## **QA/QC Systems Checklist**

Laboratory:		Inspection	Date:	
Lab Cert. #:		Q.A. Cont	act:	
Inspector:		Inspector:		
SOP and QC Documents (*1)				
LQAP:	□ Yes □	No	Revision Date	Review Date
SOP:	☐ Yes [	- ] No		
Combination:	☐ Yes □	] No		
Manual Integration (where required):	☐ Yes □	] No		
		-		
Copy of reference method readily ava	ilable? 🗌 Y	es 🗌 No	)	
Required MDL Studies on file?	ר 🗌 א	res 🗌 No	)	
Required DOC Studies on file?	ר 🗌 א	res 🗌 No	)	
Studies updated as required?	ו 🗌	/es 🗌 No	)	
Laboratory Equipment Checks				
Thermometers (*5 *1)				
NIST Thermometer I.D.:			5 1)	_
Re-cert. 5 Years? 🗌 Yes 🔲 No	Date Certified	d:		
Laboratory Thermometers Checked a Laboratory Thermometer Checks doo Corrections Posted (Even if 0 °C corre	umented?		very 12 months? 🗌 Yes [	] No
Outside NIST thermometer used for verification?  Yes No				
	Wei	ghts (*6 *1)		
Class S equiv. weights?	No Condi	tion:		
Re-cert. every 5 Years?  Yes	No	Date Verif	ied:	
Balance log(s)?	Yes	] No		
Balance Checks?	Yes	<b>No</b> (a min	imum of 3 weight each quarter and	1 each day of use)
Balance Level?	Yes	No		
Shock Proof (Table or Platform)? Balance Service Date(s):	Yes [	No		

	La	aboratory Equipment Checks	
		Desiccators (*12)	
Adequate seal	🗌 Yes	🗌 No	
Active desiccant	🗌 Yes	🗌 No	
		Pipettes (*10*1)	
Pipette Devices (Micro	o-pipettes, etc.)	calibrated at least twice per year?	🗌 Yes 🔲 No
(approximately six mo	nths apart)		
	Ref	rigerators/Freezers/Ovens (*4*	1)
Refrigerator Logs	🗌 Yes	No	
Freezer Logs	☐ Yes	🗌 No	
Oven Logs	🗌 Yes	🗌 No	
		General Information (*11)	
Equipment/Instrument	Maintenance L	ogs (recommended)? 🗌 Yes 🗌 No	)
Copy of Equipment Ma			
	S	Sample Preservation QC (*2*1)	
Proper Sample contair	ners on-site for	specified analytical methods?	🗌 Yes 🗌 No
Containers Purchas	sed (certified)	Containers Lab Prepped	ainers re-used
Containers lot or batch	n tested?		🗌 Yes 🗌 No
Are Acids, Bases and	other preservati	ve of the proper purity?	🗌 Yes 🗌 No
Preservatives are with	in stated expirat	tion dates?	🗌 Yes 🗌 No
Storage/Transportation	n kits contain de	etailed instructions?	🗌 Yes 🗌 No
Preservative kits are lo	ot or batch teste	d for contamination (recommended)?	🗌 Yes 🗌 No
Sta	andard and F	Reagent Documentation of Tra	aceability (*1*7)
U.C.			
Chemical/Reagent Re	ceipt Log?	Yes 🗌 No	
Date Received	] Date Opened	Date In service Vendor	Lot # Expiration Date
Standard/Reagent Pre	ep. Log?	Yes 🗌 No	
Standard/re	eagent prep dat	e Procedure (calculations)	Analysts Initials
<b>Consumable Materials</b>	Log?	Yes 🗌 No	

Microbiological Materials Test Log Where required?

## Traceability to Source Materials (\*1\*7)

Check system in at least one category (where applicable) To be completed by inspector.

Organics

Metals

Inorganic Biological

## Analytical Quality Control Overview (\*1\*9\*3)

PTs analyzed/documented as samples	Yes No
Duplicates Analyzed	Yes No
Duplicates Evaluated	Yes No
LCS Analyzed	Yes No
LCS Evaluated	Yes No
Spikes Analyzed When Required	Yes No
Spikes Evaluated	Yes No
Data Qualified	Yes No
Final Report Qualified	Yes No
Client Notified (When Applicable)	Yes No
DMR Qualified (When Applicable)	Yes No
Corrective Actions Taken For Q.C. Failure?	Comment:

## Data Management (\*8)

Data review by peer and/or supervisor (recommended)?	🗌 Yes	🗌 No
Data complete (e.g., units, initials, dates, sample I.D.)?	🗌 Yes	🗌 No
Copies/original of subcontracted results to client?	🗌 Yes	🗌 No
Non-certified data identified on benchsheets and reports?	🗌 Yes	<b>No</b> (*13)

Footnote 1:	Requirements specific to quality control plans, documentation of proper analytical practices, supporting documentation, and document retention are found in 15A NCAC 2H .0805 (a) (7), (A) and (E) and (G).
Footnote 2:	Requirements specific to sample containers, pre-treatment, preservation, shipping and storage are found in 40 CFR Part 136 Table II and 15A NCAC .0805 (a) (7) (M).
Footnote 3:	Requirements specific to documentation and notification for sample anomalies and quality control failures are found in 15A NCAC 2H .0805 (a) (7) (N).
Footnote 4:	Requirements related to documentation of laboratory equipment temperatures (i.e., refrigerators, ovens, etc.) are found in 15A NCAC 2H .0805 (a) (7) (J).
Footnote 5:	Requirements related to verification/calibration of thermometers and temperature sensors are found in 15A NCAC .0805 (a) (7) (O) and North Carolina Wastewater/Groundwater Laboratory Certification (NC WW/GW LC) Policy.
Footnote 6:	Requirements related to verification/calibration of balances and Class "S" or equivalent weights are found in 15A NCAC .0805 (a) (7) (D) and (K) and NC WW/GW LC Policy.
Footnote 7:	Requirements related to receipt of chemicals, standards, regents, and laboratory consumables are found in 15A NCAC .0805 (a) (7) (L) and NC WW/GW Certification Policy.
Footnote 8:	Requirements related to data reporting units, signatures, client notification regarding subcontracted analysis and the reporting of uncertified data are found in 15A NCAC 2H .0805 (a) (7) (H), (e) (1), (2) and (3).
Footnote 9:	Requirements related to analysis of duplicates, laboratory/matrix spikes, and laboratory control standards and corrective action for Q.C failures are found in 15A NCAC 2H .0805 (a) (7) (C) and (D) and (F).
Footnote 10:	Where methods and/or regulations are not specific or require clarification, a North Carolina Wastewater/Groundwater Laboratory Certification Policy statement is cited.
Footnote 11: Footnote 12: Footnote 13:	Requirements related to on-site copies of procedures and methods are found in 15A NCAC 2H .0805 (a) (6) (F). Requirements related necessary equipment, reagents and chemicals are found in 15A NCAC 2H .0805 (a) (6) (H). Definition of uncertified data is found in 15A NCAC 2H .0803.

Additional Comments:		
Lab Contact/Q.A:		
(Print Name Please)	(Print Name Please)	
Lab Contact/Q.A: Date:		
(Signature)		
Inspector:Date:		