



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CLEAN AIR ENGINEERING

500 West Wood Street
Palatine, IL 60067

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ENVIRONMENTAL^{1,2}

Valid To: October 31, 2022

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 | 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 | EPA 30B, PS12A, PS12B |
| Air | Absorption in Sorbent Trap and Impinger Solution | NCASI Methods: CI/SG/Pulp-94.02; SI/CG/Pulp 94.03 |
| 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 | 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 | Air Flow | Pitot tube | EPA 1, 1A, 2,2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, PS6, Part 75 CEMS |
| 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 (FTIR) | FTIR | EPA 318, 320, 321, PS15; ASTM D6348-03 |
| Air | Continuous Emissions (VOCs) | Flame Ionization Detection | EPA 25A, 25B, 25C, 25D, 25E, 204, B, 204C, 204D, PS8 |
| Air | Continuous Emissions in conjunction with an Absorbing Solution | Infrared, Ultraviolet, Non-Dispersive Infrared, Fluorescence | EPA 16C, PS5 |
| Air | Correction Factor | Calculation | EPA 3B |
| Air | Moisture Content | N/A | EPA 4, 6A, 320; Psychrometric Moisture; Part 75 CEMS |
| Air | Molecular Weight | N/A | EPA 3 |
| Air | Verification of Temporary or Permanent Enclosure | N/A | EPA 204, 204B |
| Air | Visual and Fugitive Emissions | N/A | EPA 9, 22, PS 1 |

Field Analysis/Testing:

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





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 17025:2017 *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 5th day of January 2021,

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4342.01
Valid to October 31, 2022

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