

State of Hawaii, Department of Health, Clean Air Branch
2023 Maui Wildfires
Ambient Community Air Monitoring and Sampling Weekly Report
Lahaina, Maui

June 20 through June 26, 2024

A Community Air Monitoring and Sampling Plan (CAMSP) was prepared to address community air monitoring during debris removal operations in response to the 2023 Maui Wildfires. Air monitoring and sampling was performed from June 20 through June 26, 2024 at the 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)

The CAMSP addresses ambient community air monitoring and sampling to assess 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 the State of Hawaii Department of Health, Clean Air Branch (HDOH) through an online shared site and the information presented in these weekly reports. Air monitoring and sampling as prescribed in the CAMSP will continue until debris removal activities are complete or until HDOH 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 CAMSP. Ambient air monitoring was performed to assess the presence of airborne particulates with a particle size diameter of 10 micrometers (μm), which 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 from June 20 through June 26 at each of the locations. Monitoring results were compared to the National Ambient Air Quality Standard (NAAQS) for PM₁₀, 24-hour time-weighted average of 150 μm per cubic meter ($\mu\text{m}/\text{m}^3$) screening level.

Air quality monitoring for fine particulate matter, with a particle size diameter of 2.5 μm or less (PM_{2.5}) is not included in the weekly reports. This monitoring is being performed by the Department of Health or EPA at six locations in Lahaina and can be accessed at: <https://fire.airnow.gov/>.

Air sampling was conducted daily at all four community locations in accordance with the CAMSP. Air samples were analyzed for asbestos and 16 metals, including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, molybdenum, nickel, selenium, thallium, vanadium, and zinc. Analytical results were compared to the Site Screening Action Levels (SSAL) for asbestos and metals, as presented in the CAMSP.

Air Monitoring Results

Real time PM₁₀ concentrations were detected at each monitoring location throughout this reporting period. None of the results exceeded the 150 $\mu\text{m}/\text{m}^3$ screening level, as shown in **Table 1**.

Air Sampling Results

There were 28 samples collected for asbestos fibers at each of the monitoring locations throughout this reporting period. All analytical results were below the SSAL of 0.003 fibers per cubic centimeter (fibers/cc) and less than the laboratory analytical sensitivity; results are presented in **Table 2**.

Low levels of metals were detected in ambient air samples at all community sampling locations. Although metals were detected, all concentrations were below the SSALs.

The laboratory data sheets for the asbestos and metal sample results are included in **Appendix 1**.

Meteorological Summary

Overall wind conditions during this weekly event averaged 1.1 miles per hour in a generally southeast direction. A summary of meteorological data is presented in **Table 3**.

Quality Control Summary

This section presents quality control measures conducted throughout the air monitoring and sampling reporting period. All references and standard operating procedures (SOP) are included in the CAMSP.

Air monitoring is conducted with Met One Instruments, Inc., environmental beta attenuation mass monitors (E-BAM) to allow for comparison to the 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 monitoring according to the manufacturer's procedures.

Asbestos samples are collected with Casella Vortex 3 or similar air sampling pump. Sampling flow rates are 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" and U.S. EPA ERT SOPs No. 2008, "General Air Monitoring and Sampling Guidelines" and 2015 "Asbestos Air Sampling," included in the CAMSP.

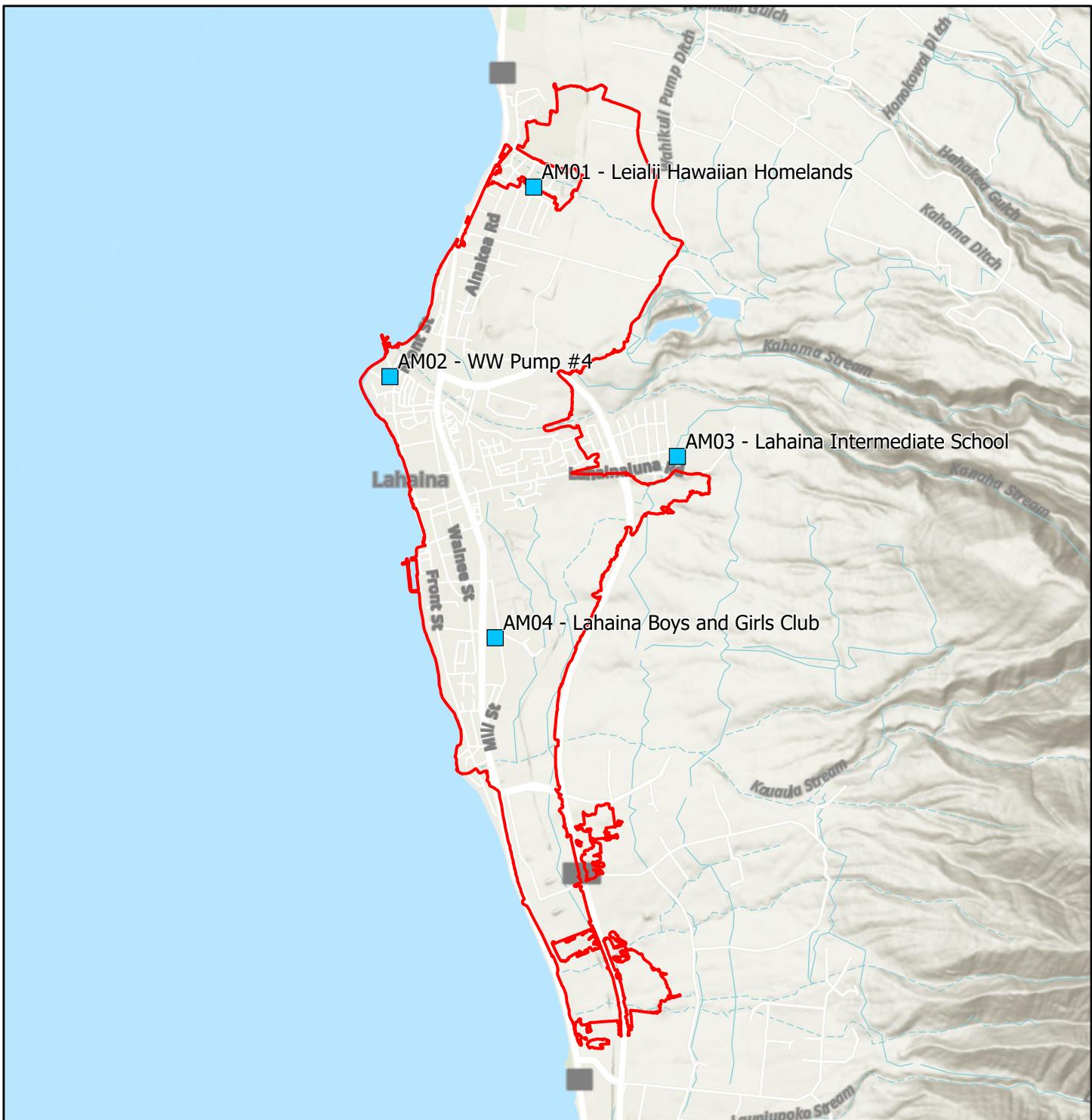
Metals samples are collected with Tisch Environmental High Volume Air Samplers, or equivalent. Air samples for metals are collected and analyzed in accordance with the following methods:

- 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



0 0.3 0.6
Miles

 TETRA TECH

Figure 1
Air Sampling Locations

Hawaii DOH
2023 Lahaina Wildfire

Table 1
State of Hawaii, Department of Health, Clean Air Branch
Particulate Monitoring Results for PM₁₀
Maui Wildfires, Lahaina
June 20 through June 26, 2024

| Screening Level | | TWA Results ($\mu\text{g}/\text{m}^3$) |
|-----------------|-------------------------------------|---|
| 6/20/2024 | Leialii Hawaiian Homelands (AM-01) | 11 |
| | WW Pump Station #4 (AM-02) | 6.1 |
| | Lahaina Intermediate School (AM-03) | 13 |
| | Lahaina Boys & Girls Club (AM-04) | 6.0 |
| 6/21/2024 | Leialii Hawaiian Homelands (AM-01) | 12 |
| | WW Pump Station #4 (AM-02) | 11 |
| | Lahaina Intermediate School (AM-03) | 10 |
| | Lahaina Boys & Girls Club (AM-04) | 4.8 |
| 6/22/2024 | Leialii Hawaiian Homelands (AM-01) | 7.7 |
| | WW Pump Station #4 (AM-02) | 9.4 |
| | Lahaina Intermediate School (AM-03) | 7.6 |
| | Lahaina Boys & Girls Club (AM-04) | 6.2 |
| 6/23/2024 | Leialii Hawaiian Homelands (AM-01) | 10 |
| | WW Pump Station #4 (AM-02) | 9.5 |
| | Lahaina Intermediate School (AM-03) | 9.0 |
| | Lahaina Boys & Girls Club (AM-04) | 4.9 |
| 6/24/2024 | Leialii Hawaiian Homelands (AM-01) | 9.7 |
| | WW Pump Station #4 (AM-02) | 8.4 |
| | Lahaina Intermediate School (AM-03) | 5.8 |
| | Lahaina Boys & Girls Club (AM-04) | 4.2 |
| 6/25/2024 | Leialii Hawaiian Homelands (AM-01) | 12 |
| | WW Pump Station #4 (AM-02) | 7.7 |
| | Lahaina Intermediate School (AM-03) | 10 |
| | Lahaina Boys & Girls Club (AM-04) | 6.9 |
| 6/26/2024 | Leialii Hawaiian Homelands (AM-01) | 7.1 |
| | WW Pump Station #4 (AM-02) | 6.4 |
| | Lahaina Intermediate School (AM-03) | 14 |
| | Lahaina Boys & Girls Club (AM-04) | 8.1 |

Notes:

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

TWA = 24 Hour Time-Weighted Average

TWA calculation results are shown in two significant figures

Table 2
State of Hawaii, Department of Health, Clean Air Branch
Asbestos and Metals Sampling Results
Maui Wildfires, Lahaina
June 20 through June 26, 2024

| Analyte | | Asbestos | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead | Manganese | Molybdenum | Nickel | Selenium | Thallium | Vanadium | Zinc |
|-----------------------------|-------------------------------------|--------------------|-----------|----------|---------|-----------|-----------|----------|----------|--------|----------|-----------|------------|---------|----------|-------------|----------|------|
| Units* | | s/cc | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | |
| Site Screening Action Level | | 0.003 ¹ | 0.7 | 0.05 | 1.2 | 0.05 | 0.02 | 12 | 0.01 | 240 | 1.5 | 0.12 | 4.8 | 0.02 | 48 | 24 | 0.24 | 1200 |
| 6/20/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.000137 | 0.00329 | 0.00922 | 0.0000362 | ND | 0.00695 | 0.00127 | 0.149 | 0.00130 | 0.0322 | 0.00646 | 0.00383 | 0.000251 | 0.00000263 | 0.00388 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.000117 | 0.000507 | 0.00510 | 0.0000168 | ND | 0.00282 | 0.000539 | 0.0535 | 0.00106 | 0.0161 | 0.00219 | 0.00193 | 0.000203 | 0.00000209 | 0.00184 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.000102 | 0.000735 | 0.0104 | 0.000160 | ND | 0.00956 | 0.00228 | 0.0726 | 0.00111 | 0.0507 | 0.00293 | 0.00541 | 0.000407 | 0.00000348 | 0.00537 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0024 | 0.000112 | 0.000587 | 0.00599 | 0.0000192 | ND | 0.00340 | 0.000619 | 0.0472 | 0.00217 | 0.0205 | 0.00136 | 0.00199 | 0.000213 | 0.00000202 | 0.00180 | ND |
| 6/21/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.000237 | 0.0134 | 0.0183 | 0.0000547 | 0.0000787 | 0.0115 | 0.00195 | 0.156 | 0.00247 | 0.0544 | 0.00539 | 0.0052 | 0.000294 | 0.00000273 | 0.00563 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.000191 | 0.00121 | 0.0152 | 0.0000648 | 0.0000808 | 0.00629 | 0.00160 | 0.0718 | 0.00443 | 0.0627 | 0.00222 | 0.00391 | 0.000377 | 0.00000415 | 0.00564 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.000100 | 0.000811 | 0.00768 | 0.0000819 | ND | 0.00596 | 0.00129 | 0.0736 | 0.00236 | 0.0309 | 0.00315 | 0.00330 | 0.000261 | 0.00000218 | 0.00316 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0024 | 0.000273 | 0.000819 | 0.00644 | 0.0000214 | ND | 0.00400 | 0.000700 | 0.0365 | 0.00203 | 0.0217 | 0.00147 | 0.00220 | 0.000189 | 0.00000147 | 0.00187 | ND |
| 6/22/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.000296 | 0.00881 | 0.0126 | 0.0000314 | 0.000100 | 0.00842 | 0.00121 | 0.129 | 0.00119 | 0.0321 | 0.00468 | 0.00378 | 0.000179 | 0.00000163 | 0.00359 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.000102 | 0.00117 | 0.0145 | 0.0000645 | 0.000177 | 0.0114 | 0.00290 | 0.0514 | 0.00211 | 0.0695 | 0.00169 | 0.00806 | 0.000322 | 0.00000278 | 0.00828 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.0000507 | 0.000400 | 0.00362 | 0.0000229 | ND | 0.00295 | 0.000447 | 0.0668 | 0.000533 | 0.0122 | 0.00271 | 0.00146 | 0.000120 | 0.00000103 | 0.00124 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0024 | 0.000115 | 0.000719 | 0.00636 | 0.0000269 | ND | 0.00455 | 0.000884 | 0.0460 | 0.00202 | 0.0267 | 0.00119 | 0.00256 | 0.000178 | 0.00000139 | 0.00233 | ND |
| 6/23/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.000615 | 0.00148 | 0.0110 | 0.0000229 | 0.0000633 | 0.00781 | 0.00114 | 0.105 | 0.000711 | 0.0277 | 0.00471 | 0.00390 | 0.000191 | 0.00000168 | 0.00331 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.000159 | 0.00107 | 0.00928 | 0.0000404 | ND | 0.00634 | 0.00145 | 0.0780 | 0.00245 | 0.0384 | 0.00262 | 0.00434 | 0.000253 | 0.00000215 | 0.00418 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.0000544 | 0.000418 | 0.00252 | 0.0000974 | ND | 0.00236 | 0.000268 | 0.0679 | 0.000458 | 0.00631 | 0.00277 | 0.00119 | 0.000127 | 0.000000846 | 0.000699 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0024 | 0.0000865 | 0.000352 | 0.00353 | 0.0000122 | ND | 0.00253 | 0.000395 | 0.0275 | 0.000652 | 0.0122 | 0.00148 | 0.00130 | 0.000159 | 0.00000110 | 0.00103 | ND |
| 6/24/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.000257 | 0.00731 | 0.0122 | 0.0000398 | ND | 0.00823 | 0.00168 | 0.124 | 0.000769 | 0.0467 | 0.00400 | 0.00373 | 0.000266 | 0.00000222 | 0.00474 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.000157 | 0.000878 | 0.00890 | 0.0000388 | 0.0000908 | 0.00648 | 0.00118 | 0.0886 | 0.00226 | 0.0344 | 0.00217 | 0.00388 | 0.000241 | 0.00000176 | 0.00383 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.0000573 | 0.000320 | 0.00362 | 0.0000448 | ND | 0.00339 | 0.000604 | 0.0748 | 0.000460 | 0.0133 | 0.00300 | 0.00181 | 0.000176 | 0.000000846 | 0.00162 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0024 | 0.000120 | 0.000705 | 0.00535 | 0.0000229 | 0.000287 | 0.00409 | 0.000784 | 0.0333 | 0.00132 | 0.0232 | 0.00143 | 0.00224 | 0.000169 | 0.00000140 | 0.00196 | ND |
| 6/25/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.000335 | 0.00879 | 0.0162 | 0.0000433 | 0.000123 | 0.00937 | 0.00171 | 0.143 | 0.000807 | 0.0487 | 0.00470 | 0.00431 | 0.000276 | 0.00000237 | 0.00485 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.000177 | 0.00106 | 0.0103 | 0.0000390 | ND | 0.00691 | 0.00149 | 0.0897 | 0.00272 | 0.0384 | 0.00250 | 0.00497 | 0.000246 | 0.000000237 | 0.00445 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.0000457 | 0.000272 | 0.00298 | 0.0000241 | ND | 0.00265 | 0.000420 | 0.0874 | 0.000406 | 0.00960 | 0.00315 | 0.00142 | 0.000139 | 0.000000788 | 0.00104 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0024 | 0.0000879 | 0.000462 | 0.00469 | 0.0000137 | ND | 0.00308 | 0.000523 | 0.0377 | 0.00108 | 0.0168 | 0.00156 | 0.00173 | 0.000162 | 0.00000104 | 0.00138 | ND |
| 6/26/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.0000859 | 0.00157 | 0.0125 | 0.0000464 | ND | 0.00686 | 0.00173 | 0.138 | 0.00122 | 0.0499 | 0.00494 | 0.00395 | 0.000299 | 0.00000245 | 0.00476 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.000132 | 0.000618 | 0.00503 | 0.0000146 | ND | 0.00250 | 0.000475 | 0.0963 | 0.000949 | 0.0141 | 0.00318 | 0.00165 | 0.000199 | 0.000000970 | 0.00156 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.0000837 | 0.000354 | 0.00425 | 0.0000423 | ND | 0.00310 | 0.000624 | 0.0896 | 0.000664 | 0.0161 | 0.00276 | 0.00191 | 0.000205 | 0.000000996 | 0.00178 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0024 | 0.000151 | 0.000865 | 0.00690 | 0.0000263 | ND | 0.00409 | 0.000856 | 0.0445 | 0.00184 | 0.0289 | 0.00147 | 0.00243 | 0.000230 | 0.00000147 | 0.00235 | ND |

95% Upper Confidence Limit² NA 0.000200 0.00306 0.0105 0.0000490 0.000193 0.00683 0.00142 0.0981 0.00193 0.0396 0.00349 0.00383 0.000250 0.00000220 0.00411 NA

Notes:

¹ Asbestos result determined by transmission electron microscopy (TEM) in accordance with ISO Method 10312. PCMe results are presented.

² 95% UCL determined through 'best fit' lognormal or normal parametric statistics via W test

s/cc = structures per cubic centimeter

µg/m³ = micrograms per cubic meter

NA = Not Applicable

ND = Not detected at or above the laboratory reporting limit

* Laboratory data provided in nanograms per cubic meter, however data presented has been converted to micrograms per cubic meter so data was comparable to the Site Screening Action Levels presented in the CAMSP

Table 3
State of Hawaii, Department of Health, Clean Air Branch
Meteorological Data
Maui Wildfires, Lahaina
June 20 through June 26, 2024

| Date | Station ID | Weather Station Name | Wind Speed (mph) | Wind Direction (angle) | Temperature (°F) | Rel Humidity (%) | Baro Pressure (mBar) |
|-----------|------------|-----------------------------|------------------|------------------------|------------------|------------------|----------------------|
| 6/20/2024 | AM-01 | Leialii Hawaiian Homelands | 1.4 | ESE | 81 | 58 | 760.9 |
| 6/20/2024 | AM-02 | WW Pump Station #4 | 1.3 | SSE | 80 | 62 | 762.9 |
| 6/20/2024 | AM-03 | Lahaina Intermediate School | 1.2 | ESE | 79 | 60 | 753.6 |
| 6/20/2024 | AM-04 | Lahaina Boys & Girls Club | 1.3 | SSW | 79 | 62 | 762.4 |
| 6/21/2024 | AM-01 | Leialii Hawaiian Homelands | 1.3 | ESE | 82 | 57 | 760.8 |
| 6/21/2024 | AM-02 | WW Pump Station #4 | 1.3 | SSE | 80 | 64 | 762.8 |
| 6/21/2024 | AM-03 | Lahaina Intermediate School | 1.3 | SE | 79 | 60 | 753.6 |
| 6/21/2024 | AM-04 | Lahaina Boys & Girls Club | 1.2 | SSW | 79 | 64 | 762.4 |
| 6/22/2024 | AM-01 | Leialii Hawaiian Homelands | 2.4 | E | 80 | 62 | 760.5 |
| 6/22/2024 | AM-02 | WW Pump Station #4 | 1.6 | ESE | 81 | 62 | 762.4 |
| 6/22/2024 | AM-03 | Lahaina Intermediate School | 1.7 | E | 80 | 61 | 753.2 |
| 6/22/2024 | AM-04 | Lahaina Boys & Girls Club | 1.0 | S | 80 | 63 | 762.0 |
| 6/23/2024 | AM-01 | Leialii Hawaiian Homelands | 1.9 | ESE | 81 | 57 | 761.1 |
| 6/23/2024 | AM-02 | WW Pump Station #4 | 1.6 | SE | 80 | 61 | 763.0 |
| 6/23/2024 | AM-03 | Lahaina Intermediate School | 1.5 | E | 80 | 58 | 753.8 |
| 6/23/2024 | AM-04 | Lahaina Boys & Girls Club | 1.1 | S | 79 | 62 | 762.6 |
| 6/24/2024 | AM-01 | Leialii Hawaiian Homelands | 1.9 | SE | 81 | 57 | 761.2 |
| 6/24/2024 | AM-02 | WW Pump Station #4 | 1.5 | SE | 81 | 62 | 762.8 |
| 6/24/2024 | AM-03 | Lahaina Intermediate School | 1.3 | ESE | 79 | 59 | 753.9 |
| 6/24/2024 | AM-04 | Lahaina Boys & Girls Club | 1.1 | SSW | 78 | 62 | 762.7 |
| 6/25/2024 | AM-01 | Leialii Hawaiian Homelands | 1.1 | ESE | 82 | 54 | 760.9 |
| 6/25/2024 | AM-02 | WW Pump Station #4 | 1.3 | SSE | 80 | 62 | 762.9 |
| 6/25/2024 | AM-03 | Lahaina Intermediate School | 1.2 | ESE | 79 | 59 | 753.7 |
| 6/25/2024 | AM-04 | Lahaina Boys & Girls Club | 1.1 | S | 78 | 63 | 762.5 |
| 6/26/2024 | AM-01 | Leialii Hawaiian Homelands | 1.0 | SE | 82 | 59 | 761.6 |
| 6/26/2024 | AM-02 | WW Pump Station #4 | 1.2 | SSE | 80 | 67 | 763.6 |
| 6/26/2024 | AM-03 | Lahaina Intermediate School | 1.1 | SE | 79 | 65 | 754.4 |
| 6/26/2024 | AM-04 | Lahaina Boys & Girls Club | 1.0 | SSW | 79 | 66 | 763.2 |

Notes:

°F - Fahrenheit

mBar - millibar

mph - miles per hour

Appendix 1



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 042413056

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM01-062024-AB

Sample Description: DL248495

EMSL Sample Number: 042413056-0001
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7159.8
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 5
Analyst: P. Harrison

Estimated Particulate Loading on Filter %: 5
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



EMSL Analytical, Inc.

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<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| B2 | A5 | None Detected | | | | | | | | | |
| B2 | C8 | None Detected | | | | | | | | | |
| B2 | G8 | None Detected | | | | | | | | | |
| B3 | B9 | None Detected | | | | | | | | | |
| B3 | F4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042413056

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM02-062024-AB

Sample Description: DL248424

EMSL Sample Number: 042413056-0002
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7168.5
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 5
Analyst: P. Harrison

Estimated Particulate Loading on Filter %: 3
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment


Approved Signatory

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| B5 | B3 | None Detected | | | | | | | | | |
| B5 | D6 | None Detected | | | | | | | | | |
| B5 | G5 | None Detected | | | | | | | | | |
| B6 | F3 | None Detected | | | | | | | | | |
| B6 | I5 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413056 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

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Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM03-062024-AB | Sample Description: | DL248412 |
|--|--------------------|--|-------------|
| EMSL Sample Number: | 042413056-0003 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7310.6 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 8
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|------------------------------|----------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042413056-0003 | | | | | | | Customer Sample: MFL-AM03-062024-AB | | | | |
|--------------------------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------------------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| C2 | J6 | None Detected | | | | | | | | | |
| C2 | G8 | None Detected | | | | | | | | | |
| C2 | C4 | None Detected | | | | | | | | | |
| C3 | I5 | None Detected | | | | | | | | | |
| C3 | C5 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM04-062024-AB

Sample Description: DL248406

EMSL Sample Number: 042413056-0004
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7268.7
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 5
Analyst: P. Harrison

Estimated Particulate Loading on Filter %: 3
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| C5 | J2 | None Detected | | | | | | | | | |
| C5 | H4 | None Detected | | | | | | | | | |
| C5 | C2 | None Detected | | | | | | | | | |
| C6 | I3 | None Detected | | | | | | | | | |
| C6 | D6 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-FB01-062024-AB

Sample Description: DL248525

EMSL Sample Number: 042413056-0005
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 0.0
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 10
Analyst: P. Harrison

Estimated Particulate Loading on Filter %: 1
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): N/A

Limit of Detection (Structures/cc): N/A

| TOTAL STRUCTURES (All Sizes) | | | | | |
|-------------------------------------|---------------------|----------|--------------------------------|--------------------------------|---------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) |
| | Primary | Total | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.00 | |
| Total Amphibole | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures | - | 0 | 0 | < 23.00 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | |
|--|-----------------|----------|--------------------------------|--------------------------------|---------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) |
| | Primary | Total | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.00 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.00 | |

Comment

Approved Signatory

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| D2 | A5 | None Detected | | | | | | | | | |
| D2 | C7 | None Detected | | | | | | | | | |
| D2 | E3 | None Detected | | | | | | | | | |
| D2 | G6 | None Detected | | | | | | | | | |
| D2 | I7 | None Detected | | | | | | | | | |
| D3 | J10 | None Detected | | | | | | | | | |
| D3 | H10 | None Detected | | | | | | | | | |
| D3 | F8 | None Detected | | | | | | | | | |
| D3 | D6 | None Detected | | | | | | | | | |
| D3 | B4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

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Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM01-062124-AB

Sample Description: DL248383

EMSL Sample Number: 042413056-0006
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7201.6
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 5
Analyst: P. Harrison

Estimated Particulate Loading on Filter %: 3
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| D5 | J5 | None Detected | | | | | | | | | |
| D5 | G1 | None Detected | | | | | | | | | |
| D5 | D6 | None Detected | | | | | | | | | |
| D6 | G5 | None Detected | | | | | | | | | |
| D6 | B7 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042413056

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM02-062124-AB

Sample Description: DL248487

EMSL Sample Number: 042413056-0007
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 5880.9
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 6
Analyst: P. Harrison

Estimated Particulate Loading on Filter %: 8
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 38.33 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042413056-0007 | | | | | | | Customer Sample: MFL-AM02-062124-AB | | | | |
|--------------------------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------------------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| E1 | H2 | None Detected | | | | | | | | | |
| E1 | F3 | None Detected | | | | | | | | | |
| E1 | C7 | None Detected | | | | | | | | | |
| E2 | J7 | None Detected | | | | | | | | | |
| E2 | H7 | None Detected | | | | | | | | | |
| E2 | A8 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

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Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM03-062124-AB

Sample Description: DL248433

EMSL Sample Number: 042413056-0008
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7236.2
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 5
Analyst: P. Harrison

Estimated Particulate Loading on Filter %: 5
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042413056-0008 | | | | | | | Customer Sample: MFL-AM03-062124-AB | | | | |
|--------------------------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------------------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| E5 | J10 | None Detected | | | | | | | | | |
| E5 | G8 | None Detected | | | | | | | | | |
| E5 | C8 | None Detected | | | | | | | | | |
| E6 | B5 | None Detected | | | | | | | | | |
| E6 | F8 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413056 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber

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Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM04-062124-AB | Sample Description: | DL248393 |
|--|--------------------|--|-------------|
| EMSL Sample Number: | 042413056-0009 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7071.4 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 5
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042413056-0009 | | | | | | | Customer Sample: MFL-AM04-062124-AB | | | | |
|--------------------------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------------------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| F2 | J5 | None Detected | | | | | | | | | |
| F2 | G1 | None Detected | | | | | | | | | |
| F2 | D3 | None Detected | | | | | | | | | |
| F3 | H5 | None Detected | | | | | | | | | |
| F3 | C6 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042413056

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

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1560 Broadway, Suite 1400
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Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-FB01-062124-AB

Sample Description: DL248422

EMSL Sample Number: 042413056-0010
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 0.0
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 10
Analyst: P. Harrison

Estimated Particulate Loading on Filter %: 1
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): N/A

Limit of Detection (Structures/cc): N/A

| TOTAL STRUCTURES (All Sizes) | | | | | |
|-------------------------------------|---------------------|----------|---------------------------------|--------------------------------|---------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) |
| | Primary | Total | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.00 | |
| Total Amphibole | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures | - | 0 | 0 | < 23.00 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | |
|--|-----------------|----------|---------------------------------|--------------------------------|---------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) |
| | Primary | Total | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.00 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.00 | |

Comment

Approved Signatory

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EMSL Analytical, Inc.

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Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| F5 | A6 | None Detected | | | | | | | | | |
| F5 | C10 | None Detected | | | | | | | | | |
| F5 | E8 | None Detected | | | | | | | | | |
| F5 | G3 | None Detected | | | | | | | | | |
| F5 | I6 | None Detected | | | | | | | | | |
| F6 | A5 | None Detected | | | | | | | | | |
| F6 | C3 | None Detected | | | | | | | | | |
| F6 | E9 | None Detected | | | | | | | | | |
| F6 | G9 | None Detected | | | | | | | | | |
| F6 | I3 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042413056

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/05/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM01-062224-AB

Sample Description: DL248390

EMSL Sample Number: 042413056-0011
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7124.6
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 5
Analyst: G.Barry

Estimated Particulate Loading on Filter %: 4
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| G1 | A7 | None Detected | | | | | | | | | |
| G1 | E5 | None Detected | | | | | | | | | |
| G1 | I3 | None Detected | | | | | | | | | |
| G2 | C4 | None Detected | | | | | | | | | |
| G2 | G8 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042413056

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/05/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM02-062224-AB

Sample Description: DL248420

EMSL Sample Number: 042413056-0012
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7206.0
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 5
Analyst: G.Barry

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| G5 | I4 | None Detected | | | | | | | | | |
| G5 | F7 | None Detected | | | | | | | | | |
| G5 | B9 | None Detected | | | | | | | | | |
| G6 | H8 | None Detected | | | | | | | | | |
| G6 | G4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413056 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber
Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 06/26/2024 09:40 AM
Analysis Date: 07/05/2024
Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM03-062224-AB | Sample Description: | DL248421 |
|--|--------------------|--|----------|
| EMSL Sample Number: | 042413056-0013 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7111.9 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | G.Barry |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| H1 | A6 | None Detected | | | | | | | | | |
| H1 | E9 | None Detected | | | | | | | | | |
| H1 | J5 | None Detected | | | | | | | | | |
| H2 | G4 | None Detected | | | | | | | | | |
| H2 | D6 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042413056

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/05/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM04-062224-AB

Sample Description: DL248509

EMSL Sample Number: 042413056-0014
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7131.2
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 5
Analyst: G.Barry

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| H5 | J6 | None Detected | | | | | | | | | |
| H5 | F7 | None Detected | | | | | | | | | |
| H5 | B3 | None Detected | | | | | | | | | |
| H6 | D9 | None Detected | | | | | | | | | |
| H6 | H7 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042413056

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

Attn: Chelsea Saber

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Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/05/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-FB01-062224-AB

Sample Description: DL248409

EMSL Sample Number: 042413056-0015
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 0.0
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 10
Analyst: G.Barry

Estimated Particulate Loading on Filter %: 3
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): N/A

Limit of Detection (Structures/cc): N/A

| TOTAL STRUCTURES (All Sizes) | | | | | |
|-------------------------------------|---------------------|----------|---------------------------------|--------------------------------|---------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) |
| | Primary | Total | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.00 | |
| Total Amphibole | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures | - | 0 | 0 | < 23.00 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | |
|--|-----------------|----------|---------------------------------|--------------------------------|---------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) |
| | Primary | Total | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.00 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.00 | |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| I2 | J9 | None Detected | | | | | | | | | |
| I2 | H5 | None Detected | | | | | | | | | |
| I2 | F3 | None Detected | | | | | | | | | |
| I2 | C6 | None Detected | | | | | | | | | |
| I3 | D3 | None Detected | | | | | | | | | |
| I3 | E7 | None Detected | | | | | | | | | |
| I3 | G6 | None Detected | | | | | | | | | |
| I4 | A4 | None Detected | | | | | | | | | |
| I4 | D8 | None Detected | | | | | | | | | |
| I4 | I5 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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|--------------|-----------|
| EMSL Order: | 042413056 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
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Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/05/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM01-062324-AB | Sample Description: | DL248391 |
|--|--------------------|--|----------|
| EMSL Sample Number: | 042413056-0016 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7135.3 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | G.Barry |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 5
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|------------------------------|----------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| I7 | J5 | None Detected | | | | | | | | | |
| I7 | G7 | None Detected | | | | | | | | | |
| I7 | C4 | None Detected | | | | | | | | | |
| I8 | H3 | None Detected | | | | | | | | | |
| I8 | D7 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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Customer PO: 1207085

Project ID: N/A

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Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/05/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM02-062324-AB

Sample Description: DL248399

EMSL Sample Number: 042413056-0017
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7120.8
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 5
Analyst: G.Barry

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| J1 | I9 | None Detected | | | | | | | | | |
| J1 | H4 | None Detected | | | | | | | | | |
| J1 | D6 | None Detected | | | | | | | | | |
| J2 | J3 | None Detected | | | | | | | | | |
| J2 | E4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

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Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/05/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM03-062324-AB | Sample Description: | DL248427 |
|--|--------------------|--|----------|
| EMSL Sample Number: | 042413056-0018 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7259.8 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | G.Barry |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: N/A
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|------------------------------|----------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

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EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| J5 | H8 | None Detected | | | | | | | | | |
| J5 | F8 | None Detected | | | | | | | | | |
| J5 | A9 | None Detected | | | | | | | | | |
| J6 | J5 | None Detected | | | | | | | | | |
| J6 | D3 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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Customer PO: 1207085

Project ID: N/A

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Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/05/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM04-062324-AB

Sample Description: DL248407

EMSL Sample Number: 042413056-0019
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7124.7
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 5
Analyst: G.Barry

Estimated Particulate Loading on Filter %: 5
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| K1 | A8 | None Detected | | | | | | | | | |
| K1 | E5 | None Detected | | | | | | | | | |
| K1 | I7 | None Detected | | | | | | | | | |
| K2 | I5 | None Detected | | | | | | | | | |
| K2 | C5 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 042413056

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/05/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-FB01-062324-AB

Sample Description: DL248402

EMSL Sample Number: 042413056-0020
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 0.0
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 10
Analyst: G.Barry

Estimated Particulate Loading on Filter %: 1
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): N/A

Limit of Detection (Structures/cc): N/A

| TOTAL STRUCTURES (All Sizes) | | | | | |
|-------------------------------------|---------------------|----------|---------------------------------|--------------------------------|---------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) |
| | Primary | Total | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.00 | |
| Total Amphibole | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures | - | 0 | 0 | < 23.00 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | |
|--|-----------------|----------|---------------------------------|--------------------------------|---------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) |
| | Primary | Total | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.00 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.00 | |

Comment

Approved Signatory

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<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| K5 | J8 | None Detected | | | | | | | | | |
| K5 | H3 | None Detected | | | | | | | | | |
| K5 | E5 | None Detected | | | | | | | | | |
| K5 | A6 | None Detected | | | | | | | | | |
| K6 | I2 | None Detected | | | | | | | | | |
| K6 | F7 | None Detected | | | | | | | | | |
| K6 | B5 | None Detected | | | | | | | | | |
| K7 | B4 | None Detected | | | | | | | | | |
| K7 | C8 | None Detected | | | | | | | | | |
| K7 | G6 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042413056

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/26/2024 09:40 AM

Analysis Date: 07/02/2024

Report Date: 07/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | Lab Blank | Sample Description: Lab Blank |
|--|----------------|--|
| EMSL Sample Number: | 042413056-0021 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |

Estimated Particulate Loading on Filter %: 1
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): N/A

Limit of Detection (Structures/cc): N/A

| TOTAL STRUCTURES (All Sizes) | | | | | |
|----------------------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) |
| | Primary | Total | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.00 | |
| Total Amphibole | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures | - | 0 | 0 | < 23.00 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | |
|---|-----------------|----------|------------------------------|----------------------|---------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) |
| | Primary | Total | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.00 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.00 | |

Comment

Approved Signatory

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Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413056

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042413056-0021 | | | | | | | Customer Sample: Lab Blank | | | | |
|--------------------------------|--------------|----------------|------------------|-------|------------------------------|-------|----------------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| A1 | A3 | None Detected | | | | | | | | | |
| A1 | C5 | None Detected | | | | | | | | | |
| A1 | E1 | None Detected | | | | | | | | | |
| A1 | G4 | None Detected | | | | | | | | | |
| A1 | I4 | None Detected | | | | | | | | | |
| A2 | I9 | None Detected | | | | | | | | | |
| A2 | G7 | None Detected | | | | | | | | | |
| A2 | E8 | None Detected | | | | | | | | | |
| A2 | C5 | None Detected | | | | | | | | | |
| A2 | A3 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

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

#042413056

RECEIVED

EMSL

PHONE: (800) 220-3675
EMAIL: CinnAslab@EMSL.com

| | | |
|--|--|-------------------|
| Customer Information | Customer ID: | Billing ID: |
| | Company Name: Tetra Tech | Company Name: |
| | Contact Name: Chelsea Saber | Billing Contact: |
| | Street Address: 1560 Broadway Ste 1400 | Street Address: |
| | City, State, Zip: Denver, CO 80202 | City, State, Zip: |
| | Phone: 703-489-2674 | Country: USA |
| Email(s) for Report: chelsea.saber@tetratech.com | Email(s) for Invoice: | |

| | | |
|---|--------------------------------------|---|
| Project Information | | Purchase Order: 1207085 |
| Project Name/No: Maui Fires - Lahaina | US State where samples collected: HI | State of Connecticut (CT) must select project location: <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable) |
| EMSL LIMS Project ID: (If applicable, EMSL will provide) | | |
| Sampled By Name: E. Karyse Saber | Sampled By Signature: 7.28.24 | No. of Samples in Shipment: 20 Pm |

| | | | | | | | | | |
|---------------------------------|---|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|---------------------------------|
| <input type="checkbox"/> 3 Hour | <input type="checkbox"/> 4-4.5 Hour AHERA ONLY | <input type="checkbox"/> 6 Hour | <input type="checkbox"/> 24 Hour | <input type="checkbox"/> 32 Hour | <input type="checkbox"/> 48 Hour | <input type="checkbox"/> 72 Hour | <input type="checkbox"/> 96 Hour | <input checked="" type="checkbox"/> 1 Week | <input type="checkbox"/> 2 Week |
|---------------------------------|---|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|---------------------------------|

TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.

| | | | | | | | | | |
|--|---|---|--|--|--|--------------------|--|--|--|
| Turn-Around-Time (TAT) | | Test Selection | | | | | | | |
| PCM Air | | TEM - Air | | | | TEM - Settled Dust | | | |
| <input type="checkbox"/> NIOSH 7400 | <input type="checkbox"/> NIOSH 7400 w/ 8hr. TWA | <input type="checkbox"/> AHERA 40 CFR, Part 763 | <input type="checkbox"/> NIOSH 7402 | <input type="checkbox"/> Microvac - ASTM D5755 | | | | | |
| <input type="checkbox"/> PLM EPA 600/R-93/116 (<1%) | <input type="checkbox"/> PLM EPA NOB (<1%) | <input type="checkbox"/> EPA Level II | <input type="checkbox"/> ISO 10312* | <input type="checkbox"/> Wipe - ASTM D6480 | | | | | |
| <input type="checkbox"/> POINT COUNT <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) | <input type="checkbox"/> POINT COUNT w/ GRAVIMETRIC <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) | <input type="checkbox"/> TEM EPA NOB | <input type="checkbox"/> Qualitative via Filtration Prep | | | | | | |
| <input type="checkbox"/> NIOSH 9002 (<1%) | <input type="checkbox"/> NYS 198.1 (Friable - NY) | <input type="checkbox"/> NYS NOB 198.4 (Non-Friable-NY) | <input type="checkbox"/> Qualitative via Drop Mount Prep | | | | | | |
| <input type="checkbox"/> NYS 198.6 NOB (Non-Friable - NY) | <input type="checkbox"/> NYS 198.8 (Vermiculite SM-V) | <input type="checkbox"/> TEM EPA 600/R-93/116 w Milling Prep (0.1%) | | | | | | | |
| TEM - Bulk | | | | | | | | Soil - Rock - Vermiculite (reporting limit)* | |
| <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) | <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.1%) | <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) | <input type="checkbox"/> TEM Qualitative via Filtration Prep | | | | | | |
| <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.1%) | <input type="checkbox"/> TEM Qualitative via Drop Mount Prep | | | | | | | | |

*Please call with your project-specific requirements.

| <input type="checkbox"/> Positive Stop - Clearly Identified Homogeneous Areas (HA) | | Filter Pore Size (Air Samples) | <input type="checkbox"/> 0.8um | <input checked="" type="checkbox"/> 0.45um |
|--|-------------------------------|----------------------------------|---|--|
| Sample Number | Sample Location / Description | Volume, Area or Homogeneous Area | Date / Time Sampled (Air Monitoring Only) | |
| MFL-AM01-062024-AB | DL248495 | 7,159.824 | 06/20/24 | 1101 |
| MFL-AM02-062024-AB | DL248424 | 7,168.464 | 06/20/24 | 1115 |
| MFL-AM03-062024-AB | DL248412 | 7,310.594 | 06/20/24 | 1310 |
| MFL-AM04-062024-AB | DL248406 | 7,268.688 | 06/20/24 | 1332 |
| MFL-FB01-062024-AB | DL248525 | 0 | 06/20/24 | 1200 |
| MFL-AM01-062124-AB | DL248383 | 7,201.613 | 06/21/24 | 1104 |
| * MFL-AM02-062124-AB | DL248487 | 5,880.919 | 06/21/24 | 1122 |
| MFL-AM03-062124-AB | DL248433 | 7,236.246 | 06/21/24 | 1302 |

* Note: MFL-AM02-062124-AB has a lower volume due to equipment issues & a shorter sample run time. Contact Chelsea Saber before running analysis.

All samples received acceptable for analysis.

| | |
|---------------------------|--------------------------------|
| Method of Shipment: FedEx | Sample Condition Upon Receipt: |
| Relinquished by: 7.28.24 | Date/Time: 06/24/24 1000 |
| Received by: KM FX | Date/Time: 6/24/24 940 |
| Relinquished by: | Date/Time: Received by: |

Controlled Document - COC-05 Asbestos R16 10/26/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

| | |
|--------------|-----------|
| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 07/01/2024 10:00 AM

Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM01-062424-AB | Sample Description: | DL248396 |
|--|--------------------|--|-----------|
| EMSL Sample Number: | 042413456-0001 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7163.3 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | S. Richey |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 7
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008 **Limit of Detection (Structures/cc): 0.0024**

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| A5 | C5 | None Detected | | | | | | | | | |
| A5 | D4 | None Detected | | | | | | | | | |
| A6 | J7 | None Detected | | | | | | | | | |
| A6 | I6 | None Detected | | | | | | | | | |
| A7 | B3 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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<http://www.EMSL.com> / cinnaslab@EMSL.com

| | |
|--------------|-----------|
| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 07/01/2024 10:00 AM

Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM02-062424-AB | Sample Description: | DL248395 |
|--|--------------------|--|-----------|
| EMSL Sample Number: | 042413456-0002 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7267.4 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | S. Richey |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 7
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|------------------------------|----------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| B1 | J7 | None Detected | | | | | | | | | |
| B1 | H6 | None Detected | | | | | | | | | |
| B2 | G3 | None Detected | | | | | | | | | |
| B2 | F4 | None Detected | | | | | | | | | |
| B3 | A8 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 07/01/2024 10:00 AM

Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM03-062424-AB | Sample Description: | DL248414 |
|--|--------------------|--|-----------|
| EMSL Sample Number: | 042413456-0003 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7279.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | S. Richey |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 7
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| B5 | J6 | None Detected | | | | | | | | | |
| B5 | I7 | None Detected | | | | | | | | | |
| B6 | C3 | None Detected | | | | | | | | | |
| B6 | D4 | None Detected | | | | | | | | | |
| B7 | F10 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

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1560 Broadway, Suite 1400
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Phone: (703) 489-2674
Fax: N/A
Received Date: 07/01/2024 10:00 AM
Analysis Date: 07/08/2024
Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM04-062424-AB | Sample Description: | DL248511 |
|--|--------------------|--|-----------|
| EMSL Sample Number: | 042413456-0004 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7183.8 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | S. Richey |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 7
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| C1 | J9 | None Detected | | | | | | | | | |
| C1 | I8 | None Detected | | | | | | | | | |
| C2 | H5 | None Detected | | | | | | | | | |
| C2 | G4 | None Detected | | | | | | | | | |
| C3 | B6 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042413456

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

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1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 07/01/2024 10:00 AM

Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-FB01-062424-AB

Sample Description: DL248387

EMSL Sample Number: 042413456-0005
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 0.0
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0130
Grid Openings Analyzed: 10
Analyst: S. Richey

Estimated Particulate Loading on Filter %: 1
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): N/A

Limit of Detection (Structures/cc): N/A

| TOTAL STRUCTURES (All Sizes) | | | | | |
|-------------------------------------|---------------------|----------|--------------------------------|--------------------------------|---------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) |
| | Primary | Total | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.00 | |
| Total Amphibole | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures | - | 0 | 0 | < 23.00 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | |
|--|-----------------|----------|--------------------------------|--------------------------------|---------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) |
| | Primary | Total | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.00 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.00 | |

Comment

Approved Signatory

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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| C5 | H7 | None Detected | | | | | | | | | |
| C5 | G6 | None Detected | | | | | | | | | |
| C6 | A3 | None Detected | | | | | | | | | |
| C6 | B4 | None Detected | | | | | | | | | |
| C7 | D2 | None Detected | | | | | | | | | |
| C7 | D4 | None Detected | | | | | | | | | |
| C8 | J10 | None Detected | | | | | | | | | |
| C8 | J8 | None Detected | | | | | | | | | |
| C8 | I9 | None Detected | | | | | | | | | |
| C8 | I7 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber
Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 07/01/2024 10:00 AM
Analysis Date: 07/08/2024
Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM01-062524-AB | Sample Description: | DL248386 |
|--|--------------------|--|-----------|
| EMSL Sample Number: | 042413456-0006 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7269.2 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | S. Richey |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 7
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| D1 | I7 | None Detected | | | | | | | | | |
| D1 | H6 | None Detected | | | | | | | | | |
| D2 | C8 | None Detected | | | | | | | | | |
| D2 | B9 | None Detected | | | | | | | | | |
| D3 | E5 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber
Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 07/01/2024 10:00 AM
Analysis Date: 07/08/2024
Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM02-062524-AB | Sample Description: | DL248380 |
|--|--------------------|--|-----------|
| EMSL Sample Number: | 042413456-0007 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7241.9 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | S. Richey |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 7
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.00 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| D5 | B8 | None Detected | | | | | | | | | |
| D5 | C9 | None Detected | | | | | | | | | |
| D6 | A10 | None Detected | | | | | | | | | |
| D6 | E9 | None Detected | | | | | | | | | |
| D7 | J4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042413456

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

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1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 07/01/2024 10:00 AM

Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM03-062524-AB

Sample Description: DL248499

EMSL Sample Number: 042413456-0008
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7214.7
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0129
Grid Openings Analyzed: 5
Analyst: A. Burke

Estimated Particulate Loading on Filter %: 5
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042413456-0008 | | | | | | | Customer Sample: MFL-AM03-062524-AB | | | | |
|--------------------------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------------------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| E1 | H6 | None Detected | | | | | | | | | |
| E1 | E5 | None Detected | | | | | | | | | |
| E1 | C7 | None Detected | | | | | | | | | |
| E2 | B4 | None Detected | | | | | | | | | |
| E2 | G3 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

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Received Date: 07/01/2024 10:00 AM

Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM04-062524-AB | Sample Description: | DL248480 |
|--|--------------------|--|----------|
| EMSL Sample Number: | 042413456-0009 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7283.4 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0129 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042413456-0009 | | | | | | | Customer Sample: MFL-AM04-062524-AB | | | | |
|--------------------------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------------------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| E5 | B5 | None Detected | | | | | | | | | |
| E5 | E3 | None Detected | | | | | | | | | |
| E6 | G8 | None Detected | | | | | | | | | |
| E6 | D7 | None Detected | | | | | | | | | |
| E6 | A6 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber
Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 07/01/2024 10:00 AM
Analysis Date: 07/08/2024
Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-FB01-062524-AB | Sample Description: | DL248497 |
|--|--------------------|--|----------|
| EMSL Sample Number: | 042413456-0010 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0129 |
| Chi ² Test for Random Distribution on Filter: | N/A | Grid Openings Analyzed: | 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 1
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): N/A

Limit of Detection (Structures/cc): N/A

| TOTAL STRUCTURES (All Sizes) | | | | | |
|-------------------------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) |
| | Primary | Total | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.18 | |
| Total Amphibole | ADX | 0 | 0 | < 23.18 | |
| Actinolite | ADX | 0 | 0 | < 23.18 | |
| Amosite | ADX | 0 | 0 | < 23.18 | |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | |
| Crocidolite | ADX | 0 | 0 | < 23.18 | |
| Tremolite | ADX | 0 | 0 | < 23.18 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.18 | |
| Other Minerals | - | 0 | 0 | < 23.18 | |
| Total All Structures | - | 0 | 0 | < 23.18 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | |
|--|-----------------|----------|------------------------------|----------------------|---------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) |
| | Primary | Total | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.18 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.18 | |
| Actinolite | ADX | 0 | 0 | < 23.18 | |
| Amosite | ADX | 0 | 0 | < 23.18 | |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | |
| Crocidolite | ADX | 0 | 0 | < 23.18 | |
| Tremolite | ADX | 0 | 0 | < 23.18 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.18 | |
| Other Minerals | - | 0 | 0 | < 23.18 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.18 | |

Comment

Approved Signatory

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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| F1 | I7 | None Detected | | | | | | | | | |
| F1 | G8 | None Detected | | | | | | | | | |
| F1 | F4 | None Detected | | | | | | | | | |
| F1 | D5 | None Detected | | | | | | | | | |
| F1 | B7 | None Detected | | | | | | | | | |
| F2 | C4 | None Detected | | | | | | | | | |
| F2 | E7 | None Detected | | | | | | | | | |
| F2 | F9 | None Detected | | | | | | | | | |
| F2 | I7 | None Detected | | | | | | | | | |
| F2 | I4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
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Phone: (703) 489-2674

Fax: N/A

Received Date: 07/01/2024 10:00 AM

Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM01-062624-AB | Sample Description: | DL248384 |
|--|--------------------|--|----------|
| EMSL Sample Number: | 042413456-0011 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7126.3 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0129 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 7
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| F5 | G7 | None Detected | | | | | | | | | |
| F5 | D9 | None Detected | | | | | | | | | |
| F5 | B6 | None Detected | | | | | | | | | |
| F6 | B5 | None Detected | | | | | | | | | |
| F6 | H6 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

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Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM02-062624-AB | Sample Description: | DL248381 |
|--|--------------------|--|----------|
| EMSL Sample Number: | 042413456-0012 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7168.2 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0129 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 7
Target Analytical Sensitivity (Structures/cc): 0.001

| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0024 | | | |
|---|---------------------|--|----------------------|---------------|---------------------------------|
| TOTAL STRUCTURES (All Sizes) | | | | | |
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.36 | < 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | |
|---|-----------------|-------|----------------------|---------------|---------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.36 | < 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0024 |

Comment

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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| G1 | C7 | None Detected | | | | | | | | | |
| G1 | D4 | None Detected | | | | | | | | | |
| G1 | I4 | None Detected | | | | | | | | | |
| G2 | J7 | None Detected | | | | | | | | | |
| G2 | H6 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Customer Sample Number:

MFL-AM03-062624-AB

Sample Description: DL248512

EMSL Sample Number: 042413456-0013
Magnification used for fiber counting: 20,000
Aspect ratio for fiber definition: 3:1
Minimum Length (μm): ≥ 0.5
Chi² Test for Random Distribution on Filter: N/A (N/A)
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX

Sample Matrix: Air
Volume (L): 7122.5
Area of original collection filter (mm^2): 385
Grid Opening Area (mm^2): 0.0129
Grid Openings Analyzed: 5
Analyst: A. Burke

Estimated Particulate Loading on Filter %: 3
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|-------------------------------------|---------------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Structures Detected | | Density (S/ mm^2) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile | CD | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|--|-----------------|-------|--------------------------------|-------------------------|---------------------------------|-------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/ mm^2) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | Lower | Upper | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042413456-0013 | | | | | | | Customer Sample: MFL-AM03-062624-AB | | | | |
|--------------------------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------------------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| G5 | I7 | None Detected | | | | | | | | | |
| G5 | F8 | None Detected | | | | | | | | | |
| G5 | B7 | None Detected | | | | | | | | | |
| G6 | B3 | None Detected | | | | | | | | | |
| G6 | G4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

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Received Date: 07/01/2024 10:00 AM

Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-AM04-062624-AB | Sample Description: | DL248516 |
|--|--------------------|--|----------|
| EMSL Sample Number: | 042413456-0014 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7171.2 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 9
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| TOTAL STRUCTURES (All Sizes) | | | | | | |
|----------------------------------|---------------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | |
| | Primary | Total | (S/mm ²) | (S/cc) | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | |
|---|-----------------|----------|----------------------|-------------------|---------------------------------|--------------------------------|
| Minimum ID Level | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory

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EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

**ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: | | | Customer Sample: | | | | | | | | |
|-----------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| H1 | B6 | None Detected | | | | | | | | | |
| H1 | D3 | None Detected | | | | | | | | | |
| H1 | H2 | None Detected | | | | | | | | | |
| H2 | C4 | None Detected | | | | | | | | | |
| H2 | H5 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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| | |
|--------------|-----------|
| EMSL Order: | 042413456 |
| Customer ID: | TTDC42 |
| Customer PO: | 1207085 |
| Project ID: | N/A |

Attn: Chelsea Saber
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Phone: (703) 489-2674
Fax: N/A
Received Date: 07/01/2024 10:00 AM
Analysis Date: 07/08/2024
Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | MFL-FB01-062624-AB | Sample Description: | DL248529 |
|--|--------------------|--|----------|
| EMSL Sample Number: | 042413456-0015 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0129 |
| Chi ² Test for Random Distribution on Filter: | N/A | Grid Openings Analyzed: | 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 1
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): N/A

Limit of Detection (Structures/cc): N/A

| TOTAL STRUCTURES (All Sizes) | | | | | |
|-------------------------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) |
| | Primary | Total | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.18 | |
| Total Amphibole | ADX | 0 | 0 | < 23.18 | |
| Actinolite | ADX | 0 | 0 | < 23.18 | |
| Amosite | ADX | 0 | 0 | < 23.18 | |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | |
| Crocidolite | ADX | 0 | 0 | < 23.18 | |
| Tremolite | ADX | 0 | 0 | < 23.18 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.18 | |
| Other Minerals | - | 0 | 0 | < 23.18 | |
| Total All Structures | - | 0 | 0 | < 23.18 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | |
|--|-----------------|----------|------------------------------|----------------------|---------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) |
| | Primary | Total | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.18 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.18 | |
| Actinolite | ADX | 0 | 0 | < 23.18 | |
| Amosite | ADX | 0 | 0 | < 23.18 | |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | |
| Crocidolite | ADX | 0 | 0 | < 23.18 | |
| Tremolite | ADX | 0 | 0 | < 23.18 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.18 | |
| Other Minerals | - | 0 | 0 | < 23.18 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.18 | |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042413456-0015 | | | | | | | Customer Sample: MFL-FB01-062624-AB | | | | |
|--------------------------------|--------------|----------------|------------------|-------|------------------------------|-------|-------------------------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| H5 | A5 | None Detected | | | | | | | | | |
| H5 | D5 | None Detected | | | | | | | | | |
| H5 | G3 | None Detected | | | | | | | | | |
| H5 | G1 | None Detected | | | | | | | | | |
| H5 | H6 | None Detected | | | | | | | | | |
| H6 | J5 | None Detected | | | | | | | | | |
| H6 | H8 | None Detected | | | | | | | | | |
| H6 | F4 | None Detected | | | | | | | | | |
| H6 | D7 | None Detected | | | | | | | | | |
| H6 | D9 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 042413456

Customer ID: TTDC42

Customer PO: 1207085

Project ID: N/A

Attn: Chelsea Saber

Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674

Fax: N/A

Received Date: 07/01/2024 10:00 AM

Analysis Date: 07/08/2024

Report Date: 07/08/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | Lab Blank | Sample Description: Lab Blank |
|--|----------------|--|
| EMSL Sample Number: | 042413456-0016 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): 385 |
| Minimum Length (μm): | ≥ 0.5 | Grid Opening Area (mm ²): 0.0130 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: S. Richey |
| Minimum Level of analysis (amphibole): | ADX | |

Estimated Particulate Loading on Filter %: 1
Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): N/A

Limit of Detection (Structures/cc): N/A

| TOTAL STRUCTURES (All Sizes) | | | | | |
|----------------------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|
| Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) |
| | Primary | Total | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.00 | |
| Total Amphibole | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures | - | 0 | 0 | < 23.00 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | |
|---|-----------------|----------|------------------------------|----------------------|---------------------------------|
| Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) |
| | Primary | Total | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.00 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.00 | |
| Actinolite | ADX | 0 | 0 | < 23.00 | |
| Amosite | ADX | 0 | 0 | < 23.00 | |
| Anthophyllite | ADX | 0 | 0 | < 23.00 | |
| Crocidolite | ADX | 0 | 0 | < 23.00 | |
| Tremolite | ADX | 0 | 0 | < 23.00 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.00 | |
| Other Minerals | - | 0 | 0 | < 23.00 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.00 | |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042413456

Client: Tetra Tech

Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042413456-0016 | | | | | | | Customer Sample: Lab Blank | | | | |
|--------------------------------|--------------|----------------|------------------|-------|------------------------------|-------|----------------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (μm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| A1 | B3 | None Detected | | | | | | | | | |
| A1 | B5 | None Detected | | | | | | | | | |
| A1 | C4 | None Detected | | | | | | | | | |
| A2 | D6 | None Detected | | | | | | | | | |
| A2 | D8 | None Detected | | | | | | | | | |
| A2 | E9 | None Detected | | | | | | | | | |
| A3 | J5 | None Detected | | | | | | | | | |
| A3 | I7 | None Detected | | | | | | | | | |
| A4 | H3 | None Detected | | | | | | | | | |
| A4 | I2 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

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

RECEIVED
PHONE: (800) 220-3675
EMAIL: CinnAsbby@EMSL.com

CINNAMINSON, NJ

042413456

| | | | |
|---|-------------------------------------|---|----------------------------------|
| Customer Information | | If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization. | |
| Customer ID: | | Billing ID: | |
| Company Name: | Tetra Tech | Company Name: | |
| Contact Name: | Chelsea Sander | Billing Contact: | |
| Street Address: | 1560 Broadway Ste 1400 | Street Address: | |
| City, State, Zip: | Denver, CO 80202 | Country: | USA |
| Phone: | 703-489-2674 | City, State, Zip: | |
| Email(s) for Report: | | Phone: | |
| Project Information | | | |
| Project Name/No: | | Purchase Order: | |
| EMSL LIMS Project ID: (If applicable, EMSL will provide) | | State of Connecticut (CT) must select project location: | |
| Sampled By Name: | | US State where samples collected: NY | |
| | | <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable) | |
| | | No. of Samples in Shipment: 15 | |
| Turn-Around-Time (TAT) | | | |
| <input type="checkbox"/> 3 Hour | <input type="checkbox"/> 4-4.5 Hour | <input type="checkbox"/> 6 Hour | <input type="checkbox"/> 24 Hour |
| <input type="checkbox"/> AHERA ONLY | | <input type="checkbox"/> 32 Hour | <input type="checkbox"/> 48 Hour |
| <input type="checkbox"/> 72 Hour | <input type="checkbox"/> 96 Hour | <input checked="" type="checkbox"/> 1 Week | <input type="checkbox"/> 2 Week |

TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.

| | | |
|--|--|--|
| <u>PCM Air</u> | <u>TEM - Air</u> | <u>TEM - Settled Dust</u> |
| <input type="checkbox"/> NIOSH 7400 | <input type="checkbox"/> AHERA 40 CFR, Part 763 | <input type="checkbox"/> Microvac - ASTM D5755 |
| <input type="checkbox"/> NIOSH 7400 w/ 8hr. TWA | <input type="checkbox"/> NIOSH 7402 | <input type="checkbox"/> Wipe - ASTM D6480 |
| <u>PLM - Bulk (reporting limit)</u> | <input type="checkbox"/> EPA Level II | <input type="checkbox"/> Qualitative via Filtration Prep |
| <input type="checkbox"/> PLM EPA 600/R-93/116 (<1%) | <input checked="" type="checkbox"/> ISO 10312* | <input type="checkbox"/> Qualitative via Drop Mount Prep |
| <input type="checkbox"/> PLM EPA NOB (<1%) | | |
| <input type="checkbox"/> POINT COUNT | <u>TEM - Bulk</u> | <u>Soil - Rock - Vermiculite (reporting limit)*</u> |
| <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) | <input type="checkbox"/> TEM EPA NOB | <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) |
| POINT COUNT w/ GRAVIMETRIC | <input type="checkbox"/> NYS NOB 198.4 (Non-Friable-NY) | <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.1%) |
| <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) | <input type="checkbox"/> TEM EPA 600/R-93/116 w/ Milling Prep (0.1%) | <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) |
| <input type="checkbox"/> NIOSH 9002 (<1%) | | <input type="checkbox"/> TEM Qualitative via Filtration Prep |
| <input type="checkbox"/> NYS 198.1 (Friable - NY) | | <input type="checkbox"/> TEM Qualitative via Drop Mount Prep |
| <input type="checkbox"/> NYS 198.6 NOB (Non-Friable - NY) | | |
| <input type="checkbox"/> NYS 198.8 (Vermiculite SM-V) | | |

*Please call with your project-specific requirements.

| <input type="checkbox"/> Positive Stop - Clearly Identified Homogeneous Areas (HA) | | Filter Pore Size (Air Samples) | <input type="checkbox"/> 0.8um <input checked="" type="checkbox"/> 0.45um |
|--|-------------------------------|----------------------------------|---|
| Sample Number | Sample Location / Description | Volume, Area or Homogeneous Area | Date / Time Sampled (Air Monitoring Only) |
| MFL-AM01-062424-AB | DL248396 | 7,163.280 | 06/24/24 1058 |
| MFL-AM02-062424-AB | DL248395 | 7,267.414 | 06/24/24 1117 |
| MFL-AM03-062424-AB | DL248414 | 7,279.040 | 06/24/24 1256 |
| MFL-AM04-062424-AB | DL248511 | 7,183.840 | 06/24/24 1313 |
| MFL-FB01-062424-AB | DL248387 | 0 | 06/24/24 1200 |
| MFL-AM01-062524-AB | DL248386 | 7,269.208 | 06/25/24 1058 |
| MFL-AM02-062524-AB | DL248380 | 7,241.862 | 06/25/24 1111 |
| MFL-AM03-062524-AB | DL248499 | 7,214.673 | 06/25/24 1251 |

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

All samples received acceptable for analysis.

| | | | |
|---------------------|---------------|--------------------------------|----------------|
| Method of Shipment: | FedEx | Sample Condition Upon Receipt: | |
| Relinquished by: | 7.28.24 | Received by: | AB |
| Relinquished by: | | Received by: | 6 7.12.24 |
| Date/Time: | 06/27/24 1000 | Date/Time: | 6 7.12.24 1000 |
| Date/Time: | | Date/Time: | |

Controlled Document - COC-05 Asbestos R16 10/26/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



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

July 09, 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 07/01/24 15:07.

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.



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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> |
|--------------------|------------------|---------------|----------------|-----------------|
| MFL-AM01-062024-HM | 4070134-01 | Air | 06/20/24 23:59 | 07/01/24 15:07 |
| MFL-AM02-062024-HM | 4070134-02 | Air | 06/20/24 23:59 | 07/01/24 15:07 |
| MFL-AM03-062024-HM | 4070134-03 | Air | 06/20/24 23:59 | 07/01/24 15:07 |
| MFL-AM04-062024-HM | 4070134-04 | Air | 06/20/24 23:59 | 07/01/24 15:07 |
| MFL-FB01-062024-HM | 4070134-05 | Air | 06/20/24 00:00 | 07/01/24 15:07 |
| MFL-AM01-062124-HM | 4070134-06 | Air | 06/21/24 23:59 | 07/01/24 15:07 |
| MFL-AM02-062124-HM | 4070134-07 | Air | 06/21/24 23:59 | 07/01/24 15:07 |
| MFL-AM03-062124-HM | 4070134-08 | Air | 06/21/24 23:59 | 07/01/24 15:07 |
| MFL-AM04-062124-HM | 4070134-09 | Air | 06/21/24 23:59 | 07/01/24 15:07 |
| MFL-AM01-062224-HM | 4070134-10 | Air | 06/22/24 23:59 | 07/01/24 15:07 |
| MFL-AM02-062224-HM | 4070134-11 | Air | 06/22/24 23:59 | 07/01/24 15:07 |
| MFL-AM03-062224-HM | 4070134-12 | Air | 06/22/24 23:59 | 07/01/24 15:07 |
| MFL-AM04-062224-HM | 4070134-13 | Air | 06/22/24 23:59 | 07/01/24 15:07 |
| MFL-FB01-062224-HM | 4070134-14 | Air | 06/22/24 00:00 | 07/01/24 15:07 |
| MFL-AM01-062324-HM | 4070134-15 | Air | 06/23/24 23:59 | 07/01/24 15:07 |
| MFL-AM02-062324-HM | 4070134-16 | Air | 06/23/24 23:59 | 07/01/24 15:07 |
| MFL-AM03-062324-HM | 4070134-17 | Air | 06/23/24 23:59 | 07/01/24 15:07 |
| MFL-AM04-062324-HM | 4070134-18 | Air | 06/23/24 23:59 | 07/01/24 15:07 |
| MFL-AM01-062424-HM | 4070134-19 | Air | 06/24/24 23:59 | 07/01/24 15:07 |
| MFL-AM02-062424-HM | 4070134-20 | Air | 06/24/24 23:59 | 07/01/24 15:07 |
| MFL-AM03-062424-HM | 4070134-21 | Air | 06/24/24 23:59 | 07/01/24 15:07 |

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

| | | | | |
|--------------------|------------|-----|----------------|----------------|
| MFL-AM04-062424-HM | 4070134-22 | Air | 06/24/24 23:59 | 07/01/24 15:07 |
| MFL-FB01-062424-HM | 4070134-23 | Air | 06/24/24 00:00 | 07/01/24 15:07 |
| MFL-AM01-062524-HM | 4070134-24 | Air | 06/25/24 23:59 | 07/01/24 15:07 |
| MFL-AM02-062524-HM | 4070134-25 | Air | 06/25/24 23:59 | 07/01/24 15:07 |
| MFL-AM03-062524-HM | 4070134-26 | Air | 06/25/24 23:59 | 07/01/24 15:07 |
| MFL-AM04-062524-HM | 4070134-27 | Air | 06/25/24 23:59 | 07/01/24 15:07 |
| MFL-AM01-062624-HM | 4070134-28 | Air | 06/26/24 23:59 | 07/01/24 15:07 |
| MFL-AM02-062624-HM | 4070134-29 | Air | 06/26/24 23:59 | 07/01/24 15:07 |
| MFL-AM03-062624-HM | 4070134-30 | Air | 06/26/24 23:59 | 07/01/24 15:07 |
| MFL-AM04-062624-HM | 4070134-31 | Air | 06/26/24 23:59 | 07/01/24 15:07 |
| MFL-FB01-062624-HM | 4070134-32 | Air | 06/26/24 00:00 | 07/01/24 15:07 |
| MFL-LB01-062624-HM | 4070134-33 | Air | 06/26/24 00:00 | 07/01/24 15:07 |

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM01-062024-HM | Lab ID: 4070134-01 | Sampled: 06/20/24 23:59 |
| Matrix: Air | Sample Volume: 2024.163 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 03:40 |

Comments: Q8504312 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.137 | SL | 0.0310 |
| Arsenic | 7440-38-2 | 3.29 | | 0.00753 |
| Barium | 7440-39-3 | 9.22 | | 0.860 |
| Beryllium | 7440-41-7 | 0.0362 | | 0.00257 |
| Cadmium | 7440-43-9 | 0.0299 | U | 0.0596 |
| Chromium | 7440-47-3 | 6.95 | | 1.78 |
| Cobalt | 7440-48-4 | 1.27 | | 0.0350 |
| Copper | 7440-50-8 | 149 | | 2.11 |
| Lead | 7439-92-1 | 1.30 | | 0.172 |
| Manganese | 7439-96-5 | 32.2 | | 1.52 |
| Molybdenum | 7439-98-7 | 6.46 | | 0.289 |
| Nickel | 7440-02-0 | 3.83 | | 0.524 |
| Selenium | 7782-49-2 | 0.251 | LJ, QX | 0.00720 |
| Thallium | 7440-28-0 | 0.00263 | | 4.73E-4 |
| Vanadium | 7440-62-2 | 3.88 | | 0.0425 |
| Zinc | 7440-66-6 | 21.0 | U | 61.7 |



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM02-062024-HM | Lab ID: 4070134-02 | Sampled: 06/20/24 23:59 |
| Matrix: Air | Sample Volume: 2110.652 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 04:00 |

Comments: Q8504311 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.117 | SL | 0.0298 |
| Arsenic | 7440-38-2 | 0.507 | | 0.00722 |
| Barium | 7440-39-3 | 5.10 | | 0.825 |
| Beryllium | 7440-41-7 | 0.0168 | | 0.00247 |
| Cadmium | 7440-43-9 | 0.0167 | U | 0.0571 |
| Chromium | 7440-47-3 | 2.82 | | 1.70 |
| Cobalt | 7440-48-4 | 0.539 | | 0.0336 |
| Copper | 7440-50-8 | 53.5 | | 2.03 |
| Lead | 7439-92-1 | 1.06 | | 0.165 |
| Manganese | 7439-96-5 | 16.1 | | 1.46 |
| Molybdenum | 7439-98-7 | 2.19 | | 0.277 |
| Nickel | 7440-02-0 | 1.93 | | 0.503 |
| Selenium | 7782-49-2 | 0.203 | LJ, QX | 0.00691 |
| Thallium | 7440-28-0 | 0.00209 | | 4.54E-4 |
| Vanadium | 7440-62-2 | 1.84 | | 0.0408 |
| Zinc | 7440-66-6 | 14.2 | U | 59.2 |



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|--|--------------------------------------|
| Description: MFL-AM03-062024-HM | Lab ID: 4070134-03 | Sampled: 06/20/24 23:59 |
| Matrix: Air | Sample Volume: 1980.21 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 04:20 |

Comments: Q8504310 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.102 | SL | 0.0317 |
| Arsenic | 7440-38-2 | 0.735 | | 0.00770 |
| Barium | 7440-39-3 | 10.4 | | 0.879 |
| Beryllium | 7440-41-7 | 0.160 | | 0.00263 |
| Cadmium | 7440-43-9 | 0.0310 | U | 0.0609 |
| Chromium | 7440-47-3 | 9.56 | | 1.82 |
| Cobalt | 7440-48-4 | 2.28 | | 0.0358 |
| Copper | 7440-50-8 | 72.6 | | 2.16 |
| Lead | 7439-92-1 | 1.11 | | 0.176 |
| Manganese | 7439-96-5 | 50.7 | | 1.55 |
| Molybdenum | 7439-98-7 | 2.93 | | 0.295 |
| Nickel | 7440-02-0 | 5.41 | | 0.536 |
| Selenium | 7782-49-2 | 0.407 | LJ, QX | 0.00736 |
| Thallium | 7440-28-0 | 0.00348 | | 4.84E-4 |
| Vanadium | 7440-62-2 | 5.37 | | 0.0435 |
| Zinc | 7440-66-6 | 31.0 | U | 63.1 |



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM04-062024-HM | Lab ID: 4070134-04 | Sampled: 06/20/24 23:59 |
| Matrix: Air | Sample Volume: 1769.245 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 04:40 |

Comments: Q8504340 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.112 | SL | 0.0355 |
| Arsenic | 7440-38-2 | 0.587 | | 0.00862 |
| Barium | 7440-39-3 | 5.99 | | 0.984 |
| Beryllium | 7440-41-7 | 0.0192 | | 0.00294 |
| Cadmium | 7440-43-9 | 0.0197 | U | 0.0681 |
| Chromium | 7440-47-3 | 3.40 | | 2.03 |
| Cobalt | 7440-48-4 | 0.619 | | 0.0401 |
| Copper | 7440-50-8 | 47.2 | | 2.42 |
| Lead | 7439-92-1 | 2.17 | | 0.197 |
| Manganese | 7439-96-5 | 20.5 | | 1.74 |
| Molybdenum | 7439-98-7 | 1.36 | | 0.330 |
| Nickel | 7440-02-0 | 1.99 | | 0.600 |
| Selenium | 7782-49-2 | 0.213 | LJ, QX | 0.00824 |
| Thallium | 7440-28-0 | 0.00202 | | 5.42E-4 |
| Vanadium | 7440-62-2 | 1.80 | | 0.0486 |
| Zinc | 7440-66-6 | 31.1 | U | 70.6 |



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-FB01-062024-HM | Lab ID: 4070134-05 | Sampled: 06/20/24 00:00 |
| Matrix: Air | Sample Volume: 2024.163 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 05:00 |

Comments: Q8504332 - Field Blank - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|--------------|--------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0149 | U, SL | 0.0310 |
| Arsenic | 7440-38-2 | 0.00512 | U | 0.00753 |
| Barium | 7440-39-3 | 0.952 | FB-01 | 0.860 |
| Beryllium | 7440-41-7 | ND | U | 0.00257 |
| Cadmium | 7440-43-9 | 6.87E-4 | U | 0.0596 |
| Chromium | 7440-47-3 | 1.01 | U | 1.78 |
| Cobalt | 7440-48-4 | 0.00982 | U | 0.0350 |
| Copper | 7440-50-8 | 0.388 | U | 2.11 |
| Lead | 7439-92-1 | 0.0265 | U | 0.172 |
| Manganese | 7439-96-5 | 0.172 | U | 1.52 |
| Molybdenum | 7439-98-7 | 0.160 | U | 0.289 |
| Nickel | 7440-02-0 | 0.394 | U | 0.524 |
| Selenium | 7782-49-2 | 0.00297 | LJ, QX, U | 0.00720 |
| Thallium | 7440-28-0 | 1.14E-4 | U | 4.73E-4 |
| Vanadium | 7440-62-2 | 0.0148 | U | 0.0425 |
| Zinc | 7440-66-6 | 3.14 | U | 61.7 |



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM01-062124-HM | Lab ID: 4070134-06 | Sampled: 06/21/24 23:59 |
| Matrix: Air | Sample Volume: 2005.647 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 00:47 |

Comments: Q8504339 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.237 | SL | 0.0313 |
| Barium | 7440-39-3 | 18.3 | | 0.868 |
| Beryllium | 7440-41-7 | 0.0547 | | 0.00260 |
| Cadmium | 7440-43-9 | 0.0787 | | 0.0601 |
| Chromium | 7440-47-3 | 11.5 | | 1.79 |
| Cobalt | 7440-48-4 | 1.95 | | 0.0354 |
| Copper | 7440-50-8 | 156 | | 2.13 |
| Lead | 7439-92-1 | 2.47 | | 0.174 |
| Manganese | 7439-96-5 | 54.4 | | 1.53 |
| Molybdenum | 7439-98-7 | 5.39 | QM-4X | 0.291 |
| Nickel | 7440-02-0 | 5.22 | | 0.529 |
| Selenium | 7782-49-2 | 0.294 | LJ, QX, SRD-01 | 0.00727 |
| Thallium | 7440-28-0 | 0.00273 | | 4.78E-4 |
| Vanadium | 7440-62-2 | 5.63 | | 0.0429 |
| Zinc | 7440-66-6 | 39.4 | U | 62.3 |



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Description: MFL-AM01-062124-HM

Lab ID: 4070134-06RE1

Sampled: 06/21/24 23:59

Matrix: Air

Sample Volume: 2005.647 m³

Received: 07/01/24 15:07

Filter ID:

Analysis Date: 07/03/24 17:02

Comments: Q8504339 - Received in good condition

Inorganics by Compendium Method IO-3.5

Results

MDL

Analyte

Arsenic

CAS Number

7440-38-2

ng/m³ Air

13.4

Flag

D, QM-4X

ng/m³ Air

0.0152



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM02-062124-HM | Lab ID: 4070134-07 | Sampled: 06/21/24 23:59 |
| Matrix: Air | Sample Volume: 2089.734 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 05:14 |

Comments: Q8504337 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.191 | SL | 0.0301 |
| Arsenic | 7440-38-2 | 1.21 | | 0.00730 |
| Barium | 7440-39-3 | 15.2 | | 0.833 |
| Beryllium | 7440-41-7 | 0.0648 | | 0.00249 |
| Cadmium | 7440-43-9 | 0.0808 | | 0.0577 |
| Chromium | 7440-47-3 | 6.29 | | 1.72 |
| Cobalt | 7440-48-4 | 1.60 | | 0.0339 |
| Copper | 7440-50-8 | 71.8 | | 2.05 |
| Lead | 7439-92-1 | 4.43 | | 0.167 |
| Manganese | 7439-96-5 | 62.7 | | 1.47 |
| Molybdenum | 7439-98-7 | 2.22 | | 0.280 |
| Nickel | 7440-02-0 | 3.91 | | 0.508 |
| Selenium | 7782-49-2 | 0.377 | LJ, QX | 0.00698 |
| Thallium | 7440-28-0 | 0.00415 | | 4.59E-4 |
| Vanadium | 7440-62-2 | 5.64 | | 0.0412 |
| Zinc | 7440-66-6 | 39.4 | U | 59.8 |



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FILE #: 4205.00.003.001

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SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM03-062124-HM | Lab ID: 4070134-08 | Sampled: 06/21/24 23:59 |
| Matrix: Air | Sample Volume: 1966.124 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 05:34 |

Comments: Q8504334 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.100 | SL | 0.0319 |
| Arsenic | 7440-38-2 | 0.811 | | 0.00775 |
| Barium | 7440-39-3 | 7.68 | | 0.885 |
| Beryllium | 7440-41-7 | 0.0819 | | 0.00265 |
| Cadmium | 7440-43-9 | 0.0212 | U | 0.0613 |
| Chromium | 7440-47-3 | 5.96 | | 1.83 |
| Cobalt | 7440-48-4 | 1.29 | | 0.0361 |
| Copper | 7440-50-8 | 73.6 | | 2.18 |
| Lead | 7439-92-1 | 2.36 | | 0.177 |
| Manganese | 7439-96-5 | 30.9 | | 1.56 |
| Molybdenum | 7439-98-7 | 3.15 | | 0.297 |
| Nickel | 7440-02-0 | 3.30 | | 0.540 |
| Selenium | 7782-49-2 | 0.261 | LJ, QX | 0.00741 |
| Thallium | 7440-28-0 | 0.00218 | | 4.87E-4 |
| Vanadium | 7440-62-2 | 3.16 | | 0.0438 |
| Zinc | 7440-66-6 | 25.4 | U | 63.6 |



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM04-062124-HM | Lab ID: 4070134-09 | Sampled: 06/21/24 23:59 |
| Matrix: Air | Sample Volume: 1720.875 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 05:53 |

Comments: Q8504333 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.273 | SL | 0.0365 |
| Arsenic | 7440-38-2 | 0.819 | | 0.00886 |
| Barium | 7440-39-3 | 6.44 | | 1.01 |
| Beryllium | 7440-41-7 | 0.0214 | | 0.00303 |
| Cadmium | 7440-43-9 | 0.0293 | U | 0.0701 |
| Chromium | 7440-47-3 | 4.00 | | 2.09 |
| Cobalt | 7440-48-4 | 0.700 | | 0.0412 |
| Copper | 7440-50-8 | 36.5 | | 2.49 |
| Lead | 7439-92-1 | 2.03 | | 0.202 |
| Manganese | 7439-96-5 | 21.7 | | 1.79 |
| Molybdenum | 7439-98-7 | 1.47 | | 0.339 |
| Nickel | 7440-02-0 | 2.20 | | 0.616 |
| Selenium | 7782-49-2 | 0.189 | LJ, QX | 0.00847 |
| Thallium | 7440-28-0 | 0.00147 | | 5.57E-4 |
| Vanadium | 7440-62-2 | 1.87 | | 0.0500 |
| Zinc | 7440-66-6 | 29.0 | U | 72.6 |



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FILE #: 4205.00.003.001

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SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM01-062224-HM | Lab ID: 4070134-10 | Sampled: 06/22/24 23:59 |
| Matrix: Air | Sample Volume: 1991.339 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 06:13 |

Comments: Q8504331 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.296 | SL | 0.0315 |
| Arsenic | 7440-38-2 | 8.81 | | 0.00766 |
| Barium | 7440-39-3 | 12.6 | | 0.874 |
| Beryllium | 7440-41-7 | 0.0314 | | 0.00261 |
| Cadmium | 7440-43-9 | 0.100 | | 0.0605 |
| Chromium | 7440-47-3 | 8.42 | | 1.81 |
| Cobalt | 7440-48-4 | 1.21 | | 0.0356 |
| Copper | 7440-50-8 | 129 | | 2.15 |
| Lead | 7439-92-1 | 1.19 | | 0.175 |
| Manganese | 7439-96-5 | 32.1 | | 1.54 |
| Molybdenum | 7439-98-7 | 4.68 | | 0.293 |
| Nickel | 7440-02-0 | 3.78 | | 0.533 |
| Selenium | 7782-49-2 | 0.179 | LJ, QX | 0.00732 |
| Thallium | 7440-28-0 | 0.00163 | | 4.81E-4 |
| Vanadium | 7440-62-2 | 3.59 | | 0.0432 |
| Zinc | 7440-66-6 | 42.6 | U | 62.7 |



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM02-062224-HM | Lab ID: 4070134-11 | Sampled: 06/22/24 23:59 |
| Matrix: Air | Sample Volume: 2099.304 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 06:33 |

Comments: Q8504330 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.102 | SL | 0.0299 |
| Arsenic | 7440-38-2 | 1.17 | | 0.00726 |
| Barium | 7440-39-3 | 14.5 | | 0.829 |
| Beryllium | 7440-41-7 | 0.0645 | | 0.00248 |
| Cadmium | 7440-43-9 | 0.177 | | 0.0574 |
| Chromium | 7440-47-3 | 11.4 | | 1.71 |
| Cobalt | 7440-48-4 | 2.90 | | 0.0338 |
| Copper | 7440-50-8 | 51.4 | | 2.04 |
| Lead | 7439-92-1 | 2.11 | | 0.166 |
| Manganese | 7439-96-5 | 69.5 | | 1.46 |
| Molybdenum | 7439-98-7 | 1.69 | | 0.278 |
| Nickel | 7440-02-0 | 8.06 | | 0.505 |
| Selenium | 7782-49-2 | 0.322 | LJ, QX | 0.00694 |
| Thallium | 7440-28-0 | 0.00278 | | 4.56E-4 |
| Vanadium | 7440-62-2 | 8.28 | | 0.0410 |
| Zinc | 7440-66-6 | 33.0 | U | 59.5 |



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FILE #: 4205.00.003.001

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SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM03-062224-HM | Lab ID: 4070134-12 | Sampled: 06/22/24 23:59 |
| Matrix: Air | Sample Volume: 1847.426 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 07:48 |

Comments: Q8504329 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0507 | SL | 0.0340 |
| Arsenic | 7440-38-2 | 0.400 | | 0.00825 |
| Barium | 7440-39-3 | 3.62 | | 0.942 |
| Beryllium | 7440-41-7 | 0.0229 | | 0.00282 |
| Cadmium | 7440-43-9 | 0.00952 | U | 0.0653 |
| Chromium | 7440-47-3 | 2.95 | | 1.95 |
| Cobalt | 7440-48-4 | 0.447 | | 0.0384 |
| Copper | 7440-50-8 | 66.8 | | 2.32 |
| Lead | 7439-92-1 | 0.533 | | 0.188 |
| Manganese | 7439-96-5 | 12.2 | | 1.66 |
| Molybdenum | 7439-98-7 | 2.71 | | 0.316 |
| Nickel | 7440-02-0 | 1.46 | | 0.574 |
| Selenium | 7782-49-2 | 0.120 | LJ, QX | 0.00789 |
| Thallium | 7440-28-0 | 0.00103 | | 5.19E-4 |
| Vanadium | 7440-62-2 | 1.24 | | 0.0466 |
| Zinc | 7440-66-6 | 12.5 | U | 67.6 |



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FILE #: 4205.00.003.001

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AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM04-062224-HM | Lab ID: 4070134-13 | Sampled: 06/22/24 23:59 |
| Matrix: Air | Sample Volume: 1792.187 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 08:04 |

Comments: Q8504346 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.115 | SL | 0.0350 |
| Arsenic | 7440-38-2 | 0.719 | | 0.00851 |
| Barium | 7440-39-3 | 6.36 | | 0.971 |
| Beryllium | 7440-41-7 | 0.0269 | | 0.00291 |
| Cadmium | 7440-43-9 | 0.0208 | U | 0.0673 |
| Chromium | 7440-47-3 | 4.55 | | 2.01 |
| Cobalt | 7440-48-4 | 0.884 | | 0.0396 |
| Copper | 7440-50-8 | 46.0 | | 2.39 |
| Lead | 7439-92-1 | 2.02 | | 0.194 |
| Manganese | 7439-96-5 | 26.7 | | 1.72 |
| Molybdenum | 7439-98-7 | 1.19 | | 0.326 |
| Nickel | 7440-02-0 | 2.56 | | 0.592 |
| Selenium | 7782-49-2 | 0.178 | LJ, QX | 0.00813 |
| Thallium | 7440-28-0 | 0.00139 | | 5.35E-4 |
| Vanadium | 7440-62-2 | 2.33 | | 0.0480 |
| Zinc | 7440-66-6 | 30.4 | U | 69.7 |



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-FB01-062224-HM | Lab ID: 4070134-14 | Sampled: 06/22/24 00:00 |
| Matrix: Air | Sample Volume: 1991.339 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 08:23 |

Comments: Q8504345 - Field Blank - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|-----------------|-------------------|-----------------------------|-------------|----------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0199 | SL, U | 0.0315 |
| Arsenic | 7440-38-2 | 0.0437 | FB-01 | 0.00766 |
| Barium | 7440-39-3 | 1.02 | FB-01 | 0.874 |
| Beryllium | 7440-41-7 | 5.69E-6 | U | 0.00261 |
| Cadmium | 7440-43-9 | 0.00151 | U | 0.0605 |
| Chromium | 7440-47-3 | 1.09 | U | 1.81 |
| Cobalt | 7440-48-4 | 0.0199 | U | 0.0356 |
| Copper | 7440-50-8 | 0.721 | U | 2.15 |
| Lead | 7439-92-1 | 0.0400 | U | 0.175 |
| Manganese | 7439-96-5 | 0.372 | U | 1.54 |
| Molybdenum | 7439-98-7 | 0.154 | U | 0.293 |
| Nickel | 7440-02-0 | 0.420 | U | 0.533 |
| Selenium | 7782-49-2 | 0.00297 | LJ, QX, U | 0.00732 |
| Thallium | 7440-28-0 | 1.75E-4 | U | 4.81E-4 |
| Vanadium | 7440-62-2 | 0.0468 | FB-01 | 0.0432 |
| Zinc | 7440-66-6 | 13.7 | U | 62.7 |



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM01-062324-HM | Lab ID: 4070134-15 | Sampled: 06/23/24 23:59 |
| Matrix: Air | Sample Volume: 1959.803 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 08:38 |

Comments: Q8504343 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.615 | SL | 0.0320 |
| Barium | 7440-39-3 | 11.0 | | 0.888 |
| Beryllium | 7440-41-7 | 0.0229 | | 0.00266 |
| Cadmium | 7440-43-9 | 0.0633 | | 0.0615 |
| Chromium | 7440-47-3 | 7.81 | | 1.83 |
| Cobalt | 7440-48-4 | 1.14 | | 0.0362 |
| Copper | 7440-50-8 | 105 | | 2.18 |
| Lead | 7439-92-1 | 0.711 | | 0.178 |
| Manganese | 7439-96-5 | 27.7 | | 1.57 |
| Molybdenum | 7439-98-7 | 4.71 | | 0.298 |
| Nickel | 7440-02-0 | 3.90 | | 0.541 |
| Selenium | 7782-49-2 | 0.191 | LJ, QX | 0.00744 |
| Thallium | 7440-28-0 | 0.00168 | | 4.89E-4 |
| Vanadium | 7440-62-2 | 3.31 | | 0.0439 |
| Zinc | 7440-66-6 | 27.6 | U | 63.8 |



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Description: MFL-AM01-062324-HM

Lab ID: 4070134-15RE1

Sampled: 06/23/24 23:59

Matrix: Air

Sample Volume: 1959.803 m³

Received: 07/01/24 15:07

Filter ID:

Analysis Date: 07/03/24 19:02

Comments: Q8504343 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | MDL |
|----------------|-------------------|-----------------------------|-------------|
| | | ng/m³ Air | Flag |
| Arsenic | 7440-38-2 | 1.48 | D |



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AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM02-062324-HM | Lab ID: 4070134-16 | Sampled: 06/23/24 23:59 |
| Matrix: Air | Sample Volume: 1985.74E m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 08:58 |

Comments: Q8504342 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.159 | SL | 0.0316 |
| Arsenic | 7440-38-2 | 1.07 | | 0.00768 |
| Barium | 7440-39-3 | 9.28 | | 0.877 |
| Beryllium | 7440-41-7 | 0.0404 | | 0.00262 |
| Cadmium | 7440-43-9 | 0.0282 | U | 0.0607 |
| Chromium | 7440-47-3 | 6.34 | | 1.81 |
| Cobalt | 7440-48-4 | 1.45 | | 0.0357 |
| Copper | 7440-50-8 | 78.0 | | 2.15 |
| Lead | 7439-92-1 | 2.45 | | 0.175 |
| Manganese | 7439-96-5 | 38.4 | | 1.55 |
| Molybdenum | 7439-98-7 | 2.62 | | 0.294 |
| Nickel | 7440-02-0 | 4.34 | | 0.534 |
| Selenium | 7782-49-2 | 0.253 | LJ, QX | 0.00734 |
| Thallium | 7440-28-0 | 0.00215 | | 4.83E-4 |
| Vanadium | 7440-62-2 | 4.18 | | 0.0433 |
| Zinc | 7440-66-6 | 34.4 | U | 62.9 |



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SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM03-062324-HM | Lab ID: 4070134-17 | Sampled: 06/23/24 23:59 |
| Matrix: Air | Sample Volume: 2009.181 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 09:15 |

Comments: Q8504341 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0544 | SL | 0.0313 |
| Arsenic | 7440-38-2 | 0.418 | | 0.00759 |
| Barium | 7440-39-3 | 2.52 | | 0.866 |
| Beryllium | 7440-41-7 | 0.00974 | | 0.00259 |
| Cadmium | 7440-43-9 | 0.00688 | U | 0.0600 |
| Chromium | 7440-47-3 | 2.36 | | 1.79 |
| Cobalt | 7440-48-4 | 0.268 | | 0.0353 |
| Copper | 7440-50-8 | 67.9 | | 2.13 |
| Lead | 7439-92-1 | 0.458 | | 0.173 |
| Manganese | 7439-96-5 | 6.31 | | 1.53 |
| Molybdenum | 7439-98-7 | 2.77 | | 0.291 |
| Nickel | 7440-02-0 | 1.19 | | 0.528 |
| Selenium | 7782-49-2 | 0.127 | LJ, QX | 0.00726 |
| Thallium | 7440-28-0 | 8.46E-4 | | 4.77E-4 |
| Vanadium | 7440-62-2 | 0.699 | | 0.0428 |
| Zinc | 7440-66-6 | 10.1 | U | 62.2 |



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AQS SITE CODE:

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| | | |
|--|---|--------------------------------------|
| Description: MFL-AM04-062324-HM | Lab ID: 4070134-18 | Sampled: 06/23/24 23:59 |
| Matrix: Air | Sample Volume: 1739.005 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/02/24 20:48 |

Comments: Q8520670 - MS/MSD - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0865 | SL | 0.0361 |
| Arsenic | 7440-38-2 | 0.352 | | 0.00877 |
| Barium | 7440-39-3 | 3.53 | | 1.00 |
| Beryllium | 7440-41-7 | 0.0122 | | 0.00299 |
| Cadmium | 7440-43-9 | 0.00923 | U | 0.0693 |
| Chromium | 7440-47-3 | 2.53 | | 2.07 |
| Cobalt | 7440-48-4 | 0.395 | | 0.0408 |
| Copper | 7440-50-8 | 27.5 | | 2.46 |
| Lead | 7439-92-1 | 0.652 | | 0.200 |
| Manganese | 7439-96-5 | 12.2 | | 1.77 |
| Molybdenum | 7439-98-7 | 1.48 | | 0.336 |
| Nickel | 7440-02-0 | 1.30 | | 0.610 |
| Selenium | 7782-49-2 | 0.159 | LJ, QX | 0.00838 |
| Thallium | 7440-28-0 | 0.00110 | | 5.51E-4 |
| Vanadium | 7440-62-2 | 1.03 | | 0.0495 |
| Zinc | 7440-66-6 | 15.7 | U | 71.9 |



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SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM01-062424-HM | Lab ID: 4070134-19 | Sampled: 06/24/24 23:59 |
| Matrix: Air | Sample Volume: 1938.175 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 09:31 |

Comments: Q8520667 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.257 | SL | 0.0324 |
| Arsenic | 7440-38-2 | 7.31 | | 0.00787 |
| Barium | 7440-39-3 | 12.2 | | 0.898 |
| Beryllium | 7440-41-7 | 0.0398 | | 0.00269 |
| Cadmium | 7440-43-9 | 0.0612 | U | 0.0622 |
| Chromium | 7440-47-3 | 8.23 | | 1.86 |
| Cobalt | 7440-48-4 | 1.68 | | 0.0366 |
| Copper | 7440-50-8 | 124 | | 2.21 |
| Lead | 7439-92-1 | 0.769 | | 0.180 |
| Manganese | 7439-96-5 | 46.7 | | 1.59 |
| Molybdenum | 7439-98-7 | 4.00 | | 0.301 |
| Nickel | 7440-02-0 | 3.73 | | 0.547 |
| Selenium | 7782-49-2 | 0.266 | LJ, QX | 0.00752 |
| Thallium | 7440-28-0 | 0.00222 | | 4.94E-4 |
| Vanadium | 7440-62-2 | 4.74 | | 0.0444 |
| Zinc | 7440-66-6 | 36.2 | U | 64.5 |



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| | | |
|--|---|--------------------------------------|
| Description: MFL-AM02-062424-HM | Lab ID: 4070134-20 | Sampled: 06/24/24 23:59 |
| Matrix: Air | Sample Volume: 1975.425 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 09:50 |

Comments: Q8520666 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.157 | SL | 0.0318 |
| Arsenic | 7440-38-2 | 0.878 | | 0.00772 |
| Barium | 7440-39-3 | 8.90 | | 0.881 |
| Beryllium | 7440-41-7 | 0.0388 | | 0.00264 |
| Cadmium | 7440-43-9 | 0.0908 | | 0.0610 |
| Chromium | 7440-47-3 | 6.48 | | 1.82 |
| Cobalt | 7440-48-4 | 1.18 | | 0.0359 |
| Copper | 7440-50-8 | 88.6 | | 2.17 |
| Lead | 7439-92-1 | 2.26 | | 0.176 |
| Manganese | 7439-96-5 | 34.4 | | 1.56 |
| Molybdenum | 7439-98-7 | 2.17 | | 0.296 |
| Nickel | 7440-02-0 | 3.88 | | 0.537 |
| Selenium | 7782-49-2 | 0.241 | LJ, QX | 0.00738 |
| Thallium | 7440-28-0 | 0.00176 | | 4.85E-4 |
| Vanadium | 7440-62-2 | 3.83 | | 0.0436 |
| Zinc | 7440-66-6 | 39.9 | U | 63.3 |



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AQS SITE CODE:

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| | | |
|--|---|--------------------------------------|
| Description: MFL-AM03-062424-HM | Lab ID: 4070134-21 | Sampled: 06/24/24 23:59 |
| Matrix: Air | Sample Volume: 2004.133 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 10:10 |

Comments: Q8520665 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0573 | SL | 0.0313 |
| Arsenic | 7440-38-2 | 0.320 | | 0.00761 |
| Barium | 7440-39-3 | 3.62 | | 0.869 |
| Beryllium | 7440-41-7 | 0.0448 | | 0.00260 |
| Cadmium | 7440-43-9 | 0.00931 | U | 0.0602 |
| Chromium | 7440-47-3 | 3.39 | | 1.79 |
| Cobalt | 7440-48-4 | 0.604 | | 0.0354 |
| Copper | 7440-50-8 | 74.8 | | 2.14 |
| Lead | 7439-92-1 | 0.460 | | 0.174 |
| Manganese | 7439-96-5 | 13.3 | | 1.53 |
| Molybdenum | 7439-98-7 | 3.00 | | 0.291 |
| Nickel | 7440-02-0 | 1.81 | | 0.529 |
| Selenium | 7782-49-2 | 0.176 | LJ, QX | 0.00727 |
| Thallium | 7440-28-0 | 8.46E-4 | | 4.78E-4 |
| Vanadium | 7440-62-2 | 1.62 | | 0.0429 |
| Zinc | 7440-66-6 | 12.0 | U | 62.3 |



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| | | |
|--|---|--------------------------------------|
| Description: MFL-AM04-062424-HM | Lab ID: 4070134-22 | Sampled: 06/24/24 23:59 |
| Matrix: Air | Sample Volume: 1765.702 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 11:41 |

Comments: Q8520664 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.120 | SL | 0.0356 |
| Arsenic | 7440-38-2 | 0.705 | | 0.00863 |
| Barium | 7440-39-3 | 5.35 | | 0.986 |
| Beryllium | 7440-41-7 | 0.0229 | | 0.00295 |
| Cadmium | 7440-43-9 | 0.287 | | 0.0683 |
| Chromium | 7440-47-3 | 4.09 | | 2.04 |
| Cobalt | 7440-48-4 | 0.784 | | 0.0402 |
| Copper | 7440-50-8 | 33.3 | | 2.42 |
| Lead | 7439-92-1 | 1.32 | | 0.197 |
| Manganese | 7439-96-5 | 23.2 | | 1.74 |
| Molybdenum | 7439-98-7 | 1.43 | | 0.331 |
| Nickel | 7440-02-0 | 2.24 | | 0.601 |
| Selenium | 7782-49-2 | 0.169 | LJ, QX | 0.00826 |
| Thallium | 7440-28-0 | 0.00140 | QB-04 | 5.43E-4 |
| Vanadium | 7440-62-2 | 1.96 | | 0.0487 |
| Zinc | 7440-66-6 | 20.8 | U | 70.8 |



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AQS SITE CODE:

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| | | |
|--|---|--------------------------------------|
| Description: MFL-FB01-062424-HM | Lab ID: 4070134-23 | Sampled: 06/24/24 00:00 |
| Matrix: Air | Sample Volume: 1938.175 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 12:01 |

Comments: Q8504353 - Field Blank - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|--------------|--------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0164 | SL, U | 0.0324 |
| Arsenic | 7440-38-2 | 0.00785 | U | 0.00787 |
| Barium | 7440-39-3 | 0.975 | FB-01 | 0.898 |
| Beryllium | 7440-41-7 | ND | U | 0.00269 |
| Cadmium | 7440-43-9 | 7.21E-4 | U | 0.0622 |
| Chromium | 7440-47-3 | 1.06 | U | 1.86 |
| Cobalt | 7440-48-4 | 0.0105 | U | 0.0366 |
| Copper | 7440-50-8 | 0.761 | U | 2.21 |
| Lead | 7439-92-1 | 0.0274 | U | 0.180 |
| Manganese | 7439-96-5 | 0.182 | U | 1.59 |
| Molybdenum | 7439-98-7 | 0.201 | U | 0.301 |
| Nickel | 7440-02-0 | 0.424 | U | 0.547 |
| Selenium | 7782-49-2 | 0.00232 | LJ, QX, U | 0.00752 |
| Thallium | 7440-28-0 | 1.34E-4 | QB-04, U | 4.94E-4 |
| Vanadium | 7440-62-2 | 0.0189 | U | 0.0444 |
| Zinc | 7440-66-6 | 6.24 | U | 64.5 |



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| | | |
|--|---|--------------------------------------|
| Description: MFL-AM01-062524-HM | Lab ID: 4070134-24 | Sampled: 06/25/24 23:59 |
| Matrix: Air | Sample Volume: 1974.712 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 12:17 |

Comments: Q8504355 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.335 | SL | 0.0318 |
| Arsenic | 7440-38-2 | 8.79 | | 0.00772 |
| Barium | 7440-39-3 | 16.2 | | 0.882 |
| Beryllium | 7440-41-7 | 0.0433 | | 0.00264 |
| Cadmium | 7440-43-9 | 0.123 | | 0.0611 |
| Chromium | 7440-47-3 | 9.37 | | 1.82 |
| Cobalt | 7440-48-4 | 1.71 | | 0.0359 |
| Copper | 7440-50-8 | 143 | | 2.17 |
| Lead | 7439-92-1 | 0.807 | | 0.176 |
| Manganese | 7439-96-5 | 48.7 | | 1.56 |
| Molybdenum | 7439-98-7 | 4.70 | | 0.296 |
| Nickel | 7440-02-0 | 4.31 | | 0.537 |
| Selenium | 7782-49-2 | 0.276 | LJ, QX | 0.00738 |
| Thallium | 7440-28-0 | 0.00237 | QB-04 | 4.85E-4 |
| Vanadium | 7440-62-2 | 4.85 | | 0.0436 |
| Zinc | 7440-66-6 | 56.0 | U | 63.3 |



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| | | |
|--|--|--------------------------------------|
| Description: MFL-AM02-062524-HM | Lab ID: 4070134-25 | Sampled: 06/25/24 23:59 |
| Matrix: Air | Sample Volume: 2067.21 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 12:37 |

Comments: Q8504354 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.177 | SL | 0.0304 |
| Arsenic | 7440-38-2 | 1.06 | | 0.00737 |
| Barium | 7440-39-3 | 10.3 | | 0.842 |
| Beryllium | 7440-41-7 | 0.0390 | | 0.00252 |
| Cadmium | 7440-43-9 | 0.0449 | U | 0.0583 |
| Chromium | 7440-47-3 | 6.91 | | 1.74 |
| Cobalt | 7440-48-4 | 1.49 | | 0.0343 |
| Copper | 7440-50-8 | 89.7 | | 2.07 |
| Lead | 7439-92-1 | 2.72 | | 0.168 |
| Manganese | 7439-96-5 | 38.4 | | 1.49 |
| Molybdenum | 7439-98-7 | 2.50 | | 0.283 |
| Nickel | 7440-02-0 | 4.97 | | 0.513 |
| Selenium | 7782-49-2 | 0.246 | LJ, QX | 0.00705 |
| Thallium | 7440-28-0 | 0.00237 | QB-04 | 4.64E-4 |
| Vanadium | 7440-62-2 | 4.45 | | 0.0416 |
| Zinc | 7440-66-6 | 38.1 | U | 60.4 |



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AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM03-062524-HM | Lab ID: 4070134-26 | Sampled: 06/25/24 23:59 |
| Matrix: Air | Sample Volume: 2051.895 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 12:57 |

Comments: Q8504351 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0457 | SL | 0.0306 |
| Arsenic | 7440-38-2 | 0.272 | | 0.00743 |
| Barium | 7440-39-3 | 2.98 | | 0.848 |
| Beryllium | 7440-41-7 | 0.0241 | | 0.00254 |
| Cadmium | 7440-43-9 | 0.00771 | U | 0.0588 |
| Chromium | 7440-47-3 | 2.65 | | 1.75 |
| Cobalt | 7440-48-4 | 0.420 | | 0.0346 |
| Copper | 7440-50-8 | 87.4 | | 2.09 |
| Lead | 7439-92-1 | 0.406 | | 0.170 |
| Manganese | 7439-96-5 | 9.60 | | 1.50 |
| Molybdenum | 7439-98-7 | 3.15 | | 0.285 |
| Nickel | 7440-02-0 | 1.42 | | 0.517 |
| Selenium | 7782-49-2 | 0.139 | LJ, QX | 0.00710 |
| Thallium | 7440-28-0 | 7.88E-4 | QB-04 | 4.67E-4 |
| Vanadium | 7440-62-2 | 1.04 | | 0.0419 |
| Zinc | 7440-66-6 | 17.9 | U | 60.9 |



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM04-062524-HM | Lab ID: 4070134-27 | Sampled: 06/25/24 23:59 |
| Matrix: Air | Sample Volume: 1790.733 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 13:14 |

Comments: Q8504348 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0879 | SL | 0.0351 |
| Arsenic | 7440-38-2 | 0.462 | | 0.00851 |
| Barium | 7440-39-3 | 4.69 | | 0.972 |
| Beryllium | 7440-41-7 | 0.0137 | | 0.00291 |
| Cadmium | 7440-43-9 | 0.0168 | U | 0.0673 |
| Chromium | 7440-47-3 | 3.08 | | 2.01 |
| Cobalt | 7440-48-4 | 0.523 | | 0.0396 |
| Copper | 7440-50-8 | 37.7 | | 2.39 |
| Lead | 7439-92-1 | 1.08 | | 0.194 |
| Manganese | 7439-96-5 | 16.8 | | 1.72 |
| Molybdenum | 7439-98-7 | 1.56 | | 0.326 |
| Nickel | 7440-02-0 | 1.73 | | 0.592 |
| Selenium | 7782-49-2 | 0.162 | LJ, QX | 0.00814 |
| Thallium | 7440-28-0 | 0.00104 | QB-04 | 5.35E-4 |
| Vanadium | 7440-62-2 | 1.38 | | 0.0481 |
| Zinc | 7440-66-6 | 23.2 | U | 69.8 |



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM01-062624-HM | Lab ID: 4070134-28 | Sampled: 06/26/24 23:59 |
| Matrix: Air | Sample Volume: 1980.511 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 13:34 |

Comments: Q8504347 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0859 | SL | 0.0317 |
| Arsenic | 7440-38-2 | 1.57 | | 0.00770 |
| Barium | 7440-39-3 | 12.5 | | 0.879 |
| Beryllium | 7440-41-7 | 0.0464 | | 0.00263 |
| Cadmium | 7440-43-9 | 0.0270 | U | 0.0609 |
| Chromium | 7440-47-3 | 6.86 | | 1.82 |
| Cobalt | 7440-48-4 | 1.73 | | 0.0358 |
| Copper | 7440-50-8 | 138 | | 2.16 |
| Lead | 7439-92-1 | 1.22 | | 0.176 |
| Manganese | 7439-96-5 | 49.9 | | 1.55 |
| Molybdenum | 7439-98-7 | 4.94 | | 0.295 |
| Nickel | 7440-02-0 | 3.95 | | 0.536 |
| Selenium | 7782-49-2 | 0.299 | LJ, QX | 0.00736 |
| Thallium | 7440-28-0 | 0.00245 | QB-04 | 4.84E-4 |
| Vanadium | 7440-62-2 | 4.76 | | 0.0435 |
| Zinc | 7440-66-6 | 18.3 | U | 63.1 |



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Blue Bell, PA 19422

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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM02-062624-HM | Lab ID: 4070134-29 | Sampled: 06/26/24 23:59 |
| Matrix: Air | Sample Volume: 2013.065 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 13:53 |

Comments: Q8520661 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.132 | SL | 0.0312 |
| Arsenic | 7440-38-2 | 0.618 | | 0.00757 |
| Barium | 7440-39-3 | 5.03 | | 0.865 |
| Beryllium | 7440-41-7 | 0.0146 | | 0.00259 |
| Cadmium | 7440-43-9 | 0.0187 | U | 0.0599 |
| Chromium | 7440-47-3 | 2.50 | | 1.79 |
| Cobalt | 7440-48-4 | 0.475 | | 0.0352 |
| Copper | 7440-50-8 | 96.3 | | 2.13 |
| Lead | 7439-92-1 | 0.949 | | 0.173 |
| Manganese | 7439-96-5 | 14.1 | | 1.53 |
| Molybdenum | 7439-98-7 | 3.18 | | 0.290 |
| Nickel | 7440-02-0 | 1.65 | | 0.527 |
| Selenium | 7782-49-2 | 0.199 | LJ, QX | 0.00724 |
| Thallium | 7440-28-0 | 9.70E-4 | QB-04 | 4.76E-4 |
| Vanadium | 7440-62-2 | 1.56 | | 0.0428 |
| Zinc | 7440-66-6 | 15.5 | U | 62.1 |



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REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM03-062624-HM | Lab ID: 4070134-30 | Sampled: 06/26/24 23:59 |
| Matrix: Air | Sample Volume: 2002.695 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 14:32 |

Comments: Q8520655 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0837 | SL | 0.0314 |
| Arsenic | 7440-38-2 | 0.354 | | 0.00761 |
| Barium | 7440-39-3 | 4.25 | | 0.869 |
| Beryllium | 7440-41-7 | 0.0423 | | 0.00260 |
| Cadmium | 7440-43-9 | 0.00874 | U | 0.0602 |
| Chromium | 7440-47-3 | 3.10 | | 1.80 |
| Cobalt | 7440-48-4 | 0.624 | | 0.0354 |
| Copper | 7440-50-8 | 89.6 | | 2.14 |
| Lead | 7439-92-1 | 0.664 | | 0.174 |
| Manganese | 7439-96-5 | 16.1 | | 1.54 |
| Molybdenum | 7439-98-7 | 2.76 | | 0.292 |
| Nickel | 7440-02-0 | 1.91 | | 0.530 |
| Selenium | 7782-49-2 | 0.205 | LJ, QX | 0.00728 |
| Thallium | 7440-28-0 | 9.96E-4 | QB-04 | 4.79E-4 |
| Vanadium | 7440-62-2 | 1.78 | | 0.0430 |
| Zinc | 7440-66-6 | 13.7 | U | 62.4 |



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SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-AM04-062624-HM | Lab ID: 4070134-31 | Sampled: 06/26/24 23:59 |
| Matrix: Air | Sample Volume: 1743.18E m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 16:11 |

Comments: Q8520653 - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.151 | SL | 0.0360 |
| Arsenic | 7440-38-2 | 0.865 | | 0.00875 |
| Barium | 7440-39-3 | 6.90 | | 0.999 |
| Beryllium | 7440-41-7 | 0.0263 | | 0.00299 |
| Cadmium | 7440-43-9 | 0.0207 | U | 0.0692 |
| Chromium | 7440-47-3 | 4.09 | | 2.06 |
| Cobalt | 7440-48-4 | 0.856 | | 0.0407 |
| Copper | 7440-50-8 | 44.5 | LJ, QX | 2.45 |
| Lead | 7439-92-1 | 1.84 | | 0.200 |
| Manganese | 7439-96-5 | 28.9 | | 1.76 |
| Molybdenum | 7439-98-7 | 1.47 | | 0.335 |
| Nickel | 7440-02-0 | 2.43 | | 0.609 |
| Selenium | 7782-49-2 | 0.230 | LJ, QX | 0.00836 |
| Thallium | 7440-28-0 | 0.00147 | QB-04 | 5.50E-4 |
| Vanadium | 7440-62-2 | 2.35 | | 0.0494 |
| Zinc | 7440-66-6 | 23.5 | U | 71.7 |



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-FB01-062624-HM | Lab ID: 4070134-32 | Sampled: 06/26/24 00:00 |
| Matrix: Air | Sample Volume: 1980.511 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 16:30 |

Comments: Q8520647 - Field Blank - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0196 | SL, U | 0.0317 |
| Arsenic | 7440-38-2 | 0.00608 | U | 0.00770 |
| Barium | 7440-39-3 | 0.798 | U | 0.879 |
| Beryllium | 7440-41-7 | ND | U | 0.00263 |
| Cadmium | 7440-43-9 | 8.07E-4 | U | 0.0609 |
| Chromium | 7440-47-3 | 0.829 | U | 1.82 |
| Cobalt | 7440-48-4 | 0.0104 | U | 0.0358 |
| Copper | 7440-50-8 | 1.03 | LJ, QX, U | 2.16 |
| Lead | 7439-92-1 | 0.0476 | U | 0.176 |
| Manganese | 7439-96-5 | 0.193 | U | 1.55 |
| Molybdenum | 7439-98-7 | 0.160 | U | 0.295 |
| Nickel | 7440-02-0 | 0.381 | U | 0.536 |
| Selenium | 7782-49-2 | 9.37E-4 | LJ, QX, U | 0.00736 |
| Thallium | 7440-28-0 | 1.51E-4 | QB-04, U | 4.84E-4 |
| Vanadium | 7440-62-2 | 0.0132 | U | 0.0435 |
| Zinc | 7440-66-6 | 3.66 | U | 63.1 |



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FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| | | |
|--|---|--------------------------------------|
| Description: MFL-LB01-062624-HM | Lab ID: 4070134-33 | Sampled: 06/26/24 00:00 |
| Matrix: Air | Sample Volume: 1980.511 m ³ | Received: 07/01/24 15:07 |
| | Filter ID: | Analysis Date: 07/03/24 16:47 |

Comments: Q8520643 - Lot Blank - Received in good condition

Inorganics by Compendium Method IO-3.5

| Analyte | CAS Number | Results | | MDL |
|----------------|-------------------|-----------------------------|-------------|----------------|
| | | ng/m³ Air | Flag | |
| Antimony | 7440-36-0 | 0.0197 | SL, U | 0.0317 |
| Arsenic | 7440-38-2 | 0.00800 | FB-01 | 0.00770 |
| Barium | 7440-39-3 | 0.767 | U | 0.879 |
| Beryllium | 7440-41-7 | ND | U | 0.00263 |
| Cadmium | 7440-43-9 | 5.81E-4 | U | 0.0609 |
| Chromium | 7440-47-3 | 0.835 | U | 1.82 |
| Cobalt | 7440-48-4 | 0.0103 | U | 0.0358 |
| Copper | 7440-50-8 | 0.353 | LJ, QX, U | 2.16 |
| Lead | 7439-92-1 | 0.0236 | U | 0.176 |
| Manganese | 7439-96-5 | 0.162 | U | 1.55 |
| Molybdenum | 7439-98-7 | 0.152 | U | 0.295 |
| Nickel | 7440-02-0 | 0.379 | U | 0.536 |
| Selenium | 7782-49-2 | 0.00122 | LJ, QX, U | 0.00736 |
| Thallium | 7440-28-0 | 1.26E-4 | QB-04, U | 4.84E-4 |
| Vanadium | 7440-62-2 | 0.0141 | U | 0.0435 |
| Zinc | 7440-66-6 | 4.33 | U | 63.1 |



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Blue Bell, PA 19422

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CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001**REPORTED:** 07/09/24 14:35**SUBMITTED:** 07/01/24**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 2407015 - B4G0205

Calibration Blank (2407015-CCB1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|-------|------|--|--|--|--|--|--|--|-----------|
| Antimony | 0.397 | ng/l | | | | | | | | |
| Arsenic | 1.26 | ng/l | | | | | | | | |
| Barium | 2.48 | ng/l | | | | | | | | |
| Beryllium | -2.73 | ng/l | | | | | | | | U |
| Cadmium | 0.328 | ng/l | | | | | | | | |
| Chromium | 1.70 | ng/l | | | | | | | | |
| Cobalt | 0.439 | ng/l | | | | | | | | |
| Copper | 71.5 | ng/l | | | | | | | | |
| Lead | 4.54 | ng/l | | | | | | | | |
| Manganese | 7.05 | ng/l | | | | | | | | |
| Molybdenum | 24.4 | ng/l | | | | | | | | |
| Nickel | -3.20 | ng/l | | | | | | | | U |
| Selenium | -4.86 | ng/l | | | | | | | | LJ, QX, U |
| Thallium | 1.02 | ng/l | | | | | | | | |
| Vanadium | 30.6 | ng/l | | | | | | | | |
| Zinc | -53.2 | ng/l | | | | | | | | U |

Calibration Blank (2407015-CCB2)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|--------|------|--|--|--|--|--|--|--|-----------|
| Antimony | 0.147 | ng/l | | | | | | | | |
| Arsenic | -0.553 | ng/l | | | | | | | | U |
| Barium | 1.38 | ng/l | | | | | | | | |
| Beryllium | -3.58 | ng/l | | | | | | | | U |
| Cadmium | 0.0862 | ng/l | | | | | | | | |
| Chromium | 0.0157 | ng/l | | | | | | | | |
| Cobalt | 0.186 | ng/l | | | | | | | | |
| Copper | 66.8 | ng/l | | | | | | | | |
| Lead | 1.57 | ng/l | | | | | | | | |
| Manganese | 2.95 | ng/l | | | | | | | | |
| Molybdenum | 3.77 | ng/l | | | | | | | | |
| Nickel | -3.03 | ng/l | | | | | | | | U |
| Selenium | -1.87 | ng/l | | | | | | | | LJ, QX, U |
| Thallium | 0.785 | ng/l | | | | | | | | |
| Vanadium | 19.6 | ng/l | | | | | | | | |
| Zinc | -41.9 | ng/l | | | | | | | | U |

Calibration Blank (2407015-CCB3)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|-----------|-------|------|--|--|--|--|--|--|--|---|
| Antimony | 0.157 | ng/l | | | | | | | | |
| Arsenic | 4.10 | ng/l | | | | | | | | |
| Barium | 2.54 | ng/l | | | | | | | | |
| Beryllium | -3.66 | ng/l | | | | | | | | U |

Eastern Research Group

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1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

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PHONE: (703) 885-5495 FAX:

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 2407015 - B4G0205

Calibration Blank (2407015-CCB3) Contin

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | |
|------------|--------|------|-----------|
| Cadmium | 0.0736 | ng/l | |
| Chromium | 2.61 | ng/l | |
| Cobalt | 0.382 | ng/l | |
| Copper | 86.8 | ng/l | |
| Lead | 2.48 | ng/l | |
| Manganese | 4.83 | ng/l | |
| Molybdenum | 5.93 | ng/l | |
| Nickel | -0.335 | ng/l | U |
| Selenium | -1.64 | ng/l | LJ, QX, U |
| Thallium | 1.26 | ng/l | |
| Vanadium | 11.1 | ng/l | |
| Zinc | -51.3 | ng/l | U |

Calibration Blank (2407015-CCB4)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | |
|------------|---------|------|-----------|
| Antimony | -0.0191 | ng/l | U |
| Arsenic | 6.79 | ng/l | |
| Barium | 2.09 | ng/l | |
| Beryllium | -4.19 | ng/l | U |
| Cadmium | 0.0989 | ng/l | |
| Chromium | 1.79 | ng/l | |
| Cobalt | 0.294 | ng/l | |
| Copper | 74.6 | ng/l | |
| Lead | 1.95 | ng/l | |
| Manganese | 4.35 | ng/l | |
| Molybdenum | 6.45 | ng/l | |
| Nickel | 0.136 | ng/l | |
| Selenium | -8.82 | ng/l | LJ, QX, U |
| Thallium | 0.810 | ng/l | |
| Vanadium | -4.79 | ng/l | U |
| Zinc | -52.4 | ng/l | U |

Calibration Blank (2407015-CCB5)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | |
|-----------|---------|------|---|
| Antimony | 0.189 | ng/l | |
| Arsenic | -0.0274 | ng/l | U |
| Barium | 2.40 | ng/l | |
| Beryllium | -4.13 | ng/l | U |
| Cadmium | 0.223 | ng/l | |
| Chromium | 1.89 | ng/l | |
| Cobalt | 0.396 | ng/l | |
| Copper | 69.9 | ng/l | |

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CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001**REPORTED:** 07/09/24 14:35**SUBMITTED:** 07/01/24**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 2407015 - B4G0205

Calibration Blank (2407015-CCB5) Contin

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | |
|------------|-------|------|--------|
| Lead | 2.03 | ng/l | |
| Manganese | 3.66 | ng/l | |
| Molybdenum | 5.69 | ng/l | |
| Nickel | -3.20 | ng/l | U |
| Selenium | 0.152 | ng/l | LJ, QX |
| Thallium | 0.934 | ng/l | |
| Vanadium | -28.3 | ng/l | U |
| Zinc | 37.2 | ng/l | |

Calibration Blank (2407015-CCB6)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | |
|------------|-------|------|-----------|
| Antimony | 0.516 | ng/l | |
| Arsenic | -2.03 | ng/l | U |
| Barium | 5.24 | ng/l | |
| Beryllium | -4.61 | ng/l | U |
| Cadmium | 0.339 | ng/l | |
| Chromium | 4.08 | ng/l | |
| Cobalt | 0.894 | ng/l | |
| Copper | 139 | ng/l | |
| Lead | 4.46 | ng/l | |
| Manganese | 11.3 | ng/l | |
| Molybdenum | 10.8 | ng/l | |
| Nickel | 1.28 | ng/l | |
| Selenium | -2.45 | ng/l | LJ, QX, U |
| Thallium | 1.41 | ng/l | QB-04 |
| Vanadium | -40.8 | ng/l | U |
| Zinc | -41.1 | ng/l | U |

Calibration Blank (2407015-CCB7)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | |
|------------|-------|------|---|
| Antimony | 0.424 | ng/l | |
| Arsenic | 0.485 | ng/l | |
| Barium | 4.91 | ng/l | |
| Beryllium | -4.14 | ng/l | U |
| Cadmium | 0.389 | ng/l | |
| Chromium | 2.90 | ng/l | |
| Cobalt | 0.805 | ng/l | |
| Copper | 106 | ng/l | |
| Lead | 3.84 | ng/l | |
| Manganese | 8.93 | ng/l | |
| Molybdenum | 9.73 | ng/l | |
| Nickel | -1.73 | ng/l | U |

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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:

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 2407015 - B4G0205

Calibration Blank (2407015-CCB7) Contin

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|----------|-------|------|--|--|--|--|--|--|--|--------|
| Selenium | 11.3 | ng/l | | | | | | | | LJ, QX |
| Thallium | 1.56 | ng/l | | | | | | | | QB-04 |
| Vanadium | -49.7 | ng/l | | | | | | | | U |
| Zinc | -38.1 | ng/l | | | | | | | | U |

Calibration Check (2407015-CCV1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|--------|------|----------|------|--------|--|--|--|--|--------|
| Antimony | 20200 | ng/l | 20000 | 101 | 90-110 | | | | | |
| Arsenic | 20100 | ng/l | 20000 | 100 | 90-110 | | | | | |
| Barium | 200000 | ng/l | 200000 | 99.8 | 90-110 | | | | | |
| Beryllium | 5000 | ng/l | 5000.0 | 100 | 90-110 | | | | | |
| Cadmium | 20500 | ng/l | 20000 | 103 | 90-110 | | | | | |
| Chromium | 244000 | ng/l | 240000 | 102 | 90-110 | | | | | |
| Cobalt | 51100 | ng/l | 50000 | 102 | 90-110 | | | | | |
| Copper | 2.06E6 | ng/l | 2.0000E6 | 103 | 90-110 | | | | | |
| Lead | 200000 | ng/l | 200000 | 100 | 90-110 | | | | | |
| Manganese | 510000 | ng/l | 500000 | 102 | 90-110 | | | | | |
| Molybdenum | 50600 | ng/l | 50000 | 101 | 90-110 | | | | | |
| Nickel | 124000 | ng/l | 120000 | 103 | 90-110 | | | | | |
| Selenium | 19800 | ng/l | 20000 | 99.1 | 90-110 | | | | | LJ, QX |
| Thallium | 492 | ng/l | 500.00 | 98.4 | 90-110 | | | | | |
| Vanadium | 20100 | ng/l | 20000 | 101 | 90-110 | | | | | |
| Zinc | 516000 | ng/l | 500000 | 103 | 90-110 | | | | | |

Calibration Check (2407015-CCV2)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|--------|------|----------|------|--------|--|--|--|--|--------|
| Antimony | 20400 | ng/l | 20000 | 102 | 90-110 | | | | | |
| Arsenic | 20100 | ng/l | 20000 | 100 | 90-110 | | | | | |
| Barium | 203000 | ng/l | 200000 | 102 | 90-110 | | | | | |
| Beryllium | 4960 | ng/l | 5000.0 | 99.2 | 90-110 | | | | | |
| Cadmium | 20500 | ng/l | 20000 | 103 | 90-110 | | | | | |
| Chromium | 247000 | ng/l | 240000 | 103 | 90-110 | | | | | |
| Cobalt | 50300 | ng/l | 50000 | 101 | 90-110 | | | | | |
| Copper | 2.06E6 | ng/l | 2.0000E6 | 103 | 90-110 | | | | | |
| Lead | 202000 | ng/l | 200000 | 101 | 90-110 | | | | | |
| Manganese | 509000 | ng/l | 500000 | 102 | 90-110 | | | | | |
| Molybdenum | 51200 | ng/l | 50000 | 102 | 90-110 | | | | | |
| Nickel | 122000 | ng/l | 120000 | 102 | 90-110 | | | | | |
| Selenium | 20300 | ng/l | 20000 | 101 | 90-110 | | | | | LJ, QX |
| Thallium | 488 | ng/l | 500.00 | 97.7 | 90-110 | | | | | |
| Vanadium | 20200 | ng/l | 20000 | 101 | 90-110 | | | | | |
| Zinc | 515000 | ng/l | 500000 | 103 | 90-110 | | | | | |

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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:**

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001**REPORTED:** 07/09/24 14:35**SUBMITTED:** 07/01/24**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 2407015 - B4G0205

Calibration Check (2407015-CCV3)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|--------|------|----------|------|--------|--|--|--|--|--------|
| Antimony | 20500 | ng/l | 20000 | 102 | 90-110 | | | | | |
| Arsenic | 20100 | ng/l | 20000 | 100 | 90-110 | | | | | |
| Barium | 204000 | ng/l | 200000 | 102 | 90-110 | | | | | |
| Beryllium | 5060 | ng/l | 5000.0 | 101 | 90-110 | | | | | |
| Cadmium | 20700 | ng/l | 20000 | 104 | 90-110 | | | | | |
| Chromium | 247000 | ng/l | 240000 | 103 | 90-110 | | | | | |
| Cobalt | 50900 | ng/l | 50000 | 102 | 90-110 | | | | | |
| Copper | 2.08E6 | ng/l | 2.0000E6 | 104 | 90-110 | | | | | |
| Lead | 204000 | ng/l | 200000 | 102 | 90-110 | | | | | |
| Manganese | 512000 | ng/l | 500000 | 102 | 90-110 | | | | | |
| Molybdenum | 51700 | ng/l | 50000 | 103 | 90-110 | | | | | |
| Nickel | 124000 | ng/l | 120000 | 103 | 90-110 | | | | | |
| Selenium | 19800 | ng/l | 20000 | 99.2 | 90-110 | | | | | LJ, QX |
| Thallium | 489 | ng/l | 500.00 | 97.8 | 90-110 | | | | | |
| Vanadium | 20400 | ng/l | 20000 | 102 | 90-110 | | | | | |
| Zinc | 517000 | ng/l | 500000 | 103 | 90-110 | | | | | |

Calibration Check (2407015-CCV4)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|--------|------|----------|------|--------|--|--|--|--|--------|
| Antimony | 20900 | ng/l | 20000 | 104 | 90-110 | | | | | |
| Arsenic | 20600 | ng/l | 20000 | 103 | 90-110 | | | | | |
| Barium | 204000 | ng/l | 200000 | 102 | 90-110 | | | | | |
| Beryllium | 5050 | ng/l | 5000.0 | 101 | 90-110 | | | | | |
| Cadmium | 21100 | ng/l | 20000 | 105 | 90-110 | | | | | |
| Chromium | 251000 | ng/l | 240000 | 105 | 90-110 | | | | | |
| Cobalt | 51300 | ng/l | 50000 | 103 | 90-110 | | | | | |
| Copper | 2.14E6 | ng/l | 2.0000E6 | 107 | 90-110 | | | | | |
| Lead | 206000 | ng/l | 200000 | 103 | 90-110 | | | | | |
| Manganese | 526000 | ng/l | 500000 | 105 | 90-110 | | | | | |
| Molybdenum | 52400 | ng/l | 50000 | 105 | 90-110 | | | | | |
| Nickel | 125000 | ng/l | 120000 | 104 | 90-110 | | | | | |
| Selenium | 20300 | ng/l | 20000 | 101 | 90-110 | | | | | LJ, QX |
| Thallium | 479 | ng/l | 500.00 | 95.8 | 90-110 | | | | | |
| Vanadium | 20700 | ng/l | 20000 | 103 | 90-110 | | | | | |
| Zinc | 525000 | ng/l | 500000 | 105 | 90-110 | | | | | |

Calibration Check (2407015-CCV5)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|-----------|--------|------|--------|-----|--------|--|--|--|--|--|
| Antimony | 20800 | ng/l | 20000 | 104 | 90-110 | | | | | |
| Arsenic | 20400 | ng/l | 20000 | 102 | 90-110 | | | | | |
| Barium | 205000 | ng/l | 200000 | 103 | 90-110 | | | | | |
| Beryllium | 5250 | ng/l | 5000.0 | 105 | 90-110 | | | | | |

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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:

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 2407015 - B4G0205

Calibration Check (2407015-CCV5) Contir

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|--------|------|----------|--|------|--------|--|--|--|--------|
| Cadmium | 21200 | ng/l | 20000 | | 106 | 90-110 | | | | |
| Chromium | 252000 | ng/l | 240000 | | 105 | 90-110 | | | | |
| Cobalt | 51300 | ng/l | 50000 | | 103 | 90-110 | | | | |
| Copper | 2.15E6 | ng/l | 2.0000E6 | | 108 | 90-110 | | | | |
| Lead | 206000 | ng/l | 200000 | | 103 | 90-110 | | | | |
| Manganese | 525000 | ng/l | 500000 | | 105 | 90-110 | | | | |
| Molybdenum | 53500 | ng/l | 50000 | | 107 | 90-110 | | | | |
| Nickel | 125000 | ng/l | 120000 | | 104 | 90-110 | | | | |
| Selenium | 20300 | ng/l | 20000 | | 102 | 90-110 | | | | LJ, QX |
| Thallium | 473 | ng/l | 500.00 | | 94.6 | 90-110 | | | | |
| Vanadium | 20600 | ng/l | 20000 | | 103 | 90-110 | | | | |
| Zinc | 529000 | ng/l | 500000 | | 106 | 90-110 | | | | |

Calibration Check (2407015-CCV6)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|--------|------|----------|--|------|--------|--|--|--|--------|
| Antimony | 20800 | ng/l | 20000 | | 104 | 90-110 | | | | |
| Arsenic | 20700 | ng/l | 20000 | | 104 | 90-110 | | | | |
| Barium | 206000 | ng/l | 200000 | | 103 | 90-110 | | | | |
| Beryllium | 5090 | ng/l | 5000.0 | | 102 | 90-110 | | | | |
| Cadmium | 21400 | ng/l | 20000 | | 107 | 90-110 | | | | |
| Chromium | 257000 | ng/l | 240000 | | 107 | 90-110 | | | | |
| Cobalt | 52300 | ng/l | 50000 | | 105 | 90-110 | | | | |
| Copper | 2.21E6 | ng/l | 2.0000E6 | | 110 | 90-110 | | | | |
| Lead | 208000 | ng/l | 200000 | | 104 | 90-110 | | | | |
| Manganese | 536000 | ng/l | 500000 | | 107 | 90-110 | | | | |
| Molybdenum | 54300 | ng/l | 50000 | | 109 | 90-110 | | | | |
| Nickel | 127000 | ng/l | 120000 | | 106 | 90-110 | | | | |
| Selenium | 20600 | ng/l | 20000 | | 103 | 90-110 | | | | LJ, QX |
| Thallium | 475 | ng/l | 500.00 | | 95.0 | 90-110 | | | | |
| Vanadium | 21000 | ng/l | 20000 | | 105 | 90-110 | | | | |
| Zinc | 537000 | ng/l | 500000 | | 107 | 90-110 | | | | |

Calibration Check (2407015-CCV7)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|-----------|--------|------|----------|--|-----|--------|--|--|--|--------|
| Antimony | 21000 | ng/l | 20000 | | 105 | 90-110 | | | | |
| Arsenic | 20900 | ng/l | 20000 | | 105 | 90-110 | | | | |
| Barium | 212000 | ng/l | 200000 | | 106 | 90-110 | | | | |
| Beryllium | 5090 | ng/l | 5000.0 | | 102 | 90-110 | | | | |
| Cadmium | 21400 | ng/l | 20000 | | 107 | 90-110 | | | | |
| Chromium | 258000 | ng/l | 240000 | | 108 | 90-110 | | | | |
| Cobalt | 52300 | ng/l | 50000 | | 105 | 90-110 | | | | |
| Copper | 2.22E6 | ng/l | 2.0000E6 | | 111 | 90-110 | | | | LJ, QX |

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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:

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 2407015 - B4G0205

Calibration Check (2407015-CCV7) Contir

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|--------|------|--------|--|------|--------|--|--|--|--------|
| Lead | 208000 | ng/l | 200000 | | 104 | 90-110 | | | | |
| Manganese | 529000 | ng/l | 500000 | | 106 | 90-110 | | | | |
| Molybdenum | 54900 | ng/l | 50000 | | 110 | 90-110 | | | | |
| Nickel | 127000 | ng/l | 120000 | | 106 | 90-110 | | | | |
| Selenium | 20800 | ng/l | 20000 | | 104 | 90-110 | | | | |
| Thallium | 477 | ng/l | 500.00 | | 95.4 | 90-110 | | | | LJ, QX |
| Vanadium | 21100 | ng/l | 20000 | | 106 | 90-110 | | | | |
| Zinc | 540000 | ng/l | 500000 | | 108 | 90-110 | | | | |

High Cal Check (2407015-HCV1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|--------|------|----------|--|------|--------|--|--|--|--------|
| Antimony | 40300 | ng/l | 40000 | | 101 | 95-105 | | | | |
| Arsenic | 40200 | ng/l | 40000 | | 100 | 95-105 | | | | |
| Barium | 399000 | ng/l | 400000 | | 99.8 | 95-105 | | | | |
| Beryllium | 9910 | ng/l | 10000 | | 99.1 | 95-105 | | | | |
| Cadmium | 40300 | ng/l | 40000 | | 101 | 95-105 | | | | |
| Chromium | 488000 | ng/l | 480000 | | 102 | 95-105 | | | | |
| Cobalt | 100000 | ng/l | 100000 | | 100 | 95-105 | | | | |
| Copper | 4.00E6 | ng/l | 4.0000E6 | | 100 | 95-105 | | | | |
| Lead | 404000 | ng/l | 400000 | | 101 | 95-105 | | | | |
| Manganese | 1.01E6 | ng/l | 1.0000E6 | | 101 | 95-105 | | | | |
| Molybdenum | 100000 | ng/l | 100000 | | 100 | 95-105 | | | | |
| Nickel | 241000 | ng/l | 240000 | | 101 | 95-105 | | | | |
| Selenium | 39600 | ng/l | 40000 | | 99.0 | 95-105 | | | | LJ, QX |
| Thallium | 1010 | ng/l | 1000.0 | | 101 | 95-105 | | | | |
| Vanadium | 40600 | ng/l | 40000 | | 102 | 95-105 | | | | |
| Zinc | 1.00E6 | ng/l | 1.0000E6 | | 100 | 95-105 | | | | |

Initial Cal Blank (2407015-ICB1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|---------|------|--|--|--|--|--|--|--|---|
| Antimony | 0.308 | ng/l | | | | | | | | |
| Arsenic | -3.65 | ng/l | | | | | | | | U |
| Barium | 1.02 | ng/l | | | | | | | | |
| Beryllium | -2.18 | ng/l | | | | | | | | U |
| Cadmium | 0.138 | ng/l | | | | | | | | |
| Chromium | -0.0522 | ng/l | | | | | | | | U |
| Cobalt | 0.155 | ng/l | | | | | | | | |
| Copper | 159 | ng/l | | | | | | | | |
| Lead | 2.23 | ng/l | | | | | | | | |
| Manganese | 7.80 | ng/l | | | | | | | | |
| Molybdenum | 7.85 | ng/l | | | | | | | | |
| Nickel | -4.51 | ng/l | | | | | | | | U |

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1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

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

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001**REPORTED:** 07/09/24 14:35**SUBMITTED:** 07/01/24**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 2407015 - B4G0205

Initial Cal Blank (2407015-ICB1) Continu

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|----------|-------|------|--|--|--|--|--|--|--|--------|
| Selenium | 9.11 | ng/l | | | | | | | | LJ, QX |
| Thallium | 0.878 | ng/l | | | | | | | | |
| Vanadium | 46.2 | ng/l | | | | | | | | |
| Zinc | -54.6 | ng/l | | | | | | | | U |

Initial Cal Check (2407015-ICV1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|--------|------|----------|------|--------|--|--|--|--|--------|
| Antimony | 19800 | ng/l | 20000 | 98.8 | 90-110 | | | | | |
| Arsenic | 19400 | ng/l | 20000 | 97.0 | 90-110 | | | | | |
| Barium | 197000 | ng/l | 200000 | 98.4 | 90-110 | | | | | |
| Beryllium | 5170 | ng/l | 5000.0 | 103 | 90-110 | | | | | |
| Cadmium | 20800 | ng/l | 20000 | 104 | 90-110 | | | | | |
| Chromium | 244000 | ng/l | 240000 | 102 | 90-110 | | | | | |
| Cobalt | 48700 | ng/l | 50000 | 97.3 | 90-110 | | | | | |
| Copper | 2.02E6 | ng/l | 2.0000E6 | 101 | 90-110 | | | | | |
| Lead | 198000 | ng/l | 200000 | 99.1 | 90-110 | | | | | |
| Manganese | 496000 | ng/l | 500000 | 99.2 | 90-110 | | | | | |
| Molybdenum | 49700 | ng/l | 50000 | 99.5 | 90-110 | | | | | |
| Nickel | 120000 | ng/l | 120000 | 100 | 90-110 | | | | | |
| Selenium | 20200 | ng/l | 20000 | 101 | 90-110 | | | | | LJ, QX |
| Thallium | 500 | ng/l | 500.00 | 99.9 | 90-110 | | | | | |
| Vanadium | 20100 | ng/l | 20000 | 100 | 90-110 | | | | | |
| Zinc | 520000 | ng/l | 500000 | 104 | 90-110 | | | | | |

Interference Check A (2407015-IFA1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|--------|------|--------|-----|--------|--|--|--|--|-----------|
| 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 |
| 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 | 320000 | ng/l | 300000 | 107 | 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 |

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CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 2407015 - B4G0205

Interference Check B (2407015-IFB1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|------|--------|--|--|--|--------|
| Antimony | 20300 | | ng/l | 20000 | 102 | 80-120 | | | | |
| Arsenic | 20300 | | ng/l | 20000 | 101 | 80-120 | | | | |
| Barium | 202000 | | ng/l | 200000 | 101 | 80-120 | | | | |
| Beryllium | 4940 | | ng/l | 5000.0 | 98.8 | 80-120 | | | | |
| Cadmium | 19900 | | ng/l | 20000 | 99.4 | 80-120 | | | | |
| Chromium | 235000 | | ng/l | 240000 | 97.9 | 80-120 | | | | |
| Cobalt | 49200 | | ng/l | 50000 | 98.4 | 80-120 | | | | |
| Copper | 1.90E6 | | ng/l | 2.0000E6 | 95.2 | 80-120 | | | | |
| Lead | 209000 | | ng/l | 200000 | 104 | 80-120 | | | | |
| Manganese | 514000 | | ng/l | 500000 | 103 | 80-120 | | | | |
| Molybdenum | 372000 | | ng/l | 350000 | 106 | 80-120 | | | | |
| Nickel | 117000 | | ng/l | 120000 | 97.1 | 80-120 | | | | |
| Selenium | 18800 | | ng/l | 20000 | 94.0 | 80-120 | | | | LJ, QX |
| Thallium | 521 | | ng/l | 500.00 | 104 | 80-120 | | | | |
| Vanadium | 19500 | | ng/l | 20000 | 97.3 | 80-120 | | | | |
| Zinc | 469000 | | ng/l | 500000 | 93.8 | 80-120 | | | | |

Batch B4G0205 - ICP-MS Extraction

Blank (B4G0205-BLK1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|----|---------|-----------------------|--|--|--|--|--|--|-----------|
| 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 | 0.0741 | ng/m ³ Air | | | | | | | U |
| Chromium | ND | 2.21 | ng/m ³ Air | | | | | | | U |
| Cobalt | ND | 0.0436 | ng/m ³ Air | | | | | | | U |
| 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 | | | | | | | U |
| Selenium | ND | 0.00896 | ng/m ³ Air | | | | | | | LJ, QX, U |
| Thallium | ND | 5.89E-4 | ng/m ³ Air | | | | | | | U |
| Vanadium | ND | 0.0529 | ng/m ³ Air | | | | | | | U |
| Zinc | ND | 76.8 | ng/m ³ Air | | | | | | | U |

LCS (B4G0205-BS1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|----------|-------|---------|-----------------------|--------|------|--------|--|--|--|----|
| Antimony | 0.642 | 0.0386 | ng/m ³ Air | 1.3829 | 46.4 | 80-120 | | | | SL |
| Arsenic | 2.68 | 0.00937 | ng/m ³ Air | 2.7658 | 96.9 | 80-120 | | | | |
| Barium | 28.1 | 1.07 | ng/m ³ Air | 27.658 | 102 | 80-120 | | | | |

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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:

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 B4G0205 - ICP-MS Extraction

LCS (B4G0205-BS1) Continued

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|------|--------|--|--|--|--------|
| Beryllium | 1.35 | 0.00320 | ng/m ³ Air | 1.3829 | 97.4 | 80-120 | | | | |
| Cadmium | 1.40 | 0.0741 | ng/m ³ Air | 1.3829 | 101 | 80-120 | | | | |
| Chromium | 15.4 | 2.21 | ng/m ³ Air | 13.829 | 112 | 80-120 | | | | |
| Cobalt | 1.39 | 0.0436 | ng/m ³ Air | 1.3829 | 101 | 80-120 | | | | |
| Copper | 28.9 | 2.63 | ng/m ³ Air | 27.658 | 104 | 80-120 | | | | |
| Lead | 13.4 | 0.214 | ng/m ³ Air | 13.829 | 97.2 | 80-120 | | | | |
| Manganese | 8.35 | 1.89 | ng/m ³ Air | 8.2975 | 101 | 80-120 | | | | |
| Molybdenum | 1.59 | 0.359 | ng/m ³ Air | 1.3829 | 115 | 80-120 | | | | |
| Nickel | 3.21 | 0.652 | ng/m ³ Air | 2.7658 | 116 | 80-120 | | | | |
| Selenium | 2.64 | 0.00896 | ng/m ³ Air | 2.7658 | 95.5 | 80-120 | | | | LJ, QX |
| Thallium | 0.133 | 5.89E-4 | ng/m ³ Air | 0.13829 | 96.1 | 80-120 | | | | |
| Vanadium | 2.74 | 0.0529 | ng/m ³ Air | 2.7658 | 99.1 | 80-120 | | | | |
| Zinc | 96.0 | 76.8 | ng/m ³ Air | 82.975 | 116 | 80-120 | | | | |

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|------|--------|--|--|--|--------|
| Antimony | 0.652 | 0.0386 | ng/m ³ Air | 1.3829 | 47.2 | 80-120 | | | | SL |
| Arsenic | 2.73 | 0.00937 | ng/m ³ Air | 2.7658 | 98.6 | 80-120 | | | | |
| Barium | 29.0 | 1.07 | ng/m ³ Air | 27.658 | 105 | 80-120 | | | | |
| Beryllium | 1.36 | 0.00320 | ng/m ³ Air | 1.3829 | 98.6 | 80-120 | | | | |
| Cadmium | 1.43 | 0.0741 | ng/m ³ Air | 1.3829 | 104 | 80-120 | | | | |
| Chromium | 15.8 | 2.21 | ng/m ³ Air | 13.829 | 115 | 80-120 | | | | |
| Cobalt | 1.42 | 0.0436 | ng/m ³ Air | 1.3829 | 103 | 80-120 | | | | |
| Copper | 29.3 | 2.63 | ng/m ³ Air | 27.658 | 106 | 80-120 | | | | |
| Lead | 13.7 | 0.214 | ng/m ³ Air | 13.829 | 98.9 | 80-120 | | | | |
| Manganese | 8.50 | 1.89 | ng/m ³ Air | 8.2975 | 102 | 80-120 | | | | |
| Molybdenum | 1.63 | 0.359 | ng/m ³ Air | 1.3829 | 118 | 80-120 | | | | |
| Nickel | 3.21 | 0.652 | ng/m ³ Air | 2.7658 | 116 | 80-120 | | | | |
| Selenium | 2.68 | 0.00896 | ng/m ³ Air | 2.7658 | 96.9 | 80-120 | | | | LJ, QX |
| Thallium | 0.134 | 5.89E-4 | ng/m ³ Air | 0.13829 | 97.0 | 80-120 | | | | |
| Vanadium | 2.82 | 0.0529 | ng/m ³ Air | 2.7658 | 102 | 80-120 | | | | |
| Zinc | 95.1 | 76.8 | ng/m ³ Air | 82.975 | 115 | 80-120 | | | | |

Duplicate (B4G0205-DUP1) **Source: 4070134-18** Prepared & Analyzed: 07/02/24

| | | | | | | | |
|-----------|--------|---------|-----------------------|--------|--------|----|----|
| Antimony | 0.108 | 0.0361 | ng/m ³ Air | 0.0865 | 22.5 | 10 | SL |
| Arsenic | 0.342 | 0.00877 | ng/m ³ Air | 0.352 | 2.71 | 10 | |
| Barium | 3.72 | 1.00 | ng/m ³ Air | 3.53 | 5.09 | 10 | |
| Beryllium | 0.0122 | 0.00299 | ng/m ³ Air | 0.0122 | 0.0353 | 10 | |
| Cadmium | ND | 0.0693 | ng/m ³ Air | ND | | 10 | U |
| Chromium | 2.51 | 2.07 | ng/m ³ Air | 2.53 | 0.607 | 10 | |
| Cobalt | 0.406 | 0.0408 | ng/m ³ Air | 0.395 | 2.85 | 10 | |

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1777 Sentry Pkwy, Bldg 12

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CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 B4G0205 - ICP-MS Extraction***Duplicate (B4G0205-DUP1) Continued Source: 4070134-18 Prepared & Analyzed: 07/02/24**

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|---------|--|-------|----|--------|--|--|
| Copper | 30.7 | 2.46 | ng/m ³ Air | 27.5 | | 11.0 | 10 | | | |
| Lead | 0.783 | 0.200 | ng/m ³ Air | 0.652 | | 18.3 | 10 | | | |
| Manganese | 12.7 | 1.77 | ng/m ³ Air | 12.2 | | 3.68 | 10 | | | |
| Molybdenum | 1.45 | 0.336 | ng/m ³ Air | 1.48 | | 2.61 | 10 | | | |
| Nickel | 1.32 | 0.610 | ng/m ³ Air | 1.30 | | 1.98 | 10 | | | |
| Selenium | 0.144 | 0.00838 | ng/m ³ Air | 0.159 | | 9.77 | 10 | LJ, QX | | |
| Thallium | 0.00103 | 5.51E-4 | ng/m ³ Air | 0.00110 | | 6.98 | 10 | | | |
| Vanadium | 1.04 | 0.0495 | ng/m ³ Air | 1.03 | | 0.734 | 10 | | | |
| Zinc | ND | 71.9 | ng/m ³ Air | ND | | 10 | U | | | |

Duplicate (B4G0205-DUP3) Source: 4070134-21 Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|---------|--|-------|----|--------|--|--|
| Antimony | 0.0565 | 0.0313 | ng/m ³ Air | 0.0573 | | 1.39 | 10 | SL | | |
| Arsenic | 0.318 | 0.00761 | ng/m ³ Air | 0.320 | | 0.798 | 10 | | | |
| Barium | 3.61 | 0.869 | ng/m ³ Air | 3.62 | | 0.370 | 10 | | | |
| Beryllium | 0.0465 | 0.00260 | ng/m ³ Air | 0.0448 | | 3.74 | 10 | | | |
| Cadmium | ND | 0.0602 | ng/m ³ Air | ND | | 10 | U | | | |
| Chromium | 3.39 | 1.79 | ng/m ³ Air | 3.39 | | 0.232 | 10 | | | |
| Cobalt | 0.602 | 0.0354 | ng/m ³ Air | 0.604 | | 0.328 | 10 | | | |
| Copper | 74.6 | 2.14 | ng/m ³ Air | 74.8 | | 0.310 | 10 | | | |
| Lead | 0.461 | 0.174 | ng/m ³ Air | 0.460 | | 0.232 | 10 | | | |
| Manganese | 13.2 | 1.53 | ng/m ³ Air | 13.3 | | 0.161 | 10 | | | |
| Molybdenum | 3.01 | 0.291 | ng/m ³ Air | 3.00 | | 0.414 | 10 | | | |
| Nickel | 1.79 | 0.529 | ng/m ³ Air | 1.81 | | 0.614 | 10 | | | |
| Selenium | 0.163 | 0.00727 | ng/m ³ Air | 0.176 | | 8.10 | 10 | LJ, QX | | |
| Thallium | 9.60E-4 | 4.78E-4 | ng/m ³ Air | 8.46E-4 | | 12.6 | 10 | | | |
| Vanadium | 1.61 | 0.0429 | ng/m ³ Air | 1.62 | | 0.288 | 10 | | | |
| Zinc | ND | 62.3 | ng/m ³ Air | ND | | 10 | U | | | |

Duplicate (B4G0205-DUP4) Source: 4070134-29 Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|--------|--|---------|----|----|--|--|
| Antimony | 0.133 | 0.0312 | ng/m ³ Air | 0.132 | | 0.982 | 10 | SL | | |
| Arsenic | 0.618 | 0.00757 | ng/m ³ Air | 0.618 | | 0.00746 | 10 | | | |
| Barium | 5.11 | 0.865 | ng/m ³ Air | 5.03 | | 1.71 | 10 | | | |
| Beryllium | 0.0145 | 0.00259 | ng/m ³ Air | 0.0146 | | 0.652 | 10 | | | |
| Cadmium | ND | 0.0599 | ng/m ³ Air | ND | | 10 | U | | | |
| Chromium | 2.49 | 1.79 | ng/m ³ Air | 2.50 | | 0.0516 | 10 | | | |
| Cobalt | 0.475 | 0.0352 | ng/m ³ Air | 0.475 | | 0.0571 | 10 | | | |
| Copper | 96.6 | 2.13 | ng/m ³ Air | 96.3 | | 0.372 | 10 | | | |
| Lead | 0.956 | 0.173 | ng/m ³ Air | 0.949 | | 0.707 | 10 | | | |
| Manganese | 14.1 | 1.53 | ng/m ³ Air | 14.1 | | 0.139 | 10 | | | |
| Molybdenum | 3.20 | 0.290 | ng/m ³ Air | 3.18 | | 0.671 | 10 | | | |

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CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 B4G0205 - ICP-MS Extraction***Duplicate (B4G0205-DUP4) Continued Source: 4070134-29 Prepared: 07/02/24 Analyzed: 07/03/24**

| | | | | | | | | | | |
|----------|---------|---------|-----------------------|---------|--|--------|----|--------|--|--|
| Nickel | 1.65 | 0.527 | ng/m ³ Air | 1.65 | | 0.0660 | 10 | | | |
| Selenium | 0.207 | 0.00724 | ng/m ³ Air | 0.199 | | 3.60 | 10 | LJ, QX | | |
| Thallium | 9.86E-4 | 4.76E-4 | ng/m ³ Air | 9.70E-4 | | 1.65 | 10 | QB-04 | | |
| Vanadium | 1.57 | 0.0428 | ng/m ³ Air | 1.56 | | 0.513 | 10 | | | |
| Zinc | ND | 62.1 | ng/m ³ Air | ND | | | 10 | U | | |

Duplicate (B4G0205-DUP5) Source: 4070134-06R Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|---------|--|-------|----|-----------|--|--|
| Antimony | 0.217 | 0.0626 | ng/m ³ Air | 0.237 | | 8.91 | 10 | D, SL | | |
| Arsenic | 13.3 | 0.0152 | ng/m ³ Air | 13.4 | | 0.757 | 10 | D | | |
| Barium | 16.7 | 1.74 | ng/m ³ Air | 18.3 | | 8.82 | 10 | D | | |
| Beryllium | 0.0545 | 0.00519 | ng/m ³ Air | 0.0535 | | 1.74 | 10 | D | | |
| Cadmium | ND | 0.120 | ng/m ³ Air | ND | | | 10 | D, U | | |
| Chromium | 11.3 | 3.59 | ng/m ³ Air | 11.9 | | 5.62 | 10 | D | | |
| Cobalt | 2.00 | 0.0707 | ng/m ³ Air | 2.01 | | 0.266 | 10 | D | | |
| Copper | 169 | 4.27 | ng/m ³ Air | 166 | | 2.16 | 10 | D, LJ, QX | | |
| Lead | 2.17 | 0.347 | ng/m ³ Air | 2.37 | | 8.70 | 10 | D | | |
| Manganese | 54.1 | 3.07 | ng/m ³ Air | 54.7 | | 1.18 | 10 | D | | |
| Molybdenum | 6.10 | 0.582 | ng/m ³ Air | 5.82 | | 4.73 | 10 | D | | |
| Nickel | 5.20 | 1.06 | ng/m ³ Air | 5.36 | | 3.01 | 10 | D | | |
| Selenium | 0.312 | 0.0145 | ng/m ³ Air | 0.312 | | 0.168 | 10 | D, LJ, QX | | |
| Thallium | 0.00247 | 9.56E-4 | ng/m ³ Air | 0.00269 | | 8.40 | 10 | D, QB-04 | | |
| Vanadium | 5.61 | 0.0858 | ng/m ³ Air | 5.78 | | 3.07 | 10 | D | | |
| Zinc | ND | 125 | ng/m ³ Air | ND | | | 10 | D, U | | |

Matrix Spike (B4G0205-MS1) Source: 4070134-18 Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|--|----|--|
| Antimony | 0.848 | 0.0361 | ng/m ³ Air | 1.2938 | 0.0865 | 58.9 | 80-120 | | SL | |
| Arsenic | 2.80 | 0.00877 | ng/m ³ Air | 2.5877 | 0.352 | 94.6 | 80-120 | | | |
| Barium | 29.8 | 1.00 | ng/m ³ Air | 25.877 | 3.53 | 101 | 80-120 | | | |
| Beryllium | 1.28 | 0.00299 | ng/m ³ Air | 1.2938 | 0.0122 | 98.3 | 80-120 | | | |
| Cadmium | 1.32 | 0.0693 | ng/m ³ Air | 1.2938 | ND | 102 | 80-120 | | | |
| Chromium | 15.5 | 2.07 | ng/m ³ Air | 12.938 | 2.53 | 100 | 80-120 | | | |
| Cobalt | 1.67 | 0.0408 | ng/m ³ Air | 1.2938 | 0.395 | 98.3 | 80-120 | | | |
| Copper | 53.3 | 2.46 | ng/m ³ Air | 25.877 | 27.5 | 99.7 | 80-120 | | | |
| Lead | 13.7 | 0.200 | ng/m ³ Air | 12.938 | 0.652 | 101 | 80-120 | | | |
| Manganese | 19.7 | 1.77 | ng/m ³ Air | 7.7631 | 12.2 | 96.7 | 80-120 | | | |
| Molybdenum | 2.65 | 0.336 | ng/m ³ Air | 1.2938 | 1.48 | 90.5 | 80-120 | | | |
| Nickel | 4.00 | 0.610 | ng/m ³ Air | 2.5877 | 1.30 | 104 | 80-120 | | | |
| Selenium | 2.64 | 0.00838 | ng/m ³ Air | 2.5877 | 0.159 | 96.0 | 80-120 | | | |
| Thallium | 0.126 | 5.51E-4 | ng/m ³ Air | 0.12938 | 0.00110 | 96.5 | 80-120 | | | |
| Vanadium | 3.60 | 0.0495 | ng/m ³ Air | 2.5877 | 1.03 | 99.3 | 80-120 | | | |

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CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 B4G0205 - ICP-MS Extraction

Matrix Spike (B4G0205-MS1) Continued Source: 4070134-18 Prepared & Analyzed: 07/02/24Zinc 94.8 71.9 ng/m³ Air 77.631 ND 122 80-120**Matrix Spike (B4G0205-MS2) Source: 4070134-06** Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|--------|
| Antimony | 0.672 | 0.0313 | ng/m ³ Air | 1.1218 | 0.237 | 38.8 | 80-120 | SL |
| Arsenic | 15.9 | 0.00760 | ng/m ³ Air | 2.2437 | 13.1 | 124 | 80-120 | |
| Barium | 38.9 | 0.868 | ng/m ³ Air | 22.437 | 18.3 | 91.8 | 80-120 | |
| Beryllium | 1.16 | 0.00260 | ng/m ³ Air | 1.1218 | 0.0547 | 98.1 | 80-120 | |
| Cadmium | 1.15 | 0.0601 | ng/m ³ Air | 1.1218 | 0.0787 | 95.8 | 80-120 | |
| Chromium | 22.1 | 1.79 | ng/m ³ Air | 11.218 | 11.5 | 95.1 | 80-120 | |
| Cobalt | 3.10 | 0.0354 | ng/m ³ Air | 1.1218 | 1.95 | 102 | 80-120 | |
| Copper | 179 | 2.13 | ng/m ³ Air | 22.437 | 156 | 106 | 80-120 | |
| Lead | 13.1 | 0.174 | ng/m ³ Air | 11.218 | 2.47 | 95.2 | 80-120 | |
| Manganese | 62.2 | 1.53 | ng/m ³ Air | 6.7310 | 54.4 | 116 | 80-120 | |
| Molybdenum | 6.66 | 0.291 | ng/m ³ Air | 1.1218 | 5.39 | 113 | 80-120 | |
| Nickel | 7.35 | 0.529 | ng/m ³ Air | 2.2437 | 5.22 | 95.0 | 80-120 | |
| Selenium | 2.35 | 0.00727 | ng/m ³ Air | 2.2437 | 0.294 | 91.6 | 80-120 | LJ, QX |
| Thallium | 0.102 | 4.78E-4 | ng/m ³ Air | 0.11218 | 0.00273 | 88.1 | 80-120 | |
| Vanadium | 7.75 | 0.0429 | ng/m ³ Air | 2.2437 | 5.63 | 94.7 | 80-120 | |
| Zinc | 102 | 62.3 | ng/m ³ Air | 67.310 | ND | 152 | 80-120 | |

Matrix Spike (B4G0205-MS3) Source: 4070134-06R Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | |
|------------|--------|---------|-----------------------|---------|---------|--------|--------|-----------|
| Antimony | 0.667 | 0.0626 | ng/m ³ Air | 1.1218 | 0.237 | 38.3 | 80-120 | D, SL |
| Arsenic | 16.4 | 0.0152 | ng/m ³ Air | 2.2437 | 13.4 | 133 | 80-120 | D, QM-4X |
| Barium | 38.8 | 1.74 | ng/m ³ Air | 22.437 | 18.3 | 91.5 | 80-120 | D |
| Beryllium | 1.16 | 0.00519 | ng/m ³ Air | 1.1218 | 0.0535 | 98.7 | 80-120 | D |
| Cadmium | 1.20 | 0.120 | ng/m ³ Air | 1.1218 | ND | 107 | 80-120 | D |
| Chromium | 23.2 | 3.59 | ng/m ³ Air | 11.218 | 11.9 | 100 | 80-120 | D |
| Cobalt | 3.19 | 0.0707 | ng/m ³ Air | 1.1218 | 2.01 | 105 | 80-120 | D |
| Copper | 193 | 4.27 | ng/m ³ Air | 22.437 | 166 | 120 | 80-120 | D, LJ, QX |
| Lead | 12.3 | 0.347 | ng/m ³ Air | 11.218 | 2.37 | 88.1 | 80-120 | D |
| Manganese | 63.4 | 3.07 | ng/m ³ Air | 6.7310 | 54.7 | 129 | 80-120 | D |
| Molybdenum | 7.14 | 0.582 | ng/m ³ Air | 1.1218 | 5.82 | 118 | 80-120 | D |
| Nickel | 7.63 | 1.06 | ng/m ³ Air | 2.2437 | 5.36 | 101 | 80-120 | D |
| Selenium | 2.45 | 0.0145 | ng/m ³ Air | 2.2437 | 0.312 | 95.5 | 80-120 | D, LJ, QX |
| Thallium | 0.0984 | 9.56E-4 | ng/m ³ Air | 0.11218 | 0.00269 | 85.4 | 80-120 | D, QB-04 |
| Vanadium | 7.99 | 0.0858 | ng/m ³ Air | 2.2437 | 5.78 | 98.5 | 80-120 | D |
| Zinc | ND | 125 | ng/m ³ Air | 67.310 | ND | 80-120 | | D, U |

Matrix Spike Dup (B4G0205-MSD1) Source: 4070134-18 Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|----------|-------|---------|-----------------------|--------|--------|------|--------|------|----|----|
| Antimony | 0.809 | 0.0361 | ng/m ³ Air | 1.2938 | 0.0865 | 55.9 | 80-120 | 4.66 | 20 | SL |
| Arsenic | 2.68 | 0.00877 | ng/m ³ Air | 2.5877 | 0.352 | 89.8 | 80-120 | 4.54 | 20 | |

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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:

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 B4G0205 - ICP-MS Extraction

Matrix Spike Dup (B4G0205-MSD1) Conti**Source: 4070134-18**

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|-------|----|--------|
| Barium | 28.2 | 1.00 | ng/m ³ Air | 25.877 | 3.53 | 95.2 | 80-120 | 5.52 | 20 | |
| Beryllium | 1.23 | 0.00299 | ng/m ³ Air | 1.2938 | 0.0122 | 94.2 | 80-120 | 4.17 | 20 | |
| Cadmium | 1.25 | 0.0693 | ng/m ³ Air | 1.2938 | ND | 96.8 | 80-120 | 5.60 | 20 | |
| Chromium | 14.7 | 2.07 | ng/m ³ Air | 12.938 | 2.53 | 94.4 | 80-120 | 5.19 | 20 | |
| Cobalt | 1.60 | 0.0408 | ng/m ³ Air | 1.2938 | 0.395 | 93.5 | 80-120 | 3.78 | 20 | |
| Copper | 52.3 | 2.46 | ng/m ³ Air | 25.877 | 27.5 | 95.6 | 80-120 | 1.99 | 20 | |
| Lead | 12.7 | 0.200 | ng/m ³ Air | 12.938 | 0.652 | 93.1 | 80-120 | 7.59 | 20 | |
| Manganese | 19.7 | 1.77 | ng/m ³ Air | 7.7631 | 12.2 | 96.5 | 80-120 | 0.110 | 20 | |
| Molybdenum | 2.60 | 0.336 | ng/m ³ Air | 1.2938 | 1.48 | 86.6 | 80-120 | 1.90 | 20 | |
| Nickel | 3.73 | 0.610 | ng/m ³ Air | 2.5877 | 1.30 | 93.9 | 80-120 | 6.99 | 20 | |
| Selenium | 2.54 | 0.00838 | ng/m ³ Air | 2.5877 | 0.159 | 92.1 | 80-120 | 3.86 | 20 | LJ, QX |
| Thallium | 0.119 | 5.51E-4 | ng/m ³ Air | 0.12938 | 0.00110 | 91.0 | 80-120 | 5.80 | 20 | |
| Vanadium | 3.45 | 0.0495 | ng/m ³ Air | 2.5877 | 1.03 | 93.6 | 80-120 | 4.14 | 20 | |
| Zinc | 87.6 | 71.9 | ng/m ³ Air | 77.631 | ND | 113 | 80-120 | 7.91 | 20 | |

Matrix Spike Dup (B4G0205-MSD2)**Source: 4070134-06**

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|--------|----|--------|
| Antimony | 0.657 | 0.0313 | ng/m ³ Air | 1.1218 | 0.237 | 37.5 | 80-120 | 2.24 | 20 | SL |
| Arsenic | 14.9 | 0.00760 | ng/m ³ Air | 2.2437 | 13.1 | 82.6 | 80-120 | 6.07 | 20 | |
| Barium | 39.1 | 0.868 | ng/m ³ Air | 22.437 | 18.3 | 92.6 | 80-120 | 0.447 | 20 | |
| Beryllium | 1.19 | 0.00260 | ng/m ³ Air | 1.1218 | 0.0547 | 101 | 80-120 | 2.68 | 20 | |
| Cadmium | 1.14 | 0.0601 | ng/m ³ Air | 1.1218 | 0.0787 | 94.8 | 80-120 | 0.938 | 20 | |
| Chromium | 22.1 | 1.79 | ng/m ³ Air | 11.218 | 11.5 | 94.5 | 80-120 | 0.305 | 20 | |
| Cobalt | 3.11 | 0.0354 | ng/m ³ Air | 1.1218 | 1.95 | 103 | 80-120 | 0.254 | 20 | |
| Copper | 181 | 2.13 | ng/m ³ Air | 22.437 | 156 | 113 | 80-120 | 0.886 | 20 | |
| Lead | 13.2 | 0.174 | ng/m ³ Air | 11.218 | 2.47 | 95.6 | 80-120 | 0.329 | 20 | |
| Manganese | 62.4 | 1.53 | ng/m ³ Air | 6.7310 | 54.4 | 118 | 80-120 | 0.255 | 20 | |
| Molybdenum | 6.78 | 0.291 | ng/m ³ Air | 1.1218 | 5.39 | 124 | 80-120 | 1.76 | 20 | QM-4X |
| Nickel | 7.35 | 0.529 | ng/m ³ Air | 2.2437 | 5.22 | 95.1 | 80-120 | 0.0399 | 20 | |
| Selenium | 2.30 | 0.00727 | ng/m ³ Air | 2.2437 | 0.294 | 89.2 | 80-120 | 2.33 | 20 | LJ, QX |
| Thallium | 0.102 | 4.78E-4 | ng/m ³ Air | 0.11218 | 0.00273 | 88.2 | 80-120 | 0.0941 | 20 | |
| Vanadium | 7.83 | 0.0429 | ng/m ³ Air | 2.2437 | 5.63 | 98.0 | 80-120 | 0.966 | 20 | |
| Zinc | 99.3 | 62.3 | ng/m ³ Air | 67.310 | ND | 148 | 80-120 | 2.83 | 20 | |

Matrix Spike Dup (B4G0205-MSD3)**Source: 4070134-06R**

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|-----------|-------|---------|-----------------------|--------|--------|------|--------|---------|----|-------|
| Antimony | 0.658 | 0.0626 | ng/m ³ Air | 1.1218 | 0.237 | 37.5 | 80-120 | 1.39 | 20 | D, SL |
| Arsenic | 15.6 | 0.0152 | ng/m ³ Air | 2.2437 | 13.4 | 96.7 | 80-120 | 5.14 | 20 | D |
| Barium | 39.2 | 1.74 | ng/m ³ Air | 22.437 | 18.3 | 93.3 | 80-120 | 0.985 | 20 | D |
| Beryllium | 1.17 | 0.00519 | ng/m ³ Air | 1.1218 | 0.0535 | 99.7 | 80-120 | 1.01 | 20 | D |
| Cadmium | 1.21 | 0.120 | ng/m ³ Air | 1.1218 | ND | 108 | 80-120 | 0.781 | 20 | D |
| Chromium | 23.2 | 3.59 | ng/m ³ Air | 11.218 | 11.9 | 100 | 80-120 | 0.00660 | 20 | D |

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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:

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 B4G0205 - ICP-MS Extraction***Matrix Spike Dup (B4G0205-MSD3) Conti** Source: 4070134-06R Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|---------|---------|------|--------|-------|----|-----------|
| Cobalt | 3.23 | 0.0707 | ng/m ³ Air | 1.1218 | 2.01 | 109 | 80-120 | 1.19 | 20 | D |
| Copper | 197 | 4.27 | ng/m ³ Air | 22.437 | 166 | 140 | 80-120 | 2.32 | 20 | D, LJ, QX |
| Lead | 12.3 | 0.347 | ng/m ³ Air | 11.218 | 2.37 | 88.8 | 80-120 | 0.620 | 20 | D |
| Manganese | 64.2 | 3.07 | ng/m ³ Air | 6.7310 | 54.7 | 141 | 80-120 | 1.22 | 20 | D |
| Molybdenum | 7.39 | 0.582 | ng/m ³ Air | 1.1218 | 5.82 | 141 | 80-120 | 3.53 | 20 | D |
| Nickel | 7.71 | 1.06 | ng/m ³ Air | 2.2437 | 5.36 | 105 | 80-120 | 1.12 | 20 | D |
| Selenium | 2.45 | 0.0145 | ng/m ³ Air | 2.2437 | 0.312 | 95.4 | 80-120 | 0.102 | 20 | D, LJ, QX |
| Thallium | 0.0969 | 9.56E-4 | ng/m ³ Air | 0.11218 | 0.00269 | 84.0 | 80-120 | 1.59 | 20 | D, QB-04 |
| Vanadium | 8.10 | 0.0858 | ng/m ³ Air | 2.2437 | 5.78 | 103 | 80-120 | 1.33 | 20 | D |
| Zinc | ND | 125 | ng/m ³ Air | 67.310 | ND | | 80-120 | | 20 | D, U |

Post Spike (B4G0205-PS1)

Source: 4070134-18

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|-----------|---------|------|--------|--|--|--------|
| Antimony | 0.344 | 0.0361 | ng/m ³ Air | 0.25877 | 0.0865 | 99.5 | 75-125 | | | SL |
| Arsenic | 1.59 | 0.00877 | ng/m ³ Air | 1.2938 | 0.352 | 95.7 | 75-125 | | | |
| Barium | 6.11 | 1.00 | ng/m ³ Air | 2.5877 | 3.53 | 99.5 | 75-125 | | | |
| Beryllium | 0.268 | 0.00299 | ng/m ³ Air | 0.25877 | 0.0122 | 98.9 | 75-125 | | | |
| Cadmium | 0.139 | 0.0693 | ng/m ³ Air | 0.12938 | ND | 108 | 75-125 | | | |
| Chromium | 3.84 | 2.07 | ng/m ³ Air | 1.2938 | 2.53 | 102 | 75-125 | | | |
| Cobalt | 0.641 | 0.0408 | ng/m ³ Air | 0.25877 | 0.395 | 95.1 | 75-125 | | | |
| Copper | 40.9 | 2.46 | ng/m ³ Air | 12.938 | 27.5 | 103 | 75-125 | | | |
| Lead | 26.8 | 0.200 | ng/m ³ Air | 25.877 | 0.652 | 101 | 75-125 | | | |
| Manganese | 14.8 | 1.77 | ng/m ³ Air | 2.5877 | 12.2 | 100 | 75-125 | | | |
| Molybdenum | 2.74 | 0.336 | ng/m ³ Air | 1.2938 | 1.48 | 97.4 | 75-125 | | | |
| Nickel | 3.92 | 0.610 | ng/m ³ Air | 2.5877 | 1.30 | 102 | 75-125 | | | |
| Selenium | 1.35 | 0.00838 | ng/m ³ Air | 1.2938 | 0.159 | 92.2 | 75-125 | | | LJ, QX |
| Thallium | 0.0647 | 5.51E-4 | ng/m ³ Air | 6.4692E-2 | 0.00110 | 98.3 | 75-125 | | | |
| Vanadium | 2.31 | 0.0495 | ng/m ³ Air | 1.2938 | 1.03 | 98.9 | 75-125 | | | |
| Zinc | ND | 71.9 | ng/m ³ Air | 25.877 | ND | | 75-125 | | | U |

Post Spike (B4G0205-PS2)

Source: 4070134-06

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|-----------|-------|---------|-----------------------|---------|--------|------|--------|--|--|----|
| Antimony | 0.467 | 0.0313 | ng/m ³ Air | 0.22437 | 0.237 | 103 | 75-125 | | | SL |
| Arsenic | 14.2 | 0.00760 | ng/m ³ Air | 1.1218 | 13.1 | 96.0 | 75-125 | | | |
| Barium | 20.5 | 0.868 | ng/m ³ Air | 2.2437 | 18.3 | 98.0 | 75-125 | | | |
| Beryllium | 0.283 | 0.00260 | ng/m ³ Air | 0.22437 | 0.0547 | 102 | 75-125 | | | |
| Cadmium | 0.191 | 0.0601 | ng/m ³ Air | 0.11218 | 0.0787 | 101 | 75-125 | | | |
| Chromium | 12.6 | 1.79 | ng/m ³ Air | 1.1218 | 11.5 | 100 | 75-125 | | | |
| Cobalt | 2.17 | 0.0354 | ng/m ³ Air | 0.22437 | 1.95 | 97.5 | 75-125 | | | |
| Copper | 168 | 2.13 | ng/m ³ Air | 11.218 | 156 | 112 | 75-125 | | | |
| Lead | 25.3 | 0.174 | ng/m ³ Air | 22.437 | 2.47 | 102 | 75-125 | | | |
| Manganese | 56.4 | 1.53 | ng/m ³ Air | 2.2437 | 54.4 | 85.9 | 75-125 | | | |

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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:

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 B4G0205 - ICP-MS Extraction***Post Spike (B4G0205-PS2) Continued Source: 4070134-06 Prepared: 07/02/24 Analyzed: 07/03/24**

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|-----------|---------|--------|--------|--|--|--------|
| Molybdenum | 6.42 | 0.291 | ng/m ³ Air | 1.1218 | 5.39 | 91.8 | 75-125 | | | |
| Nickel | 7.49 | 0.529 | ng/m ³ Air | 2.2437 | 5.22 | 101 | 75-125 | | | |
| Selenium | 1.31 | 0.00727 | ng/m ³ Air | 1.1218 | 0.294 | 90.8 | 75-125 | | | LJ, QX |
| Thallium | 0.0552 | 4.78E-4 | ng/m ³ Air | 5.6092E-2 | 0.00273 | 93.6 | 75-125 | | | |
| Vanadium | 6.73 | 0.0429 | ng/m ³ Air | 1.1218 | 5.63 | 97.9 | 75-125 | | | |
| Zinc | ND | 62.3 | ng/m ³ Air | 22.437 | ND | 75-125 | | | | U |

Post Spike (B4G0205-PS3) Source: 4070134-06R Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|-----------|---------|--------|--------|--|--|-----------|
| Antimony | 0.460 | 0.0626 | ng/m ³ Air | 0.22437 | 0.237 | 99.2 | 75-125 | | | D, SL |
| Arsenic | 14.6 | 0.0152 | ng/m ³ Air | 1.1218 | 13.4 | 102 | 75-125 | | | D |
| Barium | 20.4 | 1.74 | ng/m ³ Air | 2.2437 | 18.3 | 92.5 | 75-125 | | | D |
| Beryllium | 0.277 | 0.00519 | ng/m ³ Air | 0.22437 | 0.0535 | 99.8 | 75-125 | | | D |
| Cadmium | 0.198 | 0.120 | ng/m ³ Air | 0.11218 | ND | 176 | 75-125 | | | D |
| Chromium | 13.0 | 3.59 | ng/m ³ Air | 1.1218 | 11.9 | 99.6 | 75-125 | | | D |
| Cobalt | 2.23 | 0.0707 | ng/m ³ Air | 0.22437 | 2.01 | 102 | 75-125 | | | D |
| Copper | 180 | 4.27 | ng/m ³ Air | 11.218 | 166 | 126 | 75-125 | | | QX, D, LJ |
| Lead | 24.4 | 0.347 | ng/m ³ Air | 22.437 | 2.37 | 98.1 | 75-125 | | | D |
| Manganese | 57.4 | 3.07 | ng/m ³ Air | 2.2437 | 54.7 | 121 | 75-125 | | | D |
| Molybdenum | 6.94 | 0.582 | ng/m ³ Air | 1.1218 | 5.82 | 99.9 | 75-125 | | | D |
| Nickel | 7.68 | 1.06 | ng/m ³ Air | 2.2437 | 5.36 | 103 | 75-125 | | | D |
| Selenium | 1.37 | 0.0145 | ng/m ³ Air | 1.1218 | 0.312 | 94.7 | 75-125 | | | D, LJ, QX |
| Thallium | 0.0523 | 9.56E-4 | ng/m ³ Air | 5.6092E-2 | 0.00269 | 88.5 | 75-125 | | | D, QB-04 |
| Vanadium | 6.89 | 0.0858 | ng/m ³ Air | 1.1218 | 5.78 | 98.6 | 75-125 | | | D |
| Zinc | ND | 125 | ng/m ³ Air | 22.437 | ND | 75-125 | | | | D, U |

Dilution Check (B4G0205-SRL1) Source: 4070134-18 Prepared & Analyzed: 07/02/24

| | | | | | | | | | |
|------------|-------|---------|-----------------------|-------|--|--|------|----|--------|
| Antimony | ND | 0.181 | ng/m ³ Air | ND | | | | 10 | SL, U |
| Arsenic | 0.360 | 0.0438 | ng/m ³ Air | 0.352 | | | 2.26 | 10 | |
| Barium | ND | 5.01 | ng/m ³ Air | ND | | | | 10 | U |
| Beryllium | ND | 0.0150 | ng/m ³ Air | ND | | | | 10 | U |
| Cadmium | ND | 0.347 | ng/m ³ Air | ND | | | | 10 | U |
| Chromium | ND | 10.3 | ng/m ³ Air | ND | | | | 10 | U |
| Cobalt | 0.401 | 0.204 | ng/m ³ Air | 0.395 | | | 1.60 | 10 | |
| Copper | 28.3 | 12.3 | ng/m ³ Air | 27.5 | | | 2.79 | 10 | |
| Lead | ND | 1.00 | ng/m ³ Air | ND | | | | 10 | U |
| Manganese | 12.5 | 8.84 | ng/m ³ Air | 12.2 | | | 2.45 | 10 | |
| Molybdenum | ND | 1.68 | ng/m ³ Air | ND | | | | 10 | U |
| Nickel | ND | 3.05 | ng/m ³ Air | ND | | | | 10 | U |
| Selenium | 0.149 | 0.0419 | ng/m ³ Air | 0.159 | | | 6.07 | 10 | LJ, QX |
| Thallium | ND | 0.00276 | ng/m ³ Air | ND | | | | 10 | U |

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1777 Sentry Pkwy, Bldg 12

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PHONE: (703) 885-5495 FAX:

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

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 B4G0205 - ICP-MS Extraction***Dilution Check (B4G0205-SRL1) Continue** Source: 4070134-18 Prepared & Analyzed: 07/02/24

| | | | | | | | |
|----------|------|-------|-----------------------|------|------|----|---|
| Vanadium | 1.08 | 0.247 | ng/m ³ Air | 1.03 | 4.35 | 10 | |
| Zinc | ND | 359 | ng/m ³ Air | ND | | 10 | U |

Dilution Check (B4G0205-SRL2) Source: 4070134-06 Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | |
|------------|---------|---------|-----------------------|---------|--------|----|----------------|
| Antimony | 0.237 | 0.157 | ng/m ³ Air | 0.237 | 0.0434 | 10 | SL |
| Arsenic | 13.4 | 0.0380 | ng/m ³ Air | 13.1 | 2.47 | 10 | |
| Barium | 18.4 | 4.34 | ng/m ³ Air | 18.3 | 0.214 | 10 | |
| Beryllium | 0.0516 | 0.0130 | ng/m ³ Air | 0.0547 | 5.83 | 10 | |
| Cadmium | ND | 0.301 | ng/m ³ Air | ND | | 10 | U |
| Chromium | 11.9 | 8.96 | ng/m ³ Air | 11.5 | 3.52 | 10 | |
| Cobalt | 2.03 | 0.177 | ng/m ³ Air | 1.95 | 3.65 | 10 | |
| Copper | 159 | 10.7 | ng/m ³ Air | 156 | 2.11 | 10 | |
| Lead | 2.43 | 0.868 | ng/m ³ Air | 2.47 | 1.36 | 10 | |
| Manganese | 55.7 | 7.67 | ng/m ³ Air | 54.4 | 2.23 | 10 | |
| Molybdenum | 5.74 | 1.46 | ng/m ³ Air | 5.39 | 6.28 | 10 | |
| Nickel | 5.46 | 2.64 | ng/m ³ Air | 5.22 | 4.56 | 10 | |
| Selenium | 0.327 | 0.0363 | ng/m ³ Air | 0.294 | 10.6 | 10 | LJ, QX, SRD-01 |
| Thallium | 0.00596 | 0.00239 | ng/m ³ Air | 0.00273 | 74.3 | 10 | |
| Vanadium | 5.74 | 0.215 | ng/m ³ Air | 5.63 | 2.03 | 10 | |
| Zinc | ND | 312 | ng/m ³ Air | ND | | 10 | U |

Dilution Check (B4G0205-SRL3) Source: 4070134-06R Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | |
|------------|---------|---------|-----------------------|--------|------|----|-----------|
| Antimony | ND | 0.313 | ng/m ³ Air | ND | | 10 | D, SL, U |
| Arsenic | 12.7 | 0.0760 | ng/m ³ Air | 13.4 | 5.54 | 10 | D |
| Barium | 17.0 | 8.68 | ng/m ³ Air | 18.3 | 7.04 | 10 | D |
| Beryllium | 0.0438 | 0.0260 | ng/m ³ Air | 0.0535 | 19.9 | 10 | D |
| Cadmium | ND | 0.601 | ng/m ³ Air | ND | | 10 | D, U |
| Chromium | ND | 17.9 | ng/m ³ Air | ND | | 10 | D, U |
| Cobalt | 1.90 | 0.354 | ng/m ³ Air | 2.01 | 5.58 | 10 | D |
| Copper | 151 | 21.3 | ng/m ³ Air | 166 | 9.41 | 10 | D, LJ, QX |
| Lead | 2.16 | 1.74 | ng/m ³ Air | 2.37 | 9.20 | 10 | D |
| Manganese | 52.1 | 15.3 | ng/m ³ Air | 54.7 | 4.95 | 10 | D |
| Molybdenum | 5.60 | 2.91 | ng/m ³ Air | 5.82 | 3.81 | 10 | D |
| Nickel | ND | 5.29 | ng/m ³ Air | 5.36 | | 10 | D, U |
| Selenium | 0.286 | 0.0727 | ng/m ³ Air | 0.312 | 8.69 | 10 | D, LJ, QX |
| Thallium | 0.00688 | 0.00478 | ng/m ³ Air | ND | 87.7 | 10 | D, QB-04 |
| Vanadium | 5.44 | 0.429 | ng/m ³ Air | 5.78 | 6.03 | 10 | D |
| Zinc | ND | 623 | ng/m ³ Air | ND | | 10 | D, U |

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tetra Tech, Inc.

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

CERTIFICATE OF ANALYSIS

FILE #: 4205.00.003.001

REPORTED: 07/09/24 14:35

SUBMITTED: 07/01/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Notes and Definitions

| | |
|--------|--|
| U | Under Detection Limit |
| SRD-01 | Serial dilution exceeds the control limits. |
| 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-4X | The MS/MSD recovery exceeds criteria because the parent sample concentration is greater than 4x the spike concentration. |
| QB-04 | Analyte exceeds continuing calibration blank criteria |
| LJ | Identification of analyte is acceptable; reported value is an estimate. |
| FB-01 | Analyte exceeds Field Blank criteria. |
| D | This result obtained by dilution. |
| 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.