August 31, 2016

Laboratory ID: 100194

Oommen Kappil
EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

Dear Mr. Kappil:

Congratulations! The AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC's Analytical Accreditation Board (AAB) has approved EMSL Analytical, Inc. as an accredited Industrial Hygiene, Environmental Lead and Environmental Microbiology laboratory.

Accreditation documentation includes the IHLAP, ELLAP and EMLAP accreditation certificate, scope of accreditation document and a copy of the current AIHA-LAP, LLC license agreement (if your completed agreement is not on file at AIHA-LAP, LLC). The accreditation symbol has been designed for use by all AIHA-LAP, LLC accredited laboratories. If your laboratory chooses to use the symbol in its advertising the laboratory's accreditation, you must complete and return the AIHA-LAP, LLC license agreement to a Laboratory Accreditation Specialist. Once submitted, an electronic copy of the accreditation symbol will be sent to you. Please inform us if your laboratory does not wish to use the symbol in advertising.

Laboratory accreditation shall be maintained by continued compliance with IHLAP, ELLAP and EMLAP requirements *(see Policy Modules 2B, 2C, 2D, and 6)*, which includes proficient participation in AIHA-LAP, LLC approved proficiency testing, demonstration of competency, or round robin program as indicated on the AIHA-LAP "Approved PT and Round Robin" webpage, its associated Scope/PT table, and as required in Policy Module 6, for all Fields of Testing (FoTs) for which the laboratory is accredited. An accredited laboratory that wishes to expand into a new FoT must submit an updated accreditation application to AIHA-LAP, LLC for review by the AAB.

Any changes in ownership, laboratory location, personnel, FoTs/Methods, or significant procedural changes shall be reported to AIHA-LAP, LLC in writing within twenty (20) business days of the change.

The accreditation certificate is the property of AIHA-LAP, LLC and must be returned to us should your laboratory withdraw or be removed from the IHLAP, ELLAP and EMLAP.

Again, congratulations. If you have any questions, please contact Lauren Schnack, Laboratory Accreditation Specialist, at (703) 846-0716.

Sincerely,

Cheryl O. Morton

Cheryl O. Morton
Managing Director
AIHA Laboratory Accreditation Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

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along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

## LABORATORY ACCREDITATION PROGRAMS

| | | |
|---|---|---|
| ✓ | **INDUSTRIAL HYGIENE** | Accreditation Expires: September 01, 2018 |
| ✓ | **ENVIRONMENTAL LEAD** | Accreditation Expires: September 01, 2018 |
| ✓ | **ENVIRONMENTAL MICROBIOLOGY** | Accreditation Expires: September 01, 2018 |
| ☐ | **FOOD** | Accreditation Expires: |
| ☐ | **UNIQUE SCOPES** | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

*William Walsh, CIH*
*Chairperson, Analytical Accreditation Board*

*Cheryl O. Morton*
*Managing Director, AIHA Laboratory Accreditation Programs, LLC*

Revision 15: 03/30/2016

Date Issued: 08/31/2016

# AIHA Laboratory Accreditation Programs, LLC

## SCOPE OF ACCREDITATION

**EMSL Analytical, Inc.**
200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**
Issue Date: 10/20/2016

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

### Industrial Hygiene Laboratory Accreditation Program (IHLAP)

### Initial Accreditation Date: 02/01/1989

| **IHLAP Scope Category** | **Field of Testing (FoT)** (FoTs cover all relevant IH matrices) | **Technology sub-type/ Detector** | **Published Reference Method/Title of In-house Method** | **Method Description or Analyte** *(for internal methods only)* |
|---|---|---|---|---|
| **Chromatography Core** | Gas Chromatography | GC/FID | NIOSH 1003 Modified | |
| | | | NIOSH 1005 | |
| | | | NIOSH 1400 Modified | |
| | | | NIOSH 1500 Modified | |
| | | | NIOSH 1501 Modified | |
| | | | NIOSH 1550 Modified | |
| | | | NIOSH 1603 Modified | |
| | | | NIOSH 2000 Modified | |
| | | GC/ECD | NIOSH 5502 Modified | |
| | | | NIOSH 5503 Modified | |
| | | | NIOSH 5510 Modified | |
| | | | OSHA 1010 Modified | |
| | GC/MS | GC/MS | EPA TO-15 | |
| | Gas Chromatography (Diffusive Samplers) | | NIOSH 1501 Modified | |
| | Ion Chromatography (IC) | | NIOSH 6004 Modified | |
| | | | NIOSH 6011 | |
| | | | NIOSH 7903 | |
| | | | OSHA ID-165SG | |
| | | | OSHA ID-214 | |
| | | | OSHA ID-215 Modified | |
| | Liquid Chromatography | HPLC/FL | NIOSH 2016 Modified | |
| | | HPLC/UV | NIOSH 5506 Modified | |
| **Spectrometry Core** | Atomic Absorption | CVAA | NIOSH 6009 Modified | |
| | | | OSHA ID-140 Modified | |
| | | | OSHA ID-145 | |

| IHLAP Scope Category | Field of Testing (FoT) (FoTs cover all relevant IH matrices) | Technology sub-type/ Detector | Published Reference Method/Title of In-house Method | Method Description or Analyte *(for internal methods only)* |
|---|---|---|---|---|
| **Spectrometry Core** | Atomic Absorption | FAA | NIOSH 7082 | |
| | | GFAA | NIOSH 7105 | |
| | Inductively-Coupled Plasma | ICP/MS | NIOSH 7300 Modified | |
| | | ICP/AES | NIOSH 7300 Modified | |
| | X-ray Diffraction (XRD) | | NIOSH 7500 Modified | |
| | | | OSHA ID-142 Modified | |
| | UV/VIS (Colorimetric) | | NIOSH 6010 Modified | |
| **Asbestos/Fiber Microscopy Core** | Polarized Light Microscopy (PLM) | | EPA 600/R-93/116 | |
| | Phase Contrast Microscopy (PCM) | | NIOSH 7400 | |
| | Transmission Electron Microscopy (TEM) | | EPA AHERA - 40 CFR Part 763 | EPA AHERA Method (40 CFR 763, Subpart E, Appendix A, Mandatory Method |
| | | | NIOSH 7402 | |
| **Miscellaneous Core** | Gravimetric | | NIOSH 0500 | |
| | | | NIOSH 0600 | |
| | | | NIOSH 5524 | |
| | Thermo-optical Analysis (TOA) | | NIOSH 5040 | |
| **Beryllium Testing** | Inductively-Coupled Plasma | ICP/MS | NIOSH 7300 | |
| | | | NIOSH 7303 | |

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

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The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

### Environmental Lead Laboratory Accreditation Program (ELLAP)

### Initial Accreditation Date: 01/18/1995

| Field of Testing (FoT) | Technology sub-type/ Detector | Method | Method Description (*for internal methods only*) |
|---|---|---|---|
| **Paint** | | EPA SW-846 3050B | |
| | | EPA SW-846 7000B | |
| **Soil** | | EPA SW-846 3050B | |
| | | EPA SW-846 7000B | |
| **Settled Dust by Wipe** | | EPA SW-846 3050B | |
| | | EPA SW-846 7000B | |
| **Airborne Dust** | | NIOSH 7082 | |
| **Composited Wipes** | | EPA SW-846 3050B | |
| | | EPA SW-846 7000B | |

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

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SCOPE OF ACCREDITATION

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**Environmental Microbiology Laboratory Accreditation Program (EMLAP)**

**Initial Accreditation Date: 09/01/2002**

| EMLAP Category | Field of Testing (FoT) | Method | Method Description (*for internal methods only*) |
|---|---|---|---|
| **Fungal** | Air - Culturable | M005 | Detection and Enumeration of Culturable Fungi from Environmental Samples |
| | Bulk - Culturable | M005 | Detection and Enumeration of Culturable Fungi from Environmental Samples |
| | Surface - Culturable | M005 | Detection and Enumeration of Culturable Fungi from Environmental Samples |
| | Air - Direct Examination | 05-TP-003.7 | Standard Operating Procedure for the Analysis of Airborne Fungal Spores, Hyphal Fragments, Pollen, Insect Fragments, Skin Fragments and Fibrous Particulate by Optical Microscopy of Spore Trap Samples |
| | Bulk - Direct Examination | M041 | Standard Operating Procedure for the Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, Pollen, Insect Fragments, and Fibrous Material from Surface Samples |
| | Surface - Direct Examination | M041 | Standard Operating Procedure for the Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, Pollen, Insect Fragments, and Fibrous Material from Surface Samples |
| **Bacterial** | Air - Culturable | M009 | Detection and Enumeration of Culturable Bacteria from Environmental Samples |
| | Bulk - Culturable | M009 | Detection and Enumeration of Culturable Bacteria from Environmental Samples |
| | Surface - Culturable | M009 | Detection and Enumeration of Culturable Bacteria from Environmental Samples |

| EMLAP Category | Field of Testing (FoT) | Method | Method Description (*for internal methods only*) |
|---|---|---|---|
| **Bacterial** | Legionella | 05-TP-002 | Recovery of Legionella from the Environment Using the Center for Disease Control and Prevention's Culture Method |

A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org