NC DEQ/DWR WASTEWATER/GROUNDWATER LABORATORY CERTIFICATION BRANCH

LABORATORY NAME:		CERT #:			
PRIMARY ANALYST:		DATE:			
NAME OF PERSON COMPLETING CHE	CKLIST (PRINT):				
SIGNATURE OF PERSON COMPLETING	G CHECKLIST:				
Develope story Terremovatives					

Parameter: **Temperature** Method: **SM 2550 B-2010**

=quij	quipment:							
	Temperature-sensing device:							

PLEASE COMPLETE CHECKLIST IN INDELIBLE INK Please mark Y, N or NA in the column labeled LAB to indicate the common lab practice and in the column labeled SOP to indicate whether it is addressed in the SOP.

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	GENERAL	L A B	S O P	EXPLANATION			
1	Is the SOP reviewed at least every 2 years? What is the most recent review/revision date of the SOP? [15A NCAC 02H .0805 (g) (4)]			Quality assurance, quality control, and Standard Operating Procedure documentation shall indicate the effective date of the document and be reviewed every two years and updated if changes in procedures are made.			
	Date:			Verify proper method reference. During review notate deviations from the approved method and SOP.			
2	Are all review/revision dates and procedural edits tracked and documented? [15A NCAC 2H .0805 (g) (4)]			Each laboratory shall have a formal process to track and document review dates and any revisions made in all quality assurance, quality control and SOP documents.			
3	Is there North Carolina data available for review?						
4	Are the following items documented with each analysis? [15A NCAC 02H .0805 (g) (2)]						
	The method or SOP reference						
	Laboratory identification						
	Instrument identification						
	Sample collector						
	Signature or initials of the analyst						
	Sample identification						
	Date of sample collection			One date and time may be documented for sample collection			
	Time of sample collection			and analysis if there is documentation showing that the analysis is performed <i>in situ</i> , or immediately on the sample site. When			
	Date of sample analysis			this "one time" option is used, state that the documentation is			
	Time of sample analysis			both collection and analysis time.			
	Proper units of measure						
	Final value to be reported			Unless greater precision is required by the permit or data receiving agency, it is recommended that all temperature reported for compliance monitoring, be reported in whole numbers as recommended by the DWR "Precision in Discharge Monitoring Reports" document.			
	Facility name or permit number [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			If different than the Laboratory ID			
	Parameter analyzed [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]						
	PRESERVATION and STORAGE	L A B	S O P	EXPLANATION			
5	Is the sample analyzed within 15 minutes of collection? [40 CFR Part 136.3, Table II and footnote 2]						
	PROCEDURE - SAMPLE ANALYSIS	L A B	S O P	EXPLANATION			

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6	Is the temperature-measuring device immersed in the sample to the proper depth as specified by the manufacturer? [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			
	QUALITY ASSURANCE	L A B	S O P	EXPLANATION
7	Does the compliance temperature-measuring device have a valid (i.e., not expired) NIST certificate? [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			
8	If the compliance temperature-measuring device does not have a valid NIST certificate, is the device checked against a Reference Temperature-Measuring Device initially before use? [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			This may be performed by a contract laboratory. Maintain comparison data and documentation of NIST traceable temperature-measuring device information listed below.
9	Are all compliance temperature-measuring devices checked against a Reference Temperature-Measuring Device every 12 months after first use or after certificate expiration, whichever comes first? [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			
10	Is the Reference Temperature-Measuring Device, within its expiration date, only used to verify the calibration of other devices and have a stated accuracy (or uncertainty) of at least ± 0.5 °C? [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			
				Reference Temperature-Measuring Device
11	Is the serial number, stated accuracy (or uncertainty) and expiration date of the Reference Temperature-Measuring Device used in the comparison documented? [NC WW/GW LCB Approved Procedure for the Analysis of			Serial Number: Stated accuracy:
	Temperature]			Expiration date:
12	Is the compliance temperature-measuring device checked at two temperatures that bracket the range of compliance samples? [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			
13	Is the date of the verification, the serial number of the compliance temperature measuring device and all four temperatures documented? [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			Compliance Temperature-Measuring Device Verification Date: Serial Number: Temperatures: Compliance device Reference device
14	Is the difference between the readings ≤ 0.5 °C? [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			
15	If the compliance temperature-measuring device does not agree within ±0.5 °C, is the device taken out of use for compliance temperature monitoring? [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			If the device reading differs by more than 0.5°C from the Reference Temperature-Measuring Device, it may not be used. No temperature correction factors are required for this parameter.
16	Is the verification documentation kept on file for 5 years? [NC WW/GW LCB Approved Procedure for the Analysis of Temperature]			
Additio	onal Comments:			
nspec	etor:			Date: