Report

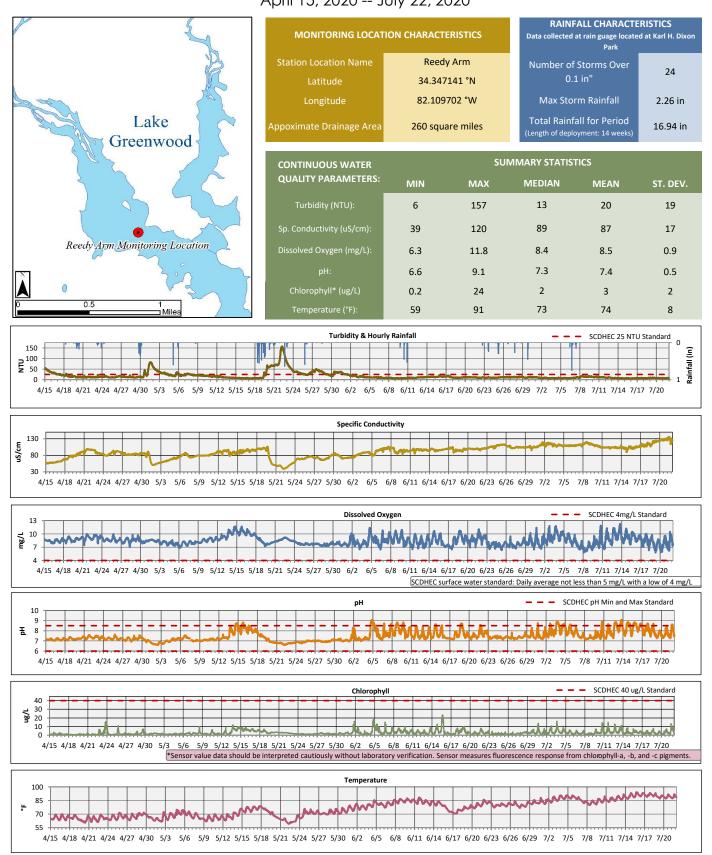
April 15, 2020 - July 22, 2020

This study funded through a joint effort consisting of Greenwood County Lake Management (GCLM), Laurens County Water and Sewer Commission (LCWSC), City of Greenville, and Renewable Water Resources (ReWa).



Continuous Monitoring Report Lake Greenwood at Reedy Arm April 15, 2020 -- July 22, 2020







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Explanation of Statistics:

MIN	The minimum value recorded by the datasonde during the reporting period.				
MAX	The maximum value recorded by the datasonde during the reporting period.				
MEDIAN	The median value represents the 50th percentile of the distribution of all values recorded during the reporting period. Half of the recorded values during this period fell above the median value and half fell below this value.				
MEAN	The average of all the 15-minute values recorded by the datasonde during this reporting period.				
ST. DEV.	The standard deviation is a measure of the variation within a dataset. A large standard deviation indicates significant variability in the dataset and a small standard deviation represents low variability.				

Discrete Sample Results Collected to Date

Analyzed by Pace Analytical and ETT Environmental Laboratories
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					Laboratories		
Sample Date	Collected By	TSS	TN	TKN	NO3+NO2	ТР	Chl-a
	conected by	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
*9/11/2018 13:30	CPW		1.10			0.110	30.8
9/26/2018 9:10	GCLM	9.6	0.88	0.51	0.37	0.091	24.5
11/7/2018 7:40	GCLM	11.5	1.9	ND	1.4	0.054	2.7
11/19/2018 9:30	GCLM	27.4	1.2	ND	0.87	0.12	21.1
11/28/2018 9:20	GCLM	10.7	1.5	ND	1.3	0.093	4
3/27/2019 9:12	GCLM	7.8	1.5	ND	1.1	ND	5.4
5/22/2019 9:07	GCLM	3.6	1.00	0.52	0.49	ND	6.7
5/29/2019 8:41	GCLM	9.7	1.37	0.67	0.7	ND	20.7
6/19/2019 8:49	GCLM	3	0.94	ND	0.44	ND	10.7
6/26/2019 8:40	GCLM	ND	1.4	ND	0.96	ND	4.6
7/10/2019 8:55	GCLM	7.3	1.4	0.54	0.89	ND	11.7
7/24/2019 8:40	GCLM	5.1	1.3	0.69	0.57	ND	10.7
8/14/2019 8:36	GCLM	2.9	1.1	0.63	0.48	ND	9.3
8/28/2019 8:40	GCLM	3.8	1.1	ND	0.66	ND	21.2
9/11/2019 8:30	GCLM	8.1	0.97	0.65	0.32	ND	17.9
4/22/2020 8:45	GCLM	8.3	1.4	0.4	1	0.048	2
5/27/2020 8:20	GCLM	17.9	1.2	0.56	0.61	0.081	2
6/17/2020 8:20	GCLM	33.3	1.3	0.57	0.78	0.05	
7/15/2020 8:30	GCLM	3.4	1.2	0.6	0.56	0.027	

*Samples collected by Greenwood Commissioners of Public Works (CPW) are analyzed for TN, TP, and Chl-a only.

These samples are collected in order to provide information on parameters which cannot be reliably measured in-situ. These sample results may be used in the future to develop statistical relationships with continuously monitored parameters in an effort to estimate continuous concentrations of these parameters. A sufficient sample size for regression analysis is typically 20 samples or more collected across a range of weather conditions.

Definitions				
Chl-a	Chlorophyll-a			
ND	Non Detected at the Reporting Limit			
NO3+NO2	Nitrate + Nitrite as Nitrogen			
TKN	Total Kjeldahl Nitrogen			
TN	Total Nitrogen			
ТР	Total Phosphorus			
TSS	Total Suspended Solids			