



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

### CITA Energy Services

11868 Fishing Point Drive  
Newport News, VA 23606

Fulfills the requirements of

### ISO/IEC 17025:2017

In the field of

### TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.  
The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU  
Expiry Date: 24 November 2023  
Certificate Number: AT-1419



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory  
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### CITA Energy Services

11868 Fishing Point Drive  
Newport News, VA 23606

Steven Van Liew 757-873-0165  
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### TESTING

Valid to: **November 24, 2023**

Certificate Number: **AT-1419**

#### Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Total Moisture in Coal	ASTM D 3302	Coal	Moisture Oven / Air Drying Oven
Proximate Analysis	ASTM D 3172	Coal	Grouping of Test Methods ASTM D 3173 ASTM D 3174 ASTM D 3175
Percent Residual Moisture in Coal	ASTM D 3173	Coal	Moisture Oven
Percent Ash in Coal	ASTM D 3174	Coal	Ashing Oven
Percent Volatile Matter in Coal	ASTM D 3175	Coal	Volatile Furnace
Percent Sulfur in Coal	ASTM D 4239	Coal	LECO 632 Sulfur Analyzer
Calorific Value in Coal	ASTM D 5865	Coal	PARR 6400 Calorimeter
Ultimate Analysis	ASTM D 3176	Coal	Grouping of Test Methods ASTM D 3302 ASTM D 3174 ASTM D 4239 ASTM D 5373
Percent Carbon, Hydrogen and Nitrogen in Coal	ASTM D 5373	Coal	LECO Truspec CHN Analyzer
Sample Preparation for Analysis	ASTM D 2013	Coal	Holmes 60 Mesh Pulverizer

**Chemical**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Free Swelling Index of Coal	ASTM D 720	Coal	FSI Apparatus
Coal Ash Fusibility	ASTM D 1857	Coal	Ash Fusibility Oven
Major and Minor Elements in Coal, Coke, and Solid Residues	ASTM D 6349	Coal	Teledyne Prism ICP
Oxidation in Coal by Alkali Extraction	ASTM D 5263	Coal	Spectrophotometer
Using Dilatometer to Determine Swelling Properties of Coal	ASTM D 5515	Coal	Dilatometer
Plastic Properties of Coal by Constant-Torque Gieseler Plastometer	ASTM D 2639	Coal	Gieseler Plastometer
CRI / CSR Measuring Coke Reactivity Index (CRI) and Coke Strength After Reaction (CSR)	ASTM D 5341	Coke	Coke Oven

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1419.



R. Douglas Leonard Jr., VP, PILR SBU