

Supplemental Environmental Project QAPP Revised JAN 2019 2Apr2019 – Comments

Date of Email	Action Item(s)/Concerns	To/From	Comment/Change
1/9/2019	Rev. 2, Jan. 2019 QAPP Approval	DHEC/COC	QAPP sent to DHEC 12/18/18; Approved 1/9/19 (no documentation)
1/22/2019	Revised QAPP Submitted to DHEC (Rev. 3, Jan. 2019)	DHEC/COC	N/A
1/22/2019 11:43 am	Add Revision History; Ensure Lab Director is a Signatory; SOPs	COC/DHEC	<p>QAPP needs to include a revision history so that what has been changed is tracked by date, section, and what was changed. Also, the laboratory director must sign off on the QAPP. This is our assurance that they have reviewed it and agree to adhere to it.</p> <p>I stated over the phone that I don't need the SOPs because we are getting ready to visit Rogers and Callcott---but that's the one in Greenville, so we will need the SOPs since you are using the Columbia Lab. They are probably the same, but I have to check.</p> <p>Once I get the revision history I'll start the review.</p>
1/22/2019 11:48 am	Add Lab in Distribution List for Final Copy	COC/DHEC	I also note that you don't have the Lab in the distribution list. They have to have a final copy. If I missed this in the last update (approved 1/9) I apologize.
2/4/2019 1:50 pm	Revised QAPP Submitted to DHEC	COC/DHEC	N/A
2/22/2019	Various Corrections via Track Changes	COC/DHEC	<p>I have finished reviewing updated QAPP. I did have corrections. I used "tracked changes" to indicate what I believe needs to be change. I also annotated what I changed in the revision history. Let me know if you have any questions.</p> <p>A7.8 – Pg. 15, Changed DO water accuracy to the correct requirement as follows: Within ± 0.2 mg/L of the published saturation at the observed temperature and altitude/barometric pressure. This is in Rogers & Callcott DO SOP.</p> <p>A9 – Pg. 17, Added “or designee” to those reviewing the QAPP. Currently it says just the QA manager.</p> <p>B4.1 – Pg. 25, Added (MPN) to the <i>E Coli</i> method</p>

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			<p>B5.1 – Pg. 26, Section B 5.1 refers to tables 4-6 for QC. Table 4 is statistics---so I corrected. The correct reference is Table 5-7.</p> <p>Table 6 I specified that the balance is checked daily with 1 weight and monthly with 3 –one must be a 10 mg.</p> <p>Table 6 did not include sample duplicates. I added.</p> <p>Table 7 includes pH and LDO requirements. Did not include annual accuracy verification for thermometers or temperature sensing devices. Table 7 included LCS. Not required for DO by SM 4500 OG. Only applies to LDO meters.</p> <p>E3 – Pg. 43, Currently only the first paragraph of E3 is shown. Make this complete.</p>
2/28/2019	Revised QAPP Submitted to DHEC	DHEC/COC	N/A
3/15/2019 8:42 am	Typo	COC/DHEC	I found a typo in table 6 for TSS. The table states that duplicates must be within $\pm 50\%$ of their average. TSS duplicates must be within $\pm 5\%$ of their average or 10% RPD. Otherwise, the changes look good.
3/15/2019 10:45 am	Sampling Timeline	COC/DHEC	<p>I don't know when it went from Quarterly to monthly. Please edit table 1 to reflect dates, e.g.:</p> <p>Quarterly, 1/2016 - 12/2018; Monthly, 1/2019 - 12/2021</p>
3/15/2019 11:30 am	Revised QAPP Submitted to DHEC	DHEC/COC	N/A
3/15/2019 11:36 am	Sampling Timeline	COC/DHEC	Is C-017 still supposed to be Bi-Monthly?
3/15/2019 12:12 pm	Sampling Timeline	DHEC/COC	In the QAPP C-017 should be sampled every other month starting during year 4, which is 1/2019. Table 1 has been revised.
3/15/2019 3:13 pm	Email Approval of Revised QAPP	COC/DHEC	It's approved. Go ahead and get the signatures and scan it to me. I'll sign and then get David Graves to sign.