



Accredited Laboratory

A2LA has accredited

CLEAN AIR ENGINEERING

Palatine, IL

for technical competence in the field of

Environmental Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of *R219 - Specific Requirements - TNI Field Sampling and Measurement Organization Accreditation Program*. 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*).



Presented this 20th day of February 2018

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President and CEO
For the Accreditation Council
Certificate Number 4342.01
Valid to December 31, 2019

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CLEAN AIR ENGINEERING

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Palatine, IL 60067

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ENVIRONMENTAL^{1,2}

Valid To: December 31, 2019

Certificate Number: 4342.01

In recognition of the successful completion of the A2LA evaluation process, including an evaluation of the laboratory's compliance with ISO/IEC 17025:2005 and the NELAC Institute Field Sampling and Measurement Organization Volume 1 (TNI FSMO V1 2007, Rev 2.0) accreditation is granted to this organization to perform recognized methods using the following sampling and measurement technologies:

FSMO Type: Commercial

Mobile Units: Mobile Trailer Units

Sampling:

<u>Matrix</u>	<u>Technology(ies)</u>	<u>Methods</u>
Air	Filter	EPA Methods 5, 5A, 5B, 5D, 5E, 5F, 5H, 5I, 12, 13B, 14, 14A, 17, 23, 29, PS11, 101, 101A, 102, 104, 106, 201, 201A, 306, 316; Conditional Test Methods 013; SW-846 Methods, 0010, 0011, 0023A, 0060, 0061; CARB Methods 425, 426, 428, 429, 430, 501; ASTM D6784-02, D6831-02; Other Test Method (OTM) 029
Air	Absorption in Impinger Solution	EPA Methods 6, 6B, 7C, 7D, 8, 12, 13A, 13B, 14, 14A, 15, 15A, 16, 16A, 23, 26, 26A, 29, 101, 101A,, 102, 104, 106, 202, 306, 316; Conditional Test Methods 013, 027; SW-846 Methods 0011, 0023A, 0030, 0031, 0050, 0051, 0060, 0061; CARB Methods 425, 426, 428, 429, 430, 431; ASTM D6735-01, D6831-02; NCASI Method 8A, ISS/FP-A105.01; Other Test Method (OTM) 029
Air	Absorption in Sorbent Trap and Impinger Solution	NCASI Methods: CI/SG/Pulp-94.02; SI/CG/Pulp 94.03
Air	Absorption in Sorbent Trap	EPA 30B, PS12A, PS12B,
Air	Tedlar Bags or Stainless Canisters	EPA 18, 25, 10B, 106

Measurement:

<u>Matrix</u>	<u>Test</u>	<u>Technology(ies)</u>	<u>Methods</u>
Air	Moisture Content	N/A	EPA 4, 6A, 320; Psychometric Moisture; Part 75 CEMS
Air	Molecular Weight	N/A	EPA 3
Air	Correction Factor	Calculation	EPA 3B
Air	Continuous Emissions	Electromagnetic, Infrared, Ultraviolet, Non-Dispersive Infrared, Fluorescence, FTIR, Chemiluminescence	EPA 3A, 6C, 7E, 10, 10A, 10B, 20, 30A, PS2, PS3, PS4, PS4A, PS7, PS16, PS18, 205, Part 75 CEMS; Conditional Test Method 0030
Air	Continuous Emissions in conjunction with an Absorbing Solution	Infrared, Ultraviolet, Non-Dispersive Infrared, Fluorescence	EPA 16C, PS5
Air	Continuous Emissions (VOCs)	Flame Ionization Detection	EPA 25A, 25B, 25C, 25D, 25E, 204, B, 204C, 204D, PS8,
Air	Continuous Emissions (FTIR)	FTIR	EPA 318, 320, 321, PS15; ASTM D6348-03
Air	Air Flow	Pitot tube	EPA 1, 1A, 2,2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, PS6, Part 75 CEMS
Air	Visual and Fugitive Emissions	N/A	EPA 9, 22, PS 1
Air	Verification of Temporary or Permanent Enclosure	N/A	EPA 204, 204B

Field Analysis/Testing:

<u>Matrix</u>	<u>Technology</u>	<u>Analyte(s)</u>
Air	Ion Chromatography	HCl, CL2, HF, F2, HBr, Br2, SO4, NH3, NO2, NO3, PO4, Li, Ma, K, Mg, Ca
Air	Gas Chromatography	TRS, Gaseous Organic Compounds, Performance Spec. 9, EPA 18, 106
Air	Ion Specific Electrode	NH3
Air	Ohio Lumex (Thermal Atomic Absorption)	Hg

¹All sampling and analysis is performed in the field.

Location 2:
110 Technology Drive
Pittsburgh, PA 15275-1004

Location 3:
13720 24th Washington Street East
Units 102 and 109. Building E
Sumner, WA 98390



² Mobile Lab Units:

Mobile Lab VINs:

1WC200G2811097523

1WC200G2811097148

1WC200G2841107312

1WC200G2641107311

1WC200G2441109073

1WC200J2381120774

1WC200G2611097147

1wc200j2791124568

1WC200G291114451

5NHUAMV249V327844

1WC200J20C1192704

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