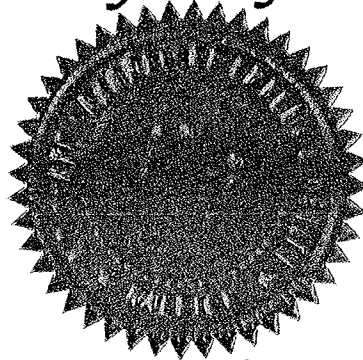


North Carolina
Department of Health and Human Services
Laboratory Certification



*In accordance with the provisions of regulations 10A NCAC 42D 0.200
certification for the analysis of drinking water has been granted to*

Underwriters Laboratories Inc.
South Bend IN

Laboratory Number 18700

For the following analyte group(s)

Microbiology, Inorganic Chemicals,
Synthetic Organic Chemicals, Volatile Organic Chemicals
Radiochemistry
(Refer to recent status sheet)

July 1, 2011

Issue date

July 31, 2012

Expiration date

Jeffrey P. Engel, M.D.
State Health Director

Leslie Wolf, PhD
Director, State Laboratory

A handwritten signature in black ink, appearing to read "Chris Goforth".

Chris Goforth
Drinking Water Certification

*This laboratory has met the minimum requirements for the certification to analyze drinking water.
This certificate does not guarantee accurate results.*

*North Carolina Department of Health and Human Services
State Laboratory of Public Health*

UNDERWRITERS LABORATORIES INC.

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North Carolina Drinking Water Certification Status Sheet :

Analyte Code (UR = Unregulated)		Method Code	Method
Coliforms			
3100	Coliform	9223B	Colilert/Colilert18
3014	E. coli	9223B-MW	Colilert Multiple well
3014	E. coli	9223B	Colilert/Colilert18
Metals			
1074	Antimony	200.8	Inductively Coupled Plasma/MS
1005	Arsenic	200.8	Inductively Coupled Plasma/MS
1010	Barium	200.8	Inductively Coupled Plasma/MS
1075	Beryllium	200.8	Inductively Coupled Plasma/MS
1015	Cadmium	200.8	Inductively Coupled Plasma/MS
1016	Calcium (UR)	200.7	Inductively Coupled Plasma
1020	Chromium	200.8	Inductively Coupled Plasma/MS
1022	Copper	200.8	Inductively Coupled Plasma/MS
1028	Iron	200.7	Inductively Coupled Plasma
1030	Lead	200.8	Inductively Coupled Plasma/MS
1031	Magnesium	200.7	Inductively Coupled Plasma
1032	Manganese	200.8	Inductively Coupled Plasma/MS
1032	Manganese	200.7	Inductively Coupled Plasma
1035	Mercury	245.1	Manual Cold Vapor
1036	Nickel	200.8	Inductively Coupled Plasma/MS
1045	Selenium	200.8	Inductively Coupled Plasma/MS
1049	Silica (UR)	200.7	Inductively Coupled Plasma
1050	Silver (UR)	200.7	Inductively Coupled Plasma
1050	Silver (UR)	200.8	Inductively Coupled Plasma/MS
1052	Sodium	200.7	Inductively Coupled Plasma
1085	Thallium	200.8	Inductively Coupled Plasma/MS
1095	Zinc (UR)	200.8	Inductively Coupled Plasma/MS

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General Chemistrv			
1927	Alkalinity	2320B	Titrimetric
1011	Bromate	317.0	Ion Chromato. - Post col. Rx.
1011	Bromate	300.1	Ion Chromatography
1004	Bromide	300.0	Ion Chromatography
1919	Calcium Hardness (as CaCO ₃)	2340B	Hardness by calculation
1017	Chloride (UR)	300.0	Ion Chromatography
1009	Chlorite	300.0	Ion Chromatography
1905	Color (UR)	2120B	Visual - Color
1064	Conductivity (UR)	2510B	Conductance @ 25 C
1024	Cyanide	335.4	Spectrophoto., semi-automated
2919	Dissolved Organic Carbon (DOC)	5310C	Persulfate-UV Oxidation
1025	Fluoride	380-75WE	Automated Electrode, Technicon
1025	Fluoride	4500F-C	Ion Selective Electrode
1025	Fluoride	300.0	Ion Chromatography
1915	Hardness, Total (CaCO ₃)	2340B	Hardness by calculation
1040	Nitrate	300.0	Ion Chromatography
1040	Nitrate	353.2	Cadmium reduction, automated
1041	Nitrite	353.2	Cadmium reduction, automated
1044	Orthophosphate (UR)	4500P-E	Colorimetric, manual
1925	pH Units (UR)	150.1	Electrometric, individual
1055	Sulfate	300.0	Ion Chromatography
1930	TDS-Total Dissolved Solids	2540C	Gravimetric
2920	Total Organic Carbon (TOC)	5310C	Persulfate-UV Oxidation
0100	Turbidity (UR)	180.1	Nephelometric
2922	UV Absorbance @ 254 nm	5910B	Ultraviolet Absorption

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THMs			
2943	Bromodichloromethane	524.2	GC/MS - P&T, Cap col.
2943	Bromodichloromethane	551.1	GC - Micro L/L, Cap col, ECD
2942	Bromoform	524.2	GC/MS - P&T, Cap col.
2942	Bromoform	551.1	GC - Micro L/L, Cap col, ECD
2944	Chlorodibromomethane	551.1	GC - Micro L/L, Cap col, ECD
2944	Chlorodibromomethane	524.2	GC/MS - P&T, Cap col.
2941	Chloroform	551.1	GC - Micro L/L, Cap col, ECD
2941	Chloroform	524.2	GC/MS - P&T, Cap col.
2950	Total Trihalomethanes	524.2	GC/MS - P&T, Cap col.
2950	Total Trihalomethanes	551.1	GC - Micro L/L, Cap col, ECD
VOCs			
2981	1,1,1-Trichloroethane	524.2	GC/MS - P&T, Cap col.
2985	1,1,2-Trichloroethane	524.2	GC/MS - P&T, Cap col.
2977	1,1-Dichloroethylene	524.2	GC/MS - P&T, Cap col.
2378	1,2,4-Trichlorobenzene	524.2	GC/MS - P&T, Cap col.
2968	1,2-Dichlorobenzene	524.2	GC/MS - P&T, Cap col.
2980	1,2-Dichloroethane	524.2	GC/MS - P&T, Cap col.
2983	1,2-Dichloropropane	524.2	GC/MS - P&T, Cap col.
2969	1,4-Dichlorobenzene	524.2	GC/MS - P&T, Cap col.
2990	Benzene	524.2	GC/MS - P&T, Cap col.
2982	Carbon Tetrachloride	524.2	GC/MS - P&T, Cap col.
2989	Chlorobenzene	524.2	GC/MS - P&T, Cap col.
2380	cis-1,2-Dichloroethylene	524.2	GC/MS - P&T, Cap col.
2964	Dichloromethane	524.2	GC/MS - P&T, Cap col.
2992	Ethylbenzene	524.2	GC/MS - P&T, Cap col.
2996	Styrene	524.2	GC/MS - P&T, Cap col.
2987	Tetrachloroethylene	524.2	GC/MS - P&T, Cap col.
2991	Toluene	524.2	GC/MS - P&T, Cap col.
2955	Total Xylenes	524.2	GC/MS - P&T, Cap col.
2979	trans-1,2-Dichloroethylene	524.2	GC/MS - P&T, Cap col.
2984	Trichloroethylene	524.2	GC/MS - P&T, Cap col.
2976	Vinyl Chloride	524.2	GC/MS - P&T, Cap col.

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Haloacetic Acids			
2454	Dibromoacetic acid	552.2	GC - Micro L/L, Cap col, ECD
2451	Dichloroacetic acid	552.2	GC - Micro L/L, Cap col, ECD
2453	Monobromoacetic acid	552.2	GC - Micro L/L, Cap col, ECD
2450	Monochloroacetic acid	552.2	GC - Micro L/L, Cap col, ECD
2456	Total Haloacetic Acids	552.2	GC - Micro L/L, Cap col, ECD
2452	Trichloroacetic acid	552.2	GC - Micro L/L, Cap col, ECD
Pesticides			
2931	1,2-Dibromo-3-Chloropropane	504.1	GC - Micro L/L, Cap col, ECD
2959	Chlordane	505	GC - Micro L/L, Cap col, ECD
2005	Endrin	525.2	GC/MS - L/S, Cap col.
2946	Ethylene dibromide (EDB)	504.1	GC - Micro L/L, Cap col, ECD
2065	Heptachlor	525.2	GC/MS - L/S, Cap col.
2067	Heptachlor Epoxide	525.2	GC/MS - L/S, Cap col.
2274	Hexachlorobenzene	525.2	GC/MS - L/S, Cap col.
2042	Hexachlorocyclopentadiene	525.2	GC/MS - L/S, Cap col.
2010	Lindane	525.2	GC/MS - L/S, Cap col.
2015	Methoxychlor	525.2	GC/MS - L/S, Cap col.
2020	Toxaphene	505	GC - Micro L/L, Cap col, ECD
Herbicides			
2110	2,4,5-TP (Silvex)	515.3	GC - Micro L/L, Cap col, ECD
2105	2,4-D	515.3	GC - Micro L/L, Cap col, ECD
2051	Alachlor	525.2	GC/MS - L/S, Cap col.
2050	Atrazine	525.2	GC/MS - L/S, Cap col.
2031	Dalapon	515.3	GC - Micro L/L, Cap col, ECD
2041	Dinoseb	515.3	GC - Micro L/L, Cap col, ECD
2032	Diquat	549.2	HPLC - L/S ext. UV
2033	Endothall	548.1	GC/MS or GC/FID - L/S Cap col
2034	Glyphosate	547	HPLC - Post col Rx, Fluoresc.
2326	Pentachlorophenol	515.3	GC - Micro L/L, Cap col, ECD
2040	Picloram	515.3	GC - Micro L/L, Cap col, ECD
2037	Simazine	525.2	GC/MS - L/S, Cap col.
Carbamates			
2046	Carbofuran	531.1	HPLC - Post col. Rx. Fluores.
2036	Oxamyl	531.1	HPLC - Post col. Rx. Fluores.

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PAHs			
2306	Benzo(a)pyrene	525.2	GC/MS - L/S, Cap col.
2039	Di(2-Ethylhexyl) Phthalate	525.2	GC/MS - L/S, Cap col.
2035	Di-2(ethylhexyl)adipate	525.2	GC/MS - L/S, Cap col.
PCBs			
2383	Polychlorinated biphenyls PCB	505	GC - Micro L/L, Cap col, ECD
Dioxin			
2063	Dioxin(2,3,7,8-TCDD)	1613	GC/MS High Res - L/L Cap col
Radiological			
4002	Gross Alpha	7110B	Evaporation - Gross Alpha/Beta
4002	Gross Alpha	7110C	Co-precipitation - Gross Alpha
4100	Gross Beta	7110B	Evaporation - Gross Alpha/Beta
4020	Radium 226	7500-RAB	Radiochemical
4030	Radium 228	7500-RAD	Radiochemical
4172	Strontium 89	7500-SRB	Radiochemical
4174	Strontium 90	7500-SRB	Radiochemical
4006	Uranium	200.8	Inductively Coupled Plasma/MS