SW-846 pH Calibration Verification Policy (NC WW/GW LC 02/28/2020)

Instruments are to be calibrated according to the manufacturer's calibration procedure prior to analysis of samples each day compliance monitoring is performed. Calibration must include at least two buffers. The meter calibration must be verified with a third standard buffer solution (i.e., calibration check buffer) prior to sample analysis. The calibration and check standard buffers must bracket the range of the samples being analyzed. All calibration check standard buffers must read within ±0.1 S.U. of its true value to be acceptable. If the meter verification does not read within ±0.1 S.U., corrective actions must be taken before any samples are analyzed.

When performing analyses at multiple sample sites, a post-analysis calibration verification using the check standard buffer must be analyzed at the end of the run. It is recommended that a mid-day check standard buffer be analyzed when samples are analyzed over an extended period of time. The post-analysis check standard buffer(s) must read within ±0.1 S.U. of its true value or corrective actions must be taken. If recalibration is necessary, all samples analyzed since the last acceptable calibration verification must be reanalyzed, if possible. If samples cannot be reanalyzed, the data must be qualified.