



The State of Tennessee

DEPARTMENT OF ENVIRONMENT AND CONSERVATION

DIVISION OF WATER RESOURCES

Certifies That

Analytical Industrial Research Laboratory (A.I.R.L.)

*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 Microbiology

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

Laboratory ID Number 02034

Prasad Subbanna

Prasad Subbanna
Manager, Laboratory Certification Program
Tennessee Division of Water Resources

Issue Date: 08/17/2017 Effective Date: 08/18/2017 Expiration Date: 08/18/2020

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

Certified Parameters - 2017

TENNESSEE

AIRL, Inc.

TN02034

EPA # TN00046

7/27/2017

Attn: Roy Patterson
1550 37th Street NE
Cleveland, TN 37312-5600

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
Disinfectant Residuals					
Free Chlorine Residual	1013	SM - 4500-Cl G	Proficiency Test	3/23/2017	AAS / PTN-0217A
Total Chlorine Residual	1012	SM - 4500-Cl G	Proficiency Test	3/23/2017	AAS / PTN-0217A
Inorganics					
Alkalinity	1928	SM - 2320 B	Proficiency Test	3/23/2017	AAS / PTN-0217A
Calcium	1016	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Chloride	1017	SM - 4500-Cl-B	Proficiency Test	3/23/2017	AAS / PTN-0217A
Conductivity	1064	SM - 2510 B	Proficiency Test	3/23/2017	AAS / PTN-0217A
Cyanide	1024	SM - 4500-CN-E	Proficiency Test	3/23/2017	AAS / PTN-0217A
Fluoride	1025	SM - 4500-F-D	Proficiency Test	6/1/2017	AAS / WS-120
Iron	1028	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Nitrate	1040	SM - 4500-NO3-E	Proficiency Test	3/23/2017	AAS / PTN-0217A
Nitrate + Nitrite	1038	SM - 4500-NO3-E	Proficiency Test	3/23/2017	AAS / PTN-0217A
Nitrite	1041	SM - 4500-NO2-B	Proficiency Test	3/23/2017	AAS / PTN-0217A
Ortho-phosphate	1044	SM - 4500-P E	Proficiency Test	3/23/2017	AAS / PTN-0217A
pH	1925	SM - 4500-H+B	Proficiency Test	3/23/2017	AAS / PTN-0217A
Potassium	1042	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Sodium	1052	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Sulfate	1055	SM - 4500-SO4 E	Proficiency Test	3/23/2017	AAS / PTN-0217A
TDS	1930	SM - 2540 C	Proficiency Test	3/23/2017	AAS / PTN-0217A
Total Hardness	1916	SM - 2340 B	Proficiency Test	3/23/2017	AAS / PTN-0217A
Turbidity	0100	EPA - 180.1	Proficiency Test	3/23/2017	AAS / PTN-0217A
Metals					
Barium	1010	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Beryllium	1075	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Cadmium	1015	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Chromium	1020	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Copper	1022	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Magnesium	1031	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Manganese	1032	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Mercury	1035	EPA - 245.1	Proficiency Test	3/23/2017	AAS / PTN-0217A
Nickel	1036	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
Aluminum	1002	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Silver	1050	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A
Zinc	1095	EPA - 200.7	Proficiency Test	3/23/2017	AAS / PTN-0217A

Microbiologicals

Escherichia coli, m-ColiBlue24	3014	-	Proficiency Test	6/1/2017	AAS / WS-120
Fecal Coliforms,mFC	3013	SM - 9222 D	Proficiency Test	3/23/2017	AAS / PTN-0217A
Fecal Coliforms,mFC	3013	SM - 9222 D	Proficiency Test	6/1/2017	AAS / WS-120
Total Coliform,M-Endo,LES End->LTB,BGL	3000	SM - 9222 B	Proficiency Test	3/23/2017	AAS / PTN-0217A
Total Coliform,M-Endo,LES End->LTB,BGL	3000	SM - 9222 B	Proficiency Test	6/1/2017	AAS / WS-120