



Tetra Tech Inc (HI)
737 Bishop St, Suite 2340
Honolulu, Hawaii 96813
Tel: 808-441-6600
Email: Yvonne.parry@Tetrattech.com

RE: DOH Maui Wildfire Ash Sample-LAHAINA ASH DU-1

Work Order No.: 2311115

Dear Eric Jensen:

Torrent Laboratory, Inc. received 1 sample(s) on November 14, 2023 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink that reads "Kathie Evans". The signature is written in a cursive style and is positioned above a horizontal line.

Kathie Evans
Project Manager

December 05, 2023

Date



Date: 12/5/2023

Client: Tetra Tech Inc(HI)

Project: DOH Maui Wildfire Ash Sample-LAHAINA ASH DU-1

Work Order: 2311115

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

Analytical Comments, General: The samples were processed under Incremental Sampling Procedure/Multi Incremental Sampling SOP SVO-2055 but sieved through a 250 micron sieve

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

Analytical Comments, General: The samples were processed under Incremental Sampling Procedure/Multi Incremental Sampling SOP SVO-2055 but sieved through a 250 micron sieve

Analytical comment for Bioaccessible Arsenic: Extraction procedure matched guidelines detailed in the SBRC method.

SPLP

Note: Extraction of 100 g sample/2000 g SPLP Fluid #2 was performed according to SP Leaching Procedure(SW-846 1312 SPLP) which was rotated in a rotary shaker @ 32 RPM for 18 hours (+/- 2 hours).

Date Prepared: 11/16/23 at 2:00 PM to 11/17/23 at 9:30 AM

Analytical Comments for method 8270C PAHSIM, 2311115001MS, QC Preparation Batch ID 1156131, Note: The % recovery and % RPD for Pyrene are outside of laboratory control limits. The associated LCS/LCSD is within both % Recovery and % RPD limits. No corrective action required.

Analytical Comments for method 8015B, 2311115001MS/MSD, QC Preparation Batch ID 1156129, Note: The % recoveries for Diesel are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and % RPD limits. No corrective action required.



Analytical Comments for method 8081, 2311115001MS/MSD, QC Preparation Batch ID 1156201, Note:The % recoveries did not meet acceptance criteria. The associated LCS/LCSD is within both % Recovery and % RPD limits. No corrective action required.

Analytical Comments for method 7471B, 2311115001MS/MSD, QC Preparation Batch ID 1156351, Note:The % recoveries for Mercury are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and % RPD limits. No corrective action required.

Analytical Comments for method 6010B, 2311115001MS/MSD, QC Preparation Batch ID 1156354, Note:The % recoveries for Nickel are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and % RPD limits. No corrective action required.

The spikes in the MS/MSD for Arsenic, Barium, Chromium, Copper, Lead, Aluminum, Calcium, Iron, Magnesium, Manganese, Potassium and Sodium are not recoverable. The sample concentration is greater than 4X the spike concentration. No corrective action is required.

Analytical Comments for method 6010B IVBA, 2311115001MSD, QC Preparation Batch ID 1156340, Note:The % recovery for bioaccessible Arsenic is outside of laboratory control limits; % MS recovery and % RPD are within limits. The associated LCS/LCSD is within both % Recovery and % RPD limits. No corrective action required.



Sample Result Summary

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date Received: 11/14/23

Date Reported: 12/05/23

2311115-001

LAHAINA ASH DU-1

| <u>Parameters:</u> | <u>Analysis Method</u> | <u>DF</u> | <u>MDL</u> | <u>PQL</u> | <u>Results</u> | <u>Unit</u> |
|-----------------------|------------------------|-----------|------------|------------|----------------|-------------|
| Barium (SPLP) | SW6010B | 1 | 0.020 | 0.20 | 0.208 | mg/L |
| Chromium (SPLP) | SW6010B | 1 | 0.010 | 0.20 | 0.948 | mg/L |
| Lead (SPLP) | SW6010B | 1 | 0.050 | 0.20 | 0.350 | mg/L |
| Zinc (SPLP) | SW6010B | 1 | 0.080 | 0.20 | 0.909 | mg/L |
| Bioaccessible Arsenic | SW6010B | 1 | 0.00200 | 0.0200 | 23.1 | IVBA % |
| Antimony | SW6010C | 20 | 0.50 | 50 | 25.8 | mg/Kg |
| Arsenic | SW6010C | 20 | 1.5 | 13 | 297 | mg/Kg |
| Barium | SW6010C | 20 | 0.54 | 50 | 231 | mg/Kg |
| Beryllium | SW6010C | 20 | 0.54 | 50 | 0.644 | mg/Kg |
| Cadmium | SW6010C | 20 | 0.99 | 50 | 3.17 | mg/Kg |
| Chromium | SW6010C | 20 | 0.74 | 50 | 136 | mg/Kg |
| Cobalt | SW6010C | 20 | 0.69 | 50 | 27.4 | mg/Kg |
| Copper | SW6010C | 20 | 2.0 | 50 | 1400 | mg/Kg |
| Lead | SW6010C | 20 | 0.99 | 30 | 383 | mg/Kg |
| Nickel | SW6010C | 20 | 5.0 | 50 | 71.3 | mg/Kg |
| Silver | SW6010C | 20 | 1.5 | 5.0 | 8.42 | mg/Kg |
| Vanadium | SW6010C | 20 | 0.99 | 50 | 55.0 | mg/Kg |
| Zinc | SW6010C | 20 | 3.0 | 50 | 2040 | mg/Kg |
| Aluminum | SW6010C | 20 | 210 | 990 | 10900 | mg/Kg |
| Calcium | SW6010C | 20 | 120 | 500 | 278000 | mg/Kg |
| Iron | SW6010C | 20 | 170 | 500 | 8710 | mg/Kg |
| Magnesium | SW6010C | 20 | 50 | 500 | 10100 | mg/Kg |
| Manganese | SW6010C | 20 | 8.4 | 50 | 299 | mg/Kg |
| Potassium | SW6010C | 20 | 47 | 500 | 1470 | mg/Kg |
| Sodium | SW6010C | 20 | 1300 | 3000 | 3380 | mg/Kg |
| Antimony | SW6010C | 20 | 0.50 | 50 | 24.0 | mg/Kg |
| Arsenic | SW6010C | 20 | 1.5 | 13 | 269 | mg/Kg |
| Barium | SW6010C | 20 | 0.55 | 50 | 234 | mg/Kg |
| Cadmium | SW6010C | 20 | 1.00 | 50 | 3.93 | mg/Kg |
| Chromium | SW6010C | 20 | 0.75 | 50 | 157 | mg/Kg |
| Cobalt | SW6010C | 20 | 0.70 | 50 | 23.0 | mg/Kg |
| Copper | SW6010C | 20 | 2.0 | 50 | 1970 | mg/Kg |
| Lead | SW6010C | 20 | 1.00 | 30 | 416 | mg/Kg |
| Nickel | SW6010C | 20 | 5.0 | 50 | 79.1 | mg/Kg |
| Silver | SW6010C | 20 | 1.5 | 5.0 | 9.70 | mg/Kg |
| Vanadium | SW6010C | 20 | 1.00 | 50 | 52.2 | mg/Kg |
| Zinc | SW6010C | 20 | 3.0 | 50 | 2370 | mg/Kg |
| Aluminum | SW6010C | 20 | 210 | 1000 | 11700 | mg/Kg |
| Calcium | SW6010C | 20 | 120 | 500 | 270000 | mg/Kg |
| Iron | SW6010C | 20 | 170 | 500 | 9750 | mg/Kg |
| Magnesium | SW6010C | 20 | 50 | 500 | 9900 | mg/Kg |
| Manganese | SW6010C | 20 | 8.5 | 50 | 311 | mg/Kg |
| Potassium | SW6010C | 20 | 47 | 500 | 1570 | mg/Kg |
| Sodium | SW6010C | 20 | 1300 | 3000 | 3670 | mg/Kg |
| Antimony | SW6010C | 20 | 0.50 | 50 | 25.6 | mg/Kg |
| Arsenic | SW6010C | 20 | 1.5 | 13 | 275 | mg/Kg |



Sample Result Summary

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date Received: 11/14/23

Date Reported: 12/05/23

2311115-001

LAHAINA ASH DU-1 Triplicate

| <u>Parameters:</u> | <u>Analysis Method</u> | <u>DF</u> | <u>MDL</u> | <u>PQL</u> | <u>Results</u> | <u>Unit</u> |
|---------------------|------------------------|-----------|------------|------------|----------------|-------------|
| Barium | SW6010C | 20 | 0.55 | 50 | 207 | mg/Kg |
| Cadmium | SW6010C | 20 | 1.0 | 50 | 2.66 | mg/Kg |
| Chromium | SW6010C | 20 | 0.75 | 50 | 130 | mg/Kg |
| Cobalt | SW6010C | 20 | 0.70 | 50 | 25.7 | mg/Kg |
| Copper | SW6010C | 20 | 2.0 | 50 | 1630 | mg/Kg |
| Lead | SW6010C | 20 | 1.0 | 30 | 431 | mg/Kg |
| Nickel | SW6010C | 20 | 5.0 | 50 | 71.4 | mg/Kg |
| Silver | SW6010C | 20 | 1.5 | 5.0 | 10.4 | mg/Kg |
| Vanadium | SW6010C | 20 | 1.0 | 50 | 51.8 | mg/Kg |
| Zinc | SW6010C | 20 | 3.0 | 50 | 2270 | mg/Kg |
| Aluminum | SW6010C | 20 | 210 | 1000 | 11300 | mg/Kg |
| Calcium | SW6010C | 20 | 120 | 500 | 262000 | mg/Kg |
| Iron | SW6010C | 20 | 170 | 500 | 8790 | mg/Kg |
| Magnesium | SW6010C | 20 | 51 | 500 | 9800 | mg/Kg |
| Manganese | SW6010C | 20 | 8.5 | 50 | 301 | mg/Kg |
| Potassium | SW6010C | 20 | 47 | 500 | 1470 | mg/Kg |
| Sodium | SW6010C | 20 | 1400 | 3000 | 3430 | mg/Kg |
| TPH as Diesel | SW8015B | 1 | 1.1 | 2.7 | 37.6 | mg/Kg |
| Naphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 45 | ug/Kg |
| 2-Methylnaphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 12 | ug/Kg |
| 1-Methylnaphthalene | SW8270CSIM | 1 | 0.21 | 3.3 | 9.8 | ug/Kg |
| Acenaphthelene | SW8270CSIM | 1 | 0.23 | 3.3 | 4.0 | ug/Kg |
| Phenanthrene | SW8270CSIM | 1 | 0.24 | 3.3 | 32 | ug/Kg |
| Fluoranthene | SW8270CSIM | 1 | 0.23 | 3.3 | 12 | ug/Kg |
| Pyrene | SW8270CSIM | 1 | 0.23 | 3.3 | 13 | ug/Kg |
| Chrysene | SW8270CSIM | 1 | 0.12 | 3.3 | 8.0 | ug/Kg |
| Naphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 37 | ug/Kg |
| 2-Methylnaphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 13 | ug/Kg |
| 1-Methylnaphthalene | SW8270CSIM | 1 | 0.21 | 3.3 | 9.7 | ug/Kg |
| Acenaphthelene | SW8270CSIM | 1 | 0.23 | 3.3 | 7.9 | ug/Kg |
| Fluorene | SW8270CSIM | 1 | 0.27 | 3.3 | 8.8 | ug/Kg |
| Phenanthrene | SW8270CSIM | 1 | 0.24 | 3.3 | 41 | ug/Kg |
| Anthracene | SW8270CSIM | 1 | 0.17 | 3.3 | 5.0 | ug/Kg |
| Fluoranthene | SW8270CSIM | 1 | 0.23 | 3.3 | 17 | ug/Kg |
| Pyrene | SW8270CSIM | 1 | 0.23 | 3.3 | 17 | ug/Kg |
| Benz[a]anthracene | SW8270CSIM | 1 | 0.24 | 3.3 | 3.7 | ug/Kg |
| Chrysene | SW8270CSIM | 1 | 0.12 | 3.3 | 10 | ug/Kg |
| Naphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 31 | ug/Kg |
| 2-Methylnaphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 8.2 | ug/Kg |
| 1-Methylnaphthalene | SW8270CSIM | 1 | 0.21 | 3.3 | 7.0 | ug/Kg |
| Acenaphthelene | SW8270CSIM | 1 | 0.23 | 3.3 | 4.7 | ug/Kg |
| Phenanthrene | SW8270CSIM | 1 | 0.24 | 3.3 | 31 | ug/Kg |
| Anthracene | SW8270CSIM | 1 | 0.17 | 3.3 | 3.5 | ug/Kg |
| Fluoranthene | SW8270CSIM | 1 | 0.23 | 3.3 | 9.2 | ug/Kg |
| Pyrene | SW8270CSIM | 1 | 0.23 | 3.3 | 9.5 | ug/Kg |
| Chrysene | SW8270CSIM | 1 | 0.12 | 3.3 | 6.7 | ug/Kg |



Sample Result Summary

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date Received: 11/14/23

Date Reported: 12/05/23

2311115-001

LAHAINA ASH DU-1

| <u>Parameters:</u> | <u>Analysis Method</u> | <u>DF</u> | <u>MDL</u> | <u>PQL</u> | <u>Results</u> | <u>Unit</u> |
|---------------------|------------------------|-----------|------------|------------|----------------|-------------|
| 12378-PeCDF | SW8290Mod | 1 | 1.0 | 5.0 | 44.7 | pg/g |
| 23478-PeCDF | SW8290Mod | 1 | 0.68 | 5.0 | 125 | pg/g |
| 123478-HxCDF | SW8290Mod | 1 | 0.51 | 5.0 | 100 | pg/g |
| 123678-HxCDF | SW8290Mod | 1 | 1.1 | 5.0 | 60.5 | pg/g |
| 234678-HxCDF | SW8290Mod | 1 | 1.5 | 5.0 | 107 | pg/g |
| 123789-HxCDF | SW8290Mod | 1 | 1.9 | 5.0 | 26.8 | pg/g |
| 1234789-HpCDF | SW8290Mod | 1 | 1.1 | 5.0 | 34.9 | pg/g |
| OCDF | SW8290Mod | 1 | 1.5 | 25 | 164 | pg/g |
| 12378-PeCDD | SW8290Mod | 1 | 1.1 | 5.0 | 16.1 | pg/g |
| 123478-HxCDD | SW8290Mod | 1 | 0.94 | 5.0 | 24.6 | pg/g |
| 123678-HxCDD | SW8290Mod | 1 | 1.3 | 5.0 | 26.9 | pg/g |
| 123789-HxCDD | SW8290Mod | 1 | 3.3 | 5.0 | 16.7 | pg/g |
| 1234678-HpCDD | SW8290Mod | 1 | 1.6 | 5.0 | 220 | pg/g |
| OCDD | SW8290Mod | 1 | 4.4 | 25 | 457 | pg/g |
| Total-Dioxins | SW8290Mod | 1 | 0.21 | 0.50 | 761 | pg/g |
| Total-Furans | SW8290Mod | 1 | 0.22 | 0.50 | 663 | pg/g |
| Total-TEQ | SW8290Mod | 1 | | | 93.9 | pg/g |
| 1,2,3,7,8-PeCDF | SW8290Mod | 1 | 1.0 | 5.0 | 50.4 | pg/g |
| 2,3,4,7,8-PeCDF | SW8290Mod | 1 | 0.68 | 5.0 | 149 | pg/g |
| 1,2,3,4,7,8-HxCDF | SW8290Mod | 1 | 0.50 | 5.0 | 116 | pg/g |
| 1,2,3,6,7,8-HxCDF | SW8290Mod | 1 | 1.1 | 5.0 | 64.2 | pg/g |
| 2,3,4,6,7,8-HxCDF | SW8290Mod | 1 | 1.5 | 5.0 | 113 | pg/g |
| 1,2,3,7,8,9-HxCDF | SW8290Mod | 1 | 1.9 | 5.0 | 28.6 | pg/g |
| 1,2,3,4,7,8,9-HpCDF | SW8290Mod | 1 | 1.1 | 5.0 | 35.8 | pg/g |
| OCDF | SW8290Mod | 1 | 1.5 | 25 | 184 | pg/g |
| 1,2,3,7,8-PeCDD | SW8290Mod | 1 | 1.1 | 5.0 | 14.5 | pg/g |
| 1,2,3,4,7,8-HxCDD | SW8290Mod | 1 | 0.93 | 5.0 | 24.5 | pg/g |
| 1,2,3,6,7,8-HxCDD | SW8290Mod | 1 | 1.3 | 5.0 | 29.9 | pg/g |
| 1,2,3,7,8,9-HxCDD | SW8290Mod | 1 | 3.2 | 5.0 | 17.3 | pg/g |
| 1,2,3,4,6,7,8-HpCDD | SW8290Mod | 1 | 1.6 | 5.0 | 236 | pg/g |
| OCDD | SW8290Mod | 1 | 4.4 | 25 | 464 | pg/g |
| Total-Dioxins | SW8290Mod | 1 | 0.21 | 0.50 | 787 | pg/g |
| Total-Furans | SW8290Mod | 1 | 0.22 | 0.50 | 741 | pg/g |
| TEQ | SW8290Mod | 1 | | | 103 | pg/g |



Sample Result Summary

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date Received: 11/14/23

Date Reported: 12/05/23

LAHAINA ASH DU-1 Triplicate

2311115-001

| <u>Parameters:</u> | <u>Analysis Method</u> | <u>DF</u> | <u>MDL</u> | <u>PQL</u> | <u>Results</u> | <u>Unit</u> |
|---------------------|------------------------|-----------|------------|------------|----------------|-------------|
| 1,2,3,7,8-PeCDF | SW8290Mod | 1 | 0.98 | 4.8 | 50.6 | pg/g |
| 2,3,4,7,8-PeCDF | SW8290Mod | 1 | 0.65 | 4.8 | 145 | pg/g |
| 1,2,3,4,7,8-HxCDF | SW8290Mod | 1 | 0.48 | 4.8 | 109 | pg/g |
| 1,2,3,6,7,8-HxCDF | SW8290Mod | 1 | 1.1 | 4.8 | 62.9 | pg/g |
| 2,3,4,6,7,8-HxCDF | SW8290Mod | 1 | 1.4 | 4.8 | 108 | pg/g |
| 1,2,3,7,8,9-HxCDF | SW8290Mod | 1 | 1.8 | 4.8 | 28.2 | pg/g |
| 1,2,3,4,7,8,9-HpCDF | SW8290Mod | 1 | 1.1 | 4.8 | 35.8 | pg/g |
| OCDF | SW8290Mod | 1 | 1.4 | 24 | 180 | pg/g |
| 1,2,3,7,8-PeCDD | SW8290Mod | 1 | 1.1 | 4.8 | 15.1 | pg/g |
| 1,2,3,4,7,8-HxCDD | SW8290Mod | 1 | 0.89 | 4.8 | 24.5 | pg/g |
| 1,2,3,6,7,8-HxCDD | SW8290Mod | 1 | 1.3 | 4.8 | 27.2 | pg/g |
| 1,2,3,7,8,9-HxCDD | SW8290Mod | 1 | 3.1 | 4.8 | 17.3 | pg/g |
| 1,2,3,4,6,7,8-HpCDD | SW8290Mod | 1 | 1.5 | 4.8 | 205 | pg/g |
| OCDD | SW8290Mod | 1 | 4.2 | 24 | 421 | pg/g |
| Total-Dioxins | SW8290Mod | 1 | 0.20 | 0.48 | 710 | pg/g |
| Total-Furans | SW8290Mod | 1 | 0.21 | 0.48 | 719 | pg/g |
| TEQ | SW8290Mod | 1 | | | 100 | pg/g |



SAMPLE RESULTS

Report prepared for: Eric Jensen
 Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 | Lab Sample ID: | 2311115-001A |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|-------------------------------|---------------------------------------|-----------|
| Prep Method: 7471BP | Prep Batch Date/Time: 11/27/23 | 1:50:00PM |
| Prep Batch ID: 1156351 | Prep Analyst: GSHMA | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-------------|-----------------|----|-------|------|---------|---|-------|----------|-------|------|------------------|
| Mercury | SW7471B | 1 | 0.049 | 0.29 | ND | | mg/Kg | 11/28/23 | 11:31 | BJAY | 479879 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
 Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 | Lab Sample ID: | 2311115-001A |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | |
|-------------------------------|--|
| Prep Method: 1312/7470 | Prep Batch Date/Time: 11/17/23 11:30:00AM |
| Prep Batch ID: 1156202 | Prep Analyst: ROME |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|----------------|-----------------|----|---------|-------|---------|---|-------|----------|-------|------|------------------|
| Mercury (SPLP) | SW7470A | 1 | 0.00013 | 0.020 | ND | | mg/L | 11/20/23 | 11:08 | BJAY | 479741 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|------------------------|---|----------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 | Lab Sample ID: | 2311115-001A |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|------------------------|--------------------------------|-----------|
| Prep Method: 3050B | Prep Batch Date/Time: 11/27/23 | 1:00:00PM |
| Prep Batch ID: 1156354 | Prep Analyst: GSHMA | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-------------|-----------------|----|-----|-----|---------|---|-------|----------|------|----|------------------|
|-------------|-----------------|----|-----|-----|---------|---|-------|----------|------|----|------------------|

The results shown below are reported using their MDL.

| | | | | | | | | | | | |
|-----------|---------|----|------|------|--------|---|-------|----------|-------|----|--------|
| Antimony | SW6010C | 20 | 0.50 | 50 | 25.8 | J | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Arsenic | SW6010C | 20 | 1.5 | 13 | 297 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Barium | SW6010C | 20 | 0.54 | 50 | 231 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Beryllium | SW6010C | 20 | 0.54 | 50 | 0.644 | J | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Cadmium | SW6010C | 20 | 0.99 | 50 | 3.17 | J | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Chromium | SW6010C | 20 | 0.74 | 50 | 136 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Cobalt | SW6010C | 20 | 0.69 | 50 | 27.4 | J | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Copper | SW6010C | 20 | 2.0 | 50 | 1400 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Lead | SW6010C | 20 | 0.99 | 30 | 383 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Nickel | SW6010C | 20 | 5.0 | 50 | 71.3 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Selenium | SW6010C | 20 | 3.5 | 11 | ND | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Silver | SW6010C | 20 | 1.5 | 5.0 | 8.42 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Thallium | SW6010C | 20 | 2.0 | 50 | ND | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Vanadium | SW6010C | 20 | 0.99 | 50 | 55.0 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Zinc | SW6010C | 20 | 3.0 | 50 | 2040 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Aluminum | SW6010C | 20 | 210 | 990 | 10900 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Calcium | SW6010C | 20 | 120 | 500 | 278000 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Iron | SW6010C | 20 | 170 | 500 | 8710 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Magnesium | SW6010C | 20 | 50 | 500 | 10100 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Manganese | SW6010C | 20 | 8.4 | 50 | 299 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Potassium | SW6010C | 20 | 47 | 500 | 1470 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |
| Sodium | SW6010C | 20 | 1300 | 3000 | 3380 | | mg/Kg | 11/28/23 | 19:46 | PH | 480014 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 | Lab Sample ID: | 2311115-001A |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|--------------------------------|---------------------------------------|------------|
| Prep Method: 1312/3010A | Prep Batch Date/Time: 11/17/23 | 11:30:00AM |
| Prep Batch ID: 1156199 | Prep Analyst: ROME | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-------------------|-----------------|----|-------|------|--------------|---|-------|----------|-------|-----|------------------|
| Antimony (SPLP) | SW6010B | 1 | 0.10 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Arsenic (SPLP) | SW6010B | 1 | 0.20 | 0.40 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Barium (SPLP) | SW6010B | 1 | 0.020 | 0.20 | 0.208 | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Beryllium (SPLP) | SW6010B | 1 | 0.010 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Cadmium (SPLP) | SW6010B | 1 | 0.040 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Chromium (SPLP) | SW6010B | 1 | 0.010 | 0.20 | 0.948 | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Cobalt (SPLP) | SW6010B | 1 | 0.010 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Copper (SPLP) | SW6010B | 1 | 0.020 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Lead (SPLP) | SW6010B | 1 | 0.050 | 0.20 | 0.350 | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Molybdenum (SPLP) | SW6010B | 1 | 0.020 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Nickel (SPLP) | SW6010B | 1 | 0.010 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Selenium (SPLP) | SW6010B | 1 | 0.090 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Silver (SPLP) | SW6010B | 1 | 0.020 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Thallium (SPLP) | SW6010B | 1 | 0.12 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Vanadium (SPLP) | SW6010B | 1 | 0.020 | 0.20 | ND | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |
| Zinc (SPLP) | SW6010B | 1 | 0.080 | 0.20 | 0.909 | | mg/L | 11/17/23 | 18:22 | ERR | 479721 |



SAMPLE RESULTS

Report prepared for:

Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am

Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 | Lab Sample ID: | 2311115-001A |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|---------------------------------|---------------------------------------|-----------|
| Prep Method: 3546_PAHSIM | Prep Batch Date/Time: 11/15/23 | 2:39:00PM |
| Prep Batch ID: 1156131 | Prep Analyst: MSAT | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|------------------------|-----------------|----|----------|-----|---------|---|-------|----------|-------|----|------------------|
| Naphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 45 | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| 2-Methylnaphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 12 | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| 1-Methylnaphthalene | SW8270CSIM | 1 | 0.21 | 3.3 | 9.8 | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Acenaphthelene | SW8270CSIM | 1 | 0.23 | 3.3 | 4.0 | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Acenaphthene | SW8270CSIM | 1 | 0.24 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Fluorene | SW8270CSIM | 1 | 0.27 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Phenanthrene | SW8270CSIM | 1 | 0.24 | 3.3 | 32 | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Anthracene | SW8270CSIM | 1 | 0.17 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Fluoranthene | SW8270CSIM | 1 | 0.23 | 3.3 | 12 | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Pyrene | SW8270CSIM | 1 | 0.23 | 3.3 | 13 | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Benz[a]anthracene | SW8270CSIM | 1 | 0.24 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Chrysene | SW8270CSIM | 1 | 0.12 | 3.3 | 8.0 | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Benzo[b]fluoranthene | SW8270CSIM | 1 | 0.41 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Benzo[k]fluoranthene | SW8270CSIM | 1 | 0.48 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Benzo[a]pyrene | SW8270CSIM | 1 | 0.35 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Indeno[1,2,3-cd]pyrene | SW8270CSIM | 1 | 0.50 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Dibenz[a,h]anthracene | SW8270CSIM | 1 | 0.55 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Benzo[g,h,i]perylene | SW8270CSIM | 1 | 0.50 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:19 | MT | 479659 |
| Acceptance Limits | | | | | | | | | | | |
| 2-Fluorobiphenyl (S) | SW8270CSIM | | 45 - 125 | | 60 | | % | 11/15/23 | 17:19 | MT | 479659 |
| p-Terphenyl-d14 (S) | SW8270CSIM | | 30 - 125 | | 37 | | % | 11/15/23 | 17:19 | MT | 479659 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 | Lab Sample ID: | 2311115-001A |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|-------------------------------|---------------------------------------|------------|
| Prep Method: 3546_PCB | Prep Batch Date/Time: 11/17/23 | 11:40:00AM |
| Prep Batch ID: 1156189 | Prep Analyst: AKIZ | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-------------------|-----------------|----|----------|-----|-------------|---|-------|----------|-------|----|------------------|
| Aroclor1016 | SW8082A | 1 | 35.0 | 100 | ND | | ug/Kg | 11/20/23 | 14:00 | AK | 479736 |
| Aroclor1221 | SW8082A | 1 | 5.00 | 100 | ND | | ug/Kg | 11/20/23 | 14:00 | AK | 479736 |
| Aroclor1232 | SW8082A | 1 | 17.0 | 100 | ND | | ug/Kg | 11/20/23 | 14:00 | AK | 479736 |
| Aroclor1242 | SW8082A | 1 | 3.00 | 100 | ND | | ug/Kg | 11/20/23 | 14:00 | AK | 479736 |
| Aroclor1248 | SW8082A | 1 | 2.00 | 100 | ND | | ug/Kg | 11/20/23 | 14:00 | AK | 479736 |
| Aroclor1254 | SW8082A | 1 | 14.0 | 100 | ND | | ug/Kg | 11/20/23 | 14:00 | AK | 479736 |
| Aroclor1260 | SW8082A | 1 | 24.0 | 100 | ND | | ug/Kg | 11/20/23 | 14:00 | AK | 479736 |
| Acceptance Limits | | | | | | | | | | | |
| TCMX (S) | SW8082A | | 48 - 125 | | 44.0 | S | % | 11/20/23 | 14:00 | AK | 479736 |
| DCBP (S) | SW8082A | | 48 - 135 | | 46.0 | S | % | 11/20/23 | 14:00 | AK | 479736 |

NOTE: S-surrogate outside of control limits due to possible matrix interference(Ash matrix)



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 | Lab Sample ID: | 2311115-001A |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|--------------------------------|---------------------------------------|-----------|
| Prep Method: 3546MI_OCP | Prep Batch Date/Time: 11/17/23 | 1:05:00PM |
| Prep Batch ID: 1156201 | Prep Analyst: MSAT | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|----------------------|-----------------|----|----------|-----|---------|---|-------|----------|-------|----|------------------|
| alpha-BHC | SW8081B | 1 | 0.13 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| gamma-BHC (Lindane) | SW8081B | 1 | 0.16 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| beta-BHC | SW8081B | 1 | 0.32 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| delta-BHC | SW8081B | 1 | 0.16 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Heptachlor | SW8081B | 1 | 0.11 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Aldrin | SW8081B | 1 | 0.20 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Heptachlor Epoxide | SW8081B | 1 | 0.078 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| gamma-Chlordane | SW8081B | 1 | 0.16 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| alpha-Chlordane | SW8081B | 1 | 0.17 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| 4,4-DDE | SW8081B | 1 | 0.19 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Endosulfan I | SW8081B | 1 | 0.18 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Dieldrin | SW8081B | 1 | 0.15 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Endrin | SW8081B | 1 | 0.19 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| 4,4-DDD | SW8081B | 1 | 0.57 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Endosulfan II | SW8081B | 1 | 0.58 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| 4,4-DDT | SW8081B | 1 | 0.13 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Endrin Aldehyde | SW8081B | 1 | 0.15 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Methoxychlor | SW8081B | 1 | 0.20 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Endosulfan Sulfate | SW8081B | 1 | 0.12 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Endrin Ketone | SW8081B | 1 | 0.094 | 2.0 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Chlordane, Technical | SW8081B | 1 | 2.1 | 20 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Toxaphene | SW8081B | 1 | 8.5 | 50 | ND | | ug/Kg | 11/17/23 | 14:01 | MS | 479848 |
| Acceptance Limits | | | | | | | | | | | |
| TCMX (S) | SW8081B | | 47 - 130 | | 42.4 | S | % | 11/17/23 | 14:01 | MS | 479848 |
| DCBP (S) | SW8081B | | 54 - 125 | | 45.3 | S | % | 11/17/23 | 14:01 | MS | 479848 |

NOTE: S-surrogate outside of control limits due to possible matrix interference (ash matrix).



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 | Lab Sample ID: | 2311115-001A |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|------------------------------------|---------------------------------------|-----------|
| Prep Method: 3546_TPHetraMI | Prep Batch Date/Time: 11/15/23 | 1:07:00PM |
| Prep Batch ID: 1156129 | Prep Analyst: | AKIZ |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-------------------|-----------------|----|----------|-----|-------------|---|-------|----------|-------|----|------------------|
| TPH as Diesel | SW8015B | 1 | 1.1 | 2.7 | 37.6 | x | mg/Kg | 11/15/23 | 15:52 | SN | 479660 |
| Acceptance Limits | | | | | | | | | | | |
| Pentacosane (S) | SW8015B | | 59 - 129 | | 62.3 | | % | 11/15/23 | 15:52 | SN | 479660 |

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics slightly heavier than diesel and over-lapping of oil range quantified as diesel.

| | | |
|-------------------------------|---------------------------------------|-----------|
| Prep Method: 8290S-P | Prep Batch Date/Time: 11/21/23 | 5:10:00PM |
| Prep Batch ID: 1156332 | Prep Analyst: | MSAT |
| | Units: | pg/g |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-----------------------|-----------------|----|-----------------|------|-------------|---|-------|----------|------|----|------------------|
| 2378-TCDF | SW8290Mod | 1 | 0.22 | 0.50 | ND | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 12378-PeCDF | SW8290Mod | 1 | 1.0 | 5.0 | 44.7 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 23478-PeCDF | SW8290Mod | 1 | 0.68 | 5.0 | 125 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 123478-HxCDF | SW8290Mod | 1 | 0.51 | 5.0 | 100 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 123678-HxCDF | SW8290Mod | 1 | 1.1 | 5.0 | 60.5 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 234678-HxCDF | SW8290Mod | 1 | 1.5 | 5.0 | 107 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 123789-HxCDF | SW8290Mod | 1 | 1.9 | 5.0 | 26.8 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 1234678-HpCDF | SW8290Mod | 1 | 1.9 | 5.0 | ND | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 1234789-HpCDF | SW8290Mod | 1 | 1.1 | 5.0 | 34.9 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| OCDF | SW8290Mod | 1 | 1.5 | 25 | 164 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 2378-TCDD | SW8290Mod | 1 | 0.21 | 0.50 | ND | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 12378-PeCDD | SW8290Mod | 1 | 1.1 | 5.0 | 16.1 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 123478-HxCDD | SW8290Mod | 1 | 0.94 | 5.0 | 24.6 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 123678-HxCDD | SW8290Mod | 1 | 1.3 | 5.0 | 26.9 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 123789-HxCDD | SW8290Mod | 1 | 3.3 | 5.0 | 16.7 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| 1234678-HpCDD | SW8290Mod | 1 | 1.6 | 5.0 | 220 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| OCDD | SW8290Mod | 1 | 4.4 | 25 | 457 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| Total-Dioxins | SW8290Mod | 1 | 0.21 | 0.50 | 761 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| Total-Furans | SW8290Mod | 1 | 0.22 | 0.50 | 663 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| Total-TEQ | SW8290Mod | 1 | | | 93.9 | | pg/g | 11/28/23 | 0:33 | TT | 479871 |
| Acceptance Limits | | | | | | | | | | | |
| (LS) 13C-2378-TCDF | SW8290Mod | | 40 - 135 | | 61.3 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-12378-PeCDF | SW8290Mod | | 40 - 135 | | 55.0 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-23478-PeCDF | SW8290Mod | | 40 - 135 | | 73.0 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-123478-HxCDF | SW8290Mod | | 40 - 135 | | 83.1 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-123678-HxCDF | SW8290Mod | | 40 - 135 | | 82.8 | | % | 11/28/23 | 0:33 | TT | 479871 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 | Lab Sample ID: | 2311115-001A |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|-------------------------------|---------------------------------------|-----------|
| Prep Method: 8290S-P | Prep Batch Date/Time: 11/21/23 | 5:10:00PM |
| Prep Batch ID: 1156332 | Prep Analyst: | MSAT |
| | Units: | pg/g |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|------------------------|-----------------|----|----------|-----|---------|---|-------|----------|------|----|------------------|
| (LS) 13C-234678-HxCDF | SW8290Mod | | 40 - 135 | | 81.0 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-123789-HxCDF | SW8290Mod | | 40 - 135 | | 75.2 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-1234678-HpCDF | SW8290Mod | | 40 - 135 | | 77.1 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-1234789-HpCDF | SW8290Mod | | 40 - 135 | | 74.1 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-2378-TCDD | SW8290Mod | | 40 - 135 | | 65.7 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-12378-PeCDD | SW8290Mod | | 40 - 135 | | 73.0 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-123478-HxCDD | SW8290Mod | | 40 - 135 | | 89.3 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-123678-HxCDD | SW8290Mod | | 40 - 135 | | 85.1 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-1234678-HpCDD | SW8290Mod | | 40 - 135 | | 75.3 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (LS) 13C-OCDD | SW8290Mod | | 40 - 135 | | 65.0 | | % | 11/28/23 | 0:33 | TT | 479871 |
| (CRS) 37CI-2378-TCDD | SW8290Mod | | 40 - 135 | | 105 | | % | 11/28/23 | 0:33 | TT | 479871 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
 Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 Duplicate | Lab Sample ID: | 2311115-001B |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|-------------------------------------|---------------------------------------|------------|
| Prep Method: Bioavailable As | Prep Batch Date/Time: 11/27/23 | 10:45:00AM |
| Prep Batch ID: 1156340 | Prep Analyst: ROME | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-----------------------|-----------------|----|---------|--------|---------|---|--------|----------|-------|----|------------------|
| Bioaccessible Arsenic | SW6010B | 1 | 0.00200 | 0.0200 | 23.1 | | IVBA % | 11/27/23 | 14:18 | AT | 479892 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 Duplicate | Lab Sample ID: | 2311115-001B |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|-------------------------------|---------------------------------------|-----------|
| Prep Method: 7471BP | Prep Batch Date/Time: 11/27/23 | 1:50:00PM |
| Prep Batch ID: 1156351 | Prep Analyst: | GSHMA |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-------------|-----------------|----|-------|------|---------|---|-------|----------|-------|------|------------------|
| Mercury | SW7471B | 1 | 0.050 | 0.30 | ND | | mg/Kg | 11/28/23 | 11:37 | BJAY | 479879 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|------------------------|---|----------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 Duplicate | Lab Sample ID: | 2311115-001B |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|------------------------|--------------------------------|-----------|
| Prep Method: 3050B | Prep Batch Date/Time: 11/27/23 | 1:00:00PM |
| Prep Batch ID: 1156354 | Prep Analyst: GSHMA | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-------------|-----------------|----|-----|-----|---------|---|-------|----------|------|----|------------------|
|-------------|-----------------|----|-----|-----|---------|---|-------|----------|------|----|------------------|

The results shown below are reported using their MDL.

| | | | | | | | | | | | |
|-----------|---------|----|------|------|---------------|---|-------|----------|-------|----|--------|
| Antimony | SW6010C | 20 | 0.50 | 50 | 24.0 | J | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Arsenic | SW6010C | 20 | 1.5 | 13 | 269 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Barium | SW6010C | 20 | 0.55 | 50 | 234 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Beryllium | SW6010C | 20 | 0.55 | 50 | ND | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Cadmium | SW6010C | 20 | 1.00 | 50 | 3.93 | J | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Chromium | SW6010C | 20 | 0.75 | 50 | 157 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Cobalt | SW6010C | 20 | 0.70 | 50 | 23.0 | J | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Copper | SW6010C | 20 | 2.0 | 50 | 1970 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Lead | SW6010C | 20 | 1.00 | 30 | 416 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Nickel | SW6010C | 20 | 5.0 | 50 | 79.1 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Selenium | SW6010C | 20 | 3.5 | 11 | ND | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Silver | SW6010C | 20 | 1.5 | 5.0 | 9.70 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Thallium | SW6010C | 20 | 2.0 | 50 | ND | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Vanadium | SW6010C | 20 | 1.00 | 50 | 52.2 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Zinc | SW6010C | 20 | 3.0 | 50 | 2370 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Aluminum | SW6010C | 20 | 210 | 1000 | 11700 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Calcium | SW6010C | 20 | 120 | 500 | 270000 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Iron | SW6010C | 20 | 170 | 500 | 9750 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Magnesium | SW6010C | 20 | 50 | 500 | 9900 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Manganese | SW6010C | 20 | 8.5 | 50 | 311 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Potassium | SW6010C | 20 | 47 | 500 | 1570 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |
| Sodium | SW6010C | 20 | 1300 | 3000 | 3670 | | mg/Kg | 11/28/23 | 19:51 | PH | 480014 |



SAMPLE RESULTS

Report prepared for:

Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am

Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 Duplicate | Lab Sample ID: | 2311115-001B |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|---------------------------------|---------------------------------------|-----------|
| Prep Method: 3546_PAHSIM | Prep Batch Date/Time: 11/15/23 | 2:39:00PM |
| Prep Batch ID: 1156131 | Prep Analyst: | MSAT |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|------------------------|-----------------|----|----------|-----|---------|---|-------|----------|-------|----|------------------|
| Naphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 37 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| 2-Methylnaphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 13 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| 1-Methylnaphthalene | SW8270CSIM | 1 | 0.21 | 3.3 | 9.7 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Acenaphthelene | SW8270CSIM | 1 | 0.23 | 3.3 | 7.9 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Acenaphthene | SW8270CSIM | 1 | 0.24 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Fluorene | SW8270CSIM | 1 | 0.27 | 3.3 | 8.8 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Phenanthrene | SW8270CSIM | 1 | 0.24 | 3.3 | 41 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Anthracene | SW8270CSIM | 1 | 0.17 | 3.3 | 5.0 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Fluoranthene | SW8270CSIM | 1 | 0.23 | 3.3 | 17 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Pyrene | SW8270CSIM | 1 | 0.23 | 3.3 | 17 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Benz[a]anthracene | SW8270CSIM | 1 | 0.24 | 3.3 | 3.7 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Chrysene | SW8270CSIM | 1 | 0.12 | 3.3 | 10 | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Benzo[b]fluoranthene | SW8270CSIM | 1 | 0.41 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Benzo[k]fluoranthene | SW8270CSIM | 1 | 0.48 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Benzo[a]pyrene | SW8270CSIM | 1 | 0.35 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Indeno[1,2,3-cd]pyrene | SW8270CSIM | 1 | 0.50 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Dibenz[a,h]anthracene | SW8270CSIM | 1 | 0.55 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Benzo[g,h,i]perylene | SW8270CSIM | 1 | 0.50 | 3.3 | ND | | ug/Kg | 11/15/23 | 17:49 | MT | 479659 |
| Acceptance Limits | | | | | | | | | | | |
| 2-Fluorobiphenyl (S) | SW8270CSIM | | 45 - 125 | | 69 | | % | 11/15/23 | 17:49 | MT | 479659 |
| p-Terphenyl-d14 (S) | SW8270CSIM | | 30 - 125 | | 52 | | % | 11/15/23 | 17:49 | MT | 479659 |

| | | |
|-------------------------------|---------------------------------------|-----------|
| Prep Method: 8290S-P | Prep Batch Date/Time: 11/21/23 | 5:10:00PM |
| Prep Batch ID: 1156332 | Prep Analyst: | MSAT |
| | Units: | pg/g |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---------------------|-----------------|----|------|------|---------|---|-------|----------|------|----|------------------|
| 2,3,7,8-TCDF | SW8290Mod | 1 | 0.22 | 0.50 | ND | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,7,8-PeCDF | SW8290Mod | 1 | 1.0 | 5.0 | 50.4 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 2,3,4,7,8-PeCDF | SW8290Mod | 1 | 0.68 | 5.0 | 149 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,4,7,8-HxCDF | SW8290Mod | 1 | 0.50 | 5.0 | 116 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,6,7,8-HxCDF | SW8290Mod | 1 | 1.1 | 5.0 | 64.2 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 2,3,4,6,7,8-HxCDF | SW8290Mod | 1 | 1.5 | 5.0 | 113 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,7,8,9-HxCDF | SW8290Mod | 1 | 1.9 | 5.0 | 28.6 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,4,6,7,8-HpCDF | SW8290Mod | 1 | 1.8 | 5.0 | ND | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,4,7,8,9-HpCDF | SW8290Mod | 1 | 1.1 | 5.0 | 35.8 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| OCDF | SW8290Mod | 1 | 1.5 | 25 | 184 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |



SAMPLE RESULTS

Report prepared for:

Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am

Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 Duplicate | Lab Sample ID: | 2311115-001B |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|-------------------------------|---------------------------------------|-----------|
| Prep Method: 8290S-P | Prep Batch Date/Time: 11/21/23 | 5:10:00PM |
| Prep Batch ID: 1156332 | Prep Analyst: MSAT | |
| | Units: pg/g | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|------------------------------|-----------------|----|-----------------|------|-------------|---|-------|----------|------|----|------------------|
| 2,3,7,8-TCDD | SW8290Mod | 1 | 0.21 | 0.50 | ND | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,7,8-PeCDD | SW8290Mod | 1 | 1.1 | 5.0 | 14.5 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,4,7,8-HxCDD | SW8290Mod | 1 | 0.93 | 5.0 | 24.5 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,6,7,8-HxCDD | SW8290Mod | 1 | 1.3 | 5.0 | 29.9 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,7,8,9-HxCDD | SW8290Mod | 1 | 3.2 | 5.0 | 17.3 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| 1,2,3,4,6,7,8-HpCDD | SW8290Mod | 1 | 1.6 | 5.0 | 236 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| OCDD | SW8290Mod | 1 | 4.4 | 25 | 464 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| Total-Dioxins | SW8290Mod | 1 | 0.21 | 0.50 | 787 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| Total-Furans | SW8290Mod | 1 | 0.22 | 0.50 | 741 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| TEQ | SW8290Mod | 1 | | | 103 | | pg/g | 11/28/23 | 2:39 | TT | 479871 |
| Acceptance Limits | | | | | | | | | | | |
| (LS) 13C-2,3,7,8-TCDF | SW8290Mod | | 40 - 135 | | 75.3 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-1,2,3,7,8-PeCDF | SW8290Mod | | 40 - 135 | | 64.8 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-2,3,4,7,8-PeCDF | SW8290Mod | | 40 - 135 | | 84.3 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-1,2,3,4,7,8-HxCDF | SW8290Mod | | 40 - 135 | | 94.9 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-1,2,3,6,7,8-HxCDF | SW8290Mod | | 40 - 135 | | 93.9 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-2,3,4,6,7,8-HxCDF | SW8290Mod | | 40 - 135 | | 94.5 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-1,2,3,7,8,9-HxCDF | SW8290Mod | | 40 - 135 | | 83.6 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-1,2,3,4,6,7,8-HpCDF | SW8290Mod | | 40 - 135 | | 86.7 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-1,2,3,4,7,8,9-HpCDF | SW8290Mod | | 40 - 135 | | 84.9 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-2,3,7,8-TCDD | SW8290Mod | | 40 - 135 | | 75.8 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-1,2,3,7,8-PeCDD | SW8290Mod | | 40 - 135 | | 87.3 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-1,2,3,4,7,8-HxCDD | SW8290Mod | | 40 - 135 | | 98.9 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-1,2,3,6,7,8-HxCDD | SW8290Mod | | 40 - 135 | | 96.6 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-1,2,3,4,6,7,8-HpCDD | SW8290Mod | | 40 - 135 | | 87.8 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (LS) 13C-OCDD | SW8290Mod | | 40 - 135 | | 71.2 | | % | 11/28/23 | 2:39 | TT | 479871 |
| (CRS) 37Cl-2378-TCDD | SW8290Mod | | 40 - 135 | | 119 | | % | 11/28/23 | 2:39 | TT | 479871 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 Triplicate | Lab Sample ID: | 2311115-001C |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|-------------------------------|---------------------------------------|-----------|
| Prep Method: 7471BP | Prep Batch Date/Time: 11/27/23 | 1:50:00PM |
| Prep Batch ID: 1156351 | Prep Analyst: GSHMA | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-------------|-----------------|----|-------|------|---------|---|-------|----------|-------|------|------------------|
| Mercury | SW7471B | 1 | 0.050 | 0.30 | ND | | mg/Kg | 11/28/23 | 11:39 | BJAY | 479879 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 Triplicate | Lab Sample ID: | 2311115-001C |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|-------------------------------|---------------------------------------|-----------|
| Prep Method: 3050B | Prep Batch Date/Time: 11/27/23 | 1:00:00PM |
| Prep Batch ID: 1156354 | Prep Analyst: | GSHMA |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|-------------|-----------------|----|-----|-----|---------|---|-------|----------|------|----|------------------|
|-------------|-----------------|----|-----|-----|---------|---|-------|----------|------|----|------------------|

The results shown below are reported using their MDL.

| | | | | | | | | | | | |
|-----------|---------|----|------|------|---------------|---|-------|----------|-------|----|--------|
| Antimony | SW6010C | 20 | 0.50 | 50 | 25.6 | J | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Arsenic | SW6010C | 20 | 1.5 | 13 | 275 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Barium | SW6010C | 20 | 0.55 | 50 | 207 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Beryllium | SW6010C | 20 | 0.55 | 50 | ND | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Cadmium | SW6010C | 20 | 1.0 | 50 | 2.66 | J | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Chromium | SW6010C | 20 | 0.75 | 50 | 130 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Cobalt | SW6010C | 20 | 0.70 | 50 | 25.7 | J | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Copper | SW6010C | 20 | 2.0 | 50 | 1630 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Lead | SW6010C | 20 | 1.0 | 30 | 431 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Nickel | SW6010C | 20 | 5.0 | 50 | 71.4 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Selenium | SW6010C | 20 | 3.5 | 11 | ND | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Silver | SW6010C | 20 | 1.5 | 5.0 | 10.4 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Thallium | SW6010C | 20 | 2.0 | 50 | ND | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Vanadium | SW6010C | 20 | 1.0 | 50 | 51.8 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Zinc | SW6010C | 20 | 3.0 | 50 | 2270 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Aluminum | SW6010C | 20 | 210 | 1000 | 11300 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Calcium | SW6010C | 20 | 120 | 500 | 262000 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Iron | SW6010C | 20 | 170 | 500 | 8790 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Magnesium | SW6010C | 20 | 51 | 500 | 9800 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Manganese | SW6010C | 20 | 8.5 | 50 | 301 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Potassium | SW6010C | 20 | 47 | 500 | 1470 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |
| Sodium | SW6010C | 20 | 1400 | 3000 | 3430 | | mg/Kg | 11/28/23 | 19:53 | PH | 480014 |



SAMPLE RESULTS

Report prepared for:

Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am

Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 Triplicate | Lab Sample ID: | 2311115-001C |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|---------------------------------|---------------------------------------|-----------|
| Prep Method: 3546_PAHSIM | Prep Batch Date/Time: 11/15/23 | 2:39:00PM |
| Prep Batch ID: 1156131 | Prep Analyst: MSAT | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|------------------------|-----------------|----|----------|-----|---------|---|-------|----------|-------|----|------------------|
| Naphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 31 | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| 2-Methylnaphthalene | SW8270CSIM | 1 | 0.23 | 3.3 | 8.2 | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| 1-Methylnaphthalene | SW8270CSIM | 1 | 0.21 | 3.3 | 7.0 | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Acenaphthelene | SW8270CSIM | 1 | 0.23 | 3.3 | 4.7 | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Acenaphthene | SW8270CSIM | 1 | 0.24 | 3.3 | ND | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Fluorene | SW8270CSIM | 1 | 0.27 | 3.3 | ND | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Phenanthrene | SW8270CSIM | 1 | 0.24 | 3.3 | 31 | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Anthracene | SW8270CSIM | 1 | 0.17 | 3.3 | 3.5 | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Fluoranthene | SW8270CSIM | 1 | 0.23 | 3.3 | 9.2 | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Pyrene | SW8270CSIM | 1 | 0.23 | 3.3 | 9.5 | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Benz[a]anthracene | SW8270CSIM | 1 | 0.24 | 3.3 | ND | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Chrysene | SW8270CSIM | 1 | 0.12 | 3.3 | 6.7 | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Benzo[b]fluoranthene | SW8270CSIM | 1 | 0.41 | 3.3 | ND | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Benzo[k]fluoranthene | SW8270CSIM | 1 | 0.48 | 3.3 | ND | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Benzo[a]pyrene | SW8270CSIM | 1 | 0.35 | 3.3 | ND | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Indeno[1,2,3-cd]pyrene | SW8270CSIM | 1 | 0.50 | 3.3 | ND | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Dibenz[a,h]anthracene | SW8270CSIM | 1 | 0.55 | 3.3 | ND | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Benzo[g,h,i]perylene | SW8270CSIM | 1 | 0.50 | 3.3 | ND | | ug/Kg | 11/15/23 | 18:19 | MT | 479659 |
| Acceptance Limits | | | | | | | | | | | |
| 2-Fluorobiphenyl (S) | SW8270CSIM | | 45 - 125 | | 45 | S | % | 11/15/23 | 18:19 | MT | 479659 |
| p-Terphenyl-d14 (S) | SW8270CSIM | | 30 - 125 | | 33 | | % | 11/15/23 | 18:19 | MT | 479659 |

NOTE: S-surrogate outside of control limits due to possible matrix interference

| | | |
|-------------------------------|---------------------------------------|-----------|
| Prep Method: 8290S-P | Prep Batch Date/Time: 11/21/23 | 5:10:00PM |
| Prep Batch ID: 1156332 | Prep Analyst: MSAT | |
| | Units: pg/g | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---------------------|-----------------|----|------|------|---------|---|-------|----------|------|----|------------------|
| 2,3,7,8-TCDF | SW8290Mod | 1 | 0.21 | 0.48 | ND | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,7,8-PeCDF | SW8290Mod | 1 | 0.98 | 4.8 | 50.6 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 2,3,4,7,8-PeCDF | SW8290Mod | 1 | 0.65 | 4.8 | 145 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,4,7,8-HxCDF | SW8290Mod | 1 | 0.48 | 4.8 | 109 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,6,7,8-HxCDF | SW8290Mod | 1 | 1.1 | 4.8 | 62.9 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 2,3,4,6,7,8-HxCDF | SW8290Mod | 1 | 1.4 | 4.8 | 108 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,7,8,9-HxCDF | SW8290Mod | 1 | 1.8 | 4.8 | 28.2 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,4,6,7,8-HpCDF | SW8290Mod | 1 | 1.8 | 4.8 | ND | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,4,7,8,9-HpCDF | SW8290Mod | 1 | 1.1 | 4.8 | 35.8 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |



SAMPLE RESULTS

Report prepared for: Eric Jensen
Tetra Tech Inc (HI)

Date/Time Received: 11/14/23, 10:05 am
Date Reported: 12/05/23

| | | | |
|-------------------------------|---|-----------------------|--------------|
| Client Sample ID: | LAHAINA ASH DU-1 Triplicate | Lab Sample ID: | 2311115-001C |
| Project Name/Location: | DOH Maui Wildfire Ash Sample-LAHAINA A: | Sample Matrix: | Soil |
| Project Number: | 103S864023138 | | |
| Date/Time Sampled: | 11/08/23 / 11:00 | | |
| SDG: | | | |

| | | |
|-------------------------------|---------------------------------------|-----------|
| Prep Method: 8290S-P | Prep Batch Date/Time: 11/21/23 | 5:10:00PM |
| Prep Batch ID: 1156332 | Prep Analyst: MSAT | |
| | Units: pg/g | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|------------------------------|-----------------|----|-----------------|------|-------------|---|-------|----------|------|----|------------------|
| OCDF | SW8290Mod | 1 | 1.4 | 24 | 180 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 2,3,7,8-TCDD | SW8290Mod | 1 | 0.20 | 0.48 | ND | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,7,8-PeCDD | SW8290Mod | 1 | 1.1 | 4.8 | 15.1 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,4,7,8-HxCDD | SW8290Mod | 1 | 0.89 | 4.8 | 24.5 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,6,7,8-HxCDD | SW8290Mod | 1 | 1.3 | 4.8 | 27.2 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,7,8,9-HxCDD | SW8290Mod | 1 | 3.1 | 4.8 | 17.3 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| 1,2,3,4,6,7,8-HpCDD | SW8290Mod | 1 | 1.5 | 4.8 | 205 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| OCDD | SW8290Mod | 1 | 4.2 | 24 | 421 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| Total-Dioxins | SW8290Mod | 1 | 0.20 | 0.48 | 710 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| Total-Furans | SW8290Mod | 1 | 0.21 | 0.48 | 719 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| TEQ | SW8290Mod | 1 | | | 100 | | pg/g | 11/28/23 | 3:43 | TT | 479871 |
| Acceptance Limits | | | | | | | | | | | |
| (LS) 13C-2,3,7,8-TCDF | SW8290Mod | | 40 - 135 | | 59.1 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-1,2,3,7,8-PeCDF | SW8290Mod | | 40 - 135 | | 49.8 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-2,3,4,7,8-PeCDF | SW8290Mod | | 40 - 135 | | 65.1 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-1,2,3,4,7,8-HxCDF | SW8290Mod | | 40 - 135 | | 70.8 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-1,2,3,6,7,8-HxCDF | SW8290Mod | | 40 - 135 | | 67.9 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-2,3,4,6,7,8-HxCDF | SW8290Mod | | 40 - 135 | | 69.7 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-1,2,3,7,8,9-HxCDF | SW8290Mod | | 40 - 135 | | 61.2 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-1,2,3,4,6,7,8-HpCDF | SW8290Mod | | 40 - 135 | | 63.8 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-1,2,3,4,7,8,9-HpCDF | SW8290Mod | | 40 - 135 | | 61.9 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-2,3,7,8-TCDD | SW8290Mod | | 40 - 135 | | 60.3 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-1,2,3,7,8-PeCDD | SW8290Mod | | 40 - 135 | | 65.7 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-1,2,3,4,7,8-HxCDD | SW8290Mod | | 40 - 135 | | 72.7 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-1,2,3,6,7,8-HxCDD | SW8290Mod | | 40 - 135 | | 69.7 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-1,2,3,4,6,7,8-HpCDD | SW8290Mod | | 40 - 135 | | 64.6 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (LS) 13C-OCDD | SW8290Mod | | 40 - 135 | | 50.5 | | % | 11/28/23 | 3:43 | TT | 479871 |
| (CRS) 37Cl-2378-TCDD | SW8290Mod | | 40 - 135 | | 115 | | % | 11/28/23 | 3:43 | TT | 479871 |



MB Summary Report

| | | | | | | | |
|--------------------|---------|---------------------------|-----------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546_TPHTEtraMI | Prep Date: | 11/15/23 | Prep Batch: | 1156129 |
| Matrix: | Soil | Analytical Method: | SW8015B | Analyzed Date: | 11/15/2023 | Analytical Batch: | 479660 |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier |
|------------------|-----|-----|--------------------|---------------|
| TPH as Diesel | 1.1 | 2.7 | ND | |
| TPH as Motor Oil | 4.2 | 13 | ND | |
| Pentacosane (S) | | | 89.1 | |

| | | | | | | | |
|--------------------|---------|---------------------------|-------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546_PAHSIM | Prep Date: | 11/15/23 | Prep Batch: | 1156131 |
| Matrix: | Soil | Analytical Method: | SW8270CSIM | Analyzed Date: | 11/15/2023 | Analytical Batch: | 479659 |
| Units: | ug/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier |
|------------------------|------|-----|--------------------|---------------|
| Naphthalene | 0.43 | 1.5 | 0.767 | |
| 2-Methylnaphthalene | 0.19 | 1.5 | 0.257 | |
| 1-Methylnaphthalene | 0.15 | 1.5 | ND | |
| Acenaphthelene | 0.15 | 1.5 | ND | |
| Acenaphthene | 0.13 | 1.5 | ND | |
| Fluorene | 0.22 | 1.5 | ND | |
| Phenanthrene | 0.49 | 1.5 | ND | |
| Anthracene | 0.44 | 1.5 | ND | |
| Fluoranthene | 0.44 | 1.5 | ND | |
| Pyrene | 0.46 | 1.5 | ND | |
| Benz[a]anthracene | 0.39 | 1.5 | 0.544 | |
| Chrysene | 0.41 | 1.5 | ND | |
| Benzo[b]fluoranthene | 0.20 | 1.5 | ND | |
| Benzo[k]fluoranthene | 0.19 | 1.5 | ND | |
| Benzo[a]pyrene | 0.24 | 1.5 | ND | |
| Indeno[1,2,3-cd]pyrene | 0.18 | 1.5 | ND | |
| Dibenz[a,h]anthracene | 0.23 | 1.5 | ND | |
| Benzo[g,h,i]perylene | 0.22 | 1.5 | ND | |
| 2-Fluorobiphenyl (S) | | | 83.8 | |
| p-Terphenyl-d14 (S) | | | 92.8 | |



MB Summary Report

| | | | | | | | |
|--------------------|---------|---------------------------|----------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546_PCB | Prep Date: | 11/17/23 | Prep Batch: | 1156189 |
| Matrix: | Soil | Analytical Method: | SW8082A | Analyzed Date: | 11/20/2023 | Analytical Batch: | 479736 |
| Units: | ug/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|-------------|------|-----|--------------------|---------------|--|
| Aroclor1016 | 35.0 | 100 | ND | | |
| Aroclor1221 | 5.00 | 100 | ND | | |
| Aroclor1232 | 17.0 | 100 | ND | | |
| Aroclor1242 | 3.00 | 100 | ND | | |
| Aroclor1248 | 2.00 | 100 | ND | | |
| Aroclor1254 | 14.0 | 100 | ND | | |
| Aroclor1260 | 24.0 | 100 | ND | | |
| TCMX (S) | | | 107 | | |
| DCBP (S) | | | 99.0 | | |

| | | | | | | | |
|--------------------|---------|---------------------------|------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 1312/3010A | Prep Date: | 11/17/23 | Prep Batch: | 1156199 |
| Matrix: | Soil | Analytical Method: | SW6010B | Analyzed Date: | 11/17/2023 | Analytical Batch: | 479721 |
| Units: | mg/L | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|-------------------|-------|------|--------------------|---------------|--|
| Antimony (SPLP) | 0.10 | 0.20 | ND | | |
| Arsenic (SPLP) | 0.40 | 0.20 | ND | | |
| Barium (SPLP) | 0.020 | 0.20 | ND | | |
| Beryllium (SPLP) | 0.010 | 0.20 | ND | | |
| Cadmium (SPLP) | 0.040 | 0.20 | ND | | |
| Chromium (SPLP) | 0.010 | 0.20 | ND | | |
| Cobalt (SPLP) | 0.010 | 0.20 | ND | | |
| Copper (SPLP) | 0.020 | 0.20 | ND | | |
| Lead (SPLP) | 0.050 | 0.20 | ND | | |
| Molybdenum (SPLP) | 0.020 | 0.20 | ND | | |
| Nickel (SPLP) | 0.010 | 0.20 | ND | | |
| Selenium (SPLP) | 0.090 | 0.20 | ND | | |
| Silver (SPLP) | 0.020 | 0.20 | ND | | |
| Thallium (SPLP) | 0.12 | 0.20 | ND | | |
| Vanadium (SPLP) | 0.020 | 0.20 | ND | | |
| Zinc (SPLP) | 0.080 | 0.20 | ND | | |



MB Summary Report

| | | | | | | | |
|--------------------|---------|---------------------------|------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546MI_OCP | Prep Date: | 11/17/23 | Prep Batch: | 1156201 |
| Matrix: | Soil | Analytical Method: | SW8081B | Analyzed Date: | 11/17/2023 | Analytical Batch: | 479848 |
| Units: | ug/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|----------------------|-------|-----|--------------------|---------------|--|
| alpha-BHC | 0.13 | 2.0 | ND | | |
| gamma-BHC (Lindane) | 0.16 | 2.0 | ND | | |
| beta-BHC | 0.32 | 2.0 | ND | | |
| delta-BHC | 0.16 | 2.0 | ND | | |
| Heptachlor | 0.11 | 2.0 | ND | | |
| Aldrin | 0.20 | 2.0 | ND | | |
| Heptachlor Epoxide | 0.078 | 2.0 | ND | | |
| gamma-Chlordane | 0.16 | 2.0 | ND | | |
| alpha-Chlordane | 0.17 | 2.0 | ND | | |
| 4,4-DDE | 0.19 | 2.0 | ND | | |
| Endosulfan I | 0.18 | 2.0 | ND | | |
| Dieldrin | 0.15 | 2.0 | ND | | |
| Endrin | 0.19 | 2.0 | ND | | |
| 4,4-DDD | 0.57 | 2.0 | ND | | |
| Endosulfan II | 0.58 | 2.0 | ND | | |
| 4,4-DDT | 0.13 | 2.0 | ND | | |
| Endrin Aldehyde | 0.15 | 2.0 | ND | | |
| Methoxychlor | 0.20 | 2.0 | ND | | |
| Endosulfan Sulfate | 0.12 | 2.0 | ND | | |
| Endrin Ketone | 0.094 | 2.0 | ND | | |
| Chlordane, Technical | 2.1 | 20 | ND | | |
| Toxaphene | 8.5 | 50 | ND | | |
| TCMX (S) | | | 100 | | |
| DCBP (S) | | | 98.0 | | |

| | | | | | | | |
|--------------------|---------|---------------------------|-----------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 1312/7470 | Prep Date: | 11/17/23 | Prep Batch: | 1156202 |
| Matrix: | Soil | Analytical Method: | SW7470A | Analyzed Date: | 11/20/2023 | Analytical Batch: | 479741 |
| Units: | mg/L | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|----------------|---------|-------|--------------------|---------------|--|
| Mercury (SPLP) | 0.00013 | 0.020 | ND | | |



MB Summary Report

| | | | | | | | |
|--------------------|---------|---------------------------|---------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 8290S-P | Prep Date: | 11/21/23 | Prep Batch: | 1156332 |
| Matrix: | Soil | Analytical Method: | 8290 | Analyzed Date: | 11/27/2023 | Analytical Batch: | 479871 |
| Units: | pg/g | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|------------------------------|------|-----|--------------------|---------------|--|
| 2,3,7,8-TCDF | 0.22 | | 0.22 | U | |
| 1,2,3,7,8-PeCDF | 1.0 | | 1.0 | U | |
| 2,3,4,7,8-PeCDF | 0.68 | | 0.68 | U | |
| 1,2,3,4,7,8-HxCDF | 0.50 | | 0.50 | U | |
| 1,2,3,6,7,8-HxCDF | 0.50 | | 0.50 | U | |
| 2,3,4,6,7,8-HxCDF | 0.50 | | 0.50 | U | |
| 1,2,3,7,8,9-HxCDF | 0.50 | | 0.50 | U | |
| 1,2,3,4,6,7,8-HpCDF | 1.8 | | 1.8 | U | |
| 1,2,3,4,7,8,9-HpCDF | 1.1 | | 1.1 | U | |
| OCDF | 1.5 | | 1.5 | U | |
| 2,3,7,8-TCDD | 0.20 | | 0.20 | U | |
| 1,2,3,7,8-PeCDD | 1.1 | | 1.1 | U | |
| 1,2,3,4,7,8-HxCDD | 0.95 | | 0.95 | U | |
| 1,2,3,6,7,8-HxCDD | 1.3 | | 1.3 | U | |
| 1,2,3,7,8,9-HxCDD | 3.2 | | 3.2 | U | |
| 1,2,3,4,6,7,8-HpCDD | 1.6 | | 1.6 | U | |
| OCDD | 4.4 | | 6.3 | J | |
| (LS) 13C-2,3,7,8-TCDF | | | 59.0 | | |
| (LS) 13C-1,2,3,7,8-PeCDF | | | 72.8 | | |
| (LS) 13C-2,3,4,7,8-PeCDF | | | 78.5 | | |
| (LS) 13C-1,2,3,4,7,8-HxCDF | | | 92.5 | | |
| (LS) 13C-1,2,3,6,7,8-HxCDF | | | 95.9 | | |
| (LS) 13C-2,3,4,6,7,8-HxCDF | | | 97.2 | | |
| (LS) 13C-1,2,3,7,8,9-HxCDF | | | 96.5 | | |
| (LS) 13C-1,2,3,4,6,7,8-HpCDF | | | 89.6 | | |
| (LS) 13C-1,2,3,4,7,8,9-HpCDF | | | 85.9 | | |
| (LS) 13C-2,3,7,8-TCDD | | | 65.0 | | |
| (LS) 13C-1,2,3,7,8-PeCDD | | | 77.4 | | |
| (LS) 13C-1,2,3,4,7,8-HxCDD | | | 99.7 | | |
| (LS) 13C-1,2,3,6,7,8-HxCDD | | | 102 | | |
| (LS) 13C-1,2,3,4,6,7,8-HpCDD | | | 90.7 | | |
| (LS) 13C-OCDD | | | 77.9 | | |

| | | | | | | | |
|--------------------|---------|---------------------------|-----------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | Bioavailable As | Prep Date: | 11/27/23 | Prep Batch: | 1156340 |
| Matrix: | Soil | Analytical Method: | SW6010B | Analyzed Date: | 11/27/2023 | Analytical Batch: | 479892 |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|------------|--------|-------|--------------------|---------------|--|
| Arsenic | 0.0100 | 0.100 | 0.0429 | | |



MB Summary Report

| | | | | | | | |
|--------------------|---------|---------------------------|---------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 7471BP | Prep Date: | 11/27/23 | Prep Batch: | 1156351 |
| Matrix: | Soil | Analytical Method: | SW7471B | Analyzed Date: | 11/28/2023 | Analytical Batch: | 479879 |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|------------|-------|------|--------------------|---------------|--|
| Mercury | 0.049 | 0.29 | ND | | |

| | | | | | | | |
|--------------------|---------|---------------------------|---------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3050B | Prep Date: | 11/27/23 | Prep Batch: | 1156354 |
| Matrix: | Soil | Analytical Method: | SW6010C | Analyzed Date: | 11/28/2023 | Analytical Batch: | 480014 |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|------------|-------|-------|--------------------|---------------|--|
| Antimony | 0.025 | 2.45 | 0.032 | J | |
| Arsenic | 0.074 | 0.637 | ND | | |
| Barium | 0.027 | 2.45 | 0.049 | J | |
| Beryllium | 0.027 | 2.45 | 0.051 | J | |
| Cadmium | 0.049 | 2.45 | 0.054 | J | |
| Chromium | 0.037 | 2.45 | 0.059 | J | |
| Cobalt | 0.034 | 2.45 | 0.051 | J | |
| Copper | 0.098 | 2.45 | 0.13 | J | |
| Lead | 0.049 | 1.47 | 0.049 | | |
| Nickel | 0.25 | 2.45 | ND | | |
| Selenium | 0.17 | 0.539 | ND | | |
| Silver | 0.074 | 0.245 | ND | | |
| Thallium | 0.098 | 2.45 | ND | | |
| Vanadium | 0.049 | 2.45 | ND | | |
| Zinc | 0.15 | 2.45 | ND | | |
| Aluminum | 10 | 49.0 | ND | | |
| Calcium | 5.9 | 24.5 | 9.3 | J | |
| Iron | 8.4 | 24.5 | ND | | |
| Magnesium | 2.5 | 24.5 | ND | | |
| Manganese | 0.42 | 2.45 | ND | | |
| Potassium | 2.3 | 24.5 | ND | | |
| Sodium | 67 | 147 | ND | | |



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

| | | | | | | | |
|--------------------|---------|---------------------------|----------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546_TPHetraMI | Prep Date: | 11/15/23 | Prep Batch: | 1156129 |
| Matrix: | Soil | Analytical Method: | SW8015B | Analyzed Date: | 11/15/2023 | Analytical Batch: | 479660 |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|-----------------|-----|-----|--------------------|-------------|----------------|-----------------|----------------|-------------------|--------------|---------------|
| TPH as Diesel | 1.1 | 2.7 | ND | 33.3 | 84.5 | 106 | 22.4 | 52 - 115 | 30 | |
| Pentacosane (S) | | | | 200 | 87.9 | 114 | | 59 - 129 | | |

| | | | | | | | |
|--------------------|---------|---------------------------|-------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546_PAHSIM | Prep Date: | 11/15/23 | Prep Batch: | 1156131 |
| Matrix: | Soil | Analytical Method: | SW8270CSIM | Analyzed Date: | 11/15/2023 | Analytical Batch: | 479659 |
| Units: | ug/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|----------------------|------|-----|--------------------|-------------|----------------|-----------------|----------------|-------------------|--------------|---------------|
| Acenaphthene | 0.13 | 3.3 | 0.767 | 333.3 | 77.7 | 80.0 | 3.04 | 45 - 125 | 30 | |
| Pyrene | 0.46 | 3.3 | 0.257 | 333.3 | 82.6 | 83.7 | 1.44 | 45 - 125 | 30 | |
| 2-Fluorobiphenyl (S) | | | | 5556 | 86.7 | 88.9 | | 45 - 125 | | |
| Acenaphthelene | | | ND | 5556 | | | | 30 - 125 | | |

| | | | | | | | |
|--------------------|---------|---------------------------|----------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546_PCB | Prep Date: | 11/17/23 | Prep Batch: | 1156189 |
| Matrix: | Soil | Analytical Method: | SW8082A | Analyzed Date: | 11/20/2023 | Analytical Batch: | 479736 |
| Units: | ug/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|-------------|-------|------|--------------------|-------------|----------------|-----------------|----------------|-------------------|--------------|---------------|
| Aroclor1016 | 0.053 | 0.10 | ND | 0.60 | 74.8 | 80.3 | 7.09 | 25 - 145 | 30 | |
| Aroclor1260 | 0.036 | 0.10 | ND | 0.60 | 76.3 | 83.3 | 8.77 | 30 - 145 | 30 | |
| TCMX (S) | | | | 0.10 | 86.0 | 88.0 | | 48 - 125 | | |
| DCBP (S) | | | | 0.10 | 85.0 | 89.0 | | 48 - 135 | | |



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

| | | | | | | | |
|--------------------|---------|---------------------------|------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 1312/3010A | Prep Date: | 11/17/23 | Prep Batch: | 1156199 |
| Matrix: | Soil | Analytical Method: | SW6010B | Analyzed Date: | 11/17/2023 | Analytical Batch: | 479721 |
| Units: | mg/L | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|-------------------|-------|------|--------------------|-------------|----------------|-----------------|----------------|-------------------|--------------|---------------|
| Antimony (SPLP) | 0.10 | 0.20 | ND | 10 | 104 | 103 | 0.966 | 80 - 120 | 20 | |
| Arsenic (SPLP) | 0.20 | 0.40 | ND | 10 | 104 | 103 | 0.966 | 80 - 120 | 20 | |
| Barium (SPLP) | 0.020 | 0.20 | ND | 10 | 104 | 103 | 0.966 | 80 - 120 | 20 | |
| Beryllium (SPLP) | 0.010 | 0.20 | ND | 10 | 103 | 102 | 0.976 | 80 - 120 | 20 | |
| Cadmium (SPLP) | 0.040 | 0.20 | ND | 10 | 103 | 101 | 1.96 | 80 - 120 | 20 | |
| Chromium (SPLP) | 0.010 | 0.20 | ND | 10 | 103 | 102 | 0.976 | 80 - 120 | 20 | |
| Cobalt (SPLP) | 0.010 | 0.20 | ND | 10 | 104 | 102 | 1.94 | 80 - 120 | 20 | |
| Copper (SPLP) | 0.020 | 0.20 | ND | 10 | 104 | 102 | 1.94 | 80 - 120 | 20 | |
| Lead (SPLP) | 0.050 | 0.20 | ND | 10 | 103 | 102 | 0.976 | 80 - 120 | 20 | |
| Molybdenum (SPLP) | 0.020 | 0.20 | ND | 10 | 103 | 102 | 0.976 | 80 - 120 | 20 | |
| Nickel (SPLP) | 0.010 | 0.20 | ND | 10 | 103 | 102 | 0.976 | 80 - 120 | 20 | |
| Selenium (SPLP) | 0.090 | 0.20 | ND | 10 | 105 | 103 | 1.92 | 80 - 120 | 20 | |
| Silver (SPLP) | 0.020 | 0.20 | ND | 10 | 103 | 102 | 0.976 | 80 - 120 | 20 | |
| Thallium (SPLP) | 0.12 | 0.20 | ND | 10 | 103 | 102 | 0.976 | 80 - 120 | 20 | |
| Vanadium (SPLP) | 0.020 | 0.20 | ND | 10 | 104 | 102 | 1.94 | 80 - 120 | 20 | |
| Zinc (SPLP) | 0.080 | 0.20 | ND | 10 | 103 | 102 | 0.976 | 80 - 120 | 20 | |



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

| | | | | | | | |
|--------------------|---------|---------------------------|------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546MI_OCP | Prep Date: | 11/17/23 | Prep Batch: | 1156201 |
| Matrix: | Soil | Analytical Method: | SW8081B | Analyzed Date: | 11/17/2023 | Analytical Batch: | 479848 |
| Units: | ug/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|----------------------|-------|-----|--------------------|-------------|----------------|-----------------|----------------|-------------------|--------------|---------------|
| alpha-BHC | 0.18 | 2.0 | ND | 40 | 89.9 | 88.9 | 1.12 | 45 - 137 | 30 | |
| gamma-BHC (Lindane) | 0.16 | 2.0 | ND | 40 | 89.4 | 87.8 | 1.97 | 49 - 135 | 30 | |
| beta-BHC | 0.32 | 2.0 | ND | 40 | 85.2 | 82.0 | 3.89 | 50 - 136 | 30 | |
| delta-BHC | 0.22 | 2.0 | ND | 40 | 82.8 | 81.1 | 2.14 | 47 - 139 | 30 | |
| Heptachlor | 0.12 | 2.0 | ND | 40 | 89.3 | 87.7 | 1.69 | 47 - 136 | 30 | |
| Aldrin | 0.20 | 2.0 | ND | 40 | 93.3 | 91.3 | 2.17 | 45 - 136 | 30 | |
| Heptachlor Epoxide | 0.24 | 2.0 | ND | 40 | 94.3 | 91.1 | 3.51 | 52 - 136 | 30 | |
| gamma-Chlordane | 0.44 | 2.0 | ND | 40 | 91.9 | 90.0 | 2.20 | 53 - 135 | 30 | |
| alpha-Chlordane | 0.21 | 2.0 | ND | 40 | 86.8 | 85.7 | 1.16 | 54 - 133 | 30 | |
| 4,4-DDE | 0.45 | 2.0 | ND | 40 | 91.9 | 89.7 | 2.20 | 56 - 134 | 30 | |
| Endosulfan I | 0.20 | 2.0 | ND | 40 | 88.1 | 86.1 | 2.30 | 53 - 132 | 30 | |
| Dieldrin | 0.15 | 2.0 | ND | 40 | 93.9 | 91.1 | 3.24 | 56 - 136 | 30 | |
| Endrin | 1.4 | 2.0 | ND | 40 | 94.2 | 90.1 | 4.61 | 57 - 140 | 30 | |
| 4,4-DDD | 0.57 | 2.0 | ND | 40 | 93.2 | 90.0 | 3.55 | 56 - 139 | 30 | |
| Endosulfan II | 0.93 | 4.0 | ND | 40 | 94.8 | 89.3 | 5.98 | 53 - 134 | 30 | |
| 4,4-DDT | 0.24 | 2.0 | ND | 40 | 85.5 | 83.8 | 2.07 | 50 - 141 | 30 | |
| Endrin Aldehyde | 0.61 | 2.0 | ND | 40 | 86.0 | 71.4 | 18.8 | 35 - 137 | 30 | |
| Methoxychlor | 0.20 | 2.0 | ND | 120 | 98.1 | 93.9 | 4.33 | 52 - 143 | 30 | |
| Endosulfan Sulfate | 0.58 | 2.0 | ND | 40 | 96.7 | 86.0 | 11.8 | 55 - 134 | 30 | |
| Endrin Ketone | 0.098 | 2.0 | ND | 40 | 96.2 | 90.5 | 6.16 | 55 - 136 | 30 | |
| Chlordane, Technical | | | ND | 100 | | | | 47 - 130 | | |
| DCBP (S) | | | | 100 | 104 | 99.7 | | 54 - 125 | | |

| | | | | | | | |
|--------------------|---------|---------------------------|-----------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 1312/7470 | Prep Date: | 11/17/23 | Prep Batch: | 1156202 |
| Matrix: | Soil | Analytical Method: | SW7470A | Analyzed Date: | 11/20/2023 | Analytical Batch: | 479741 |
| Units: | mg/L | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|----------------|---------|-------|--------------------|-------------|----------------|-----------------|----------------|-------------------|--------------|---------------|
| Mercury (SPLP) | 0.00013 | 0.020 | ND | 0.015 | 95.8 | 93.4 | 2.82 | 80 - 120 | 20 | |



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

| | | | | | | | |
|--------------------|---------|---------------------------|---------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 8290S-P | Prep Date: | 11/21/23 | Prep Batch: | 1156332 |
| Matrix: | Soil | Analytical Method: | 8290 | Analyzed Date: | 11/27/2023 | Analytical Batch: | 479871 |
| Units: | pg/g | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|------------------------------|------|-----|--------------------|-------------|----------------|-----------------|----------------|-------------------|--------------|---------------|
| 2,3,7,8-TCDF | 0.22 | | 0.22 | 50.0 | 0.50 | | | 0.0 - 99.5 | | |
| 1,2,3,7,8-PeCDF | 1.0 | | 1.0 | 250 | 5.0 | | | 0.0 - 97.8 | | |
| 2,3,4,7,8-PeCDF | 0.68 | | 0.68 | 250 | 5.0 | | | 0.0 - 94.7 | | |
| 1,2,3,4,7,8-HxCDF | 0.50 | | 0.50 | 250 | 5.0 | | | 0.0 - 92.9 | | |
| 1,2,3,6,7,8-HxCDF | 0.50 | | 0.50 | 250 | 5.0 | | | 0.0 - 89.5 | | |
| 2,3,4,6,7,8-HxCDF | 0.50 | | 0.50 | 250 | 5.0 | | | 0.0 - 94.0 | | |
| 1,2,3,7,8,9-HxCDF | 0.50 | | 0.50 | 250 | 5.0 | | | 0.0 - 94.2 | | |
| 1,2,3,4,6,7,8-HpCDF | 1.8 | | 1.8 | 250 | 5.0 | | | 0.0 - 95.4 | | |
| 1,2,3,4,7,8,9-HpCDF | 1.1 | | 1.1 | 250 | 5.0 | | | 0.0 - 101 | | |
| OCDF | 1.5 | | 1.5 | 500 | 25 | | | 0.0 - 97.2 | | |
| 2,3,7,8-TCDD | 0.20 | | 0.20 | 50.0 | 0.50 | | | 0.0 - 94.7 | | |
| 1,2,3,7,8-PeCDD | 1.1 | | 1.1 | 250 | 5.0 | | | 0.0 - 95.1 | | |
| 1,2,3,4,7,8-HxCDD | 0.95 | | 0.95 | 250 | 5.0 | | | 0.0 - 97.0 | | |
| 1,2,3,6,7,8-HxCDD | 1.3 | | 1.3 | 250 | 5.0 | | | 0.0 - 85.1 | | |
| 1,2,3,7,8,9-HxCDD | 3.2 | | 3.2 | 250 | 5.0 | | | 0.0 - 85.1 | | |
| 1,2,3,4,6,7,8-HpCDD | 1.6 | | 1.6 | 250 | 5.0 | | | 0.0 - 101 | | |
| OCDD | 4.4 | | 6.3 | 500 | 25 | | | 0.0 - 91.5 | | |
| (LS) 13C-2,3,7,8-TCDF | | | | 100 | 62.8 | | | - | | |
| (LS) 13C-1,2,3,7,8-PeCDF | | | | 100 | 73.7 | | | - | | |
| (LS) 13C-2,3,4,7,8-PeCDF | | | | 100 | 77.7 | | | - | | |
| (LS) 13C-1,2,3,4,7,8-HxCDF | | | | 100 | 86.9 | | | - | | |
| (LS) 13C-1,2,3,6,7,8-HxCDF | | | | 100 | 87.4 | | | - | | |
| (LS) 13C-2,3,4,6,7,8-HxCDF | | | | 100 | 88.8 | | | - | | |
| (LS) 13C-1,2,3,7,8,9-HxCDF | | | | 100 | 88.1 | | | - | | |
| (LS) 13C-1,2,3,4,6,7,8-HpCDF | | | | 100 | 81.8 | | | - | | |
| (LS) 13C-1,2,3,4,7,8,9-HpCDF | | | | 100 | 79.7 | | | - | | |
| (LS) 13C-2,3,7,8-TCDD | | | | 100 | 67.1 | | | - | | |
| (LS) 13C-1,2,3,7,8-PeCDD | | | | 100 | 77.2 | | | - | | |
| (LS) 13C-1,2,3,4,7,8-HxCDD | | | | 100 | 89.9 | | | - | | |
| (LS) 13C-1,2,3,6,7,8-HxCDD | | | | 100 | 91.4 | | | - | | |
| (LS) 13C-1,2,3,4,6,7,8-HpCDD | | | | 100 | 81.7 | | | - | | |
| (LS) 13C-OCDD | | | | 200 | 73.5 | | | - | | |

| | | | | | | | |
|--------------------|---------|---------------------------|-----------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | Bioavailable As | Prep Date: | 11/27/23 | Prep Batch: | 1156340 |
| Matrix: | Soil | Analytical Method: | SW6010B | Analyzed Date: | 11/27/2023 | Analytical Batch: | 479892 |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|------------|--------|-------|--------------------|-------------|----------------|-----------------|----------------|-------------------|--------------|---------------|
| Arsenic | 0.0100 | 0.100 | 0.0429 | 1.0 | 110 | 112 | 1.80 | 80 - 120 | 30 | |



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

| | | | | | | | |
|--------------------|---------|---------------------------|---------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 7471BP | Prep Date: | 11/27/23 | Prep Batch: | 1156351 |
| Matrix: | Soil | Analytical Method: | SW7471B | Analyzed Date: | 11/28/2023 | Analytical Batch: | 479879 |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|------------|-------|------|--------------------|-------------|----------------|-----------------|----------------|-------------------|--------------|---------------|
| Mercury | 0.028 | 0.30 | ND | 0.743 | 98.3 | 101 | 0.687 | 80 - 120 | 20 | |

| | | | | | | | |
|--------------------|---------|---------------------------|---------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3050B | Prep Date: | 11/27/23 | Prep Batch: | 1156354 |
| Matrix: | Soil | Analytical Method: | SW6010C | Analyzed Date: | 11/28/2023 | Analytical Batch: | 480014 |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|------------|-------|-------|--------------------|-------------|----------------|-----------------|----------------|-------------------|--------------|---------------|
| Antimony | 0.024 | 2.42 | 0.032 | 24 | 103 | 102 | 0.000 | 80 - 120 | 30 | |
| Arsenic | 0.072 | 0.628 | ND | 24 | 102 | 101 | 0.000 | 80 - 120 | 30 | |
| Barium | 0.027 | 2.42 | 0.049 | 24 | 102 | 101 | 0.000 | 80 - 120 | 30 | |
| Beryllium | 0.027 | 2.42 | 0.051 | 24 | 103 | 102 | 0.000 | 80 - 120 | 30 | |
| Cadmium | 0.048 | 2.42 | 0.054 | 24 | 103 | 102 | 0.000 | 80 - 120 | 30 | |
| Chromium | 0.036 | 2.42 | 0.059 | 24 | 103 | 102 | 0.000 | 80 - 120 | 30 | |
| Cobalt | 0.034 | 2.42 | 0.051 | 24 | 102 | 102 | 1.21 | 80 - 120 | 30 | |
| Copper | 0.097 | 2.42 | 0.13 | 24 | 102 | 101 | 0.000 | 80 - 120 | 30 | |
| Lead | 0.048 | 1.45 | 0.049 | 24 | 102 | 101 | 0.000 | 80 - 120 | 30 | |
| Nickel | 0.24 | 2.42 | ND | 24 | 102 | 101 | 0.000 | 80 - 120 | 30 | |
| Selenium | 0.11 | 2.42 | ND | 24 | 103 | 102 | 0.000 | 80 - 120 | 30 | |
| Silver | 0.072 | 2.42 | ND | 24 | 102 | 101 | 0.000 | 80 - 120 | 30 | |
| Thallium | 0.097 | 2.42 | ND | 24 | 103 | 101 | 1.21 | 80 - 120 | 30 | |
| Vanadium | 0.048 | 2.42 | ND | 24 | 102 | 101 | 0.000 | 80 - 120 | 30 | |
| Zinc | 0.14 | 2.42 | ND | 24 | 102 | 101 | 0.000 | 80 - 120 | 30 | |
| Aluminum | 0.58 | 48.3 | ND | 240 | 104 | 102 | 0.800 | 80 - 120 | 30 | |
| Calcium | 4.8 | 24.2 | 9.3 | 240 | 102 | 101 | 0.000 | 80 - 120 | 30 | |
| Iron | 4.8 | 24.2 | ND | 240 | 103 | 102 | 0.000 | 80 - 120 | 30 | |
| Magnesium | 4.8 | 24.2 | ND | 240 | 103 | 103 | 0.800 | 80 - 120 | 30 | |
| Manganese | 0.48 | 2.42 | ND | 24 | 103 | 104 | 1.99 | 80 - 120 | 30 | |
| Potassium | 2.3 | 24.2 | ND | 240 | 102 | 102 | 1.21 | 80 - 120 | 30 | |
| Sodium | 4.8 | 24.2 | ND | 240 | 103 | 111 | 8.46 | 80 - 120 | 30 | |



MS/MSD Summary Report

Raw values are used in quality control assessment.

| | | | | | | | |
|-----------------------|--------------|---------------------------|----------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546_TPHetraMI | Prep Date: | 11/15/23 | Prep Batch: | 1156129 |
| Matrix: | Soil | Analytical Method: | SW8015B | Analyzed Date: | 11/15/2023 | Analytical Batch: | 479660 |
| Spiked Sample: | 2311115-001A | | | | | | |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Sample Conc. | Spike Conc. | MS % Recovery | MSD % Recovery | MS/MSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|-----------------|------|------|--------------|-------------|---------------|----------------|--------------|-------------------|--------------|---------------|
| TPH as Diesel | 1.13 | 2.67 | 37.6 | 33.3 | 129 | 138 | 3.41 | 52 - 115 | 30 | S,x, |
| Pentacosane (S) | | | | 200 | 152 | 73.1 | | 59 - 129 | | S |

| | | | | | | | |
|-----------------------|--------------|---------------------------|-------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546_PAHSIM | Prep Date: | 11/15/23 | Prep Batch: | 1156131 |
| Matrix: | Soil | Analytical Method: | SW8270CSIM | Analyzed Date: | 11/15/2023 | Analytical Batch: | 479659 |
| Spiked Sample: | 2311115-001A | | | | | | |
| Units: | ug/Kg | | | | | | |

| Parameters | MDL | PQL | Sample Conc. | Spike Conc. | MS % Recovery | MSD % Recovery | MS/MSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|----------------------|-------|------|--------------|-------------|---------------|----------------|--------------|-------------------|--------------|---------------|
| Acenaphthene | 0.135 | 3.30 | ND | 333.3 | 45.3 | 56.2 | 21.1 | 45 - 125 | 30 | |
| Pyrene | 0.457 | 3.30 | 13.0 | 333.3 | 38.3 | 56.5 | 36.7 | 45 - 125 | 30 | S,R |
| 2-Fluorobiphenyl (S) | | | | 5556 | 52.6 | 62.6 | 17.4 | 45 - 125 | | |
| p-Terphenyl-d14 (S) | | | | 5556 | 36.5 | 48.6 | 28.4 | 30 - 125 | | |

| | | | | | | | |
|-----------------------|--------------|---------------------------|------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546MI_OCP | Prep Date: | 11/17/23 | Prep Batch: | 1156201 |
| Matrix: | Soil | Analytical Method: | SW8081B | Analyzed Date: | 11/17/2023 | Analytical Batch: | 479848 |
| Spiked Sample: | 2311115-001A | | | | | | |
| Units: | ug/Kg | | | | | | |

| Parameters | MDL | PQL | Sample Conc. | Spike Conc. | MS % Recovery | MSD % Recovery | MS/MSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|---------------------|-------|------|--------------|-------------|---------------|----------------|--------------|-------------------|--------------|---------------|
| alpha-BHC | 0.181 | 2.00 | ND | 40 | 6.62 | 8.92 | 29.6 | 45 - 137 | 30 | S |
| gamma-BHC (Lindane) | 0.159 | 2.00 | ND | 40 | 7.53 | 11.9 | 45.0 | 49 - 135 | 30 | S,R |
| beta-BHC | 0.316 | 2.00 | ND | 40 | 15.9 | 15.6 | 1.75 | 50 - 136 | 30 | S |
| delta-BHC | 0.218 | 2.00 | ND | 40 | 0.323 | 0.518 | 46.4 | 47 - 139 | 30 | S,R |
| Heptachlor | 0.116 | 2.00 | ND | 40 | 5.86 | 12.4 | 72.0 | 47 - 136 | 30 | S,R |
| Aldrin | 0.196 | 2.00 | ND | 40 | 18.5 | 20.6 | 10.7 | 45 - 136 | 30 | S |
| Heptachlor Epoxide | 0.239 | 2.00 | ND | 40 | 21.2 | 21.1 | 0.354 | 52 - 136 | 30 | S |
| gamma-Chlordane | 0.439 | 2.00 | ND | 40 | 7.04 | 6.83 | 2.89 | 53 - 135 | 30 | S |
| alpha-Chlordane | 0.206 | 2.00 | ND | 40 | 19.2 | 20.0 | 4.21 | 54 - 133 | 30 | S |
| 4,4-DDE | 0.448 | 2.00 | ND | 40 | 20.3 | 19.8 | 2.42 | 56 - 134 | 30 | S |
| Endosulfan I | 0.196 | 2.00 | ND | 40 | 0.000 | 0.000 | | 53 - 132 | | S |
| Dieldrin | 0.150 | 2.00 | ND | 40 | 19.9 | 20.3 | 2.36 | 56 - 136 | 30 | S |
| Endrin | 1.43 | 2.00 | ND | 40 | 19.4 | 19.5 | 0.627 | 57 - 140 | 30 | S |
| 4,4-DDD | 0.565 | 2.00 | ND | 40 | 18.5 | 18.9 | 2.41 | 56 - 139 | 30 | S |
| Endosulfan II | 0.925 | 4.00 | ND | 40 | 0.000 | 0.138 | 200 | 53 - 134 | 30 | S,R |
| 4,4-DDT | 0.241 | 2.00 | ND | 40 | 12.7 | 14.7 | 14.2 | 50 - 141 | 30 | S |
| Endrin Aldehyde | 0.607 | 2.00 | ND | 40 | 0.315 | 0.390 | 21.3 | 35 - 137 | 30 | S |
| Methoxychlor | 0.200 | 2.00 | ND | 120 | 18.7 | 19.5 | 3.92 | 52 - 143 | 30 | S |
| Endosulfan Sulfate | 0.583 | 2.00 | ND | 40 | 1.21 | 2.06 | 52.2 | 55 - 134 | 30 | S,R |



MS/MSD Summary Report

Raw values are used in quality control assessment.

| | | | | | | | |
|-----------------------|--------------|---------------------------|------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 3546MI_OCP | Prep Date: | 11/17/23 | Prep Batch: | 1156201 |
| Matrix: | Soil | Analytical Method: | SW8081B | Analyzed Date: | 11/17/2023 | Analytical Batch: | 479848 |
| Spiked Sample: | 2311115-001A | | | | | | |
| Units: | ug/Kg | | | | | | |

| Parameters | MDL | PQL | Sample Conc. | Spike Conc. | MS % Recovery | MSD % Recovery | MS/MSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|---------------|--------|------|--------------|-------------|---------------|----------------|--------------|-------------------|--------------|---------------|
| Endrin Ketone | 0.0980 | 2.00 | ND | 40 | 0.933 | 1.14 | 19.6 | 55 - 136 | 30 | S |
| TCMX (S) | | | | 100 | 30.0 | 31.0 | | 47 - 130 | | S |
| DCBP (S) | | | | 100 | 17.3 | 19.3 | | 54 - 125 | | S |

| | | | | | | | |
|-----------------------|--------------|---------------------------|-----------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 1312/7470 | Prep Date: | 11/17/23 | Prep Batch: | 1156202 |
| Matrix: | Soil | Analytical Method: | SW7470A | Analyzed Date: | 11/20/2023 | Analytical Batch: | 479741 |
| Spiked Sample: | 2311115-001A | | | | | | |
| Units: | mg/L | | | | | | |

| Parameters | MDL | PQL | Sample Conc. | Spike Conc. | MS % Recovery | MSD % Recovery | MS/MSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|----------------|----------|--------|--------------|-------------|---------------|----------------|--------------|-------------------|--------------|---------------|
| Mercury (SPLP) | 0.000130 | 0.0200 | ND | 0.015 | 91.8 | 92.3 | 0.722 | 80 - 120 | 20 | |

| | | | | | | | |
|-----------------------|--------------|---------------------------|-----------------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | Bioavailable As | Prep Date: | 11/27/23 | Prep Batch: | 1156340 |
| Matrix: | Soil | Analytical Method: | SW6010B | Analyzed Date: | 11/27/2023 | Analytical Batch: | 479892 |
| Spiked Sample: | 2311115-001B | | | | | | |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Sample Conc. | Spike Conc. | MS % Recovery | MSD % Recovery | MS/MSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|-----------------------|--------|-------|--------------|-------------|---------------|----------------|--------------|-------------------|--------------|---------------|
| Bioaccessible Arsenic | 0.0100 | 0.100 | 2.75 | 1.0 | 87.0 | 32.0 | 16.4 | 60 - 140 | 30 | S |

| | | | | | | | |
|-----------------------|--------------|---------------------------|---------|-----------------------|------------|--------------------------|---------|
| Work Order: | 2311115 | Prep Method: | 7471BP | Prep Date: | 11/27/23 | Prep Batch: | 1156351 |
| Matrix: | Soil | Analytical Method: | SW7471B | Analyzed Date: | 11/28/2023 | Analytical Batch: | 479879 |
| Spiked Sample: | 2311115-001A | | | | | | |
| Units: | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Sample Conc. | Spike Conc. | MS % Recovery | MSD % Recovery | MS/MSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|------------|-------|------|--------------|-------------|---------------|----------------|--------------|-------------------|--------------|---------------|
| Mercury | 0.027 | 0.29 | ND | 0.714 | 59.1 | 64.7 | 11.0 | 80 - 120 | 20 | S |



MS/MSD Summary Report

Raw values are used in quality control assessment.

| | | | |
|------------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| Work Order: 2311115 | Prep Method: 3050B | Prep Date: 11/27/23 | Prep Batch: 1156354 |
| Matrix: Soil | Analytical Method: SW6010C | Analyzed Date: 11/28/2023 | Analytical Batch: 480014 |
| Spiked Sample: 2311115-001A | | | |
| Units: mg/Kg | | | |

| Parameters | MDL | PQL | Sample Conc. | Spike Conc. | MS % Recovery | MSD % Recovery | MS/MSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|------------|------|------|--------------|-------------|---------------|----------------|--------------|-------------------|--------------|---------------|
| Antimony | 0.49 | 49.0 | ND | 25 | 56.3 | 67.6 | 6.12 | 30.7 - 130 | 30 | |
| Arsenic | 13 | 49.0 | 297 | 25 | 0 | 0 | 4.49 | 71.0 - 121 | 30 | NR |
| Barium | 0.54 | 49.0 | 231 | 25 | 0 | 0 | 8.14 | 70.2 - 130 | 30 | NR |
| Beryllium | 0.54 | 49.0 | ND | 25 | 95.2 | 98.5 | 1.65 | 73.3 - 115 | 30 | |
| Cadmium | 0.98 | 49.0 | ND | 25 | 94.9 | 101 | 4.08 | 68.7 - 110 | 30 | |
| Chromium | 0.74 | 49.0 | 136 | 25 | 0 | 0 | 4.42 | 76.0 - 116 | 30 | NR |
| Cobalt | 0.69 | 49.0 | ND | 25 | 84.8 | 121 | 15.9 | 57.4 - 122 | 30 | |
| Copper | 2.0 | 49.0 | 1400 | 25 | 0 | 0 | 9.59 | 74.8 - 119 | 30 | NR |
| Lead | 29 | 49.0 | 383 | 25 | 0 | 0 | 17.1 | 67.9 - 118 | 30 | NR |
| Molybdenum | | | | | | 95.4 | 1.09 | - | 30 | |
| Nickel | 4.9 | 49.0 | 71.3 | 25 | 179 | 145 | 8.14 | 61.5 - 122 | 30 | S |
| Selenium | 2.2 | 49.0 | ND | 25 | 85.4 | 90.3 | 4.03 | 62.0 - 111 | 30 | |
| Silver | 1.5 | 49.0 | ND | 25 | 105 | 100 | 4.48 | 75 - 125 | 30 | |
| Thallium | 2.0 | 49.0 | ND | 25 | 80.5 | 82.1 | 0.473 | 39.2 - 125 | 30 | |
| Vanadium | 0.98 | 49.0 | 55.0 | 25 | 87.6 | 102 | 4.10 | 65.8 - 122 | 30 | |
| Zinc | 2.9 | 49.0 | 2040 | 25 | 0 | 0 | 4.74 | 59.9 - 122 | 30 | NR |
| Aluminum | 210 | 980 | 10900 | 250 | 0 | 0 | 4.15 | 75.0 - 125 | 30 | NR |
| Calcium | 120 | 490 | 278000 | 250 | 0 | 0 | 2.95 | 77.0 - 125 | 30 | NR |
| Iron | 170 | 490 | 8710 | 250 | 0 | 0 | 4.34 | 75.0 - 125 | 30 | NR |
| Magnesium | 50 | 490 | 10100 | 250 | 0 | 0 | 3.88 | 75.0 - 125 | 30 | NR |
| Manganese | 8.3 | 49.0 | 299 | 25 | 0 | 0 | 3.11 | 75.0 - 125 | 30 | NR |
| Potassium | 46 | 490 | 1470 | 250 | 0 | 0 | 3.97 | 75.0 - 125 | 30 | NR |
| Sodium | 98 | 490 | 3380 | 250 | 0 | 0 | 5.96 | 75.0 - 125 | 30 | NR |



Laboratory Qualifiers and Definitions

DEFINITIONS:

| |
|--|
| Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value. |
| Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process. |
| Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD) |
| Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance. |
| Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc) |
| Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix. |
| Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero |
| Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes. |
| Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates |
| Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis |
| Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation. |
| Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m³ , mg/m³ , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface) |

LABORATORY QUALIFIERS

| |
|--|
| B - Indicates when the analyte is found in the associated method or preparation blank |
| D - Surrogate is not recoverable due to the necessary dilution of the sample |
| E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated. |
| H - Indicates that the recommended holding time for the analyte or compound has been exceeded |
| J - Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative |
| NA - Not Analyzed |
| N/A - Not Applicable |
| ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL. |
| NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added |
| R - The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts |
| S - Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative |
| X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative. |



Sample Receipt Checklist

Client Name: Tetra Tech Inc (HI)

Date and Time Received: 11/14/2023 10:05:00AM

Project Name: DOH Maui Wildfire Ash Sample-LAHAINA ASH DU-1

Received By: Claudia Moreno

Work Order No.: 2311115

Physically Logged By: LIMBAT

Checklist Completed By: LIMBAT

Carrier Name: FedEx

Chain of Custody (COC) Information

Chain of custody present? Yes

Chain of custody signed when relinquished and received? Yes

Chain of custody agrees with sample labels? Yes

Custody seals intact on sample bottles? Yes

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present

Shipping Container/Cooler In Good Condition? Yes

Samples in proper container/bottle? Yes

Samples containers intact? Yes

Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes

Container/Temp Blank temperature in compliance? Yes Temperature: 3.0 °C

Water-VOA vials have zero headspace? No VOA vials submitted

Water-pH acceptable upon receipt? N/A

pH Checked by: N/A pH Adjusted by: N/A

Comments:

Recv'd sample INTACT



Login Summary Report

| | | | |
|-------------------------|---|-----------------------|------------|
| Client ID: | TL5162 Tetra Tech Inc (HI) | QC Level: | II |
| Project Name: | DOH Maui Wildfire Ash Sample-LAHAINA ASH DU-1 | TAT Requested: | 10 Day:10 |
| Project # : | 103S864023138 | Date Received: | 11/14/2023 |
| Report Due Date: | 12/4/2023 | Time Received: | 10:05 am |
| Comments: | | | |
| Work Order # : | 2311115 | | |

| <u>WO Sample ID</u> | <u>Client Sample ID</u> | <u>Collection Date/Time</u> | <u>Matrix</u> | <u>Scheduled Disposal</u> | <u>Sample On Hold</u> | <u>Test On Hold</u> | <u>Requested Tests</u> | <u>Subbed</u> |
|--|--------------------------------|-----------------------------|---------------|---------------------------|-----------------------|---------------------|--|---------------|
| 2311115-001A | LAHAINA ASH DU-1 | 11/08/23 11:00 | Soil | 05/06/24 | | | PCBs_S_8082A Dioxins_8290 M_S Met_S_6010Full ISM Prep Pest_S_8081TETRA Hg_S_SPLP PAHSIM_S_8270 C Hg_S_7471B TPHDO_S_TetraMI Met_S_CAM17SPLP | |
| Sample Note: MIS samples from HI (ask). Analyze all samples dried/sieved (no wet). Analyze PAHs, metals, dioxins in triplicate (samples 001A/001B/001C). 6010 is for As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Sb, Be, Cu, Ni, Ti, Zn, Al, Ca, Co, Fe, Mg, Mn, K, Na and V. | | | | | | | | |
| 2311115-001B | LAHAINA ASH DU-1 Duplicate | 11/08/23 11:00 | Soil | 05/06/24 | | | Hg_S_7471B Met_S_6010Full Dioxins_8290_S Bioavailable As PAHSIM_S_8270 C | |
| 2311115-001C | LAHAINA ASH DU-1 Triplicate | 11/08/23 11:00 | Soil | 05/06/24 | | | Hg_S_7471B PAHSIM_S_8270 C Dioxins_8290_S Met_S_6010Full | |

