STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
DIVISION OF WATER QUALITY
WASTEWATER/GROUNDWATER LABORATORY CERTIFICATION

Application for Initial Environmental Laboratory Certification

Form #100-app October 3, 2012

INSTRUCTIONS: This application is only one part of the certification process; completing and submitting an application does not constitute certification. Upon review of the completed application, additional clarifications and documentation may be required. Clarifications and additional requested information received in a timely manner will expedite your application process. Please complete all applicable parts of this form using a typewriter, computer, or print legibly in ink.

To apply for certification, return the original and one copy of this application to:

DENR/DWQ Laboratory Section
Certification Unit
1623 Mail Service Center
Raleigh, NC 27699-1623

For additional information, contact the Laboratory Certification program office:
Telephone: 919-733-3908
Fax: 919-733-6241
Program Homepage: http://portal.ncdenr.org/web/wq/lab/cert

APPLICATION FEES: An applicant for *initial certification* must submit to the Department of Environment and Natural Resources, Laboratory Section, a non-refundable fee of three hundred dollars ($300.00) *for the evaluation and processing of each application. Application fees apply to all non-field facilities requesting initial certification after October 1, 2001.*

ANNUAL FEES: Annual Certification Fees will be calculated in accordance with 15A NCAC 2H .0800. An annual minimum fee of $1350.00 will be assessed to all Municipal, Industrial, and Other laboratories. Commercial laboratories must pay an annual minimum fee of $2,700.00. *Do not submit annual fees until you are issued an invoice. Invoices will be issued after completion of the application process.*

RECIPROCITY: For reciprocal certification, submit a copy of the current certificate, a list of accredited Fields of Testing, proficiency testing results for samples analyzed within the six months prior to this application and the most recent on-site inspection report. Reciprocity is not guaranteed, in some cases, submitted documentation may be insufficient to grant certification by reciprocity and an on-site inspection will be performed.

Section A: Facility and Contact Information

OFFICE USE ONLY
CERT#:_____

Facility Name:

EPA Lab Code: (If applicable) NPDES Permit Number(s):

Contact Person*: Telephone #, ext.

Contact Person E-Mail Address:

Laboratory Manager **: Telephone #, ext.

Laboratory Manager E-Mail Address:

Laboratory Supervisor: Telephone #, ext.

Laboratory Supervisor E-Mail Address:

Quality Assurance Officer (if applicable): Telephone #, ext.

Quality Assurance Officer E-Mail address:

Facility Address: City State Zip

Mailing Address: City State Zip

County (NC applicant only): Fax Number:

* For North Carolina Wastewater/Groundwater Laboratory Certification (NC WW/GW LC) purposes, the Contact Person may also be either the Laboratory Supervisor or the Laboratory Manager.

** For NC WW/GW LC purposes, the Laboratory Manager shall be administratively above the Laboratory Supervisor (they cannot be the same person except at commercial laboratories where the owner is the laboratory supervisor and there is no one administratively above the laboratory supervisor).

Section B: Laboratory Supervisor Information **NOTE**: An attached resume may be substituted for this section.

1. Education: List the College(s), University (ies), or Technical Institute(s) attended, dates of attendance and degree received.

2. Experience: List work-related experience, indicating the employer, years of employment, and basic job description. Also list pertinent licenses, Operator Certification and grade, etc.

_____

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3. References: List three people familiar with your professional competency, provide contact information for each in the form of a telephone number or e-mail address.

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Section C: Laboratory Information

1. Application Type

☐ Initial Certification ☐ Initial Certification by Reciprocity* Reciprocal State _____

* Reciprocity will be granted for initial certification only. Maintenance inspections may be performed by the NC WW/GW LC program.

2. Description of Laboratory (check all that apply)

MUNICIPAL, INDUSTRIAL, OTHER		COMMERCIAL LABORATORY (fees for analytical services)		TYPES OF SAMPLES PROCESSED	
Municipal Wastewater Laboratory		Commercial Laboratory		Wastewater Effluent	
State/County Health Laboratory		Commercial Mobile Laboratory		Industrial	
Other State Laboratory				Pretreatment	
University/Academic Laboratory				Groundwater	
Municipal Public Water Supply				Surface Waters	
Industrial Laboratory				UST (Underground Storage Tanks)	
				Hazardous Waste	
				Soils/Sediment/Sludge	
				Reclaimed Water	
				Other (specify) _____	

Section D: Quality Assurance

Proficiency Testing (PT) - Prior to issuance of certification, this *office* ***must receive acceptable proficiency test sample results*** from a NELAC or ACLASS-accredited provider for each of the requested parameter method technologies for which certification is requested and for which PT samples are available (refer to the NC WW/GW LC website for required PTs). All testing rounds must have occurred within the six months prior to the date of application. For multi-analyte parameters (e.g., Volatile Petroleum Hydrocarbons), results for all spiked components from the primary list of the target group must be reported. Alternatively, the laboratory may appeal to report an abbreviated list if they can demonstrate that the abbreviated list will be a routine reporting scheme for North Carolina client data reporting.

Are PT samples for each of the requested analytical parameter method technologies being sent to the Laboratory Section?

Yes ____ No ____ If not supplied, are they on order? Yes ____ No ____ Anticipated Completion Date _____

Results are not supplied for the following parameter method technologies: _____

- **Submit *one* copy of the Laboratory's Quality Assurance Manual**, which must include the established quality control limits (where appropriate to the method) for all requested parameters. The Quality Assurance manual may also contain Standard Operating Procedures (SOPs) for each method that certification is requested. If not, these may be requested. The Quality Assurance manual must provide a listing of major equipment used in the analytical testing process.

- Calculated Minimum Detection Limits (MDLs) and Initial Demonstration of Capability (IDOCs) studies for: Analytes by Ion Chromatography, Oil and Grease by EPA 1664, all Organic determinations, Inductively Coupled Plasma (ICP) and ICP-Mass Spec (ICP-MS) metals **MUST be submitted**, if certification is requested, with the completed application. MDL studies must be conducted as specified by 40 CFR Part 136, Appendix B. For other parameters, the laboratory attests by signing this application that it has those MDLs and IDOCs; where required by the methods, on file. MDL and IDOC study summaries for any analytical category *may* be requested to evaluate the lab's ability to meet the requirements of certification.

Section E: Analytical Methods

Parameters for which certification may be requested are listed below. **This list is not all inclusive, but represents the parameter method technologies most often requested. Submit a request for additional parameter method technologies by writing the reference and method number in the "Other" column next to the appropriate parameter.** Please (A) circle appropriate parameters, (B) circle or write in the analytical method(s) used for analysis, and (C) provide the lower reporting limit concentration with units of measure. Note: For all organic analytical categories, please attach a typed list of analyte-specific lower reporting limits. Note: DO NOT provide us with the laboratory method detection limit, unless the lower reporting limit and method detection limit are the same.

Inorganic Analytical Parameters	Technology	Matrix		EPA Methods	Standard Methods	EPA SW-846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Acidity	Titration				2310 B-1997				
Alkalinity	Titration				2320 B-1997				
	Automated			310.2, Rev. 1974					

Inorganic Analytical Parameters	Technology	Matrix		EPA Methods	Standard Methods	EPA SW-846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Biochemical Oxygen Demand (BOD_5)	D.O. Depletion				5210 B-2001				
	Luminescence Based Sensor				5210 B-2001		In-Situ 1003-8-2009		
Bromide	Ion Chromatography			300.0, Rev. 2.1 (1993), 300.1-1, Rev. 1.0 (1997)	4110 B-2000 4110 C-2000 4110 D-2000				
	Electrode						ASTM D1246-05		
Carbonaceous BOD, ($CBOD_5$)	D.O. Depletion with Nitrification Inhibitor				5210 B-2001				
	Luminescence Based Sensor				5210 B-2001		In-Situ 1004-8-2009		
Chemical Oxygen Demand, (COD)	Titrimetric			410.3, Rev.1978	5220 C-1997		ASTM D1252-06 (A)		
	Automated			410.4, Rev. 2.0 (1993)	5220 D-1997		ASTM D1252-06 (B)		
	Manual Colorimetric						Hach 8000		
Chloride	Titrimetric ($AgNO_3$)				4500-Cl^- B-1997	9253			
	Titrimetric ($HgNO_3$)				4500-Cl^- C-1997				
	Automated				4500-Cl^- E-1997	9251			
	IC			300.0, Rev. 2.1 (1993), 300.1-1, Rev. 1.0 (1997)	4110 B-2000	9056A			
	Electrode						ASTM D512-04 (C)		

Inorganic Analytical Parameters	Technology	Matrix		EPA Methods	Standard Methods	EPA SW-846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Chlorine, Free Available	Amperometric				4500-Cl D-2000 4500-Cl E-2000				
	DPD-FAS				4500-Cl F-2000				
	Spectrophotometric, DPD				4500-Cl G-2000				
Chlorine, Total Residual	Iodometric Titration				4500-Cl B-2000				
	Titration				4500-Cl C-2000				
	Amperometric Titration				4500-Cl D-2000				
					4500-Cl E-2000				
	DPD Colorimetric				4500-Cl G-2000				
	DPD-FAS				4500-Cl F-2000				
	Electrode						Orion Electrode, 1977		
Color	PtCo				2120 B-2001				
	ADMI				2120 E				
Conductivity at 25ºC	Wheatstone Bridge			120.1, Rev. 1982	2510 B-1997	9050A			
Cyanide, Total	Titrimetric				4500-CN^- D-1999	9014			
	Manual Colorimetric				4500-CN^- E-1999	9014			
	Ion Selective Electrode				4500-CN^- F-1999				
	Manual or Semi-automated prep with (**circle one**): FI/Gas Diffusion Amp, Titrimetric, Spectrophotometric			335.4, Rev 1.0 (1993)		9012B	Lachat 10-204-00-1-X		
	Automated UV digestion/distillation and Colorimetric						Kelada-01		

Inorganic Analytical Parameters	Technology	Matrix		EPA Methods	Standard Methods	EPA SW-846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Cyanide, Available	FIA/Ligand Exchange						OIA-1677-09		
	Automated						Kelada-01		
Dissolved Organic Carbon (DOC)	Combustion				5310 B-2000				
	Heated Persulfate or UV Oxidation				5310 C-2000				
					5310 D-2000				
Dissolved Oxygen (DO)	Winkler				4500-O C-2001				
	Electrode				4500-O G-2001		ASTM D888-09 (B)		
	Luminescence Based Sensor						ASTM D888-09 (C)		
							Hach 10360		
							In-Situ 1002-8-2009		
Fluoride	Electrode					9214			
	Manual Colorimetric				4500-F^- D-1997				
	Automated				4500-F^- E-1997				
	IC			300.0, Rev. 2.1(1993), 300.1-1, Rev. 1.0 (1997)	4110 B-2000	9056A			
Hardness, Total	Automated			130.1 (1971)					
	Titrimetric (EDTA)				2340 C-1997				
	Calculation, Ca plus Mg as their carbonates - **Note determinative method(s) here:** Ca – Mg -				2340 B-1997				

Inorganic Analytical Parameters	Technology	Matrix		EPA Methods	Standard Methods	EPA SW-846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Ignitability	Aqueous					1010A			
	Solids					1030			
MBAS as Surfactants	Manual Colorimetric				5540 C-2000				
Nitrogen, Ammonia	Titration				4500-NH3 C-1997				
	Electrode				4500-NH_3 D-1997				
					4500-NH_3 E-1997				
	Automated Phenate			350.1, Rev. 2.0 (1993)	4500-NH_3 G-1997				
					4500-NH_3 H-1997				
Nitrogen, Total Kjeldahl (**please indicate the determinative method with the preparation method**)	Prep				4500-N_{org} B-1997 4500-N_{org} C-1997				
	Titration				4500-NH_3 C-1997		Devarda's alloy AWNM[(1)]		
	Electrode				4500-NH_3 D-1997				
	Electrode				4500-NH_3 E-1997				
	Automated Phenate			351.1 (1978)	4500-NH_3 G-1997				
				351.2, Rev. 2.0 (1993)					
	Manual Phenate				4500-NH_3 F-1997				
Nitrogen, Nitrate-nitrite	Cadmium Reduction, Manual				4500-NO_3^- E-2000				
	Cadmium Reduction, Automated			353.2, Rev. 2.0 (1993)	4500-NO_3^- F-2000				
	Automated Hydrazine				4500-NO_3^- H-2000				
	IC			300.0, Rev. 2.1 (1993), 300.1-1, Rev. 1.0 (1997)	4110 B-2000	9056A			

Inorganic Analytical Parameters	Technology	Matrix		EPA Methods	Standard Methods	EPA SW-846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Nitrogen, Nitrate	Colorimetric Brucine			352.1 (1971)					
	Electrode				4500-NO_3^- D-2000				
	IC			300.0, Rev. 2.1 (1993), 300.1-1, Rev. 1.0 (1997)	4110 B-2000	9056A			
	Calculation				Nitrate-nitrite N minus Nitrite N – **Note determinative methods here:** NO3+NO2 – NO2 -				
Nitrogen, Nitrite	Automated Bypass Cadmium Reduction			353.2, Rev. 2.0 (1993)	4500-NO_3^- F-2000				
	Manual Colorimetric				4500-NO_2^- B-2000		Hach 8507		
	Manual Bypass Cadmium Reduction				4500-NO3-E-2000		ASTM D3867-04 (B)		
	IC			300.0, Rev. 2.1 (1993), 300.1-1, Rev. 1.0 (1997)	4110 B-2000	9056A			
Oil & Grease, HEM	Gravimetric			1664 Rev. B	5520 B-2001	9070A			
						9071B			
Ortho-phosphate	Manual Colorimetric			365.3 (1978)	4500-P E-1999				
	Automated			365.1, Rev. 2.0 (1993)	4500-P F-1999				
	IC			300.0, Rev. 2.1 (1993), 300.1-1, Rev. 1.0 (1997)	4110 B-2000	9056A			

Inorganic Analytical Parameters	Technology	Matrix		EPA Methods	Standard Methods	EPA SW-846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Paint Filter Liquids	Gravimetric					9095B			
pH	Electrode				4500-H^+ B-2000	9040C	AWNM[1]		
						9045D			
	Automated Electrode			150.2 (1982)					
Phenols, Inorganic	Manual Colorimetric			420.1 (1978)		9065			
						9066			
	Automated			420.4, Rev. 1.0 (1993)					
Phosphorus, Total	Manual Colorimetric			365.3 (1978)	4500-P E-1999				
	Automated			365.1, Rev. 2.0 (1993)	4500-P F-1999 4500-P G-1999				
				365.4 (1974)					
	ICP-AES			200.7, Rev. 4.4 (1994)		6010C			
	Mehlich 3 Extraction (**please note determinative method here**):						AWNM[1]		
Residue, Settleable	Volumetric				2540 F-1997				
Residue, Total	Gravimetric				2540 B-1997				
Residue, Total Dissolved	Gravimetric				2540 C-1997				
Residue, Total Suspended	Gravimetric				2540 D-1997				
Residue, Volatile	Gravimetric			160.4 (1971)	2540 E-1997				
Salinity	Electrical Conductivity				2520 B				

Inorganic Analytical Parameters	Technology	Matrix		EPA Methods	Standard Methods	EPA SW-846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Sulfate	Automated			375.2, Rev. 2.0 (1993)					
	Gravimetric				4500-SO_4^{2-} C-1997				
					4500-SO_4^{2-} D-1997				
	Turbidimetric				4500-SO_4^{2-} E-1997	9038	ASTM D516-07		
	IC			300.0, Rev. 2.1 (1993), 300.1-1, Rev. 1.0 (1997)	4110 B-2000	9056A			
Sulfide	Titrimetric				4500-S^{2-} F-2000	9034			
						9031			
	Manual Colorimetric				4500-S^{2-} D-2000				
Sulfite	Titrimetric				4500 $S0_3^{2-}$ B-2000				
Temperature	Thermometric				2550 B-2000		USGS Method 1975		
Total Organic Carbon, (TOC)	Combustion				5310 B-2000	9060A			
	Heated Persulfate or UV Oxidation				5310 C-2000	9060A			
					5310 D-2000				
Turbidity	Nephelometric			180.1, Rev. 2.0 (1993)	2130 B -2001				

(1) Animal Waste Nutrient Management (AWNM).

Biological Analytical Parameters	Technology	Matrix		EPA Methods	Standard Methods	EPA SW-846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
Chlorophyll *a*	Fluorometric			445.0, Rev. 1.2	10200 H				
	Spectrophotometric			446.0, Rev. 1.2	10200 H				
Coliform, Fecal (MF)	MF			p.124[(2)], 1978	9222 D-1997		9222D Sludge, 24 hr. hold time		
Coliform, Fecal (MPN)	MPN			p.132[(2)], 1978	9221 C E-2006		9221C Sludge, 24 hr. hold time		
				1680 Sludge, 24 hr. hold time					
				1681 Sludge, 24 hr. hold time					
Coliform, Total (MF)	MF			p.108[(2)]	9222 B-1997				
Coliform, Total (MPN)	MPN			p.114[(2)]	9221 B-2006				
Enterococci	MPN						ASTM D6503-99		
							Enterolert® (IDEXX)		
	MF			1600					
Escherichia Coliform (E. coli)	MPN				9223 B-2004		Colilert®		
							Colilert-18®		
	MF			1603			mColiBlue-24®		
Salmonella	MPN			1682					
	MF						Kenner & Clark, 1974		

(2) Microbiological Methods for Monitoring the Environment, Water, and Wastes, EPA/600/8-78/017. 1978. US EPA.

Vector Attraction Reduction (VAR)

Note: Vector Attraction Reduction requirements are now covered under 15A NCAC 02T Permit Rules. The Rule pertaining to Vector Attraction Reduction requirements can be found on the Laboratory Certification website at http://portal.ncdenr.org/web/wq/lab/cert/nonfield/rules.

VAR Options Available Method Reference for each: "Control of Pathogens and Vector Attraction in Sewage Sludge" - EPA/625/R-92/013 revised July 2003	Indicate with a check mark *all* options used by your facility.	OFFICE USE ONLY
Option 1: Reduction in Volatile Solids Content		
Option 2: Additional Digestion of Anaerobically Digested Sewage Sludge		
Option 3: Additional Digestion of Aerobically Digested Sewage Sludge		
Option 4: Specific Oxygen Uptake Rate (SOUR) for Aerobically Digested Sewage Sludge		
Option 5: Aerobic Processes, Greater Than 40°C		
Option 6: Addition of Alkali		
Option 7: Moisture Reduction of Sewage Sludge Containing No Unstabilized Solids		
Option 8: Moisture Reduction of Sewage Sludge Containing Unstabilized Solids		
Option 12: Raising the pH of Domestic Septage		

Metals By Analyte	Technology	Matrix		EPA Methods	Standard Methods	EPA SW- 846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Aluminum	FAA				3111 D-1999, 3111 E-1999	7000B			
	GFAA				3113 B-2004				
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500-Al B-2001				
Antimony	FAA				3111 B-1999	7000B			
	GFAA				3113 B-2004	7010			
	STGFAA								
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
Arsenic	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	FAA				3114 B-2009, 3114 C-2009	7061A, 7062			
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500-As B-1997				
Barium	FAA				3111 D-1999	7000B	AES 0029		
	GFAA				3113 B-2004	7010			
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
Beryllium	FAA				3111 D-1999	7000B			
	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500-Be D-1990				

Metals By Analyte	Technology	Matrix		EPA Methods	Standard Methods	EPA SW- 846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Boron	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
Cadmium	FAA				3111 B-1999, 3111 C-1999	7000B	AES 0029		
	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500-Cd D-1990				
Calcium	FAA				3111 B-1999	7000B			
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Titrimetric (EDTA)				3500-Ca B1997				
	Mehlich 3						AWNM(1)		
Chromium, Total	FAA				3111 B-1999, 3111 C-1999	7000B			
	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C	AES 0029		
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500-Cr B-2009				
Chromium VI	FAA				3111 C-1999				
	Ion Chromatography			218.6, Rev. 3.3 (1994)	3500-Cr C-2009	7199			
	Manual Colorimetric				3500-Cr B-2009	7196A			
Cobalt	FAA				3111 B-1999, 3111 C-1999	7000B			
	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			

Metals By Analyte	Technology	Matrix		EPA Methods	Standard Methods	EPA SW- 846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Copper	FAA				3111 B-1999, 3111 C-1999	7000B			
	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C	AES 0029		
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500-Cu B-1999				
	Mehlich 3						AWNM(1)		
Iron	FAA				3111 B-1999, 3111 C-1999	7000B			
	GFAA				3113 B-2004	7010			
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C	AES 0029		
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500-Fe-1997				
Lead	FAA				3111 B-1999, C-1999	7000B			
	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C	AES 0029		
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500-Pb B-1997				
Lithium	FAA				3111 B-1999	7000B			
	ICP/AES			200.7, Rev. 4.4 (1994)		6010C			
Magnesium	FAA				3111 B-1999	7000B			
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Mehlich 3						AWNM(1)		

Metals By Analyte	Technology	Matrix		EPA Methods	Standard Methods	EPA SW- 846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Manganese	FAA				3111 B-1999	7000B			
	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C	AES 0029		
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500-Mn B-1999				
	Mehlich 3						AWNM(1)		
Mercury	CVAA, Manual			245.1, Rev. 3.0 (1994)	3112 B-2009	7470A 7471B			
	CVAA, Automated			245.2 (Issued 1974)					
	CVAFS			245.7, Rev. 2.0 (2005)					
	ICP/AES					6010C			
	ICP/MS					6020A			
	P&T/CVF			1631E					
Molybdenum	FAA				3111 D-1999	7000B			
	GFAA				3113 B-2004	7010			
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
Nickel	FAA				3111 B-1999, 3111 C-1999	7000B			
	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C	AES 0029		
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
Phosphorus, Total	ICP/AES			200.7, Rev. 4.4 (1994)		6010C			
	Mehlich 3						AWNM(1)		

Metals By Analyte	Technology	Matrix		EPA Methods	Standard Methods	EPA SW- 846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Potassium	FAA				3111 B-1999	7000B			
	ICP/AES			200.7, Rev. 4.4 (1994)		6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Mehlich 3						AWNM(1)		
Selenium	FAA				3114 B-2009, 3111 C-2009	7741A			
	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
Silica	Manual Colorimetric				4500-SiO_2 C-1997				
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
Silver	FAA				3111 B-1999, 3111 C-1999	7000B	AES 0029		
	GFAA				3113 B-2004	7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
Sodium	FAA				3111 B-1999	7000B			
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Mehlich 3						AWNM(1)		
Strontium	FAA				3111 B-1999	7000B			
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
Thallium	FAA				3111 B-1999	7000B			
	GFAA			279.2 (Issued 1978),		7010			
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			

Metals By Analyte	Technology	Matrix		EPA Methods	Standard Methods	EPA SW- 846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Tin	FAA				3111 B-1999	7000B			
	GFAA				3113 B-2004				
	STGFAA			200.9, Rev. 2.2 (1994)					
	ICP/AES			200.7, Rev. 4.4 (1994)		6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
Titanium	FAA				3111 D-1999				
	GFAA			283.2 (Issued 1978)					
	ICP/AES			200.7, Rev. 4.4 (1994)		6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
Vanadium	FAA				3111 D-1999	7000B			
	GFAA					7010			
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500-V B-1997				
Zinc	FAA				3111 B-1999, 3111 C-1999	7000B	AES 0029		
	GFAA			289.2 (Issued 1978)		7010			
	ICP/AES			200.7, Rev. 4.4 (1994)	3120 B-1999	6010C			
	ICP/MS			200.8, Rev. 5.4 (1994)		6020A			
	Manual Colorimetric				3500 Zn B-1997				
	Mehlich 3						AWNM(1)		
Toxicity Characteristic Leaching Procedure for Metals (TCLP)						1311			

Metals By Analyte	Technology	Matrix		EPA Methods	Standard Methods	EPA SW- 846	Other (Include Reference and Method No.)	Lower Reporting Limit Conc. (Include Units)	OFFICE USE ONLY
		Aqueous	Non-Aqueous						
Synthetic Precipitation Leaching Procedure for Metals (SPLP)						1312			

(1) Animal Waste Nutrient Management (AWNM).

Organic Parameters By Analytical Category	Technology	Matrix		EPA Methods	Standard Methods	EPA SW- 846	Other (Include Reference and Method No.)	OFFICE USE ONLY
		Aqueous	Non-Aqueous					
Purgeable Halocarbons	GC			601	6200 C-1997	8021B		
Purgeable Aromatics	GC			602	6200 C-1997	8021B		
Acrolein, Acrylonitrile, Acetonitrile	GC			603 (Acrolein & Acrylonitrile)		8031 (Acrylonitrile), 8033 (Acetonitrile)		
	GC/MS			624 (Acrolein & Acrylonitrile)				
Organic Phenols	GC			604	6420 B-2000	8041A		
Benzidines	HPLC			605				
Phthalate Esters	GC			606		8061A		
	GC/MS				6410 B-2000			
Nitrosamines	GC			607		8070A		
Organochlorine Pesticides	GC					8081B		
Polychlorinated Biphenyls (PCBs)	GC			608		8082A		
Organochlorine Pesticides & PCBs	GC			608	6630 B-2000 6630 C-2000			
Nitroaromatics & Isophorone	GC			609				
Nitroaromatics & Nitramines	HPLC					8330A		
Polynuclear Aromatic Hydrocarbons	HPLC			610	6440 B-2000	8310		
	GC			610		8100		
Haloethers	GC			611		8111		
Chlorinated Hydrocarbons	GC			612		8121		
Purgeable Organics	GC/MS			624, 1624B	6200 B-1997	8260B		
Base/Neutral & Acid Organics	GC/MS			625, 1625B	6410 B-2000	8270D		
Chlorinated Acid Herbicides	GC			615	6640 B-2001	8151A		
Organophosphorus Pesticides	GC			614		8141B		
Nonhalogenated Volatile Organics	GC					8015C		
N-Methylcarbamates	HPLC			632		8318A		
1,2 - Dibromoethane (EDB)	GC			504.1		8011		

Organic Parameters By Analytical Category	Technology	Matrix		EPA Methods	Standard Methods	EPA SW- 846	Other (Include Reference and Method No.)	OFFICE USE ONLY
		Aqueous	Non-Aqueous					
Total Petroleum Hydrocarbons (TPH) Gasoline Range Organics	GC					8015C		
Total Petroleum Hydrocarbons (TPH) Diesel Range Organics	GC					8015C		
Extractable Petroleum Hydrocarbons (EPH)	GC						Massachusetts Method, May 2004, rev. 1.1	
Volatile Petroleum Hydrocarbons (VPH)	GC						Massachusetts Method, May 2004, rev. 1.1	
Chlorinated Phenolics	GC/MS			1653				
Adsorbable Organic Halides	Adsorption/ Titration			1650				
Total Organic Halides (TOX)	Microcoulometer/ Titration Detector					9020B		
Toxicity Characteristic Leaching Procedure for Organics (TCLP)	Leachates					1311		
Synthetic Precipitation Leaching Procedure for Organics (SPLP)	Leachates					1312		

Section F: Authorized Signature(s)

This statement certifies that the information in this application is truthful and accurate, and that the applicant is aware of all regulations regarding the requirements of Laboratory Certification, 15A NCAC 2H .0800.

Signature of Laboratory Manager _____ **Date** _____

Print Name _____

(First) **(M.I.)** **(Last)**

Signature of Laboratory Supervisor: _____ **Date** _____

Print Name _____

(First) **(M.I.)** **(Last)**