



*State of Tennessee*

**DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF WATER RESOURCES**

*Certifies That*

**ALS Environmental - Fort Collins, CO**

*Having Met the Requirements of the Regulations for the  
Certification of Laboratories Analyzing Drinking Water  
is hereby Approved as a*

**State Certified Laboratory in Chemistry and Radiochemistry**

*To perform the Analyses as Indicated on the Certified Parameter  
List For the Public Water Systems of Tennessee*

**Laboratory ID Number TN02976**

Prasad Subbanna  
Laboratory Certification Officer  
Division of Water Resources

Issue Date: 11/27/2019

Expiration Date: 11/30/2020

*This certification is subject to performance on E.P.A.  
Performance Evaluation Samples, laboratory inspections,  
payment of annual fees, is nontransferable, and  
supersedes previously issued certificates*

# Certified Parameters - 2019

TENNESSEE

ALS Environmental - Fort Collins CO

TN02976

EPA # CO01099

11/27/2019

Attn: Liz Stroh  
 225 Commerce Drive  
 Fort Collins, CO 80524

Parameter	<u>EPA</u> Parameter #	<u>Approved</u> Method	Study Type	<u>Date</u> Complete	PT Provider / WS #
<b>Inorganics</b>					
Calcium	1016	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Calcium	1016	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Iron	1028	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Iron	1028	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Potassium	1042	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Potassium	1042	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Silica	1049	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Sodium	1052	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Sodium	1052	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117

<b>Metals</b>					
Antimony	1074	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Antimony	1074	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Arsenic	1005	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Arsenic	1005	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Barium	1010	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Barium	1010	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Barium	1010	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Barium	1010	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Beryllium	1075	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Beryllium	1075	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Beryllium	1075	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Beryllium	1075	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Cadmium	1015	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Cadmium	1015	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Cadmium	1015	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Cadmium	1015	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Chromium	1020	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Chromium	1020	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Chromium	1020	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Chromium	1020	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Copper	1022	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Copper	1022	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
Copper	1022	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Copper	1022	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Lead	5000	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Lead	5000	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Magnesium	1031	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Magnesium	1031	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Manganese	1032	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Manganese	1032	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Manganese	1032	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Mercury	1035	EPA - 245.1	Proficiency Test	8/16/2019	NSI / WS-119
Mercury	1035	EPA - 245.1	Proficiency Test	2/15/2019	NSI / WS-117
Nickel	1036	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Nickel	1036	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Nickel	1036	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Nickel	1036	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Selenium	1045	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Selenium	1045	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Thallium	1085	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Thallium	1085	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Uranium (Trace Metal)	4400	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Uranium (Trace Metal)	4400	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Uranium (Trace Metal)	4400	EPA - 200.8	Proficiency Test	5/23/2019	ERA / RAD-117
Aluminum	1002	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Aluminum	1002	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Aluminum	1002	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Aluminum	1002	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Silver	1050	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Silver	1050	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Silver	1050	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Silver	1050	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117
Zinc	1095	EPA - 200.8	Proficiency Test	2/15/2019	NSI / WS-117
Zinc	1095	EPA - 200.8	Proficiency Test	8/16/2019	NSI / WS-119
Zinc	1095	EPA - 200.7	Proficiency Test	8/16/2019	NSI / WS-119
Zinc	1095	EPA - 200.7	Proficiency Test	2/15/2019	NSI / WS-117

### Radiological

Cesium-134 (Radioactive)	4270	EPA - 901.1	Proficiency Test	11/18/2019	ERA / RAD-119
Cesium-134 (Radioactive)	4270	DOE - 4.5.2.3	Proficiency Test	5/23/2019	ERA / RAD-117
Cesium-134 (Radioactive)	4270	DOE - 4.5.2.3	Proficiency Test	11/18/2019	ERA / RAD-119
Cesium-134 (Radioactive)	4270	EPA - 901.1	Proficiency Test	5/23/2019	ERA / RAD-117
Cesium-134 (Radioactive)	4266	DOE - GA-01-R	Proficiency Test	11/18/2019	ERA / RAD-119
Cesium-134 (Radioactive)	4266	DOE - GA-01-R	Proficiency Test	5/23/2019	ERA / RAD-117

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
Cesium-137 (Radioactive)	4276	DOE - 4.5.2.3	Proficiency Test	11/18/2019	ERA / RAD-119
Cesium-137 (Radioactive)	4276	DOE - 4.5.2.3	Proficiency Test	5/23/2019	ERA / RAD-117
Cesium-137 (Radioactive)	4266	DOE - GA-01-R	Proficiency Test	11/18/2019	ERA / RAD-119
Cesium-137 (Radioactive)	4276	EPA - 901.1	Proficiency Test	11/18/2019	ERA / RAD-119
Cesium-137 (Radioactive)	4266	DOE - GA-01-R	Proficiency Test	5/23/2019	ERA / RAD-117
Cesium-137 (Radioactive)	4276	EPA - 901.1	Proficiency Test	5/23/2019	ERA / RAD-117
Cobalt-60 (Radioactive)	4142	DOE - 4.5.2.3	Proficiency Test	11/18/2019	ERA / RAD-119
Cobalt-60 (Radioactive)	4142	EPA - 901.1	Proficiency Test	11/18/2019	ERA / RAD-119
Cobalt-60 (Radioactive)	4142	EPA - 901.1	Proficiency Test	5/23/2019	ERA / RAD-117
Cobalt-60 (Radioactive)	4142	DOE - 4.5.2.3	Proficiency Test	5/23/2019	ERA / RAD-117
Gross Alpha	4000	EPA - 900.0	Proficiency Test	11/18/2019	ERA / RAD-119
Gross Alpha	4000	EPA - 900.0	Proficiency Test	5/23/2019	ERA / RAD-117
Gross Beta	4100	EPA - 900.0	Proficiency Test	11/18/2019	ERA / RAD-119
Gross Beta	4100	EPA - 900.0	Proficiency Test	5/23/2019	ERA / RAD-117
Radium-226	4020	EPA - 903.1	Proficiency Test	5/23/2019	ERA / RAD-117
Radium-226	4020	EPA - 903.1	Proficiency Test	11/18/2019	ERA / RAD-119
Radium-226	4020	EPA - 903.0	Proficiency Test	5/23/2019	ERA / RAD-117
Radium-226	4020	SM - 7500-Ra C	Proficiency Test	11/18/2019	ERA / RAD-119
Radium-226	4020	SM - 7500-Ra C	Proficiency Test	5/23/2019	ERA / RAD-117
Radium-226	4020	EPA - 903.0	Proficiency Test	11/18/2019	ERA / RAD-119
Radium-228	4030	EPA - 904.0	Proficiency Test	11/18/2019	ERA / RAD-119
Radium-228	4030	EPA - 904.0	Proficiency Test	5/23/2019	ERA / RAD-117
Strontium 89 (Radioactive)	4172	DOE - Sr-01	Proficiency Test	5/23/2019	ERA / RAD-117
Strontium 89 (Radioactive)	4172	DOE - Sr-01	Proficiency Test	11/18/2019	ERA / RAD-119
Strontium 89 (Radioactive)	4172	DOE - Sr-02	Proficiency Test	5/23/2019	ERA / RAD-117
Strontium 90 (Radioactive)	4174	DOE - Sr-01	Proficiency Test	5/23/2019	ERA / RAD-117
Strontium 90 (Radioactive)	4174	DOE - Sr-02	Proficiency Test	11/18/2019	ERA / RAD-119
Tritium (Radioactive)	4102	EPA - 906.0	Proficiency Test	11/18/2019	ERA / RAD-119
Tritium (Radioactive)	4102	SM - 7500-3H B	Proficiency Test	11/18/2019	ERA / RAD-119
Tritium (Radioactive)	4102	SM - 7500-3H B	Proficiency Test	5/23/2019	ERA / RAD-117
Tritium (Radioactive)	4102	EPA - 906.0	Proficiency Test	5/23/2019	ERA / RAD-117
Uranium (Radioactive)	4400	DOE - U-02	Proficiency Test	5/23/2019	ERA / RAD-117
Uranium (Radioactive)	4400	DOE - U-02	Proficiency Test	11/18/2019	ERA / RAD-119

### VOCs - Regulated

1,1,1-Trichloroethane	2981	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
1,1,1-Trichloroethane	2981	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
1,1,2-Trichloroethane	2985	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
1,1,2-Trichloroethane	2985	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
1,1-Dichloroethylene	2977	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
1,1-Dichloroethylene	2977	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
1,2,4-Trichlorobenzene	2378	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
1,2,4-Trichlorobenzene	2378	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
1,2-Dichlorobenzene	2968	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
1,2-Dichlorobenzene	2968	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
1,2-Dichloroethane	2980	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
1,2-Dichloroethane	2980	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
1,2-Dichloropropane	2983	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
1,2-Dichloropropane	2983	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
1,4-Dichlorobenzene	2969	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
1,4-Dichlorobenzene	2969	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Benzene	2990	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Benzene	2990	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Carbon Tetrachloride	2982	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Carbon Tetrachloride	2982	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Chlorobenzene	2989	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Chlorobenzene	2989	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
cis-1,2-Dichloroethylene	2380	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
cis-1,2-Dichloroethylene	2380	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Ethylbenzene	2992	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Ethylbenzene	2992	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Methylene chloride (dichloromethane)	2964	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Methylene chloride (dichloromethane)	2964	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Styrene	2996	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Styrene	2996	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Tetrachloroethylene	2987	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Tetrachloroethylene	2987	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Toluene	2991	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Toluene	2991	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Total Xylenes	2955	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Total Xylenes	2955	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
trans-1,2-dichloroethylene	2979	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
trans-1,2-dichloroethylene	2979	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Trichloroethylene	2984	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Trichloroethylene	2984	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117
Vinyl Chloride	2976	EPA - 524.2	Proficiency Test	8/16/2019	NSI / WS-119
Vinyl Chloride	2976	EPA - 524.2	Proficiency Test	2/15/2019	NSI / WS-117