

SACRAMENTO METROPOLITAN
AIR QUALITY MANAGEMENT DISTRICT

CLIENT # S061
REPORT # 20-372

SUBMITTED BY:

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Case Narrative


Date: September 11, 2020

General Information

Client: Sacramento Metropolitan Air Quality Management District
Client Number: S061
Report Number: 20-372
Sample Description: 47mm Teflon filters
Sample Numbers: 19-T3960, 19-T3961, 19-T3963, 19-T3964

Analysis

Analytes: Particulate Mass, XRF Metals (Na – Pb)
Analytical Protocols: Gravimetry: 40 CFR 50 Appendix L (10/17/06 version)
X-Ray Fluorescence: EPA IO-3.3 (June 1999 version)
Analytical Notes: No problems were encountered during the analyses. Results have **not** been blank corrected.
QA/QC Review: All of the data have been reviewed by the analysts performing the analyses and the project manager. All of the quality control and sample-specific information in this package is complete and meets or exceeds the minimum requirements for acceptability.
Comments: If you have any questions or concerns regarding this analysis, please feel free to contact the project manager.
Disclaimer: This report shall not be reproduced, except in full, without the written approval of the laboratory. The results only represent that of the samples as received into the laboratory.

 9/11/20
Project Manager Date
Paul Duda

Lab ID: 19-T3960
 Filter ID: D9082957
 Site: Station 56
 Sample Date: 8/25/20
 Filter Lot #: W9080002
 Volume: 7.200 ± 0.360 m³
 Deposit Area: 11.3 cm²
 Size Fraction: PM2.5

These columns are intermediate data used to calculate the concentration.

This column is the concentration of each analyte in ug/m³. This is the column that is the best measurement of what is in the community air.

This column is the uncertainty of the concentration measured.

This section provides information about the sample such as ID numbers, where the sample was collected, and what was used to collect it.

| Analyte | µg/filter | | percent | | µg/m ³ | |
|-------------------|------------|----------|---------|----------|-------------------|----------|
| Gravimetry | | | | | | |
| Net Mass | 264. ± 10. | | | | 36.67 ± 2.300 | |
| XRF | | | | | | |
| Na | 2.840 | ± 0.6091 | 1.076 | ± 0.2343 | 0.3944 | ± 0.0869 |
| Mg | 0.4927 | ± 0.1503 | 0.1866 | ± 0.0574 | 0.0684 | ± 0.0212 |
| Al | 0.7707 | ± 0.0734 | 0.2919 | ± 0.0299 | 0.1070 | ± 0.0115 |
| Si | 1.293 | ± 0.0734 | 0.4897 | ± 0.0334 | 0.1795 | ± 0.0136 |
| P | 0.1141 | ± 0.0226 | 0.0432 | ± 0.0087 | 0.0159 | ± 0.0032 |
| S | 4.962 | ± 0.2520 | 1.879 | ± 0.1191 | 0.6891 | ± 0.0491 |
| Cl | 0.2735 | ± 0.0282 | 0.1036 | ± 0.0114 | 0.0380 | ± 0.0044 |
| K | 1.733 | ± 0.0870 | 0.6566 | ± 0.0413 | 0.2408 | ± 0.0171 |
| Ca | 0.4136 | ± 0.0237 | 0.1567 | ± 0.0108 | 0.0574 | ± 0.0044 |
| * Sc | 0.0000 | ± 0.0090 | 0.0000 | ± 0.0034 | 0.0000 | ± 0.0013 |
| Ti | 0.0452 | ± 0.0079 | 0.0171 | ± 0.0031 | 0.0063 | ± 0.0011 |
| * V | 0.0000 | ± 0.0079 | 0.0000 | ± 0.0030 | 0.0000 | ± 0.0011 |
| * Cr | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0026 | 0.0000 | ± 0.0009 |
| * Mn | 0.0147 | ± 0.0136 | 0.0056 | ± 0.0051 | 0.0020 | ± 0.0019 |
| Fe | 0.5752 | ± 0.0294 | 0.2179 | ± 0.0139 | 0.0799 | ± 0.0057 |
| * Co | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0026 | 0.0000 | ± 0.0009 |
| * Ni | 0.0045 | ± 0.0056 | 0.0017 | ± 0.0021 | 0.0006 | ± 0.0008 |
| Cu | 0.0407 | ± 0.0056 | 0.0154 | ± 0.0022 | 0.0056 | ± 0.0008 |
| Zn | 0.1232 | ± 0.0079 | 0.0467 | ± 0.0035 | 0.0171 | ± 0.0014 |
| * Ga | 0.0090 | ± 0.0034 | 0.0034 | ± 0.0013 | 0.0013 | ± 0.0005 |
| * As | 0.0000 | ± 0.0056 | 0.0000 | ± 0.0021 | 0.0000 | ± 0.0008 |
| Se | 0.0124 | ± 0.0034 | 0.0047 | ± 0.0013 | 0.0017 | ± 0.0005 |
| Br | 0.0554 | ± 0.0045 | 0.0210 | ± 0.0019 | 0.0077 | ± 0.0007 |
| * Rb | 0.0113 | ± 0.0045 | 0.0043 | ± 0.0017 | 0.0016 | ± 0.0006 |
| * Sr | 0.0000 | ± 0.0056 | 0.0000 | ± 0.0021 | 0.0000 | ± 0.0008 |
| * Y | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0026 | 0.0000 | ± 0.0009 |
| * Zr | 0.0000 | ± 0.0090 | 0.0000 | ± 0.0034 | 0.0000 | ± 0.0013 |
| * Nb | 0.0000 | ± 0.0113 | 0.0000 | ± 0.0043 | 0.0000 | ± 0.0016 |
| * Mo | 0.0068 | ± 0.0147 | 0.0026 | ± 0.0056 | 0.0009 | ± 0.0020 |
| * Ag | 0.0282 | ± 0.0260 | 0.0107 | ± 0.0099 | 0.0039 | ± 0.0036 |
| * Cd | 0.0226 | ± 0.0362 | 0.0086 | ± 0.0137 | 0.0031 | ± 0.0050 |
| * In | 0.0938 | ± 0.0441 | 0.0355 | ± 0.0167 | 0.0130 | ± 0.0062 |
| * Sn | 0.0339 | ± 0.0475 | 0.0128 | ± 0.0180 | 0.0047 | ± 0.0066 |
| * Sb | 0.0000 | ± 0.0927 | 0.0000 | ± 0.0351 | 0.0000 | ± 0.0129 |
| * Cs | 0.0000 | ± 0.0158 | 0.0000 | ± 0.0060 | 0.0000 | ± 0.0022 |
| Ba | 0.0814 | ± 0.0158 | 0.0308 | ± 0.0061 | 0.0113 | ± 0.0023 |
| La | 0.0531 | ± 0.0113 | 0.0201 | ± 0.0043 | 0.0074 | ± 0.0016 |
| * Ce | 0.0011 | ± 0.0158 | 0.0004 | ± 0.0060 | 0.0002 | ± 0.0022 |
| * Sm | 0.0000 | ± 0.0192 | 0.0000 | ± 0.0073 | 0.0000 | ± 0.0027 |
| * Eu | 0.0023 | ± 0.0215 | 0.0009 | ± 0.0081 | 0.0003 | ± 0.0030 |
| * Tb | 0.0000 | ± 0.0305 | 0.0000 | ± 0.0116 | 0.0000 | ± 0.0042 |
| * Hf | 0.0147 | ± 0.0102 | 0.0056 | ± 0.0039 | 0.0020 | ± 0.0014 |
| * Ta | 0.0000 | ± 0.0102 | 0.0000 | ± 0.0039 | 0.0000 | ± 0.0014 |
| * W | 0.0113 | ± 0.0090 | 0.0043 | ± 0.0034 | 0.0016 | ± 0.0013 |
| * Ir | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0026 | 0.0000 | ± 0.0009 |
| * Au | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0026 | 0.0000 | ± 0.0009 |
| * Hg | 0.0000 | ± 0.0102 | 0.0000 | ± 0.0039 | 0.0000 | ± 0.0014 |
| * Pb | 0.0158 | ± 0.0158 | 0.0060 | ± 0.0060 | 0.0022 | ± 0.0022 |

* - XRF Concentration is less than three times the uncertainty

The asterisk indicates that the analyte was detected in small amounts. There is more relative inaccuracy in measurements at very low levels. This inaccuracy is generally not a concern for air quality because that inaccuracy only occurs at low concentrations of the analyte.

Lab ID: 19-T3961
 Filter ID: D9082958
 Site: Impact
 Sample Date: 8/25/20
 Filter Lot #: W9080002
 Volume: 7.200 ± 0.360 m³
 Deposit Area: 11.3 cm²
 Size Fraction: PM2.5

| Analyte | µg/filter | | percent | | µg/m ³ | |
|------------|------------|----------|---------|----------|-------------------|----------|
| Gravimetry | | | | | | |
| Net Mass | 262. ± 10. | | | | 36.39 | ± 2.289 |
| XRF | | | | | | |
| Na | 2.453 | ± 0.6034 | 0.9363 | ± 0.2331 | 0.3407 | ± 0.0855 |
| Mg | 0.6644 | ± 0.1514 | 0.2536 | ± 0.0586 | 0.0923 | ± 0.0215 |
| Al | 0.8678 | ± 0.0780 | 0.3312 | ± 0.0323 | 0.1205 | ± 0.0124 |
| Si | 1.928 | ± 0.1028 | 0.7358 | ± 0.0483 | 0.2677 | ± 0.0196 |
| P | 0.2373 | ± 0.0249 | 0.0906 | ± 0.0101 | 0.0330 | ± 0.0038 |
| S | 4.780 | ± 0.2430 | 1.824 | ± 0.1160 | 0.6639 | ± 0.0473 |
| Cl | 0.4848 | ± 0.0350 | 0.1850 | ± 0.0151 | 0.0673 | ± 0.0059 |
| K | 1.723 | ± 0.0870 | 0.6577 | ± 0.0416 | 0.2393 | ± 0.0170 |
| Ca | 1.822 | ± 0.0915 | 0.6953 | ± 0.0439 | 0.2530 | ± 0.0179 |
| Sc | 0.0610 | ± 0.0124 | 0.0233 | ± 0.0048 | 0.0085 | ± 0.0018 |
| Ti | 0.0463 | ± 0.0079 | 0.0177 | ± 0.0031 | 0.0064 | ± 0.0011 |
| * V | 0.0056 | ± 0.0079 | 0.0022 | ± 0.0030 | 0.0008 | ± 0.0011 |
| * Cr | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0026 | 0.0000 | ± 0.0009 |
| Mn | 0.0452 | ± 0.0136 | 0.0173 | ± 0.0052 | 0.0063 | ± 0.0019 |
| Fe | 0.7616 | ± 0.0384 | 0.2907 | ± 0.0184 | 0.1058 | ± 0.0075 |
| * Co | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0026 | 0.0000 | ± 0.0009 |
| * Ni | 0.0068 | ± 0.0056 | 0.0026 | ± 0.0022 | 0.0009 | ± 0.0008 |
| Cu | 0.0429 | ± 0.0056 | 0.0164 | ± 0.0022 | 0.0060 | ± 0.0008 |
| Zn | 0.1333 | ± 0.0068 | 0.0509 | ± 0.0032 | 0.0185 | ± 0.0013 |
| * Ga | 0.0079 | ± 0.0034 | 0.0030 | ± 0.0013 | 0.0011 | ± 0.0005 |
| * As | 0.0034 | ± 0.0056 | 0.0013 | ± 0.0022 | 0.0005 | ± 0.0008 |
| * Se | 0.0000 | ± 0.0045 | 0.0000 | ± 0.0017 | 0.0000 | ± 0.0006 |
| Br | 0.0486 | ± 0.0056 | 0.0185 | ± 0.0023 | 0.0067 | ± 0.0009 |
| * Rb | 0.0000 | ± 0.0045 | 0.0000 | ± 0.0017 | 0.0000 | ± 0.0006 |
| * Sr | 0.0045 | ± 0.0056 | 0.0017 | ± 0.0022 | 0.0006 | ± 0.0008 |
| * Y | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0026 | 0.0000 | ± 0.0009 |
| * Zr | 0.0000 | ± 0.0090 | 0.0000 | ± 0.0035 | 0.0000 | ± 0.0013 |
| * Nb | 0.0124 | ± 0.0113 | 0.0047 | ± 0.0043 | 0.0017 | ± 0.0016 |
| * Mo | 0.0056 | ± 0.0147 | 0.0022 | ± 0.0056 | 0.0008 | ± 0.0020 |
| * Ag | 0.0350 | ± 0.0260 | 0.0134 | ± 0.0099 | 0.0049 | ± 0.0036 |
| * Cd | 0.0000 | ± 0.0362 | 0.0000 | ± 0.0138 | 0.0000 | ± 0.0050 |
| * In | 0.0441 | ± 0.0429 | 0.0168 | ± 0.0164 | 0.0061 | ± 0.0060 |
| * Sn | 0.0000 | ± 0.0475 | 0.0000 | ± 0.0181 | 0.0000 | ± 0.0066 |
| * Sb | 0.0000 | ± 0.0927 | 0.0000 | ± 0.0354 | 0.0000 | ± 0.0129 |
| * Cs | 0.0000 | ± 0.0158 | 0.0000 | ± 0.0060 | 0.0000 | ± 0.0022 |
| Ba | 0.1096 | ± 0.0170 | 0.0418 | ± 0.0067 | 0.0152 | ± 0.0025 |
| * La | 0.0350 | ± 0.0158 | 0.0134 | ± 0.0061 | 0.0049 | ± 0.0022 |
| * Ce | 0.0147 | ± 0.0192 | 0.0056 | ± 0.0073 | 0.0020 | ± 0.0027 |
| * Sm | 0.0000 | ± 0.0192 | 0.0000 | ± 0.0073 | 0.0000 | ± 0.0027 |
| * Eu | 0.0124 | ± 0.0215 | 0.0047 | ± 0.0082 | 0.0017 | ± 0.0030 |
| * Tb | 0.0384 | ± 0.0362 | 0.0147 | ± 0.0138 | 0.0053 | ± 0.0050 |
| * Hf | 0.0000 | ± 0.0102 | 0.0000 | ± 0.0039 | 0.0000 | ± 0.0014 |
| * Ta | 0.0090 | ± 0.0102 | 0.0035 | ± 0.0039 | 0.0013 | ± 0.0014 |
| * W | 0.0192 | ± 0.0090 | 0.0073 | ± 0.0035 | 0.0027 | ± 0.0013 |
| * Ir | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0026 | 0.0000 | ± 0.0009 |
| * Au | 0.0090 | ± 0.0068 | 0.0035 | ± 0.0026 | 0.0013 | ± 0.0009 |
| * Hg | 0.0090 | ± 0.0079 | 0.0035 | ± 0.0030 | 0.0013 | ± 0.0011 |
| * Pb | 0.0124 | ± 0.0158 | 0.0047 | ± 0.0060 | 0.0017 | ± 0.0022 |

* - XRF Concentration is less than three times the uncertainty

Lab ID: 19-T3963
 Filter ID: D9082960
 Site: Florin
 Sample Date: 8/25/20
 Filter Lot #: W9080002
 Volume: 7.200 ± 0.360 m³
 Deposit Area: 11.3 cm²
 Size Fraction: PM2.5

| Analyte | µg/filter | | percent | | µg/m ³ | |
|------------|------------|----------|---------|----------|-------------------|----------|
| Gravimetry | | | | | | |
| Net Mass | 272. ± 10. | | | | 37.78 | ± 2.345 |
| XRF | | | | | | |
| Na | 2.470 | ± 0.6283 | 0.9082 | ± 0.2334 | 0.3431 | ± 0.0889 |
| Mg | 1.224 | ± 0.1616 | 0.4499 | ± 0.0617 | 0.1700 | ± 0.0240 |
| Al | 1.377 | ± 0.0927 | 0.5064 | ± 0.0388 | 0.1913 | ± 0.0160 |
| Si | 3.136 | ± 0.1627 | 1.153 | ± 0.0733 | 0.4355 | ± 0.0314 |
| P | 0.3062 | ± 0.0260 | 0.1126 | ± 0.0104 | 0.0425 | ± 0.0042 |
| S | 4.572 | ± 0.2328 | 1.681 | ± 0.1056 | 0.6350 | ± 0.0453 |
| Cl | 0.5480 | ± 0.0441 | 0.2015 | ± 0.0178 | 0.0761 | ± 0.0072 |
| K | 1.915 | ± 0.0972 | 0.7042 | ± 0.0441 | 0.2660 | ± 0.0189 |
| Ca | 2.068 | ± 0.1040 | 0.7603 | ± 0.0474 | 0.2872 | ± 0.0204 |
| Sc | 0.0576 | ± 0.0136 | 0.0212 | ± 0.0050 | 0.0080 | ± 0.0019 |
| Ti | 0.0802 | ± 0.0079 | 0.0295 | ± 0.0031 | 0.0111 | ± 0.0012 |
| * V | 0.0000 | ± 0.0090 | 0.0000 | ± 0.0033 | 0.0000 | ± 0.0013 |
| * Cr | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0025 | 0.0000 | ± 0.0009 |
| Mn | 0.0531 | ± 0.0136 | 0.0195 | ± 0.0050 | 0.0074 | ± 0.0019 |
| Fe | 1.012 | ± 0.0508 | 0.3722 | ± 0.0232 | 0.1406 | ± 0.0100 |
| * Co | 0.0000 | ± 0.0090 | 0.0000 | ± 0.0033 | 0.0000 | ± 0.0013 |
| * Ni | 0.0000 | ± 0.0056 | 0.0000 | ± 0.0021 | 0.0000 | ± 0.0008 |
| Cu | 0.0384 | ± 0.0045 | 0.0141 | ± 0.0017 | 0.0053 | ± 0.0007 |
| Zn | 0.1085 | ± 0.0068 | 0.0399 | ± 0.0029 | 0.0151 | ± 0.0012 |
| * Ga | 0.0068 | ± 0.0034 | 0.0025 | ± 0.0012 | 0.0009 | ± 0.0005 |
| * As | 0.0056 | ± 0.0056 | 0.0021 | ± 0.0021 | 0.0008 | ± 0.0008 |
| * Se | 0.0000 | ± 0.0045 | 0.0000 | ± 0.0017 | 0.0000 | ± 0.0006 |
| Br | 0.0407 | ± 0.0056 | 0.0150 | ± 0.0021 | 0.0056 | ± 0.0008 |
| * Rb | 0.0090 | ± 0.0045 | 0.0033 | ± 0.0017 | 0.0013 | ± 0.0006 |
| Sr | 0.0170 | ± 0.0056 | 0.0062 | ± 0.0021 | 0.0024 | ± 0.0008 |
| * Y | 0.0000 | ± 0.0079 | 0.0000 | ± 0.0029 | 0.0000 | ± 0.0011 |
| Zr | 0.0294 | ± 0.0090 | 0.0108 | ± 0.0033 | 0.0041 | ± 0.0013 |
| * Nb | 0.0000 | ± 0.0124 | 0.0000 | ± 0.0046 | 0.0000 | ± 0.0017 |
| * Mo | 0.0000 | ± 0.0158 | 0.0000 | ± 0.0058 | 0.0000 | ± 0.0022 |
| * Ag | 0.0554 | ± 0.0260 | 0.0204 | ± 0.0096 | 0.0077 | ± 0.0036 |
| * Cd | 0.0000 | ± 0.0362 | 0.0000 | ± 0.0133 | 0.0000 | ± 0.0050 |
| * In | 0.0000 | ± 0.0429 | 0.0000 | ± 0.0158 | 0.0000 | ± 0.0060 |
| * Sn | 0.1017 | ± 0.0475 | 0.0374 | ± 0.0175 | 0.0141 | ± 0.0066 |
| * Sb | 0.0000 | ± 0.0927 | 0.0000 | ± 0.0341 | 0.0000 | ± 0.0129 |
| * Cs | 0.0000 | ± 0.0158 | 0.0000 | ± 0.0058 | 0.0000 | ± 0.0022 |
| * Ba | 0.0000 | ± 0.0215 | 0.0000 | ± 0.0079 | 0.0000 | ± 0.0030 |
| * La | 0.0000 | ± 0.0181 | 0.0000 | ± 0.0066 | 0.0000 | ± 0.0025 |
| * Ce | 0.0000 | ± 0.0192 | 0.0000 | ± 0.0071 | 0.0000 | ± 0.0027 |
| * Sm | 0.0000 | ± 0.0203 | 0.0000 | ± 0.0075 | 0.0000 | ± 0.0028 |
| * Eu | 0.0011 | ± 0.0215 | 0.0004 | ± 0.0079 | 0.0002 | ± 0.0030 |
| * Tb | 0.0000 | ± 0.0429 | 0.0000 | ± 0.0158 | 0.0000 | ± 0.0060 |
| * Hf | 0.0090 | ± 0.0102 | 0.0033 | ± 0.0037 | 0.0013 | ± 0.0014 |
| * Ta | 0.0362 | ± 0.0181 | 0.0133 | ± 0.0067 | 0.0050 | ± 0.0025 |
| * W | 0.0102 | ± 0.0090 | 0.0037 | ± 0.0033 | 0.0014 | ± 0.0013 |
| * Ir | 0.0056 | ± 0.0068 | 0.0021 | ± 0.0025 | 0.0008 | ± 0.0009 |
| * Au | 0.0181 | ± 0.0068 | 0.0066 | ± 0.0025 | 0.0025 | ± 0.0010 |
| * Hg | 0.0170 | ± 0.0102 | 0.0062 | ± 0.0037 | 0.0024 | ± 0.0014 |
| * Pb | 0.0271 | ± 0.0158 | 0.0100 | ± 0.0058 | 0.0038 | ± 0.0022 |

* - XRF Concentration is less than three times the uncertainty

Lab ID: 19-T3964
 Filter ID: D9082961
 Site: Sump 50
 Sample Date: 8/25/20
 Filter Lot #: W9080002
 Volume: 7.200 ± 0.360 m³
 Deposit Area: 11.3 cm²
 Size Fraction: PM2.5

| Analyte | µg/filter | | percent | | µg/m ³ | |
|-------------------|------------|----------|---------|----------|-------------------|----------|
| Gravimetry | | | | | | |
| Net Mass | 241. ± 10. | | | | 33.47 | ± 2.175 |
| XRF | | | | | | |
| Na | 2.547 | ± 0.6012 | 1.057 | ± 0.2533 | 0.3538 | ± 0.0853 |
| * Mg | 0.3819 | ± 0.1424 | 0.1585 | ± 0.0594 | 0.0530 | ± 0.0200 |
| Al | 0.6836 | ± 0.0712 | 0.2837 | ± 0.0318 | 0.0950 | ± 0.0110 |
| Si | 0.8769 | ± 0.0554 | 0.3639 | ± 0.0275 | 0.1218 | ± 0.0098 |
| P | 0.0667 | ± 0.0215 | 0.0277 | ± 0.0090 | 0.0093 | ± 0.0030 |
| S | 4.642 | ± 0.2350 | 1.926 | ± 0.1261 | 0.6447 | ± 0.0459 |
| Cl | 0.2836 | ± 0.0294 | 0.1177 | ± 0.0131 | 0.0394 | ± 0.0045 |
| K | 1.561 | ± 0.0791 | 0.6475 | ± 0.0424 | 0.2167 | ± 0.0154 |
| Ca | 0.2768 | ± 0.0203 | 0.1149 | ± 0.0097 | 0.0385 | ± 0.0034 |
| * Sc | 0.0000 | ± 0.0090 | 0.0000 | ± 0.0038 | 0.0000 | ± 0.0013 |
| * Ti | 0.0136 | ± 0.0079 | 0.0056 | ± 0.0033 | 0.0019 | ± 0.0011 |
| * V | 0.0170 | ± 0.0079 | 0.0070 | ± 0.0033 | 0.0024 | ± 0.0011 |
| * Cr | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0028 | 0.0000 | ± 0.0009 |
| * Mn | 0.0079 | ± 0.0136 | 0.0033 | ± 0.0056 | 0.0011 | ± 0.0019 |
| Fe | 0.3435 | ± 0.0181 | 0.1425 | ± 0.0096 | 0.0477 | ± 0.0035 |
| * Co | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0028 | 0.0000 | ± 0.0009 |
| * Ni | 0.0068 | ± 0.0056 | 0.0028 | ± 0.0023 | 0.0009 | ± 0.0008 |
| Cu | 0.0396 | ± 0.0056 | 0.0164 | ± 0.0024 | 0.0055 | ± 0.0008 |
| Zn | 0.1130 | ± 0.0068 | 0.0469 | ± 0.0034 | 0.0157 | ± 0.0012 |
| * Ga | 0.0034 | ± 0.0034 | 0.0014 | ± 0.0014 | 0.0005 | ± 0.0005 |
| * As | 0.0079 | ± 0.0056 | 0.0033 | ± 0.0023 | 0.0011 | ± 0.0008 |
| * Se | 0.0000 | ± 0.0045 | 0.0000 | ± 0.0019 | 0.0000 | ± 0.0006 |
| Br | 0.0441 | ± 0.0056 | 0.0183 | ± 0.0025 | 0.0061 | ± 0.0008 |
| * Rb | 0.0079 | ± 0.0045 | 0.0033 | ± 0.0019 | 0.0011 | ± 0.0006 |
| * Sr | 0.0000 | ± 0.0056 | 0.0000 | ± 0.0023 | 0.0000 | ± 0.0008 |
| * Y | 0.0068 | ± 0.0068 | 0.0028 | ± 0.0028 | 0.0009 | ± 0.0009 |
| Zr | 0.0237 | ± 0.0079 | 0.0098 | ± 0.0033 | 0.0033 | ± 0.0011 |
| * Nb | 0.0068 | ± 0.0124 | 0.0028 | ± 0.0052 | 0.0009 | ± 0.0017 |
| * Mo | 0.0023 | ± 0.0147 | 0.0009 | ± 0.0061 | 0.0003 | ± 0.0020 |
| * Ag | 0.0000 | ± 0.0260 | 0.0000 | ± 0.0108 | 0.0000 | ± 0.0036 |
| * Cd | 0.0000 | ± 0.0362 | 0.0000 | ± 0.0150 | 0.0000 | ± 0.0050 |
| * In | 0.0396 | ± 0.0429 | 0.0164 | ± 0.0178 | 0.0055 | ± 0.0060 |
| * Sn | 0.0712 | ± 0.0497 | 0.0295 | ± 0.0207 | 0.0099 | ± 0.0069 |
| * Sb | 0.0000 | ± 0.0927 | 0.0000 | ± 0.0384 | 0.0000 | ± 0.0129 |
| * Cs | 0.0000 | ± 0.0158 | 0.0000 | ± 0.0066 | 0.0000 | ± 0.0022 |
| Ba | 0.0667 | ± 0.0158 | 0.0277 | ± 0.0067 | 0.0093 | ± 0.0022 |
| La | 0.0599 | ± 0.0158 | 0.0249 | ± 0.0066 | 0.0083 | ± 0.0022 |
| * Ce | 0.0090 | ± 0.0192 | 0.0038 | ± 0.0080 | 0.0013 | ± 0.0027 |
| * Sm | 0.0000 | ± 0.0192 | 0.0000 | ± 0.0080 | 0.0000 | ± 0.0027 |
| * Eu | 0.0282 | ± 0.0226 | 0.0117 | ± 0.0094 | 0.0039 | ± 0.0031 |
| * Tb | 0.0000 | ± 0.0260 | 0.0000 | ± 0.0108 | 0.0000 | ± 0.0036 |
| * Hf | 0.0136 | ± 0.0102 | 0.0056 | ± 0.0042 | 0.0019 | ± 0.0014 |
| * Ta | 0.0181 | ± 0.0102 | 0.0075 | ± 0.0042 | 0.0025 | ± 0.0014 |
| * W | 0.0090 | ± 0.0090 | 0.0038 | ± 0.0038 | 0.0013 | ± 0.0013 |
| * Ir | 0.0000 | ± 0.0068 | 0.0000 | ± 0.0028 | 0.0000 | ± 0.0009 |
| * Au | 0.0102 | ± 0.0068 | 0.0042 | ± 0.0028 | 0.0014 | ± 0.0009 |
| * Hg | 0.0192 | ± 0.0102 | 0.0080 | ± 0.0042 | 0.0027 | ± 0.0014 |
| * Pb | 0.0000 | ± 0.0158 | 0.0000 | ± 0.0066 | 0.0000 | ± 0.0022 |

* - XRF Concentration is less than three times the uncertainty

Client: Sacramento Metro - AQMD
Report: 20-372
Analysis Period: September 9, 2020
Number of Samples: 4

This section of the report provides information about the quality assurance/quality control (QA/QC) measurements done by the lab to confirm that the instruments are measuring accurately.

The accuracy is generally evaluated by measuring a sample with a known amount of analyte (precision and accuracy) or by measuring a sample multiple times (relative percent difference or RPD).

1. Precision Data

Micromatter Multi-elemental Quality Control Standard: 34103

QC Standard Results

| Analyte | n | micrograms per square centimeter | | | c.v. | %E |
|---------|---|----------------------------------|-------|------|------|-------|
| | | Calib. | Meas. | S.D. | | |
| Si | 1 | 7.91 | 8.01 | na | na | 1.33 |
| Ti | 1 | 10.84 | 11.02 | na | na | 1.59 |
| Fe | 1 | 11.22 | 11.51 | na | na | 2.60 |
| Se | 1 | 5.19 | 5.42 | na | na | 4.28 |
| Cd | 1 | 6.87 | 6.80 | na | na | -1.02 |
| Pb | 1 | 12.57 | 13.22 | na | na | 5.18 |

2. Accuracy Data

NIST Standard Reference Materials: SRM 2783

| Analyte/ SRM | n | Certified Value(µg/cm ²) | Measured Value (µg/cm ²) | | | % Rec. |
|-----------------|---|---|--------------------------------------|--------|-------------------|-----------|
| | | | High | Low | Average | |
| K 2783 | 4 | 0.5301 | 0.4667 | 0.3804 | 0.4402 +/- 0.0348 | 83.0 |
| Ca 2783 | 4 | 1.3253 | 1.1173 | 0.9810 | 1.0795 +/- 0.0570 | 81.5 |
| Ti 2783 | 4 | 0.1496 | 0.1416 | 0.1387 | 0.1398 +/- 0.0011 | 93.5 |
| Fe 2783 | 4 | 2.6606 | 2.5045 | 2.3095 | 2.4483 +/- 0.0803 | 92.0 |
| Cu 2783 | 4 | 0.0406 | 0.0372 | 0.0292 | 0.0339 +/- 0.0031 | 83.4 |
| Zn 2783 | 4 | 0.1797 | 0.2133 | 0.1995 | 0.2079 +/- 0.0051 | 115.7 |
| Pb 2783 | 4 | 0.0318 | 0.0345 | 0.0298 | 0.0324 +/- 0.0018 | 102.0 |

3. Addendum

Micromatter Certified Reference Materials

| CRM | Analytes | Certified Value(µg/cm ²) | Measured Value(µg/cm ²) | % Rec. |
|-------|----------|---|--|-----------|
| 39149 | Cr | 53.7 | 51.8 | 96.5 |
| 39150 | Cu | 49.4 | 46.7 | 94.5 |
| 39151 | Zn, Te | 49.8 | 48.6 | 97.6 |
| 39152 | Ga, As | 50.9 | 50.0 | 98.3 |
| 39153 | Se, Cd | 47.1 | 46.8 | 99.4 |
| 39154 | Pb | 47.9 | 46.9 | 97.8 |

NIST: National Institute of Standards and Technology

% Rec: Percent Recovery = (Experimental/Given) x 100

n: Number of Observations

S.D.: Standard Deviation

c.v.: Coefficient of Variation = (S.D./Measured) x 100

% E: Percent Error = [(Measured-Calibrated)/Calibrated] x 100

This is an analysis of a single sample multiple times. Ideally, the analyses would match perfectly, but no analyzer is perfect. The RPD shows how different the results of one analysis are from another. Either the RPD or the absolute difference should be small to indicate that the instrument is measuring precisely.

QUANT'X 1020 REPLICATE REPORT

2.13

Original ID: 19T3963

Replicate ID: RT3963

| Element | Original ug/cm2 | | Replicate ug/cm2 | | Difference ug/cm2 | | | RPD | |
|---------|--------------------|------------|---------------------|------------|----------------------|------------|---|-------|----------|
| Na | 0.2186 | +/- 0.0556 | 0.2303 | +/- 0.0558 | -0.0117 | +/- 0.0788 | + | -5.2 | +/- 35.1 |
| Mg | 0.1083 | +/- 0.0143 | 0.0833 | +/- 0.0138 | 0.0250 | +/- 0.0199 | 0 | 26.1 | +/- 20.8 |
| Al | 0.1219 | +/- 0.0082 | 0.1103 | +/- 0.0082 | 0.0116 | +/- 0.0116 | 0 | 10.0 | +/- 10.0 |
| Si | 0.2775 | +/- 0.0144 | 0.2619 | +/- 0.0137 | 0.0156 | +/- 0.0199 | + | 5.8 | +/- 7.4 |
| P | 0.0271 | +/- 0.0023 | 0.0302 | +/- 0.0024 | -0.0031 | +/- 0.0034 | + | -10.8 | +/- 11.7 |
| S | 0.4046 | +/- 0.0206 | 0.4002 | +/- 0.0203 | 0.0044 | +/- 0.0289 | + | 1.1 | +/- 7.2 |
| Cl | 0.0485 | +/- 0.0039 | 0.0449 | +/- 0.0038 | 0.0036 | +/- 0.0055 | + | 7.7 | +/- 11.7 |
| K | 0.1695 | +/- 0.0086 | 0.1597 | +/- 0.0081 | 0.0098 | +/- 0.0118 | + | 6.0 | +/- 7.2 |
| Ca | 0.1830 | +/- 0.0092 | 0.1773 | +/- 0.0089 | 0.0057 | +/- 0.0128 | + | 3.2 | +/- 7.1 |
| Sc | 0.0051 | +/- 0.0012 | 0.0053 | +/- 0.0012 | -0.0002 | +/- 0.0017 | + | -3.8 | +/- 32.4 |
| Ti | 0.0071 | +/- 0.0007 | 0.0082 | +/- 0.0008 | -0.0010 | +/- 0.0011 | + | -13.6 | +/- 14.0 |
| V | 0.0000 | +/- 0.0008 | 0.0012 | +/- 0.0008 | -0.0012 | +/- 0.0011 | | | |
| Cr | 0.0000 | +/- 0.0006 | 0.0000 | +/- 0.0006 | 0.0000 | +/- 0.0009 | | | |
| Mn | 0.0047 | +/- 0.0012 | 0.0037 | +/- 0.0012 | 0.0010 | +/- 0.0017 | + | 24.6 | +/- 41.4 |
| Fe | 0.0896 | +/- 0.0045 | 0.0883 | +/- 0.0045 | 0.0013 | +/- 0.0063 | + | 1.5 | +/- 7.1 |
| Co | 0.0000 | +/- 0.0008 | 0.0000 | +/- 0.0006 | 0.0000 | +/- 0.0010 | | | |
| Ni | 0.0000 | +/- 0.0005 | 0.0002 | +/- 0.0005 | -0.0002 | +/- 0.0007 | | | |
| Cu | 0.0034 | +/- 0.0004 | 0.0030 | +/- 0.0004 | 0.0005 | +/- 0.0006 | + | 14.3 | +/- 19.6 |
| Zn | 0.0096 | +/- 0.0006 | 0.0109 | +/- 0.0007 | -0.0014 | +/- 0.0009 | 0 | -13.6 | +/- 8.7 |
| Ga | 0.0006 | +/- 0.0003 | 0.0005 | +/- 0.0003 | 0.0001 | +/- 0.0005 | | | |
| As | 0.0005 | +/- 0.0005 | 0.0008 | +/- 0.0005 | -0.0003 | +/- 0.0008 | | | |
| Se | 0.0000 | +/- 0.0004 | 0.0000 | +/- 0.0004 | 0.0000 | +/- 0.0005 | | | |
| Br | 0.0037 | +/- 0.0005 | 0.0048 | +/- 0.0004 | -0.0012 | +/- 0.0006 | 0 | -28.0 | +/- 14.9 |
| Rb | 0.0008 | +/- 0.0004 | 0.0018 | +/- 0.0004 | -0.0010 | +/- 0.0005 | | | |
| Sr | 0.0015 | +/- 0.0005 | 0.0018 | +/- 0.0005 | -0.0003 | +/- 0.0008 | | | |
| Y | 0.0000 | +/- 0.0007 | 0.0003 | +/- 0.0007 | -0.0003 | +/- 0.0009 | | | |
| Zr | 0.0026 | +/- 0.0008 | 0.0011 | +/- 0.0008 | 0.0015 | +/- 0.0011 | 0 | 81.1 | +/- 58.2 |
| Nb | 0.0000 | +/- 0.0011 | 0.0012 | +/- 0.0011 | -0.0012 | +/- 0.0015 | | | |
| Mo | 0.0000 | +/- 0.0014 | 0.0024 | +/- 0.0014 | -0.0024 | +/- 0.0020 | | | |
| Ag | 0.0049 | +/- 0.0023 | 0.0059 | +/- 0.0023 | -0.0010 | +/- 0.0033 | | | |
| Cd | 0.0000 | +/- 0.0032 | 0.0000 | +/- 0.0032 | 0.0000 | +/- 0.0045 | | | |
| In | 0.0000 | +/- 0.0038 | 0.0000 | +/- 0.0038 | 0.0000 | +/- 0.0054 | | | |
| Sn | 0.0090 | +/- 0.0042 | 0.0140 | +/- 0.0043 | -0.0050 | +/- 0.0060 | | | |
| Sb | 0.0000 | +/- 0.0082 | 0.0030 | +/- 0.0082 | -0.0030 | +/- 0.0116 | | | |
| Cs | 0.0000 | +/- 0.0014 | 0.0000 | +/- 0.0014 | 0.0000 | +/- 0.0019 | | | |
| Ba | 0.0000 | +/- 0.0019 | 0.0000 | +/- 0.0019 | 0.0000 | +/- 0.0027 | | | |
| La | 0.0000 | +/- 0.0016 | 0.0000 | +/- 0.0016 | 0.0000 | +/- 0.0023 | | | |
| Ce | 0.0000 | +/- 0.0017 | 0.0020 | +/- 0.0017 | -0.0020 | +/- 0.0025 | | | |
| Sm | 0.0000 | +/- 0.0018 | 0.0000 | +/- 0.0018 | 0.0000 | +/- 0.0026 | | | |
| Eu | 0.0001 | +/- 0.0019 | 0.0000 | +/- 0.0019 | 0.0001 | +/- 0.0028 | | | |
| Tb | 0.0000 | +/- 0.0038 | 0.0000 | +/- 0.0038 | 0.0000 | +/- 0.0054 | | | |
| Hf | 0.0008 | +/- 0.0009 | 0.0015 | +/- 0.0009 | -0.0007 | +/- 0.0013 | | | |
| Ta | 0.0032 | +/- 0.0016 | 0.0000 | +/- 0.0016 | 0.0032 | +/- 0.0023 | | | |
| W | 0.0009 | +/- 0.0008 | 0.0000 | +/- 0.0008 | 0.0009 | +/- 0.0011 | | | |
| Ir | 0.0005 | +/- 0.0006 | 0.0000 | +/- 0.0006 | 0.0005 | +/- 0.0009 | | | |
| Au | 0.0016 | +/- 0.0006 | 0.0008 | +/- 0.0006 | 0.0009 | +/- 0.0008 | | | |
| Hg | 0.0015 | +/- 0.0009 | 0.0000 | +/- 0.0009 | 0.0015 | +/- 0.0013 | | | |
| Pb | 0.0024 | +/- 0.0014 | 0.0021 | +/- 0.0014 | 0.0003 | +/- 0.0020 | | | |

RPD: Relative Percent Difference $(X1-X2)/[(X1+X2)/2]*100$. RPD is calculated when original value is greater than three times its uncertainty.

CHAIN-OF-CUSTODY RECORD

For use by Lab:
Report #: **20-372**

| CLIENT INFORMATION | | | | Page of <u>COCs</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Company Name: SMAQMD | | Contact: Levi Ford Email: iford@airquality.org | | <table border="1"> <thead> <tr> <th colspan="4">Analysis Requested</th> <th colspan="2">Turn Around Time Requested</th> </tr> <tr> <th>Gravimetry</th> <th>XRF</th> <th>IC</th> <th>ICP</th> <th>OC/EC</th> <th>Standard</th> <th>Rush (Specify)</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | Analysis Requested | | | | Turn Around Time Requested | | Gravimetry | XRF | IC | ICP | OC/EC | Standard | Rush (Specify) | X | X | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | X | X | | | | <input type="checkbox"/> | <input type="checkbox"/> | X | X | | | | <input type="checkbox"/> | <input type="checkbox"/> | X | X | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| Analysis Requested | | | | | | | | Turn Around Time Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gravimetry | XRF | IC | ICP | | | | | OC/EC | Standard | Rush (Specify) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Cell: | | Office: 916-874-4868 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Report To: Levi Ford 777 12th Street Sacramento, CA 95814 | | Billing Address: 777 12th Street Sacramento, CA 95814 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: AB617 | | PO#: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LabNet ID | Field Sample ID | Site | Sample Date | Volume (m ³) | Particle Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19T3961 | Impact | 8/25/20 | 7.2 | 2.5µm | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19T3963 | Florn | 8/25/20 | 7.2 | 2.5µm | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19T3964 | Sump50 | 8/25/20 | 7.2 | 2.5µm | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19T3960 | Station 56 | 8/25/20 | 7.2 | 2.5µm | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Do the samples pose any potential hazards? If yes please explain: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | Are samples for compliance? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Instructions/QC Requirements & Comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: <i>Ford</i> | | Date/Time: 9/2/20 14:00 | | Received By: <i>Joe Ball</i> | | Date/Time/Temp: 9/3/20 13:20 3.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: | | Date/Time: | | Received By: | | Date/Time/Temp: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Laboratory Receipt Comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RAW DATA

Available upon request