

**Ambient Community Air Monitoring Weekly Report
For the Hawaii Department of Health – Clean Air Branch**

Lahaina, Maui

1/18/2024 – 1/24/2024

Due to ongoing debris removal operations in response to the Maui Wildfires, a Community Air Monitoring and Sampling Plan (CAMSP) has been drafted and sampling is being performed at four community locations across Lahaina listed below and shown on **Figure 1**:

- Leialii Hawaiian Homelands (AM-01)
- WW Pump Station #4 (AM-02)
- Lahaina Intermediate School (AM-03)
- Lahaina Boys & Girls Club (AM-04)

This approach includes ambient community air monitoring and sampling to monitor conditions and determine whether debris removal activities, managed by the U.S. Army Corps of Engineers (USACE), significantly impact air quality in Lahaina. Data collected is made available to HDOH via online shared site and this weekly report. This approach to air monitoring and sampling will continue until debris removal activities are complete or until HDOH CAB advises otherwise.

Air quality monitoring for particulate matter was collected at all four community locations over a 24-hour period each day in accordance with the draft CAMSP. Additionally, daily air samples were collected at all community locations. Summary analytical data is presented in **Tables 1 and 2**. **Figure 1** depicts the community air monitoring and sampling locations. **Appendix 1** provides detailed analytical results for all community locations where air sampling was performed. Analytical results were compared to site-specific screening levels for particulate matter, asbestos, and heavy metals as described in the draft CAMSP. A summary of meteorological data is presented in **Table 3**. Overall wind conditions show generally 1.3 mph in a SE direction.

Results for Community Locations:

Ambient air monitoring was performed to assess the presence of airborne particulates with a particle size diameter of 10 micrometers (μm), as this is the size that is recognized as being small enough to be inhaled into a person's lungs. This particle size diameter is recognized for health evaluations and is identified as "PM₁₀". Monitoring for PM₁₀ was conducted 24 hours a day, 7 days a week at each of the following locations: Leialii Hawaiian Homelands (January 18-24), WW Pump Station #4 (January 18-24), Lahaina Intermediate School (January 18-24), Lahaina Boys & Girls Club (January 18-24).

The results of PM₁₀ monitoring found that screening levels were not exceeded during this reporting period as shown in **Table 2**.

Please note that ambient air monitoring for fine particulate matter, with a particle size diameter of 2.5 micrometers or less (PM_{2.5}) is not included in this report. This monitoring is being performed by the Department of Health/EPA at six locations in Lahaina and can be viewed at: <https://fire.airnow.gov/>.

There were 28 samples collected for asbestos fibers at community monitoring locations throughout this reporting period. All asbestos results were below the public health screening level of 0.0034 fibers/cc and less than the lab's analytical sensitivity (see Table 1).

Heavy metal samples were not collected on 1/20, 1/21, 1/22, and 1/23 at WW Pump Station #4, Lahaina Intermediate School, Lahaina Boys & Girls Club, and not collected on 1/23 at Leialii Hawaiian Homelands. The samples were not collected because of weather-related shipping delays which

subsequently caused a delay in receiving the necessary sampling supplies. Sample location selection during this time was based on the location closest to active operations. Low levels of heavy metals were detected in ambient air samples at all community sampling locations (see Table 1). Although heavy metals were detected, all of the heavy metals concentrations were below the SSALs (see Table 1). The laboratory data sheets for the metals and asbestos samples collected from the community locations are found in **Appendix 1**.

Quality Control:

This section briefly discusses the quality control efforts made by Tetra Tech throughout the air monitoring and sampling process. All references and SOPs can be found provided with the CAMSP.

Tetra Tech is utilizing Met One Instruments, Inc., environmental beta attenuation mass monitors (E-BAM) to allow for comparison to the National Ambient Air Quality Standards (NAAQS) for particulates. E-BAMs are factory-calibrated annually and do not require daily calibration, except for a leak check and a flow audit, which were performed prior to sampling according to the manufacturer's procedures.

For asbestos sampling, Tetra Tech uses a Casella Vortex 3 or similar air sampling pump. Sampling flow rates will be determined and documented by pre- and post- calibration of each sampling pump using a primary calibration standard. Calibration and sampling are conducted in accordance with Tetra Tech SOPs 064-2, "Calibration of Air Sampling Pump" and 073-3, "Air Quality Monitoring" (Appendix A) and U.S. EPA ERT SOPs No. 2008, "General Air Monitoring and Sampling Guidelines" and 2015 "Asbestos Air Sampling," included in the CAMSP.

Tetra Tech is using Tisch Environmental High Volume Air Samplers, or equivalent, collocated with the real-time particulate monitors and asbestos samplers described above. Air samples for elemental metals at community locations are collected and analyzed in accordance with the following methods:

- U.S. EPA Compendium Method IO-2.1, Sampling of Ambient Air for Total Suspended Particulate Matter (SPM) and PM10 Using High Volume (HV) Sampler
- U.S. EPA Compendium Method IO-3.5: Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air: Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma/Mass Spectrometry (ICP/MS). EPA/625/R-96/010a
- U.S. EPA 40 Code of Federal Regulations (CFR) Part 50, Method for the Determination of Lead in Total Suspended Particulate Matter.
- U.S. EPA 40 CFR Part 58, Appendix E: Probe and Monitoring Path Siting Criteria for Ambient Air Quality Monitoring
- Standard Operating Procedures for Lead Monitoring Using a TSP High Volume Sampler

Field technicians conducted photographic and written documentation in accordance with Tetra Tech SOP No. 024- 4, "Recording of Notes in Field Logbook."

Following receipt of air sampling results from the off-site analytical laboratories, analytical data is maintained in an electronic database and compared to the SSALs. Level 1 data verification is completed on all analytical data and results are reviewed by an industrial hygienist.

Attachments



- Air Sampling Locations
- Lahaina Fire Perimeter

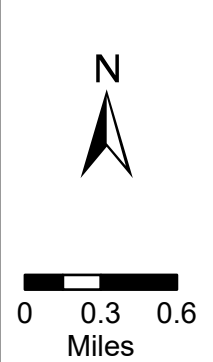


Figure 1
Air Sampling Locations

Hawaii DOH
2023 Lahaina Wildfire

Basemap: ESRI ArcGIS World Street Map

Table 1
HDOH CAB Ambient Community Monitoring and Sampling
Analytical Sampling Results by Date
Maui Wildfire, Lahaina
1/18/2024-1/24/2024

| Analyte | Asbestos | | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead | Manganese | Molybdenum | Nickel | Selenium | Thallium | Vanadium | Zinc | |
|---|-------------------------------------|---------------------------------|----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|
| | Units | f/cc | Y/N | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | |
| Screening Level* | 0.0034 ¹ | Confirmed Asbestos ² | 1.4 | 0.18 | 2.4 | 0.1 | 0.05 | 24 | 0.03 | 480 | 1.5 | 0.24 | 9.6 | 0.05 | 96 | 48 | 0.48 | 2400 | |
| 1/18/2024 | Leialii Hawaiian Homelands (AM-01) | <0.00069 | N | 0.00025 | 0.00136 | 0.00819 | 0.00000536 | ND | ND | 0.000364 | 0.0366 | 0.00193 | 0.00767 | 0.00164 | 0.000844 | 0.000238 | 0.00000286 | 0.000483 | 0.0838 |
| | WW Pump Station #4 (AM-02) | <0.00083 | N | 0.000284 | 0.00226 | 0.00599 | 0.00000644 | ND | 0.00239 | 0.000185 | 0.0364 | 0.00240 | 0.00643 | 0.0014 | 0.000753 | 0.00027 | 0.00000135 | 0.000595 | 0.0628 |
| | Lahaina Intermediate School (AM-03) | <0.00132 | N | 0.000102 | 0.0000957 | 0.0022 | 0.00000647 | ND | ND | 0.000114 | 0.0232 | 0.000263 | 0.00251 | 0.00135 | 0.000608 | 0.000216 | 0.00000113 | 0.000275 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.00074 | N | 0.0000792 | 0.000156 | 0.00207 | 0.00000299 | ND | ND | 0.0000723 | 0.0351 | 0.000437 | 0.00224 | 0.00102 | ND | 0.000198 | 0.000000911 | 0.000216 | ND |
| 1/19/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0004 | N | 0.0000714 | 0.000399 | 0.00236 | 0.0000035 | ND | ND | 0.000143 | 0.0287 | 0.000588 | 0.00391 | 0.00134 | 0.000548 | 0.00014 | 0.000000644 | 0.000467 | ND |
| | WW Pump Station #4 (AM-02) | <0.0005 | N | 0.000202 | 0.000974 | 0.00433 | 0.00000519 | ND | ND | 0.000165 | 0.0238 | 0.00168 | 0.00529 | 0.0012 | 0.000654 | 0.000157 | 0.000000742 | 0.000582 | ND |
| | Lahaina Intermediate School (AM-03) | <0.00066 | N | 0.0000852 | 0.000065 | 0.00201 | 0.00000558 | ND | ND | 0.000106 | 0.0233 | 0.000318 | 0.00248 | 0.00135 | 0.000879 | 0.000139 | 0.000000653 | 0.000341 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.00042 | N | 0.00012 | 0.00016 | 0.0019 | 0.0000027 | ND | ND | 0.0000708 | 0.0304 | 0.000256 | 0.00218 | 0.00102 | ND | 0.000146 | ND | 0.000276 | ND |
| 1/20/2024 | Leialii Hawaiian Homelands (AM-01) | <0.00081 | N | 0.000059 | 0.000378 | 0.00188 | ND | ND | ND | 0.0000876 | 0.0275 | 0.00027 | 0.00237 | 0.00143 | ND | 0.000193 | 0.000000485 | 0.000283 | ND |
| | WW Pump Station #4 (AM-02) | <0.00069 | N | | | | | | | | | | | | | | | | |
| | Lahaina Intermediate School (AM-03) | <0.00126 | N | | | | | | | | | | | | | | | | |
| | Lahaina Boys & Girls Club (AM-04) | <0.00106 | N | | | | | | | | | | | | | | | | |
| 1/21/2024 | Leialii Hawaiian Homelands (AM-01) | <0.00044 | N | 0.000098 | 0.000501 | 0.00165 | ND | ND | ND | 0.0000638 | 0.0304 | 0.000347 | 0.0017 | 0.0017 | ND | 0.000349 | 0.000000712 | 0.000314 | ND |
| | WW Pump Station #4 (AM-02) | <0.00045 | N | | | | | | | | | | | | | | | | |
| | Lahaina Intermediate School (AM-03) | <0.0012 | N | | | | | | | | | | | | | | | | |
| | Lahaina Boys & Girls Club (AM-04) | <0.00061 | N | | | | | | | | | | | | | | | | |
| 1/22/2024 | Leialii Hawaiian Homelands (AM-01) | <0.00053 | N | 0.0000894 | 0.000572 | 0.00332 | 0.00000558 | ND | ND | 0.000274 | 0.0494 | 0.00126 | 0.00641 | 0.00186 | 0.00105 | 0.000323 | 0.00000102 | 0.000786 | ND |
| | WW Pump Station #4 (AM-02) | <0.00189 | N | | | | | | | | | | | | | | | | |
| | Lahaina Intermediate School (AM-03) | <0.00104 | N | | | | | | | | | | | | | | | | |
| | Lahaina Boys & Girls Club (AM-04) | <0.00039 | N | | | | | | | | | | | | | | | | |
| 1/23/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0004 | N | | | | | | | | | | | | | | | | |
| | WW Pump Station #4 (AM-02) | <0.0017 | N | | | | | | | | | | | | | | | | |
| | Lahaina Intermediate School (AM-03) | <0.00099 | N | | | | | | | | | | | | | | | | |
| | Lahaina Boys & Girls Club (AM-04) | <0.00111 | N | | | | | | | | | | | | | | | | |
| 1/24/2024 | Leialii Hawaiian Homelands (AM-01) | <0.00041 | N | 0.000112 | 0.00241 | 0.014 | 0.0000238 | ND | 0.00524 | 0.00138 | 0.0474 | 0.0118 | 0.026 | 0.00163 | 0.00647 | 0.000408 | 0.00000147 | 0.00229 | 0.077 |
| | WW Pump Station #4 (AM-02) | <0.00053 | N | 0.0000349 | 0.00071 | 0.00124 | 0.00000264 | ND | 0.00189 | 0.000104 | 0.0232 | 0.00125 | 0.0018 | 0.000445 | ND | 0.000382 | 0.000000578 | 0.000225 | ND |
| | Lahaina Intermediate School (AM-03) | <0.00039 | N | 0.0000507 | 0.000165 | 0.00252 | 0.0000104 | ND | 0.00307 | 0.000438 | 0.00874 | 0.000284 | 0.00768 | 0.000626 | 0.0012 | 0.000368 | 0.000000657 | 0.000677 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.00042 | N | 0.0000627 | 0.000874 | 0.00126 | ND | ND | 0.00211 | 0.00011 | 0.0273 | 0.00086 | 0.00198 | 0.000979 | ND | 0.00033 | ND | 0.000265 | ND |
| 95% Upper Confidence Limit ³ | 0.00093 | | 0.00016 | 0.00194 | 0.00541 | 0.00001 | NA | 0.00344 | 0.00039 | 0.0378 | 0.00326 | 0.00829 | 0.00157 | 0.00267 | 0.00032 | 0.0000013 | 0.00074 | 0.103 | |

Notes:
 Hevavy Metal sampling was not conducted at (AM-01) on 1/23 and at (AM-02), (AM-03), & (AM-04) on 1/20, 1/21, 1/22, and 1/23 due to shipping delays on sampling filters
 NA = Not Available
 f/cc = fibers per cubic centimeter
 mg/m3 = milligrams per cubic meter
 ND = Not detected at or above the laboratory reporting limit
¹ Fiber count sample result via Phase Contrast Microscopy
² Confirmed asbestos sample result via Transmission Electron Microscopy
³ 95% UCL determined through 'best fit' lognormal or normal parametric statistics via W test
 Data unavailable, Limited sampling filters due to weather related circumstances, shipments delayed.
 * Laboratory data provided in nanograms per cubic meter, however data shown in Table 1 has been converted to micrograms per cubic meter so data was comparable to SSALS

Table 2
HDOH CAB Ambient Community Monitoring and Sampling
Particulate Monitoring Results for PM₁₀
Maui Wildfire, Lahaina
1/18/2024 - 1/24/2024

| Screening Level | | 150 µg/m ³ |
|-----------------|-------------------------------------|-----------------------|
| 1/18/2024 | Leialii Hawaiian Homelands (AM-01) | 6.6 |
| | WW Pump Station #4 (AM-02) | 10.5 |
| | Lahaina Intermediate School (AM-03) | 6.2 |
| | Lahaina Boys & Girls Club (AM-04) | 6.5 |
| 1/19/2024 | Leialii Hawaiian Homelands (AM-01) | 5.2 |
| | WW Pump Station #4 (AM-02) | 8.5 |
| | Lahaina Intermediate School (AM-03) | 8.4 |
| | Lahaina Boys & Girls Club (AM-04) | 5.5 |
| 1/20/2024 | Leialii Hawaiian Homelands (AM-01) | 6.8 |
| | WW Pump Station #4 (AM-02) | 6.6 |
| | Lahaina Intermediate School (AM-03) | 7.4 |
| | Lahaina Boys & Girls Club (AM-04) | 4.3 |
| 1/21/2024 | Leialii Hawaiian Homelands (AM-01) | 5.9 |
| | WW Pump Station #4 (AM-02) | 6.2 |
| | Lahaina Intermediate School (AM-03) | 6.7 |
| | Lahaina Boys & Girls Club (AM-04) | 5.2 |
| 1/22/2024 | Leialii Hawaiian Homelands (AM-01) | 7.8 |
| | WW Pump Station #4 (AM-02) | 12 |
| | Lahaina Intermediate School (AM-03) | 8.5 |
| | Lahaina Boys & Girls Club (AM-04) | 9.0 |
| 1/23/2024 | Leialii Hawaiian Homelands (AM-01) | 6.9 |
| | WW Pump Station #4 (AM-02) | 9.3 |
| | Lahaina Intermediate School (AM-03) | 8.1 |
| | Lahaina Boys & Girls Club (AM-04) | 7.1 |
| 1/24/2024 | Leialii Hawaiian Homelands (AM-01) | 14 |
| | WW Pump Station #4 (AM-02) | 14 |
| | Lahaina Intermediate School (AM-03) | 16 |
| | Lahaina Boys & Girls Club (AM-04) | 11 |

Notes:

Results are based on 24 hour TWA calculation
24 hour TWA calculation is presented in two significant figures
µg/m³ = micrograms per cubic meter

Table 3
Maui Wildfire - Lahaina
Meteorological Data
1/18/2024-1/24/2024

| Date | Station ID | Weather Station Name | Wind Speed (mph) | Wind Direction (angle) | Temperature (°F) | Rel Humidity (%) | Baro Pressure (mBar) |
|-------------|-------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|-------------------------|-----------------------------|
| 1/18/2024 | AM-01 | Leialii Hawaiian Homelands | 1.0 | ESE | 74 | 69 | 757.3 |
| 1/18/2024 | AM-02 | WW Pump Station #4 | 0.8 | ESE | 75 | 72 | 759.7 |
| 1/18/2024 | AM-03 | Lahaina Intermediate School | 1.1 | ESE | 79 | 70 | 750.1 |
| 1/18/2024 | AM-04 | Lahaina Boys & Girls Club | 0.8 | S | 74 | 72 | 759.2 |
| 1/19/2024 | AM-01 | Leialii Hawaiian Homelands | 1.2 | SE | 75 | 66 | 758.4 |
| 1/19/2024 | AM-02 | WW Pump Station #4 | 1.1 | SE | 75 | 72 | 760.8 |
| 1/19/2024 | AM-03 | Lahaina Intermediate School | 1.2 | ESE | 79 | 73 | 751.2 |
| 1/19/2024 | AM-04 | Lahaina Boys & Girls Club | 1.0 | SSE | 74 | 69 | 760.3 |
| 1/20/2024 | AM-01 | Leialii Hawaiian Homelands | 0.9 | SE | 75 | 77 | 758.3 |
| 1/20/2024 | AM-02 | WW Pump Station #4 | 1.0 | ESE | 76 | 80 | 760.7 |
| 1/20/2024 | AM-03 | Lahaina Intermediate School | 1.0 | ESE | 79 | 84 | 751.1 |
| 1/20/2024 | AM-04 | Lahaina Boys & Girls Club | 0.9 | SSE | 75 | 79 | 760.2 |
| 1/21/2024 | AM-01 | Leialii Hawaiian Homelands | 0.8 | SE | 76 | 77 | 758.7 |
| 1/21/2024 | AM-02 | WW Pump Station #4 | 1.0 | SE | 76 | 81 | 761.1 |
| 1/21/2024 | AM-03 | Lahaina Intermediate School | 0.9 | SE | 79 | 85 | 751.5 |
| 1/21/2024 | AM-04 | Lahaina Boys & Girls Club | 0.9 | SSE | 74 | 81 | 760.6 |
| 1/22/2024 | AM-01 | Leialii Hawaiian Homelands | 1.8 | SE | 77 | 64 | 758.8 |
| 1/22/2024 | AM-02 | WW Pump Station #4 | 1.3 | SE | 78 | 69 | 761.3 |
| 1/22/2024 | AM-03 | Lahaina Intermediate School | 1.7 | SE | 81 | 70 | 751.7 |
| 1/22/2024 | AM-04 | Lahaina Boys & Girls Club | 1.2 | SE | 76 | 68 | 760.7 |
| 1/23/2024 | AM-01 | Leialii Hawaiian Homelands | 1.5 | SSE | 77 | 67 | 758.7 |
| 1/23/2024 | AM-02 | WW Pump Station #4 | 1.6 | SSE | 78 | 71 | 761.2 |
| 1/23/2024 | AM-03 | Lahaina Intermediate School | 1.8 | SE | 80 | 74 | 751.6 |
| 1/23/2024 | AM-04 | Lahaina Boys & Girls Club | 1.4 | SSE | 76 | 71 | 760.7 |
| 1/24/2024 | AM-01 | Leialii Hawaiian Homelands | 2.7 | SSE | 78 | 68 | 757.8 |
| 1/24/2024 | AM-02 | WW Pump Station #4 | 2.2 | SSE | 78 | 73 | 760.4 |
| 1/24/2024 | AM-03 | Lahaina Intermediate School | 3.6 | SSE | 81 | 75 | 750.7 |
| 1/24/2024 | AM-04 | Lahaina Boys & Girls Club | 1.5 | SE | 78 | 70 | 759.9 |

Notes:

°F - Fahrenheit

mBar - millibar

mph - miles per hour

Appendix 1

Eurofins Built Environment Testing

6110 W. 34th Street, Houston, Texas 77092

Phone: (713) 290-0221 Fax: (713) 290-0248

www.EurofinsBuiltEnv.com



Built Environment Testing

Airborne Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM)

ISO 10312:2019 - Ambient Air - Determination of Asbestos Fibers

Direct Transfer Transmission Electron Microscopy Method

Chelsea Saber
Tetra Tech
1999 Harrison St, Ste. 500
Oakland, CA 94612

EJ3 Order #: 3517293
Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM01-011824-AB**

| | |
|--|----------|
| Air Volume, L: | 4255.089 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.68545 |
| Analytical Sensitivity: f/cm ³ : | 0.00069 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00069 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00069 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00069 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.68545 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.68545 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 2.5 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 2.5 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

These results apply to the sample(s) as received. Eurofins J3 Resources, Inc. (EJ3) is not responsible for results reported in fibers or asbestos structures per cubic centimeter, which is dependent on volumes provided by non-laboratory personnel. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by EJ3. All samples received in good condition unless otherwise noted. This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

NVLAP Lab Code: 200525-0; TDSHS License: 30-0273

Eurofins Built Environment Testing

6110 W. 34th Street, Houston, Texas 77092

Phone: (713) 290-0221 Fax: (713) 290-0248

www.EurofinsBuiltEnv.com



Built Environment Testing

Airborne Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM)

ISO 10312:2019 - Ambient Air - Determination of Asbestos Fibers

Direct Transfer Transmission Electron Microscopy Method

Chelsea Saber
Tetra Tech
1999 Harrison St, Ste. 500
Oakland, CA 94612

EJ3 Order #: 3517293
Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM02-011824-AB**

| | |
|--|----------|
| Air Volume, L: | 3507.459 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.83156 |
| Analytical Sensitivity: f/cm ³ : | 0.00083 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00083 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00083 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00083 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.83156 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.83156 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 3.1 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 3.1 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

These results apply to the sample(s) as received. Eurofins J3 Resources, Inc. (EJ3) is not responsible for results reported in fibers or asbestos structures per cubic centimeter, which is dependent on volumes provided by non-laboratory personnel. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by EJ3. All samples received in good condition unless otherwise noted. This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

NVLAP Lab Code: 200525-0; TDSHS License: 30-0273

Eurofins Built Environment Testing

6110 W. 34th Street, Houston, Texas 77092

Phone: (713) 290-0221 Fax: (713) 290-0248

www.EurofinsBuiltEnv.com



Built Environment Testing

Airborne Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM)

ISO 10312:2019 - Ambient Air - Determination of Asbestos Fibers

Direct Transfer Transmission Electron Microscopy Method

Chelsea Saber
Tetra Tech
1999 Harrison St, Ste. 500
Oakland, CA 94612

EJ3 Order #: 3517293
Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM03-011824-AB**

| | |
|--|----------|
| Air Volume, L: | 2207.25 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 1.32140 |
| Analytical Sensitivity: f/cm ³ : | 0.00132 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00132 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00132 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00132 |
| Concentration of Asbestos (Chrysotile), Str/L: | <1.3214 |
| Concentration of Asbestos (Amphibole), Str/L: | <1.3214 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 4.9 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 4.9 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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ISO 10312:2019 - Ambient Air - Determination of Asbestos Fibers

Direct Transfer Transmission Electron Microscopy Method

Chelsea Saber
Tetra Tech
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Oakland, CA 94612

EJ3 Order #: 3517293
Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM04-011824-AB**

| | |
|--|----------|
| Air Volume, L: | 3957.543 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.73699 |
| Analytical Sensitivity: f/cm ³ : | 0.00074 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00074 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00074 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00074 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.73699 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.73699 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 2.7 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 2.7 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-FB01-011824-AB**

| | |
|--|--------|
| Air Volume, L: | 0 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | N/A |
| Analytical Sensitivity: f/cm ³ : | N/A |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Amphibole), f/cm ³ : | N/A |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Chrysotile), Str/L: | N/A |
| Concentration of Asbestos (Amphibole), Str/L: | N/A |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Lower 95% Confidence Limit (Amphibole), Str/L: | N/A |
| Upper 95% Confidence Limit (Amphibole), Str/L: | N/A |

Analyst: Taylor Smylie

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Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM01-011924-AB**

| | |
|--|----------|
| Air Volume, L: | 7356.859 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.39646 |
| Analytical Sensitivity: f/cm ³ : | 0.00040 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.0004 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.0004 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.0004 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.39646 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.39646 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 1.5 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 1.5 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

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Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM02-011924-AB**

| | |
|--|----------|
| Air Volume, L: | 5788.583 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.50387 |
| Analytical Sensitivity: f/cm ³ : | 0.00050 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.0005 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.0005 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.0005 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.50387 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.50387 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 1.9 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 1.9 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

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Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM03-011924-AB**

| | |
|--|----------|
| Air Volume, L: | 4439.458 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.65699 |
| Analytical Sensitivity: f/cm ³ : | 0.00066 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00066 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00066 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00066 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.65699 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.65699 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 2.4 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 2.4 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM04-011924-AB**

| | |
|--|----------|
| Air Volume, L: | 6909.042 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.42215 |
| Analytical Sensitivity: f/cm ³ : | 0.00042 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00042 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00042 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00042 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.42215 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.42215 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 1.6 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 1.6 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-FB01-011924-AB**

| | |
|--|--------|
| Air Volume, L: | 0 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | N/A |
| Analytical Sensitivity: f/cm ³ : | N/A |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Amphibole), f/cm ³ : | N/A |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Chrysotile), Str/L: | N/A |
| Concentration of Asbestos (Amphibole), Str/L: | N/A |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Lower 95% Confidence Limit (Amphibole), Str/L: | N/A |
| Upper 95% Confidence Limit (Amphibole), Str/L: | N/A |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

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HDOH Lahaina Community Air

Sample Number **MFL-AM01-012024-AB**

| | |
|--|----------|
| Air Volume, L: | 3594.766 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.81136 |
| Analytical Sensitivity: f/cm ³ : | 0.00081 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00081 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00081 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00081 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.81136 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.81136 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 3 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 3 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM02-012024-AB**

| | |
|--|----------|
| Air Volume, L: | 4219.167 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.69129 |
| Analytical Sensitivity: f/cm ³ : | 0.00069 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00069 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00069 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00069 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.69129 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.69129 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 2.6 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 2.6 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Airborne Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM)

ISO 10312:2019 - Ambient Air - Determination of Asbestos Fibers

Direct Transfer Transmission Electron Microscopy Method

Chelsea Saber
Tetra Tech
1999 Harrison St, Ste. 500
Oakland, CA 94612

EJ3 Order #: 3517293
Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM03-012024-AB**

| | |
|--|----------|
| Air Volume, L: | 2306.578 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 1.26450 |
| Analytical Sensitivity: f/cm ³ : | 0.00126 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00126 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00126 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00126 |
| Concentration of Asbestos (Chrysotile), Str/L: | <1.2645 |
| Concentration of Asbestos (Amphibole), Str/L: | <1.2645 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 4.7 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 4.7 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM04-012024-AB**

| | |
|--|----------|
| Air Volume, L: | 2763.934 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 1.05526 |
| Analytical Sensitivity: f/cm ³ : | 0.00106 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00106 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00106 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00106 |
| Concentration of Asbestos (Chrysotile), Str/L: | <1.05526 |
| Concentration of Asbestos (Amphibole), Str/L: | <1.05526 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 3.9 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 3.9 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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Oakland, CA 94612

EJ3 Order #: 3517293
Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-FB01-012024-AB**

| | |
|--|--------|
| Air Volume, L: | 0 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | N/A |
| Analytical Sensitivity: f/cm ³ : | N/A |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Amphibole), f/cm ³ : | N/A |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Chrysotile), Str/L: | N/A |
| Concentration of Asbestos (Amphibole), Str/L: | N/A |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Lower 95% Confidence Limit (Amphibole), Str/L: | N/A |
| Upper 95% Confidence Limit (Amphibole), Str/L: | N/A |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM01-012124-AB**

| | |
|--|----------|
| Air Volume, L: | 6693.371 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.43575 |
| Analytical Sensitivity: f/cm ³ : | 0.00044 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00044 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00044 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00044 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.43575 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.43575 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 1.6 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 1.6 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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Oakland, CA 94612

EJ3 Order #: 3517293
Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM02-012124-AB**

| | |
|--|----------|
| Air Volume, L: | 6476.383 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.45035 |
| Analytical Sensitivity: f/cm ³ : | 0.00045 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00045 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00045 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00045 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.45035 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.45035 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 1.7 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 1.7 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Oakland, CA 94612

EJ3 Order #: 3517293
Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM03-012124-AB**

| | |
|--|----------|
| Air Volume, L: | 2423.07 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 1.20371 |
| Analytical Sensitivity: f/cm ³ : | 0.00120 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.0012 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.0012 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.0012 |
| Concentration of Asbestos (Chrysotile), Str/L: | <1.20371 |
| Concentration of Asbestos (Amphibole), Str/L: | <1.20371 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 4.4 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 4.4 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Oakland, CA 94612

EJ3 Order #: 3517293
Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM04-012124-AB**

| | |
|--|----------|
| Air Volume, L: | 4805.041 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.60700 |
| Analytical Sensitivity: f/cm ³ : | 0.00061 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00061 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00061 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00061 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.607 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.607 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 2.2 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 2.2 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Oakland, CA 94612

EJ3 Order #: 3517293
Project #: 103S864023206
Receipt Date: 25-Jan-2024
Analysis Date: 30-Jan-2024
Report Date: 30-Jan-2024

HDOH Lahaina Community Air

Sample Number **MFL-FB01-012124-AB**

| | |
|--|--------|
| Air Volume, L: | 0 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | N/A |
| Analytical Sensitivity: f/cm ³ : | N/A |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Amphibole), f/cm ³ : | N/A |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Chrysotile), Str/L: | N/A |
| Concentration of Asbestos (Amphibole), Str/L: | N/A |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Lower 95% Confidence Limit (Amphibole), Str/L: | N/A |
| Upper 95% Confidence Limit (Amphibole), Str/L: | N/A |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Stage 1 Data Verification Checklist – Asbestos
HDOH CAB – Ambient Community Air Sampling – Lahaina
Task Order No. 23141

Reviewed by:

Talaidh Isaacs 02/01/2024 and Shanna Vasser 02/02/2024

Laboratory: Eurofins Built Environment Testing – Houston, TX

Analysis date: 01/30/2024

Report No: 3517293

- √ 1. Chain of custody (CoC) documentation is present.
- √ 2. Sample receipt condition information is present and acceptable.
- √ 3. Laboratory conducting the analysis is identified.
- √ 4. All samples submitted to the laboratory are accounted for.
- √ 5. Requested analytical methods were performed.
- √ 6. Analysis dates are provided.
- √ 7. Analyte results are provided.
- NA 8. Result qualifiers and definitions are provided.
- √ 9. Result units are reported.
- √ 10. Requested reporting limits are present.
- NA 11. Method detection limits are present.
- √ 12. Sample collection date and time are present.
- √ 13. No detections in field QC blanks (lot/media blanks, field blanks, etc).

Discrepancies: None

Notes: None.

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ISO 10312:2019 - Ambient Air - Determination of Asbestos Fibers

Direct Transfer Transmission Electron Microscopy Method

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Tetra Tech
1999 Harrison St, Ste. 500
Oakland, CA 94612

EJ3 Order #: 3520539_V1
Project #: 103S864023206
Receipt Date: 29-Jan-2024
Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM01-012224-AB**

| | |
|--|----------|
| Air Volume, L: | 5480.074 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.53223 |
| Analytical Sensitivity: f/cm ³ : | 0.00053 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00053 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00053 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00053 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.53223 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.53223 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 2 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 2 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Airborne Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM)

ISO 10312:2019 - Ambient Air - Determination of Asbestos Fibers

Direct Transfer Transmission Electron Microscopy Method

Chelsea Saber
Tetra Tech
1999 Harrison St, Ste. 500
Oakland, CA 94612

EJ3 Order #: 3520539_V1
Project #: 103S864023206
Receipt Date: 29-Jan-2024
Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM02-012224-AB**

| | |
|--|----------|
| Air Volume, L: | 1543.345 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 1.88983 |
| Analytical Sensitivity: f/cm ³ : | 0.00189 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00189 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00189 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00189 |
| Concentration of Asbestos (Chrysotile), Str/L: | <1.88983 |
| Concentration of Asbestos (Amphibole), Str/L: | <1.88983 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 7 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 7 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM03-012224-AB**

| | |
|--|----------|
| Air Volume, L: | 2813.289 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 1.03675 |
| Analytical Sensitivity: f/cm ³ : | 0.00104 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00104 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00104 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00104 |
| Concentration of Asbestos (Chrysotile), Str/L: | <1.03675 |
| Concentration of Asbestos (Amphibole), Str/L: | <1.03675 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 3.8 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 3.8 |

Analyst: Taylor Smylie

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Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM04-012224-AB**

| | |
|--|----------|
| Air Volume, L: | 7468.56 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.39053 |
| Analytical Sensitivity: f/cm ³ : | 0.00039 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00039 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00039 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00039 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.39053 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.39053 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 1.4 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 1.4 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

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Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-FB01-012224-AB**

| | |
|--|--------|
| Air Volume, L: | 0 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | N/A |
| Analytical Sensitivity: f/cm ³ : | N/A |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Amphibole), f/cm ³ : | N/A |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Chrysotile), Str/L: | N/A |
| Concentration of Asbestos (Amphibole), Str/L: | N/A |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Lower 95% Confidence Limit (Amphibole), Str/L: | N/A |
| Upper 95% Confidence Limit (Amphibole), Str/L: | N/A |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM01-012324-AB**

| | |
|--|----------|
| Air Volume, L: | 7373.341 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.39557 |
| Analytical Sensitivity: f/cm ³ : | 0.00040 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.0004 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.0004 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.0004 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.39557 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.39557 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 1.5 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 1.5 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM02-012324-AB**

| | |
|--|----------|
| Air Volume, L: | 1720.419 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 1.69532 |
| Analytical Sensitivity: f/cm ³ : | 0.00170 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.0017 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.0017 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.0017 |
| Concentration of Asbestos (Chrysotile), Str/L: | <1.69532 |
| Concentration of Asbestos (Amphibole), Str/L: | <1.69532 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 6.3 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 6.3 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM03-012324-AB**

| | |
|--|----------|
| Air Volume, L: | 2944.234 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.99064 |
| Analytical Sensitivity: f/cm ³ : | 0.00099 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00099 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00099 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00099 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.99064 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.99064 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 3.7 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 3.7 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

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HDOH Lahaina Community Air

Sample Number **MFL-AM04-012324-AB**

| | |
|--|----------|
| Air Volume, L: | 2636.072 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 1.10644 |
| Analytical Sensitivity: f/cm ³ : | 0.00111 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00111 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00111 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00111 |
| Concentration of Asbestos (Chrysotile), Str/L: | <1.10644 |
| Concentration of Asbestos (Amphibole), Str/L: | <1.10644 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 4.1 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 4.1 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

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HDOH Lahaina Community Air

Sample Number **MFL-FB01-012324-AB**

| | |
|--|--------|
| Air Volume, L: | 0 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | N/A |
| Analytical Sensitivity: f/cm ³ : | N/A |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Amphibole), f/cm ³ : | N/A |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Chrysotile), Str/L: | N/A |
| Concentration of Asbestos (Amphibole), Str/L: | N/A |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Lower 95% Confidence Limit (Amphibole), Str/L: | N/A |
| Upper 95% Confidence Limit (Amphibole), Str/L: | N/A |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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NVLAP Lab Code: 200525-0; TDSHS License: 30-0273

Eurofins Built Environment Testing

6110 W. 34th Street, Houston, Texas 77092

Phone: (713) 290-0221 Fax: (713) 290-0248

www.EurofinsBuiltEnv.com



Built Environment Testing

Airborne Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM)

ISO 10312:2019 - Ambient Air - Determination of Asbestos Fibers

Direct Transfer Transmission Electron Microscopy Method

Chelsea Saber
Tetra Tech
1999 Harrison St, Ste. 500
Oakland, CA 94612

EJ3 Order #: 3520539_V1
Project #: 103S864023206
Receipt Date: 29-Jan-2024
Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM01-012424-AB**

| | |
|--|----------|
| Air Volume, L: | 7166.648 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.40698 |
| Analytical Sensitivity: f/cm ³ : | 0.00041 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00041 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00041 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00041 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.40698 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.40698 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 1.5 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 1.5 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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Direct Transfer Transmission Electron Microscopy Method

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Tetra Tech
1999 Harrison St, Ste. 500
Oakland, CA 94612

EJ3 Order #: 3520539_V1
Project #: 103S864023206
Receipt Date: 29-Jan-2024
Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM02-012424-AB**

| | |
|--|----------|
| Air Volume, L: | 5456.201 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.53456 |
| Analytical Sensitivity: f/cm ³ : | 0.00053 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00053 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00053 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00053 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.53456 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.53456 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 2 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 2 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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Direct Transfer Transmission Electron Microscopy Method

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Oakland, CA 94612

EJ3 Order #: 3520539_V1
Project #: 103S864023206
Receipt Date: 29-Jan-2024
Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM03-012424-AB**

| | |
|--|----------|
| Air Volume, L: | 7392.814 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.39453 |
| Analytical Sensitivity: f/cm ³ : | 0.00039 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00039 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00039 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00039 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.39453 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.39453 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 1.5 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 1.5 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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Direct Transfer Transmission Electron Microscopy Method

Chelsea Saber
Tetra Tech
1999 Harrison St, Ste. 500
Oakland, CA 94612

EJ3 Order #: 3520539_V1
Project #: 103S864023206
Receipt Date: 29-Jan-2024
Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-AM04-012424-AB**

| | |
|--|----------|
| Air Volume, L: | 6924.664 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | 0.42120 |
| Analytical Sensitivity: f/cm ³ : | 0.00042 |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | <0.00042 |
| Concentration of Asbestos (Amphibole), f/cm ³ : | <0.00042 |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | <0.00042 |
| Concentration of Asbestos (Chrysotile), Str/L: | <0.4212 |
| Concentration of Asbestos (Amphibole), Str/L: | <0.4212 |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | 0 |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | 1.6 |
| Lower 95% Confidence Limit (Amphibole), Str/L: | 0 |
| Upper 95% Confidence Limit (Amphibole), Str/L: | 1.6 |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

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ISO 10312:2019 - Ambient Air - Determination of Asbestos Fibers

Direct Transfer Transmission Electron Microscopy Method

Chelsea Saber
Tetra Tech
1999 Harrison St, Ste. 500
Oakland, CA 94612

EJ3 Order #: 3520539_V1
Project #: 103S864023206
Receipt Date: 29-Jan-2024
Analysis Date: 1-Feb-2024
Report Date: 1-Feb-2024

HDOH Lahaina Community Air

Sample Number **MFL-FB01-012424-AB**

| | |
|--|--------|
| Air Volume, L: | 0 |
| Effective Filter Area, mm ² : | 385.0 |
| Level of Analysis (Chrysotile): | CDQ |
| Level of Analysis (Amphibole): | ADQ |
| Magnification Used for Fiber Counting: | 20,000 |
| Aspect Ratio for Fiber Definition: | 5:1 |
| Mean Dimension of Grid Openings (GOs), mm ² : | 0.0132 |
| Number of GO's Examined: | 10 |
| Analytical Sensitivity: f/Liter: | N/A |
| Analytical Sensitivity: f/cm ³ : | N/A |
| Number of primary asbestos structures: | 0 |
| Number of asbestos structures counted: | 0 |
| Number of asbestos structures > 5 µm: | 0 |
| Number of asbestos fibers and bundles > 5 µm: | 0 |
| Number of PCM equivalent asbestos structures: | 0 |
| Number of PCM equivalent asbestos fibers: | 0 |
| Concentration of Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Amphibole), f/cm ³ : | N/A |
| Concentration of PCME Asbestos (Chrysotile), f/cm ³ : | N/A |
| Concentration of Asbestos (Chrysotile), Str/L: | N/A |
| Concentration of Asbestos (Amphibole), Str/L: | N/A |
| Lower 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Upper 95% Confidence Limit (Chrysotile), Str/L: | N/A |
| Lower 95% Confidence Limit (Amphibole), Str/L: | N/A |
| Upper 95% Confidence Limit (Amphibole), Str/L: | N/A |

Analyst: Taylor Smylie

Scott M. Ward, Ph.D.

Lab Director

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NVLAP Lab Code: 200525-0; TDSHS License: 30-0273

Stage 1 Data Verification Checklist – Asbestos
HDOH CAB – Ambient Community Air Sampling – Lahaina
Task Order No. 23141

Reviewed by:

Kierra Johnson 02/13/2024 and Shanna Vasser 2/13/2024

Laboratory: Eurofins Built Environment Testing – Houston, TX

Analysis date: 01/22/2024 - 01/24/2024

Report No: 3520539

- √ 1. Chain of custody (CoC) documentation is present.
- √ 2. Sample receipt condition information is present and acceptable.
- √ 3. Laboratory conducting the analysis is identified.
- √ 4. All samples submitted to the laboratory are accounted for.
- √ 5. Requested analytical methods were performed.
- √ 6. Analysis dates are provided.
- √ 7. Analyte results are provided.
- NA 8. Result qualifiers and definitions are provided.
- √ 9. Result units are reported.
- √ 10. Requested reporting limits are present.
- NA 11. Method detection limits are present.
- √ 12. Sample collection date and time are present.
- √ 13. No detections in field QC blanks (lot/media blanks, field blanks, etc).

Discrepancies: None

Notes: None



Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

February 06, 2024

Ms. Chelsea Saber
Tetra Tech, Inc.
1777 Sentry Pkwy, Bldg 12
Blue Bell, PA 19422
Project Name: Lahaina fires

Dear Ms. Chelsea Saber,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 01/29/24 13:08.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for National Hazardous Air Pollutant Support (US EPA Contract No. 68HERH22D0002). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
1777 Sentry Pkwy, Bldg 12
Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

PHONE: (703) 885-5495 **FAX:**

FILE #: 4205.00.003.001

REPORTED: 02/06/24 11:01

SUBMITTED: 01/29/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Notes and Definitions

| | |
|-------|---|
| U | Under Detection Limit |
| SL | The spike recovery was outside acceptance limits. Reported value may be biased low. |
| QX | Compound does not meet QC criteria. Results should be considered an estimate. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. |
| QB-04 | Analyte exceeds continuing calibration blank criteria |
| QB-01 | Analyte exceeds method blank criteria |
| LJ | Identification of analyte is acceptable; reported value is an estimate. |
| A-01 | Parent sample >4x spike amount |
| ND | Analyte NOT DETECTED |
| NR | Not Reported |
| MDL | Method Detection Limit |
| RPD | Relative Percent Difference |

Note: This test is accredited under the 2016 TNI Standard.



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Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

PHONE: (703) 885-5495 **FAX:**

FILE #: 4205.00.003.001

REPORTED: 02/06/24 11:01

SUBMITTED: 01/29/24

AQS SITE CODE:

SITE CODE: Lahaina fires

ANALYTICAL REPORT FOR SAMPLES

| <u>SampleName</u> | <u>LabNumber</u> | <u>Matrix</u> | <u>Sampled</u> | <u>Received</u> |
|-----------------------|------------------|---------------|----------------|-----------------|
| TetraTech Q9524445 | 4012928-01 | Air | 01/18/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9524444 | 4012928-02 | Air | 01/18/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9524463 | 4012928-03 | Air | 01/18/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9524462 | 4012928-04 | Air | 01/18/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9524460 | 4012928-05 | Air | 01/19/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9524459 | 4012928-06 | Air | 01/19/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9524458 | 4012928-07 | Air | 01/19/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9524457 | 4012928-08 | Air | 01/19/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9524455 | 4012928-09 | Air | 01/21/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9524454 | 4012928-10 | Air | 01/22/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9537214 | 4012928-11 | Air | 01/24/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9534268 | 4012928-12 | Air | 01/24/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9534267 | 4012928-13 | Air | 01/24/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9534265 | 4012928-14 | Air | 01/24/24 23:59 | 01/29/24 13:08 |
| TetraTech Q9534257 FB | 4012928-15 | Air | 01/24/24 00:00 | 01/29/24 13:08 |
| TetraTech Q9524456 | 4012928-16 | Air | 01/20/24 23:59 | 01/29/24 13:08 |



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Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524445 **Lab ID:** 4012928-01 **Sampled:** 01/18/24 23:59
Matrix: Air **Sample Volume:** 2111.33 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/01/24 19:55
Comments: MFL-AM01-011824-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.250 | SL | 0.0297 | |
| Arsenic | 7440-38-2 | 1.36 | | 0.00722 | |
| Barium | 7440-39-3 | 8.19 | | 0.825 | |
| Beryllium | 7440-41-7 | 0.00536 | | 0.00247 | |
| Cadmium | 7440-43-9 | 0.0203 | U | 0.0611 | |
| Chromium | 7440-47-3 | 1.42 | U | 1.70 | |
| Cobalt | 7440-48-4 | 0.364 | | 0.0336 | |
| Copper | 7440-50-8 | 36.6 | | 2.03 | |
| Lead | 7439-92-1 | 1.93 | | 0.165 | |
| Manganese | 7439-96-5 | 7.67 | | 1.46 | |
| Molybdenum | 7439-98-7 | 1.64 | | 0.277 | |
| Nickel | 7440-02-0 | 0.844 | QB-01 | 0.502 | |
| Selenium | 7782-49-2 | 0.238 | LJ, QX | 0.00690 | |
| Thallium | 7440-28-0 | 0.00286 | QB-01, QB-04 | 4.54E-4 | |
| Vanadium | 7440-62-2 | 0.483 | | 0.0408 | |
| Zinc | 7440-66-6 | 83.8 | | 59.2 | |



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Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524444 **Lab ID:** 4012928-02 **Sampled:** 01/18/24 23:59
Matrix: Air **Sample Volume:** 2164.06 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/01/24 20:15
Comments: MFL-AM02-011824-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.284 | SL | 0.0290 | |
| Arsenic | 7440-38-2 | 2.26 | | 0.00704 | |
| Barium | 7440-39-3 | 5.99 | | 0.804 | |
| Beryllium | 7440-41-7 | 0.00644 | | 0.00241 | |
| Cadmium | 7440-43-9 | 0.0516 | U | 0.0596 | |
| Chromium | 7440-47-3 | 2.39 | | 1.66 | |
| Cobalt | 7440-48-4 | 0.185 | | 0.0328 | |
| Copper | 7440-50-8 | 36.4 | | 1.98 | |
| Lead | 7439-92-1 | 2.40 | | 0.161 | |
| Manganese | 7439-96-5 | 6.43 | | 1.42 | |
| Molybdenum | 7439-98-7 | 1.40 | | 0.270 | |
| Nickel | 7440-02-0 | 0.753 | QB-01 | 0.490 | |
| Selenium | 7782-49-2 | 0.270 | LJ, QX | 0.00674 | |
| Thallium | 7440-28-0 | 0.00135 | QB-01, QB-04 | 4.43E-4 | |
| Vanadium | 7440-62-2 | 0.595 | | 0.0398 | |
| Zinc | 7440-66-6 | 62.8 | | 57.7 | |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524463 **Lab ID:** 4012928-03 **Sampled:** 01/18/24 23:59
Matrix: Air **Sample Volume:** 2059.037 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/01/24 20:35
Comments: MFL-AM03-011824-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.102 | SL | 0.0305 | |
| Arsenic | 7440-38-2 | 0.0957 | | 0.00740 | |
| Barium | 7440-39-3 | 2.20 | | 0.845 | |
| Beryllium | 7440-41-7 | 0.00647 | | 0.00253 | |
| Cadmium | 7440-43-9 | 0.0157 | U | 0.0627 | |
| Chromium | 7440-47-3 | 1.20 | U | 1.75 | |
| Cobalt | 7440-48-4 | 0.114 | | 0.0345 | |
| Copper | 7440-50-8 | 23.2 | | 2.08 | |
| Lead | 7439-92-1 | 0.263 | | 0.169 | |
| Manganese | 7439-96-5 | 2.51 | | 1.49 | |
| Molybdenum | 7439-98-7 | 1.35 | | 0.284 | |
| Nickel | 7440-02-0 | 0.608 | QB-01 | 0.515 | |
| Selenium | 7782-49-2 | 0.216 | LJ, QX | 0.00708 | |
| Thallium | 7440-28-0 | 0.00113 | QB-01, QB-04 | 4.65E-4 | |
| Vanadium | 7440-62-2 | 0.275 | | 0.0418 | |
| Zinc | 7440-66-6 | 25.6 | U | 60.7 | |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524462 **Lab ID:** 4012928-04 **Sampled:** 01/18/24 23:59
Matrix: Air **Sample Volume:** 1951.155 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/01/24 21:05
Comments: MFL-AM04-011824-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0792 | SL | 0.0322 | |
| Arsenic | 7440-38-2 | 0.156 | | 0.00781 | |
| Barium | 7440-39-3 | 2.07 | | 0.892 | |
| Beryllium | 7440-41-7 | 0.00299 | | 0.00267 | |
| Cadmium | 7440-43-9 | 0.00671 | U | 0.0661 | |
| Chromium | 7440-47-3 | 0.846 | U | 1.84 | |
| Cobalt | 7440-48-4 | 0.0723 | | 0.0364 | |
| Copper | 7440-50-8 | 35.1 | | 2.19 | |
| Lead | 7439-92-1 | 0.437 | | 0.178 | |
| Manganese | 7439-96-5 | 2.24 | | 1.58 | |
| Molybdenum | 7439-98-7 | 1.02 | | 0.299 | |
| Nickel | 7440-02-0 | 0.350 | U, QB-01 | 0.544 | |
| Selenium | 7782-49-2 | 0.198 | LJ, QX | 0.00747 | |
| Thallium | 7440-28-0 | 9.11E-4 | QB-01, QB-04 | 4.91E-4 | |
| Vanadium | 7440-62-2 | 0.216 | | 0.0441 | |
| Zinc | 7440-66-6 | 19.6 | U | 64.0 | |



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 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524460 **Lab ID:** 4012928-05 **Sampled:** 01/19/24 23:59
Matrix: Air **Sample Volume:** 2065.013 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/01/24 21:20
Comments: MFL-AM01-011924-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0714 | SL | 0.0304 | |
| Arsenic | 7440-38-2 | 0.399 | | 0.00738 | |
| Barium | 7440-39-3 | 2.36 | | 0.843 | |
| Beryllium | 7440-41-7 | 0.00350 | | 0.00252 | |
| Cadmium | 7440-43-9 | 0.00632 | U | 0.0625 | |
| Chromium | 7440-47-3 | 1.20 | U | 1.74 | |
| Cobalt | 7440-48-4 | 0.143 | | 0.0344 | |
| Copper | 7440-50-8 | 28.7 | | 2.07 | |
| Lead | 7439-92-1 | 0.588 | | 0.169 | |
| Manganese | 7439-96-5 | 3.91 | | 1.49 | |
| Molybdenum | 7439-98-7 | 1.34 | | 0.283 | |
| Nickel | 7440-02-0 | 0.548 | QB-01 | 0.514 | |
| Selenium | 7782-49-2 | 0.140 | LJ, QX | 0.00706 | |
| Thallium | 7440-28-0 | 6.44E-4 | QB-01, QB-04 | 4.64E-4 | |
| Vanadium | 7440-62-2 | 0.467 | | 0.0417 | |
| Zinc | 7440-66-6 | 26.0 | U | 60.5 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524459 **Lab ID:** 4012928-06 **Sampled:** 01/19/24 23:59
Matrix: Air **Sample Volume:** 2141.176 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/01/24 21:36
Comments: MFL-AM02-011924-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.202 | SL | 0.0293 | |
| Arsenic | 7440-38-2 | 0.974 | | 0.00712 | |
| Barium | 7440-39-3 | 4.33 | | 0.813 | |
| Beryllium | 7440-41-7 | 0.00519 | | 0.00243 | |
| Cadmium | 7440-43-9 | 0.0151 | U | 0.0603 | |
| Chromium | 7440-47-3 | 1.37 | U | 1.68 | |
| Cobalt | 7440-48-4 | 0.165 | | 0.0331 | |
| Copper | 7440-50-8 | 23.8 | | 2.00 | |
| Lead | 7439-92-1 | 1.68 | | 0.163 | |
| Manganese | 7439-96-5 | 5.29 | | 1.44 | |
| Molybdenum | 7439-98-7 | 1.20 | | 0.273 | |
| Nickel | 7440-02-0 | 0.654 | QB-01 | 0.495 | |
| Selenium | 7782-49-2 | 0.157 | LJ, QX | 0.00681 | |
| Thallium | 7440-28-0 | 7.42E-4 | QB-01, QB-04 | 4.48E-4 | |
| Vanadium | 7440-62-2 | 0.582 | | 0.0402 | |
| Zinc | 7440-66-6 | 44.1 | U | 58.4 | |



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 ATTN: Ms. Chelsea Saber
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FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524458 **Lab ID:** 4012928-07 **Sampled:** 01/19/24 23:59
Matrix: Air **Sample Volume:** 2104.136 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/01/24 21:53
Comments: MFL-AM03-011924-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0852 | SL | 0.0298 | |
| Arsenic | 7440-38-2 | 0.0650 | | 0.00725 | |
| Barium | 7440-39-3 | 2.01 | | 0.827 | |
| Beryllium | 7440-41-7 | 0.00558 | | 0.00247 | |
| Cadmium | 7440-43-9 | 0.00461 | U | 0.0613 | |
| Chromium | 7440-47-3 | 1.04 | U | 1.71 | |
| Cobalt | 7440-48-4 | 0.106 | | 0.0337 | |
| Copper | 7440-50-8 | 23.3 | | 2.03 | |
| Lead | 7439-92-1 | 0.318 | | 0.165 | |
| Manganese | 7439-96-5 | 2.48 | | 1.46 | |
| Molybdenum | 7439-98-7 | 1.35 | | 0.278 | |
| Nickel | 7440-02-0 | 0.879 | QB-01 | 0.504 | |
| Selenium | 7782-49-2 | 0.139 | LJ, QX | 0.00693 | |
| Thallium | 7440-28-0 | 6.53E-4 | QB-01, QB-04 | 4.55E-4 | |
| Vanadium | 7440-62-2 | 0.341 | | 0.0409 | |
| Zinc | 7440-66-6 | 19.3 | U | 59.4 | |



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 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524457 **Lab ID:** 4012928-08 **Sampled:** 01/19/24 23:59
Matrix: Air **Sample Volume:** 1956.076 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/01/24 22:08
Comments: MFL-AM04-011924-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|--------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.120 | SL | 0.0321 | |
| Arsenic | 7440-38-2 | 0.160 | | 0.00779 | |
| Barium | 7440-39-3 | 1.90 | | 0.890 | |
| Beryllium | 7440-41-7 | 0.00270 | | 0.00266 | |
| Cadmium | 7440-43-9 | 0.00409 | U | 0.0660 | |
| Chromium | 7440-47-3 | 0.992 | U | 1.84 | |
| Cobalt | 7440-48-4 | 0.0708 | | 0.0363 | |
| Copper | 7440-50-8 | 30.4 | | 2.19 | |
| Lead | 7439-92-1 | 0.256 | | 0.178 | |
| Manganese | 7439-96-5 | 2.18 | | 1.57 | |
| Molybdenum | 7439-98-7 | 1.02 | | 0.299 | |
| Nickel | 7440-02-0 | 0.371 | QB-01, U | 0.542 | |
| Selenium | 7782-49-2 | 0.146 | LJ, QX | 0.00745 | |
| Thallium | 7440-28-0 | 4.54E-4 | QB-01, QB-04, U | 4.90E-4 | |
| Vanadium | 7440-62-2 | 0.276 | | 0.0440 | |
| Zinc | 7440-66-6 | 19.3 | U | 63.9 | |



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 ATTN: Ms. Chelsea Saber
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FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524455 **Lab ID:** 4012928-09 **Sampled:** 01/21/24 23:59
Matrix: Air **Sample Volume:** 2063.266 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/01/24 22:25
Comments: MFL-AM01-012124-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0980 | SL | 0.0304 | |
| Arsenic | 7440-38-2 | 0.501 | | 0.00739 | |
| Barium | 7440-39-3 | 1.65 | | 0.844 | |
| Beryllium | 7440-41-7 | 0.00195 | U | 0.00252 | |
| Cadmium | 7440-43-9 | 0.00491 | U | 0.0625 | |
| Chromium | 7440-47-3 | 0.811 | U | 1.74 | |
| Cobalt | 7440-48-4 | 0.0638 | | 0.0344 | |
| Copper | 7440-50-8 | 30.4 | | 2.07 | |
| Lead | 7439-92-1 | 0.347 | | 0.169 | |
| Manganese | 7439-96-5 | 1.70 | | 1.49 | |
| Molybdenum | 7439-98-7 | 1.70 | | 0.283 | |
| Nickel | 7440-02-0 | 0.448 | QB-01, U | 0.514 | |
| Selenium | 7782-49-2 | 0.349 | LJ, QX | 0.00707 | |
| Thallium | 7440-28-0 | 7.12E-4 | QB-01, QB-04 | 4.64E-4 | |
| Vanadium | 7440-62-2 | 0.314 | | 0.0417 | |
| Zinc | 7440-66-6 | 21.4 | U | 60.6 | |



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 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524454 **Lab ID:** 4012928-10 **Sampled:** 01/22/24 23:59
Matrix: Air **Sample Volume:** 2104.339 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/02/24 00:02
Comments: MFL-AM01-012224-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0894 | SL | 0.0298 | |
| Arsenic | 7440-38-2 | 0.572 | | 0.00724 | |
| Barium | 7440-39-3 | 3.32 | | 0.827 | |
| Beryllium | 7440-41-7 | 0.00558 | | 0.00247 | |
| Cadmium | 7440-43-9 | 0.0118 | U | 0.0613 | |
| Chromium | 7440-47-3 | 1.58 | U | 1.71 | |
| Cobalt | 7440-48-4 | 0.274 | QB-04 | 0.0337 | |
| Copper | 7440-50-8 | 49.4 | | 2.03 | |
| Lead | 7439-92-1 | 1.26 | | 0.165 | |
| Manganese | 7439-96-5 | 6.41 | | 1.46 | |
| Molybdenum | 7439-98-7 | 1.86 | | 0.278 | |
| Nickel | 7440-02-0 | 1.05 | QB-01 | 0.504 | |
| Selenium | 7782-49-2 | 0.323 | LJ, QX | 0.00693 | |
| Thallium | 7440-28-0 | 0.00102 | QB-01, QB-04 | 4.55E-4 | |
| Vanadium | 7440-62-2 | 0.786 | | 0.0409 | |
| Zinc | 7440-66-6 | 31.8 | U | 59.4 | |



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 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9537214 **Lab ID:** 4012928-11 **Sampled:** 01/24/24 23:59
Matrix: Air **Sample Volume:** 2028.249 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/01/24 17:03
Comments: MFL-AM01-012424-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|-----------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.112 | SL | 0.0310 | |
| Arsenic | 7440-38-2 | 2.41 | | 0.00752 | |
| Barium | 7440-39-3 | 14.0 | A-01 | 0.858 | |
| Beryllium | 7440-41-7 | 0.0238 | | 0.00257 | |
| Cadmium | 7440-43-9 | 0.0378 | U | 0.0636 | |
| Chromium | 7440-47-3 | 5.24 | | 1.77 | |
| Cobalt | 7440-48-4 | 1.38 | | 0.0350 | |
| Copper | 7440-50-8 | 47.4 | QM-07 | 2.11 | |
| Lead | 7439-92-1 | 11.8 | | 0.172 | |
| Manganese | 7439-96-5 | 26.0 | QM-07 | 1.52 | |
| Molybdenum | 7439-98-7 | 1.63 | | 0.288 | |
| Nickel | 7440-02-0 | 6.47 | QB-01, QM-07 | 0.523 | |
| Selenium | 7782-49-2 | 0.408 | LJ, QX | 0.00719 | |
| Thallium | 7440-28-0 | 0.00147 | QB-01 | 4.72E-4 | |
| Vanadium | 7440-62-2 | 2.29 | | 0.0424 | |
| Zinc | 7440-66-6 | 77.0 | | 61.6 | |



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 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9534268 **Lab ID:** 4012928-12 **Sampled:** 01/24/24 23:59
Matrix: Air **Sample Volume:** 2106.215 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/02/24 00:21
Comments: MFL-AM02-012424-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0349 | SL | 0.0298 | |
| Arsenic | 7440-38-2 | 0.710 | | 0.00724 | |
| Barium | 7440-39-3 | 1.24 | | 0.827 | |
| Beryllium | 7440-41-7 | 0.00264 | | 0.00247 | |
| Cadmium | 7440-43-9 | 0.0191 | U | 0.0613 | |
| Chromium | 7440-47-3 | 1.89 | | 1.71 | |
| Cobalt | 7440-48-4 | 0.104 | QB-04 | 0.0337 | |
| Copper | 7440-50-8 | 23.2 | | 2.03 | |
| Lead | 7439-92-1 | 1.25 | | 0.165 | |
| Manganese | 7439-96-5 | 1.80 | | 1.46 | |
| Molybdenum | 7439-98-7 | 0.445 | | 0.277 | |
| Nickel | 7440-02-0 | 0.450 | QB-01, U | 0.504 | |
| Selenium | 7782-49-2 | 0.382 | LJ, QX | 0.00692 | |
| Thallium | 7440-28-0 | 5.78E-4 | QB-01, QB-04 | 4.55E-4 | |
| Vanadium | 7440-62-2 | 0.225 | | 0.0409 | |
| Zinc | 7440-66-6 | 28.6 | U | 59.3 | |



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 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9534267 **Lab ID:** 4012928-13 **Sampled:** 01/24/24 23:59
Matrix: Air **Sample Volume:** 2043.645 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/02/24 00:39
Comments: MFL-AM03-012424-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0507 | SL | 0.0307 | |
| Arsenic | 7440-38-2 | 0.165 | | 0.00746 | |
| Barium | 7440-39-3 | 2.52 | | 0.852 | |
| Beryllium | 7440-41-7 | 0.0104 | | 0.00255 | |
| Cadmium | 7440-43-9 | 0.00633 | U | 0.0631 | |
| Chromium | 7440-47-3 | 3.07 | | 1.76 | |
| Cobalt | 7440-48-4 | 0.438 | QB-04 | 0.0347 | |
| Copper | 7440-50-8 | 8.74 | | 2.09 | |
| Lead | 7439-92-1 | 0.284 | | 0.170 | |
| Manganese | 7439-96-5 | 7.68 | | 1.50 | |
| Molybdenum | 7439-98-7 | 0.626 | | 0.286 | |
| Nickel | 7440-02-0 | 1.20 | QB-01 | 0.519 | |
| Selenium | 7782-49-2 | 0.368 | LJ, QX | 0.00713 | |
| Thallium | 7440-28-0 | 6.57E-4 | QB-01, QB-04 | 4.69E-4 | |
| Vanadium | 7440-62-2 | 0.677 | | 0.0421 | |
| Zinc | 7440-66-6 | 18.7 | U | 61.1 | |



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 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9534265 **Lab ID:** 4012928-14 **Sampled:** 01/24/24 23:59
Matrix: Air **Sample Volume:** 1915.566 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/02/24 00:56
Comments: MFL-AM04-012424-HM

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|--------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0627 | SL | 0.0328 | |
| Arsenic | 7440-38-2 | 0.874 | | 0.00796 | |
| Barium | 7440-39-3 | 1.26 | | 0.909 | |
| Beryllium | 7440-41-7 | 0.00239 | U | 0.00272 | |
| Cadmium | 7440-43-9 | 0.0244 | U | 0.0674 | |
| Chromium | 7440-47-3 | 2.11 | | 1.88 | |
| Cobalt | 7440-48-4 | 0.110 | QB-04 | 0.0370 | |
| Copper | 7440-50-8 | 27.3 | | 2.23 | |
| Lead | 7439-92-1 | 0.860 | | 0.182 | |
| Manganese | 7439-96-5 | 1.98 | | 1.61 | |
| Molybdenum | 7439-98-7 | 0.979 | | 0.305 | |
| Nickel | 7440-02-0 | 0.487 | QB-01, U | 0.554 | |
| Selenium | 7782-49-2 | 0.330 | LJ, QX | 0.00761 | |
| Thallium | 7440-28-0 | 4.81E-4 | QB-01, QB-04, U | 5.00E-4 | |
| Vanadium | 7440-62-2 | 0.265 | | 0.0449 | |
| Zinc | 7440-66-6 | 22.1 | U | 65.2 | |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9534257 FB **Lab ID:** 4012928-15 **Sampled:** 01/24/24 00:00
Matrix: Air **Sample Volume:** 2028.249 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/02/24 01:16
Comments: MFL-FB01-012424-HM Field Blank

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0124 | SL, U | 0.0310 | |
| Arsenic | 7440-38-2 | 0.00495 | U | 0.00752 | |
| Barium | 7440-39-3 | 0.472 | U | 0.858 | |
| Beryllium | 7440-41-7 | 9.86E-4 | U | 0.00257 | |
| Cadmium | 7440-43-9 | 0.00389 | U | 0.0636 | |
| Chromium | 7440-47-3 | 1.36 | U | 1.77 | |
| Cobalt | 7440-48-4 | 0.0254 | QB-04, U | 0.0350 | |
| Copper | 7440-50-8 | 0.533 | U | 2.11 | |
| Lead | 7439-92-1 | 0.0638 | U | 0.172 | |
| Manganese | 7439-96-5 | 0.149 | U | 1.52 | |
| Molybdenum | 7439-98-7 | 0.196 | U | 0.288 | |
| Nickel | 7440-02-0 | 0.263 | QB-01, U | 0.523 | |
| Selenium | 7782-49-2 | 0.00396 | LJ, QX, U | 0.00719 | |
| Thallium | 7440-28-0 | 1.63E-4 | QB-01, QB-04, U | 4.72E-4 | |
| Vanadium | 7440-62-2 | 0.0314 | U | 0.0424 | |
| Zinc | 7440-66-6 | 10.5 | U | 61.6 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: TetraTech Q9524456 **Lab ID:** 4012928-16 **Sampled:** 01/20/24 23:59
Matrix: Air **Sample Volume:** 2099.095 m³ **Received:** 01/29/24 13:08
Filter ID: **Analysis Date:** 02/02/24 01:32
Comments: MFL-AM01-012024-HM - Sample omitted from original shipment by error, receiver

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> |
|-------------------|-------------------|-----------------------------|--------------|-----------------------------|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> |
| Antimony | 7440-36-0 | 0.0590 | SL | 0.0299 |
| Arsenic | 7440-38-2 | 0.378 | | 0.00726 |
| Barium | 7440-39-3 | 1.88 | | 0.829 |
| Beryllium | 7440-41-7 | 0.00225 | U | 0.00248 |
| Cadmium | 7440-43-9 | 0.00557 | U | 0.0615 |
| Chromium | 7440-47-3 | 0.904 | U | 1.71 |
| Cobalt | 7440-48-4 | 0.0876 | QB-04 | 0.0338 |
| Copper | 7440-50-8 | 27.5 | | 2.04 |
| Lead | 7439-92-1 | 0.270 | | 0.166 |
| Manganese | 7439-96-5 | 2.37 | | 1.46 |
| Molybdenum | 7439-98-7 | 1.43 | | 0.278 |
| Nickel | 7440-02-0 | 0.365 | QB-01, U | 0.505 |
| Selenium | 7782-49-2 | 0.193 | LJ, QX | 0.00694 |
| Thallium | 7440-28-0 | 4.85E-4 | QB-01, QB-04 | 4.57E-4 |
| Vanadium | 7440-62-2 | 0.283 | | 0.0410 |
| Zinc | 7440-66-6 | 18.0 | U | 59.5 |



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FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402002 - B4B0101

Calibration Blank (2402002-CCB1)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|-------|--|------|--|--|--|--|--|--|-----------|
| Antimony | 0.994 | | ng/l | | | | | | | |
| Arsenic | 2.36 | | ng/l | | | | | | | |
| Barium | 2.67 | | ng/l | | | | | | | |
| Beryllium | 0.231 | | ng/l | | | | | | | |
| Cadmium | 0.294 | | ng/l | | | | | | | |
| Chromium | 2.83 | | ng/l | | | | | | | |
| Cobalt | 0.637 | | ng/l | | | | | | | |
| Copper | 94.6 | | ng/l | | | | | | | |
| Lead | 4.20 | | ng/l | | | | | | | |
| Manganese | 9.92 | | ng/l | | | | | | | |
| Molybdenum | 13.1 | | ng/l | | | | | | | |
| Nickel | 0.498 | | ng/l | | | | | | | |
| Selenium | -1.71 | | ng/l | | | | | | | LJ, QX, U |
| Thallium | 0.745 | | ng/l | | | | | | | |
| Vanadium | 50.3 | | ng/l | | | | | | | |
| Zinc | -30.5 | | ng/l | | | | | | | U |

Calibration Blank (2402002-CCB2)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|--------|--|------|--|--|--|--|--|--|--------|
| Antimony | 0.471 | | ng/l | | | | | | | |
| Arsenic | 5.98 | | ng/l | | | | | | | |
| Barium | 2.05 | | ng/l | | | | | | | |
| Beryllium | 0.0503 | | ng/l | | | | | | | |
| Cadmium | 0.238 | | ng/l | | | | | | | |
| Chromium | 0.531 | | ng/l | | | | | | | |
| Cobalt | 0.250 | | ng/l | | | | | | | |
| Copper | 64.0 | | ng/l | | | | | | | |
| Lead | 3.16 | | ng/l | | | | | | | |
| Manganese | 4.59 | | ng/l | | | | | | | |
| Molybdenum | 3.75 | | ng/l | | | | | | | |
| Nickel | 0.346 | | ng/l | | | | | | | |
| Selenium | 10.3 | | ng/l | | | | | | | LJ, QX |
| Thallium | 0.610 | | ng/l | | | | | | | |
| Vanadium | 46.1 | | ng/l | | | | | | | |
| Zinc | -33.0 | | ng/l | | | | | | | U |

Calibration Blank (2402002-CCB3)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|-----------|-------|--|------|--|--|--|--|--|--|--|
| Antimony | 4.02 | | ng/l | | | | | | | |
| Arsenic | 3.84 | | ng/l | | | | | | | |
| Barium | 37.4 | | ng/l | | | | | | | |
| Beryllium | 0.753 | | ng/l | | | | | | | |

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 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402002 - B4B0101

Calibration Blank (2402002-CCB3) Contin

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|------|--|------|--|--|--|--|--|--|--------|
| Cadmium | 2.91 | | ng/l | | | | | | | |
| Chromium | 37.8 | | ng/l | | | | | | | |
| Cobalt | 8.52 | | ng/l | | | | | | | |
| Copper | 456 | | ng/l | | | | | | | |
| Lead | 45.4 | | ng/l | | | | | | | |
| Manganese | 86.2 | | ng/l | | | | | | | |
| Molybdenum | 22.7 | | ng/l | | | | | | | |
| Nickel | 20.5 | | ng/l | | | | | | | |
| Selenium | 6.85 | | ng/l | | | | | | | LJ, QX |
| Thallium | 3.19 | | ng/l | | | | | | | QB-04 |
| Vanadium | 59.4 | | ng/l | | | | | | | |
| Zinc | 159 | | ng/l | | | | | | | |

Calibration Blank (2402002-CCB4)

Prepared: 02/01/24 Analyzed: 02/02/24

| | | | | | | | | | | |
|------------|------|--|------|--|--|--|--|--|--|--------|
| Antimony | 8.77 | | ng/l | | | | | | | |
| Arsenic | 12.0 | | ng/l | | | | | | | |
| Barium | 94.2 | | ng/l | | | | | | | |
| Beryllium | 2.81 | | ng/l | | | | | | | |
| Cadmium | 7.23 | | ng/l | | | | | | | |
| Chromium | 98.5 | | ng/l | | | | | | | |
| Cobalt | 26.4 | | ng/l | | | | | | | QB-04 |
| Copper | 1220 | | ng/l | | | | | | | |
| Lead | 144 | | ng/l | | | | | | | |
| Manganese | 236 | | ng/l | | | | | | | |
| Molybdenum | 65.5 | | ng/l | | | | | | | |
| Nickel | 64.5 | | ng/l | | | | | | | |
| Selenium | 17.3 | | ng/l | | | | | | | LJ, QX |
| Thallium | 2.43 | | ng/l | | | | | | | QB-04 |
| Vanadium | 60.7 | | ng/l | | | | | | | |
| Zinc | 538 | | ng/l | | | | | | | |

Calibration Check (2402002-CCV1)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|-----------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Arsenic | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 209000 | | ng/l | 200000 | | 104 | 90-110 | | | |
| Beryllium | 5270 | | ng/l | 5000.0 | | 105 | 90-110 | | | |
| Cadmium | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Chromium | 253000 | | ng/l | 240000 | | 106 | 90-110 | | | |
| Cobalt | 49400 | | ng/l | 50000 | | 98.9 | 90-110 | | | |
| Copper | 1.99E6 | | ng/l | 2.0000E6 | | 99.6 | 90-110 | | | |

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 ATTN: Ms. Chelsea Saber
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FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402002 - B4B0101

Calibration Check (2402002-CCV1) Contin

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|--------|--|------|--------|--|------|--------|--|--|--------|
| Lead | 200000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Manganese | 492000 | | ng/l | 500000 | | 98.4 | 90-110 | | | |
| Molybdenum | 49900 | | ng/l | 50000 | | 99.8 | 90-110 | | | |
| Nickel | 119000 | | ng/l | 120000 | | 99.1 | 90-110 | | | |
| Selenium | 20800 | | ng/l | 20000 | | 104 | 90-110 | | | LJ, QX |
| Thallium | 505 | | ng/l | 500.00 | | 101 | 90-110 | | | |
| Vanadium | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Zinc | 524000 | | ng/l | 500000 | | 105 | 90-110 | | | |

Calibration Check (2402002-CCV2)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--------|
| Antimony | 20300 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Arsenic | 20000 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Barium | 211000 | | ng/l | 200000 | | 106 | 90-110 | | | |
| Beryllium | 5000 | | ng/l | 5000.0 | | 100 | 90-110 | | | |
| Cadmium | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Chromium | 246000 | | ng/l | 240000 | | 102 | 90-110 | | | |
| Cobalt | 48200 | | ng/l | 50000 | | 96.4 | 90-110 | | | |
| Copper | 1.96E6 | | ng/l | 2.0000E6 | | 98.1 | 90-110 | | | |
| Lead | 200000 | | ng/l | 200000 | | 99.9 | 90-110 | | | |
| Manganese | 485000 | | ng/l | 500000 | | 97.0 | 90-110 | | | |
| Molybdenum | 49800 | | ng/l | 50000 | | 99.7 | 90-110 | | | |
| Nickel | 116000 | | ng/l | 120000 | | 96.9 | 90-110 | | | |
| Selenium | 21000 | | ng/l | 20000 | | 105 | 90-110 | | | LJ, QX |
| Thallium | 493 | | ng/l | 500.00 | | 98.7 | 90-110 | | | |
| Vanadium | 20700 | | ng/l | 20000 | | 104 | 90-110 | | | |
| Zinc | 523000 | | ng/l | 500000 | | 105 | 90-110 | | | |

Calibration Check (2402002-CCV3)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Arsenic | 19700 | | ng/l | 20000 | | 98.4 | 90-110 | | | |
| Barium | 208000 | | ng/l | 200000 | | 104 | 90-110 | | | |
| Beryllium | 4560 | | ng/l | 5000.0 | | 91.3 | 90-110 | | | |
| Cadmium | 19900 | | ng/l | 20000 | | 99.3 | 90-110 | | | |
| Chromium | 258000 | | ng/l | 240000 | | 107 | 90-110 | | | |
| Cobalt | 47500 | | ng/l | 50000 | | 94.9 | 90-110 | | | |
| Copper | 1.94E6 | | ng/l | 2.0000E6 | | 96.9 | 90-110 | | | |
| Lead | 198000 | | ng/l | 200000 | | 99.2 | 90-110 | | | |
| Manganese | 488000 | | ng/l | 500000 | | 97.5 | 90-110 | | | |
| Molybdenum | 49200 | | ng/l | 50000 | | 98.3 | 90-110 | | | |
| Nickel | 115000 | | ng/l | 120000 | | 95.6 | 90-110 | | | |

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 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402002 - B4B0101

Calibration Check (2402002-CCV3) Contin

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|----------|--------|--|------|--------|--|------|--------|--|--|--------|
| Selenium | 20500 | | ng/l | 20000 | | 103 | 90-110 | | | LJ, QX |
| Thallium | 492 | | ng/l | 500.00 | | 98.4 | 90-110 | | | |
| Vanadium | 20800 | | ng/l | 20000 | | 104 | 90-110 | | | |
| Zinc | 520000 | | ng/l | 500000 | | 104 | 90-110 | | | |

Calibration Check (2402002-CCV4)

Prepared: 02/01/24 Analyzed: 02/02/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--------|
| Antimony | 19900 | | ng/l | 20000 | | 99.6 | 90-110 | | | |
| Arsenic | 19700 | | ng/l | 20000 | | 98.3 | 90-110 | | | |
| Barium | 204000 | | ng/l | 200000 | | 102 | 90-110 | | | |
| Beryllium | 5060 | | ng/l | 5000.0 | | 101 | 90-110 | | | |
| Cadmium | 19800 | | ng/l | 20000 | | 99.1 | 90-110 | | | |
| Chromium | 255000 | | ng/l | 240000 | | 106 | 90-110 | | | |
| Cobalt | 47100 | | ng/l | 50000 | | 94.3 | 90-110 | | | |
| Copper | 1.94E6 | | ng/l | 2.0000E6 | | 97.2 | 90-110 | | | |
| Lead | 197000 | | ng/l | 200000 | | 98.7 | 90-110 | | | |
| Manganese | 486000 | | ng/l | 500000 | | 97.2 | 90-110 | | | |
| Molybdenum | 48800 | | ng/l | 50000 | | 97.6 | 90-110 | | | |
| Nickel | 114000 | | ng/l | 120000 | | 95.1 | 90-110 | | | |
| Selenium | 20300 | | ng/l | 20000 | | 102 | 90-110 | | | LJ, QX |
| Thallium | 477 | | ng/l | 500.00 | | 95.3 | 90-110 | | | |
| Vanadium | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Zinc | 518000 | | ng/l | 500000 | | 104 | 90-110 | | | |

High Cal Check (2402002-HCV1)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--------|
| Antimony | 40700 | | ng/l | 40000 | | 102 | 95-105 | | | |
| Arsenic | 40100 | | ng/l | 40000 | | 100 | 95-105 | | | |
| Barium | 410000 | | ng/l | 400000 | | 102 | 95-105 | | | |
| Beryllium | 10300 | | ng/l | 10000 | | 103 | 95-105 | | | |
| Cadmium | 40100 | | ng/l | 40000 | | 100 | 95-105 | | | |
| Chromium | 479000 | | ng/l | 480000 | | 99.9 | 95-105 | | | |
| Cobalt | 98100 | | ng/l | 100000 | | 98.1 | 95-105 | | | |
| Copper | 3.91E6 | | ng/l | 4.0000E6 | | 97.7 | 95-105 | | | |
| Lead | 401000 | | ng/l | 400000 | | 100 | 95-105 | | | |
| Manganese | 995000 | | ng/l | 1.0000E6 | | 99.5 | 95-105 | | | |
| Molybdenum | 100000 | | ng/l | 100000 | | 100 | 95-105 | | | |
| Nickel | 235000 | | ng/l | 240000 | | 97.8 | 95-105 | | | |
| Selenium | 41000 | | ng/l | 40000 | | 103 | 95-105 | | | LJ, QX |
| Thallium | 1000 | | ng/l | 1000.0 | | 100 | 95-105 | | | |
| Vanadium | 41200 | | ng/l | 40000 | | 103 | 95-105 | | | |
| Zinc | 1.02E6 | | ng/l | 1.0000E6 | | 102 | 95-105 | | | |

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FILE #: 4205.00.003.001
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 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402002 - B4B0101

Initial Cal Blank (2402002-ICB1)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|-------|--|------|--|--|--|--|--|--|-----------|
| Antimony | 1.08 | | ng/l | | | | | | | |
| Arsenic | 0.708 | | ng/l | | | | | | | |
| Barium | 3.32 | | ng/l | | | | | | | |
| Beryllium | 0.366 | | ng/l | | | | | | | |
| Cadmium | 0.309 | | ng/l | | | | | | | |
| Chromium | 3.13 | | ng/l | | | | | | | |
| Cobalt | 0.510 | | ng/l | | | | | | | |
| Copper | 143 | | ng/l | | | | | | | |
| Lead | 5.16 | | ng/l | | | | | | | |
| Manganese | 13.3 | | ng/l | | | | | | | |
| Molybdenum | 15.6 | | ng/l | | | | | | | |
| Nickel | 0.407 | | ng/l | | | | | | | |
| Selenium | -4.51 | | ng/l | | | | | | | LJ, QX, U |
| Thallium | 1.15 | | ng/l | | | | | | | |
| Vanadium | 59.5 | | ng/l | | | | | | | |
| Zinc | -10.6 | | ng/l | | | | | | | U |

Initial Cal Check (2402002-ICV1)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--------|
| Antimony | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Arsenic | 20300 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 205000 | | ng/l | 200000 | | 103 | 90-110 | | | |
| Beryllium | 4700 | | ng/l | 5000.0 | | 94.0 | 90-110 | | | |
| Cadmium | 21200 | | ng/l | 20000 | | 106 | 90-110 | | | |
| Chromium | 253000 | | ng/l | 240000 | | 105 | 90-110 | | | |
| Cobalt | 50600 | | ng/l | 50000 | | 101 | 90-110 | | | |
| Copper | 2.03E6 | | ng/l | 2.0000E6 | | 101 | 90-110 | | | |
| Lead | 201000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Manganese | 496000 | | ng/l | 500000 | | 99.2 | 90-110 | | | |
| Molybdenum | 51200 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Nickel | 121000 | | ng/l | 120000 | | 101 | 90-110 | | | |
| Selenium | 21000 | | ng/l | 20000 | | 105 | 90-110 | | | LJ, QX |
| Thallium | 512 | | ng/l | 500.00 | | 102 | 90-110 | | | |
| Vanadium | 21100 | | ng/l | 20000 | | 106 | 90-110 | | | |
| Zinc | 543000 | | ng/l | 500000 | | 109 | 90-110 | | | |

Interference Check A (2402002-IFA1)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|-----------|------|--|------|--|--|--------|--|--|--|---|
| Antimony | 0.00 | | ng/l | | | 80-120 | | | | U |
| Arsenic | 0.00 | | ng/l | | | 80-120 | | | | U |
| Barium | 0.00 | | ng/l | | | 80-120 | | | | U |
| Beryllium | 0.00 | | ng/l | | | 80-120 | | | | U |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402002 - B4B0101

Interference Check A (2402002-IFA1) Coi

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|--------|--|------|--------|--|-----|--------|--|--|-----------|
| Cadmium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Chromium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Cobalt | 0.00 | | ng/l | | | | 80-120 | | | U |
| Copper | 0.00 | | ng/l | | | | 80-120 | | | U |
| Lead | 0.00 | | ng/l | | | | 80-120 | | | U |
| Manganese | 0.00 | | ng/l | | | | 80-120 | | | U |
| Molybdenum | 302000 | | ng/l | 300000 | | 101 | 80-120 | | | |
| Nickel | 0.00 | | ng/l | | | | 80-120 | | | U |
| Selenium | 0.00 | | ng/l | | | | 80-120 | | | LJ, QX, U |
| Thallium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Vanadium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Zinc | 0.00 | | ng/l | | | | 80-120 | | | U |

Interference Check B (2402002-IFB1)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--------|
| Antimony | 20900 | | ng/l | 20000 | | 105 | 80-120 | | | |
| Arsenic | 20700 | | ng/l | 20000 | | 104 | 80-120 | | | |
| Barium | 211000 | | ng/l | 200000 | | 106 | 80-120 | | | |
| Beryllium | 4430 | | ng/l | 5000.0 | | 88.6 | 80-120 | | | |
| Cadmium | 19800 | | ng/l | 20000 | | 99.1 | 80-120 | | | |
| Chromium | 238000 | | ng/l | 240000 | | 99.1 | 80-120 | | | |
| Cobalt | 48600 | | ng/l | 50000 | | 97.1 | 80-120 | | | |
| Copper | 1.89E6 | | ng/l | 2.0000E6 | | 94.5 | 80-120 | | | |
| Lead | 207000 | | ng/l | 200000 | | 104 | 80-120 | | | |
| Manganese | 505000 | | ng/l | 500000 | | 101 | 80-120 | | | |
| Molybdenum | 355000 | | ng/l | 350000 | | 102 | 80-120 | | | |
| Nickel | 113000 | | ng/l | 120000 | | 94.3 | 80-120 | | | |
| Selenium | 20200 | | ng/l | 20000 | | 101 | 80-120 | | | LJ, QX |
| Thallium | 516 | | ng/l | 500.00 | | 103 | 80-120 | | | |
| Vanadium | 19800 | | ng/l | 20000 | | 99.1 | 80-120 | | | |
| Zinc | 495000 | | ng/l | 500000 | | 99.1 | 80-120 | | | |

Batch B4B0101 - ICP-MS Extraction

Blank (B4B0101-BLK1)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|-----------|----|---------|-----------------------|--|--|--|--|--|--|-------|
| Antimony | ND | 0.0386 | ng/m ³ Air | | | | | | | SL, U |
| Arsenic | ND | 0.00937 | ng/m ³ Air | | | | | | | U |
| Barium | ND | 1.07 | ng/m ³ Air | | | | | | | U |
| Beryllium | ND | 0.00320 | ng/m ³ Air | | | | | | | U |
| Cadmium | ND | 0.0793 | ng/m ³ Air | | | | | | | U |
| Chromium | ND | 2.21 | ng/m ³ Air | | | | | | | U |
| Cobalt | ND | 0.0436 | ng/m ³ Air | | | | | | | U |

Eastern Research Group

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Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0101 - ICP-MS Extraction

Blank (B4B0101-BLK1) Continued

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|----|---------|-----------------------|--|--|--|--|--|--|-----------|
| Copper | ND | 2.63 | ng/m ³ Air | | | | | | | U |
| Lead | ND | 0.214 | ng/m ³ Air | | | | | | | U |
| Manganese | ND | 1.89 | ng/m ³ Air | | | | | | | U |
| Molybdenum | ND | 0.359 | ng/m ³ Air | | | | | | | U |
| Nickel | ND | 0.652 | ng/m ³ Air | | | | | | | QB-01, U |
| Selenium | ND | 0.00896 | ng/m ³ Air | | | | | | | LJ, QX, U |
| Thallium | ND | 5.89E-4 | ng/m ³ Air | | | | | | | QB-01, U |
| Vanadium | ND | 0.0529 | ng/m ³ Air | | | | | | | U |
| Zinc | ND | 76.8 | ng/m ³ Air | | | | | | | U |

LCS (B4B0101-BS1)

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|--|------|--------|--|--|--------|
| Antimony | 0.713 | 0.0386 | ng/m ³ Air | 1.3829 | | 51.6 | 80-120 | | | SL |
| Arsenic | 2.77 | 0.00937 | ng/m ³ Air | 2.7658 | | 100 | 80-120 | | | |
| Barium | 29.2 | 1.07 | ng/m ³ Air | 27.658 | | 105 | 80-120 | | | |
| Beryllium | 1.34 | 0.00320 | ng/m ³ Air | 1.3829 | | 96.7 | 80-120 | | | |
| Cadmium | 1.40 | 0.0793 | ng/m ³ Air | 1.3829 | | 101 | 80-120 | | | |
| Chromium | 17.0 | 2.21 | ng/m ³ Air | 13.829 | | 123 | 80-120 | | | |
| Cobalt | 1.38 | 0.0436 | ng/m ³ Air | 1.3829 | | 99.7 | 80-120 | | | |
| Copper | 29.8 | 2.63 | ng/m ³ Air | 27.658 | | 108 | 80-120 | | | |
| Lead | 14.0 | 0.214 | ng/m ³ Air | 13.829 | | 101 | 80-120 | | | |
| Manganese | 8.83 | 1.89 | ng/m ³ Air | 8.2975 | | 106 | 80-120 | | | |
| Molybdenum | 1.65 | 0.359 | ng/m ³ Air | 1.3829 | | 120 | 80-120 | | | |
| Nickel | 3.00 | 0.652 | ng/m ³ Air | 2.7658 | | 109 | 80-120 | | | QB-01 |
| Selenium | 2.83 | 0.00896 | ng/m ³ Air | 2.7658 | | 102 | 80-120 | | | LJ, QX |
| Thallium | 0.136 | 5.89E-4 | ng/m ³ Air | 0.13829 | | 98.2 | 80-120 | | | QB-01 |
| Vanadium | 2.89 | 0.0529 | ng/m ³ Air | 2.7658 | | 104 | 80-120 | | | |
| Zinc | 138 | 76.8 | ng/m ³ Air | 82.975 | | 166 | 80-120 | | | |

Duplicate (B4B0101-DUP1)

Source: 4012928-11

Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|--------|--|------|----|--|--|----|
| Antimony | 0.136 | 0.0310 | ng/m ³ Air | 0.112 | | 19.7 | 10 | | | SL |
| Arsenic | 2.60 | 0.00752 | ng/m ³ Air | 2.41 | | 7.48 | 10 | | | |
| Barium | 14.2 | 0.858 | ng/m ³ Air | 14.0 | | 1.36 | 10 | | | |
| Beryllium | 0.0241 | 0.00257 | ng/m ³ Air | 0.0238 | | 1.37 | 10 | | | |
| Cadmium | ND | 0.0636 | ng/m ³ Air | ND | | | 10 | | | U |
| Chromium | 5.31 | 1.77 | ng/m ³ Air | 5.24 | | 1.36 | 10 | | | |
| Cobalt | 1.43 | 0.0350 | ng/m ³ Air | 1.38 | | 3.52 | 10 | | | |
| Copper | 43.5 | 2.11 | ng/m ³ Air | 47.4 | | 8.61 | 10 | | | |
| Lead | 12.5 | 0.172 | ng/m ³ Air | 11.8 | | 5.26 | 10 | | | |
| Manganese | 26.4 | 1.52 | ng/m ³ Air | 26.0 | | 1.64 | 10 | | | |
| Molybdenum | 1.72 | 0.288 | ng/m ³ Air | 1.63 | | 5.71 | 10 | | | |

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 ATTN: Ms. Chelsea Saber
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FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0101 - ICP-MS Extraction

Duplicate (B4B0101-DUP1) Continued **Source: 4012928-11** Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|----------|---------|---------|-----------------------|--|---------|--|--|-------|----|--------|
| Nickel | 6.58 | 0.523 | ng/m ³ Air | | 6.47 | | | 1.73 | 10 | QB-01 |
| Selenium | 0.429 | 0.00719 | ng/m ³ Air | | 0.408 | | | 4.90 | 10 | LJ, QX |
| Thallium | 0.00150 | 4.72E-4 | ng/m ³ Air | | 0.00147 | | | 2.49 | 10 | QB-01 |
| Vanadium | 2.30 | 0.0424 | ng/m ³ Air | | 2.29 | | | 0.445 | 10 | |
| Zinc | 77.4 | 61.6 | ng/m ³ Air | | 77.0 | | | 0.489 | 10 | |

Duplicate (B4B0101-DUP2) **Source: 4012928-03** Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|--|---------|--|--|--------|----|--------------|
| Antimony | 0.102 | 0.0305 | ng/m ³ Air | | 0.102 | | | 0.220 | 10 | SL |
| Arsenic | 0.0955 | 0.00740 | ng/m ³ Air | | 0.0957 | | | 0.195 | 10 | |
| Barium | 2.22 | 0.845 | ng/m ³ Air | | 2.20 | | | 0.598 | 10 | |
| Beryllium | 0.00753 | 0.00253 | ng/m ³ Air | | 0.00647 | | | 15.1 | 10 | |
| Cadmium | ND | 0.0627 | ng/m ³ Air | | ND | | | | 10 | U |
| Chromium | ND | 1.75 | ng/m ³ Air | | ND | | | | 10 | U |
| Cobalt | 0.112 | 0.0345 | ng/m ³ Air | | 0.114 | | | 1.67 | 10 | |
| Copper | 23.5 | 2.08 | ng/m ³ Air | | 23.2 | | | 1.40 | 10 | |
| Lead | 0.251 | 0.169 | ng/m ³ Air | | 0.263 | | | 4.89 | 10 | |
| Manganese | 2.50 | 1.49 | ng/m ³ Air | | 2.51 | | | 0.504 | 10 | |
| Molybdenum | 1.39 | 0.284 | ng/m ³ Air | | 1.35 | | | 2.45 | 10 | |
| Nickel | 0.608 | 0.515 | ng/m ³ Air | | 0.608 | | | 0.0271 | 10 | QB-01 |
| Selenium | 0.219 | 0.00708 | ng/m ³ Air | | 0.216 | | | 1.40 | 10 | LJ, QX |
| Thallium | 0.00107 | 4.65E-4 | ng/m ³ Air | | 0.00113 | | | 5.84 | 10 | QB-01, QB-04 |
| Vanadium | 0.284 | 0.0418 | ng/m ³ Air | | 0.275 | | | 3.12 | 10 | |
| Zinc | ND | 60.7 | ng/m ³ Air | | ND | | | | 10 | U |

Matrix Spike (B4B0101-MS1) **Source: 4012928-11** Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|--|--|--------|
| Antimony | 0.596 | 0.0310 | ng/m ³ Air | 1.1093 | 0.112 | 43.7 | 80-120 | | | SL |
| Arsenic | 4.72 | 0.00752 | ng/m ³ Air | 2.2187 | 2.41 | 104 | 80-120 | | | |
| Barium | 37.3 | 0.858 | ng/m ³ Air | 22.187 | 14.0 | 105 | 80-120 | | | |
| Beryllium | 1.13 | 0.00257 | ng/m ³ Air | 1.1093 | 0.0238 | 99.9 | 80-120 | | | |
| Cadmium | 1.13 | 0.0636 | ng/m ³ Air | 1.1093 | ND | 102 | 80-120 | | | |
| Chromium | 16.9 | 1.77 | ng/m ³ Air | 11.093 | 5.24 | 105 | 80-120 | | | |
| Cobalt | 2.46 | 0.0350 | ng/m ³ Air | 1.1093 | 1.38 | 97.2 | 80-120 | | | |
| Copper | 62.7 | 2.11 | ng/m ³ Air | 22.187 | 47.4 | 69.0 | 80-120 | | | QM-07 |
| Lead | 23.6 | 0.172 | ng/m ³ Air | 11.093 | 11.8 | 106 | 80-120 | | | |
| Manganese | 32.9 | 1.52 | ng/m ³ Air | 6.6560 | 26.0 | 104 | 80-120 | | | |
| Molybdenum | 2.79 | 0.288 | ng/m ³ Air | 1.1093 | 1.63 | 105 | 80-120 | | | |
| Nickel | 8.78 | 0.523 | ng/m ³ Air | 2.2187 | 6.47 | 104 | 80-120 | | | QB-01 |
| Selenium | 2.63 | 0.00719 | ng/m ³ Air | 2.2187 | 0.408 | 100 | 80-120 | | | LJ, QX |
| Thallium | 0.108 | 4.72E-4 | ng/m ³ Air | 0.11093 | 0.00147 | 95.9 | 80-120 | | | QB-01 |
| Vanadium | 4.48 | 0.0424 | ng/m ³ Air | 2.2187 | 2.29 | 98.5 | 80-120 | | | |



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FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0101 - ICP-MS Extraction

Matrix Spike (B4B0101-MS1) Continued Source: 4012928-11 Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------|-----|------|-----------------------|--------|------|------|--------|--|--|--|
| Zinc | 138 | 61.6 | ng/m ³ Air | 66.560 | 77.0 | 92.2 | 80-120 | | | |
|------|-----|------|-----------------------|--------|------|------|--------|--|--|--|

Matrix Spike Dup (B4B0101-MSD1) Source: 4012928-11 Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|------|----|--------------|
| Antimony | 0.542 | 0.0310 | ng/m ³ Air | 1.1093 | 0.112 | 38.8 | 80-120 | 9.65 | 20 | SL |
| Arsenic | 4.27 | 0.00752 | ng/m ³ Air | 2.2187 | 2.41 | 83.6 | 80-120 | 9.91 | 20 | |
| Barium | 35.3 | 0.858 | ng/m ³ Air | 22.187 | 14.0 | 96.0 | 80-120 | 5.43 | 20 | |
| Beryllium | 1.15 | 0.00257 | ng/m ³ Air | 1.1093 | 0.0238 | 102 | 80-120 | 1.89 | 20 | |
| Cadmium | 1.07 | 0.0636 | ng/m ³ Air | 1.1093 | ND | 96.5 | 80-120 | 5.20 | 20 | |
| Chromium | 15.9 | 1.77 | ng/m ³ Air | 11.093 | 5.24 | 95.9 | 80-120 | 6.10 | 20 | |
| Cobalt | 2.34 | 0.0350 | ng/m ³ Air | 1.1093 | 1.38 | 86.9 | 80-120 | 4.73 | 20 | |
| Copper | 58.1 | 2.11 | ng/m ³ Air | 22.187 | 47.4 | 48.5 | 80-120 | 7.51 | 20 | QM-07 |
| Lead | 22.2 | 0.172 | ng/m ³ Air | 11.093 | 11.8 | 93.8 | 80-120 | 5.83 | 20 | |
| Manganese | 31.2 | 1.52 | ng/m ³ Air | 6.6560 | 26.0 | 79.0 | 80-120 | 5.23 | 20 | QM-07 |
| Molybdenum | 2.66 | 0.288 | ng/m ³ Air | 1.1093 | 1.63 | 92.7 | 80-120 | 5.03 | 20 | |
| Nickel | 8.21 | 0.523 | ng/m ³ Air | 2.2187 | 6.47 | 78.7 | 80-120 | 6.67 | 20 | QB-01, QM-07 |
| Selenium | 2.59 | 0.00719 | ng/m ³ Air | 2.2187 | 0.408 | 98.5 | 80-120 | 1.48 | 20 | LJ, QX |
| Thallium | 0.105 | 4.72E-4 | ng/m ³ Air | 0.11093 | 0.00147 | 93.1 | 80-120 | 2.97 | 20 | QB-01 |
| Vanadium | 4.22 | 0.0424 | ng/m ³ Air | 2.2187 | 2.29 | 86.9 | 80-120 | 5.89 | 20 | |
| Zinc | 141 | 61.6 | ng/m ³ Air | 66.560 | 77.0 | 95.9 | 80-120 | 1.74 | 20 | |

Post Spike (B4B0101-PS1) Source: 4012928-11 Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|-----------|---------|------|--------|--|--|--------|
| Antimony | 0.335 | 0.0310 | ng/m ³ Air | 0.22187 | 0.112 | 101 | 75-125 | | | SL |
| Arsenic | 3.49 | 0.00752 | ng/m ³ Air | 1.1093 | 2.41 | 96.9 | 75-125 | | | |
| Barium | 16.9 | 0.858 | ng/m ³ Air | 2.2187 | 14.0 | 128 | 75-125 | | | A-01 |
| Beryllium | 0.249 | 0.00257 | ng/m ³ Air | 0.22187 | 0.0238 | 101 | 75-125 | | | |
| Cadmium | 0.147 | 0.0636 | ng/m ³ Air | 0.11093 | ND | 132 | 75-125 | | | |
| Chromium | 6.42 | 1.77 | ng/m ³ Air | 1.1093 | 5.24 | 106 | 75-125 | | | |
| Cobalt | 1.62 | 0.0350 | ng/m ³ Air | 0.22187 | 1.38 | 107 | 75-125 | | | |
| Copper | 56.3 | 2.11 | ng/m ³ Air | 11.093 | 47.4 | 80.2 | 75-125 | | | |
| Lead | 33.7 | 0.172 | ng/m ³ Air | 22.187 | 11.8 | 98.7 | 75-125 | | | |
| Manganese | 28.2 | 1.52 | ng/m ³ Air | 2.2187 | 26.0 | 100 | 75-125 | | | |
| Molybdenum | 2.74 | 0.288 | ng/m ³ Air | 1.1093 | 1.63 | 100 | 75-125 | | | |
| Nickel | 8.64 | 0.523 | ng/m ³ Air | 2.2187 | 6.47 | 97.7 | 75-125 | | | QB-01 |
| Selenium | 1.52 | 0.00719 | ng/m ³ Air | 1.1093 | 0.408 | 100 | 75-125 | | | LJ, QX |
| Thallium | 0.0551 | 4.72E-4 | ng/m ³ Air | 5.5467E-2 | 0.00147 | 96.7 | 75-125 | | | QB-01 |
| Vanadium | 3.39 | 0.0424 | ng/m ³ Air | 1.1093 | 2.29 | 98.8 | 75-125 | | | |
| Zinc | 101 | 61.6 | ng/m ³ Air | 22.187 | 77.0 | 109 | 75-125 | | | |

Dilution Check (B4B0101-SRL1) Source: 4012928-11 Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|----------|------|--------|-----------------------|--|------|--|--|------|----|-------|
| Antimony | ND | 0.155 | ng/m ³ Air | | ND | | | 10 | | SL, U |
| Arsenic | 2.50 | 0.0376 | ng/m ³ Air | | 2.41 | | | 3.70 | 10 | |

Eastern Research Group

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 Blue Bell, PA 19422
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FILE #: 4205.00.003.001
 REPORTED: 02/06/24 11:01
 SUBMITTED: 01/29/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0101 - ICP-MS Extraction

Dilution Check (B4B0101-SRL1) ContinueSource: 4012928-11 Prepared & Analyzed: 02/01/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|--|--------|--|--|------|----|--------|
| Barium | 14.9 | 4.29 | ng/m ³ Air | | 14.0 | | | 6.10 | 10 | |
| Beryllium | 0.0230 | 0.0128 | ng/m ³ Air | | 0.0238 | | | 3.16 | 10 | |
| Cadmium | ND | 0.318 | ng/m ³ Air | | ND | | | | 10 | U |
| Chromium | ND | 8.86 | ng/m ³ Air | | ND | | | | 10 | U |
| Cobalt | 1.46 | 0.175 | ng/m ³ Air | | 1.38 | | | 5.79 | 10 | |
| Copper | 49.7 | 10.5 | ng/m ³ Air | | 47.4 | | | 4.80 | 10 | |
| Lead | 12.3 | 0.858 | ng/m ³ Air | | 11.8 | | | 3.64 | 10 | |
| Manganese | 27.5 | 7.58 | ng/m ³ Air | | 26.0 | | | 5.74 | 10 | |
| Molybdenum | 1.77 | 1.44 | ng/m ³ Air | | 1.63 | | | 8.14 | 10 | |
| Nickel | 6.89 | 2.62 | ng/m ³ Air | | 6.47 | | | 6.38 | 10 | QB-01 |
| Selenium | 0.441 | 0.0359 | ng/m ³ Air | | 0.408 | | | 7.67 | 10 | LJ, QX |
| Thallium | 0.00278 | 0.00236 | ng/m ³ Air | | ND | | | 61.9 | 10 | QB-01 |
| Vanadium | 2.46 | 0.212 | ng/m ³ Air | | 2.29 | | | 7.06 | 10 | |
| Zinc | ND | 308 | ng/m ³ Air | | ND | | | | 10 | U |

Stage 1 Data Verification Checklist – Metals
HDOH CAB – Ambient Community Air Sampling – Lahaina
Task Order No. 23141

Reviewed by:

Talaidh Isaacs 02/06/2024 and Shanna Vasser 2/9/2024

Laboratory: Eastern Research Group – Morrisville, NC

Analysis date: 02/01/2024 and 02/02/2024

Report No: 4012928

- 1. Chain of custody (CoC) documentation is present.
- 2. Sample receipt condition information is present and acceptable.
- 3. Laboratory conducting the analysis is identified.
- 4. All samples submitted to the laboratory are accounted for.
- 5. Requested analytical methods were performed.
- 6. Analysis dates are provided.
- 7. Analyte results are provided.
- 8. Result qualifiers and definitions are provided.
- 9. Result units are reported.
- 10. Requested reporting limits are present.
- 11. Method detection limits are present.
- 12. Sample collection date and time are present.
- 13. No detections in field QC blanks (lot/media blanks, field blanks, etc).

Discrepancies: None.

Notes: The chain of custody states sample MFL-AM01-012424-HM was missing; however, it was included in a later shipment. No other sample receipt information was included.