



Duke Energy  
Marshall Steam Station  
8329 East NC Hwy 150  
Terrell, NC 28682

828-478-7700

Oct. 10, 2018

ELECTRONIC SUBMITTAL

Ms. Linda Culpepper, Interim Director  
North Carolina Division of Water Resources

Subject: Duke Energy Carolinas, LLC.  
Marshall Steam Station  
EMC SOC WQ S17-009  
3rd Quarter 2018 - Monitoring Data Results

Dear Ms. Culpepper:

In accordance with paragraph 2. e. 3) of the NC Environmental Management Commission Special Order by Consent, EMC SOC WQS 17-009, Duke Energy Carolinas, LLC. (Duke) is hereby submitting the monitoring results for the 3rd quarter of 2018.

If you have any questions, please contact Brad Loveland (704) 609-5637.

*I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

Sincerely,

A handwritten signature in blue ink that reads "Rick Roper".

Rick Roper  
General Manager III  
Marshall Steam Station Manager

Duke Energy Carolinas, LLC - Marshall Steam Station  
Special Order by Consent - SOC No. 517-009  
Monitoring Report for 3rd Quarter of 2018

SAMPLING LOCATION	Date Sampled	TSS*	Oil and Grease*	pH	Fluoride	Mercury	Barium	Zinc	Arsenic	Boron	Cadmium	Chromium	Copper	Thallium	Lead	Nickel	Selenium	Nitrate/Nitrite as N	Bromides	Sulfates	Chlorides	TDS	Total Hardness	Temperature	Conductivity
		-	-	-	-	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	-	-	-	-	-	Total	-	-
		mg/L	mg/L	SU	ug/L	ng/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	°C
S-01	9/11/2018	-	-	5.9	140	1.29	129	< 5	< 1	1500	< 0.1	< 1	< 1	< 0.2	< 0.2	2.12	< 1	0.024	1.5	87	84	330	195	21	572
Instream Lake Norman Holdslaw Creek Arm	9/11/2018	-	-	6.5	< 100	< 0.529	29	< 5	< 1	< 50	< 0.1	< 1	1.03	< 0.2	< 0.2	< 1	< 1	0.128	< 0.1	2.3	3.6	< 25	14.5	25	54
Upstream Catawba River Lake Norman	9/11/2018	-	-	6.7	< 100	< 0.500	11	< 5	< 1	51	< 0.1	< 1	2.2	< 0.2	< 0.2	< 1	< 1	0.15	< 0.1	3	4.6	28	14.6	30	52
Downstream Catawba River Lake Norman	9/11/2018	-	-	6.6	< 100	< 0.500	11	< 5	< 1	51	< 0.1	< 1	2.39	< 0.2	< 0.2	< 1	< 1	0.107	< 0.1	3.1	4.6	< 25	14.3	29	52
Downstream Catawba River Lake Norman 2	9/11/2018	-	-	6.5	< 100	< 0.500	18	< 5	< 1	56	< 0.1	< 1	3.65	< 0.2	< 0.2	< 1	< 1	0.154	< 0.1	3.1	4.7	29	16.1	30	57

\*Annual Monitoring Only

\*\*Duplicate was gathered at this location and the respective values averaged