

Surf Zone Bacteria: Out of the 128 samples measured by SC DHEC during the 2019 beach season, 18 contravened the 104 MPN/100 mL water quality criteria. Twelve of the 18 were collected within 3 days after significant rainfall.

Finalized results for the 2019 beach season are pending confirmation from SC DHEC for samples marked with red triangle or “?”.

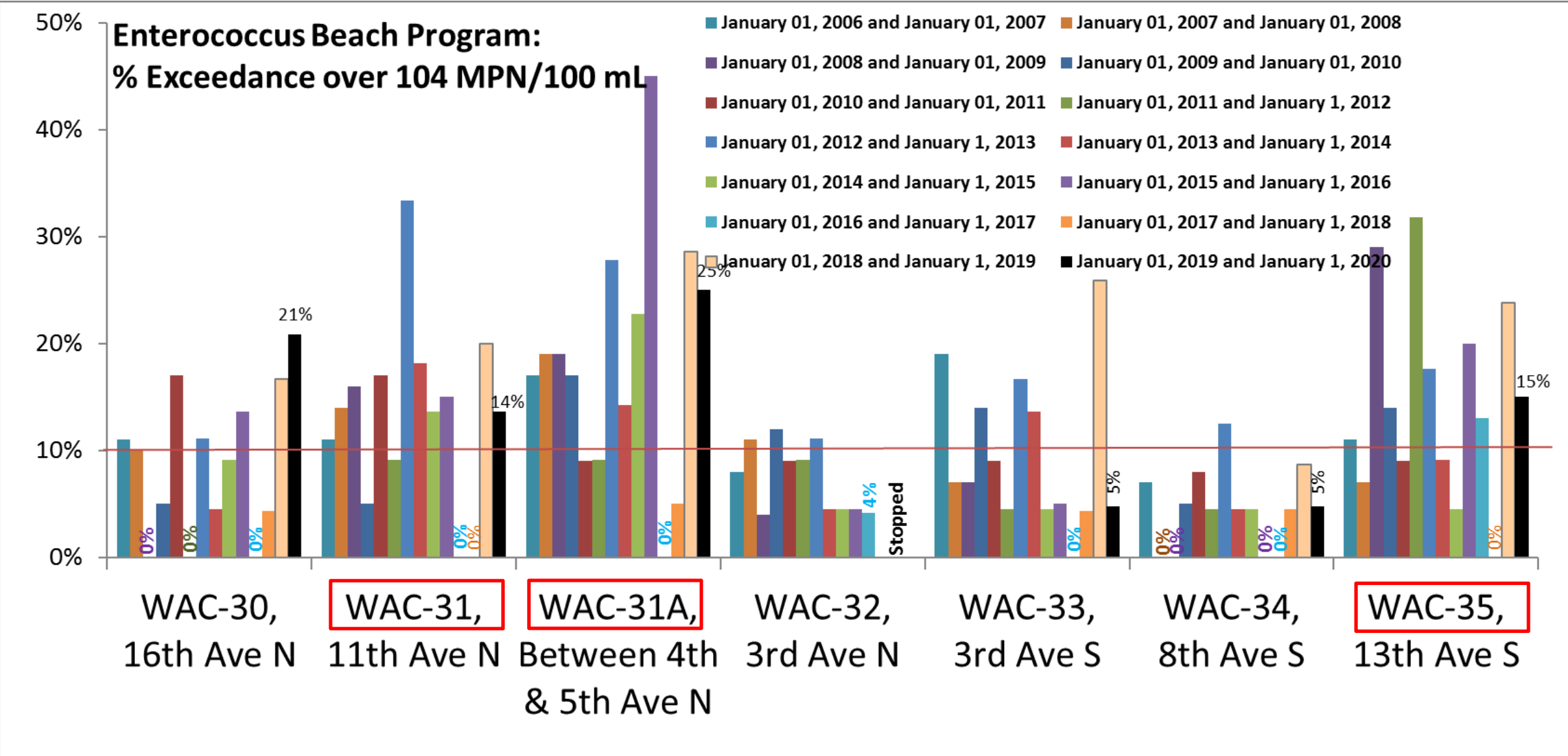
### Surfside SC DHEC Ocean Monitoring 2019

Values <10 are represented numerically as "9".

								long-term advisory	
								2018 SCDHEC 303(d)	
Date (Follow up)	3-d prior rain accumulation (in)	WAC-30, 16th Ave N	WAC-31, 11th Ave N (<10%)	WAC-31A, 4/5th Ave N (20 to 25%)	WAC-32, 3rd Ave N	WAC-33, 3rd Ave S	WAC-34, 8th Ave S	WAC-35, 13th Ave S (10 to 15%)	Number > 104
5/7/19	0.1	10	41	30	No longer sampled due to stable good water quality	63	41	52	0
5/14/19	2.0	86	223	241		52	63	97	2
5/15/19	2.0		10	LT adv					0
5/21/19	0.0	10	10	10		20	10	10	0
5/28/19	0.0	169	41	63		30	10	97	1
5/29/19	0.0	10							0
6/4/19	0.0	10	10	10		10	10	10	0
6/11/19	1.5	10	10	10		10	10	404	1
6/18/19	0.0	10	10	10		10	20	20	0
6/25/19	0.0	10	25	41		10	10	10	0
7/2/19	0.0	20	10	105		10	10	109	2
7/9/19	0.1	282	20	31		10	10	52	1
7/10/19	0.3	185							1
7/11/19	0.4	10							0
7/16/19	2.7	228	228	288		41	10	30	3
7/17/19	0.0	173	173	LT adv					2
7/18/19	0.0	?	?	LT adv					0
7/23/19	0.0	10	10	10		10	10	10	0
7/30/19	0.0	10	10	10	10	10	10	0	
8/6/19	?	10	10	20	10	10	20	0	
8/13/19	?	10	30	61	10	10	31	0	
8/20/19	?	86	10	20	10	20	10	0	
8/27/19	0.3	52	41	10	933	328	63	2	
8/28/19	0.0				10	10		0	
9/3/19	0.0	Hurricane Dorian						0	
9/10/19	0.0	63	85	179	20	10	20	1	
9/17/19	0.0	10	10	153	20	20	10	1	
9/24/19	0.0	10	10	41	10	10	428	1	
%>60		33%	18%	35%	10%	10%	30%		
%>104		21%	14%	25%	5%	5%	15%		
%>501		0%	0%	0%	5%	0%	0%		

LT adv = Long-term advisory posted so no follow up sampling performed

Surf Zone Bacteria: Frequency of exceedance trends are lower than 2018 except for WAC-30 at 16<sup>th</sup> Ave N. Sites with long-term advisories are noted with red boxes.

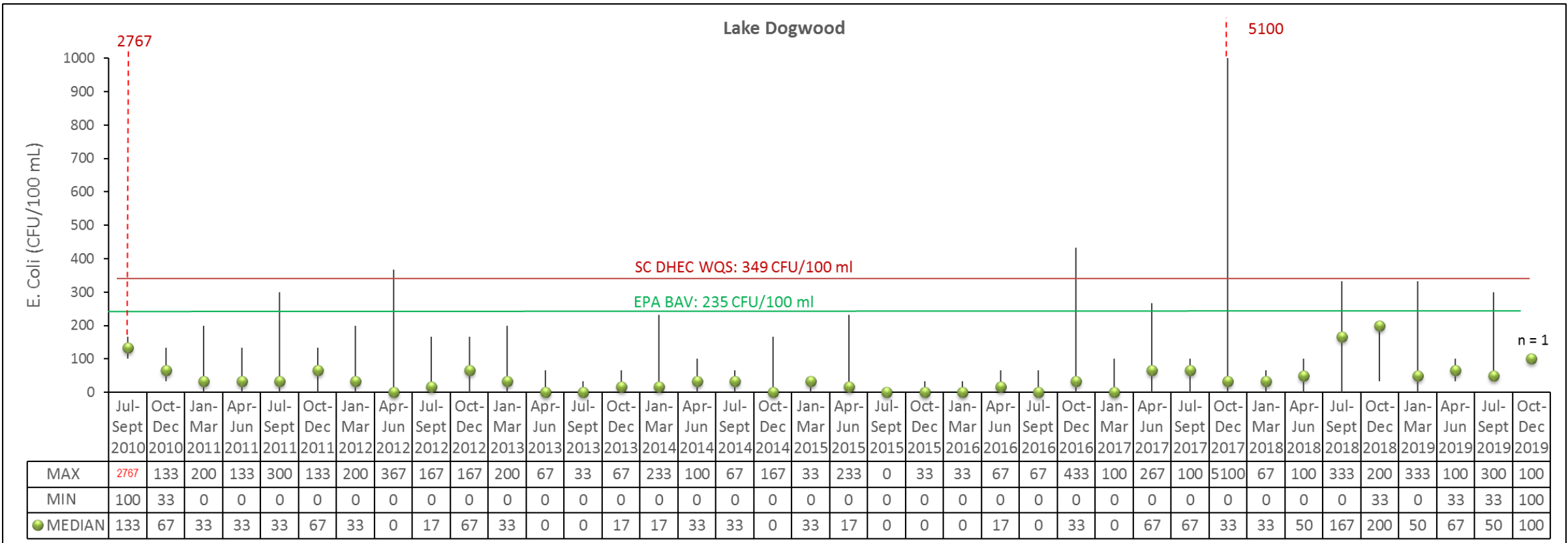


# Surfside Volunteer Monitoring Summary Report

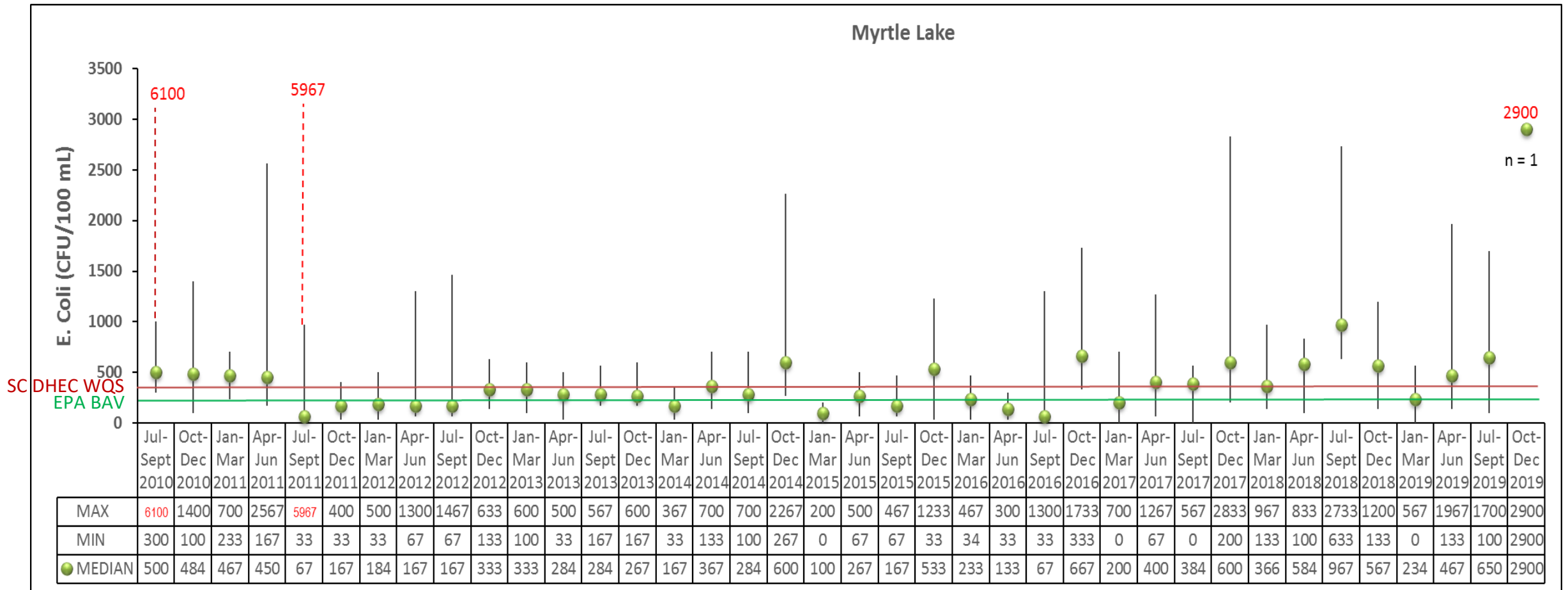
10/22/19



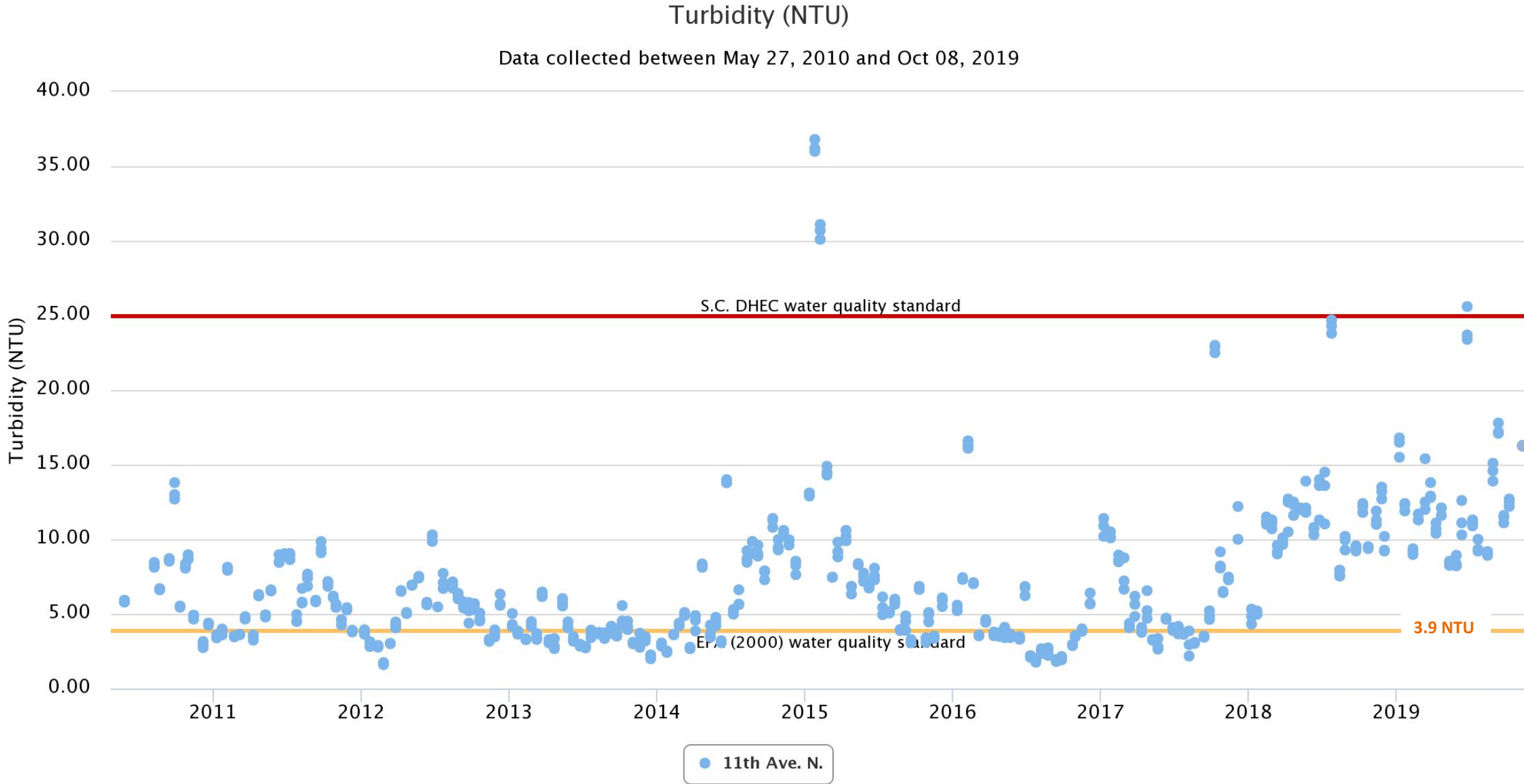
Lake Dogwood: Since the last quarter in 2017, no reports have exceeded the SC DHEC water quality standard (349 CFU/100 mL). Two recent reports (1/8/19 and 9/10/19) were close (333 and 300 CFU/100 mL). Both exceeded the EPA recommended level (235 CFU/100 mL). Turbidity was elevated in both samples (16 and 17 NTU, respectively). No recent rain was reported.



Myrtle Lake: Since the last quarter in 2016, median E. coli has exceeded the SC DHEC water quality standard with the exception of the first quarters (winter: Jan-Mar) in 2017 and 2019. Third highest report (2900 CFU/100 mL) was measured on 10/8/19. 0.28" rain fell from 10/6 to 10/7/19).



Lake Dogwood: Long-term trend of increased turbidity started in Oct 2017 continues. Median of 168 samples taken up through Oct 2017 was 4.9 NTU. Current median is now 5.8 NTU (214 samples).



Fewer contraventions of oxygen water quality criteria are continuing and are due to increased levels of oxygen during warm weather. Some evidence that algal blooms episodically supply oxygen at both sites.



### Dissolved Oxygen (mg/L)

Data collected between May 27, 2010 and Oct 08, 2019

