

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Honolulu Board of Water Supply
630 South Beretania Street
Public Service Bldg.” Room 308
Honolulu, HI 96843
Attention: Erwin Kawata
Fax: 808-550-5018



Utah ELCP CA00006

DEB: Debbie L Frank
Project Manager

Report: 990656
Project: INTERA
Group: MW - INTERA Albuquerque+

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.

* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.

* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.

* Test results relate only to the sample(s) tested.

* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).

* This report shall not be reproduced except in full, without the written approval of the laboratory.

* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

| State | Certification Number | State | Certification Number |
|------------------|----------------------|---|----------------------|
| Alabama | 41060 | Montana | Cert 0035 |
| Arizona | AZ0778 | Nebraska | NE-OS-21-13 |
| Arkansas | CA00006 | Nevada | CA00006 |
| California | 2813 | New Hampshire * | 2959 |
| Colorado | CA00006 | New Jersey * | CA 008 |
| Connecticut | PH-0107 | New Mexico | CA00006 |
| Delaware | CA 006 | New York * | 11320 |
| Florida * | E871024 | North Carolina | 06701 |
| Georgia | 947 | North Dakota | R-009 |
| Guam | 21-008R | Ohio - 537.1 | 87786 |
| Hawaii | CA00006 | Oregon * | 4034 |
| Idaho | CA00006 | Pennsylvania * | 68-00565 |
| Illinois | 200033 | Puerto Rico | CA00006 |
| Indiana | C-CA-01 | Rhode Island | LAO00326 |
| Iowa – Asbestos | 413 | South Carolina | 87016 |
| Kansas * | E-10268 | South Dakota | CA11320 |
| Kentucky | 90107 | Tennessee | TN02839 |
| Louisiana * | LA008 | Texas * | T104704230-20-18 |
| Maine | CA00006 | Utah (Primary AB) * | CA00006 |
| Maryland | 224 | Vermont | VT0114 |
| Marianas Islands | MP0004 | Virginia * | 460260 |
| Massachusetts | M-CA006 | Washington | C838 |
| Michigan | 9906 | EPA Region 5 | CA00006 |
| Mississippi | CA00006 | Los Angeles County Sanitation Districts | 10264 |

* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA.

Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

<https://www.eurofinsus.com/Eaton>

| Test(s) | Method(s) | Potable Water * | Waste Water | Test(s) | Method(s) | Potable Water * | Waste Water |
|---|--|-----------------|-------------|--|--|-----------------|-------------|
| Enterococci | Enterolert | x | x | Gross Alpha coprecipitation | SM 7110 C | x | x |
| Escherichia coli (Enumeration) | SM 9221 B.1 SM 9221 F | x | | Hardness | SM 2340 B | x | x |
| Fecal Coliform (P/A and Enumeration) | SM 9221 C (MTF/EC), SM 9221 E (MTF/EC) | x | x | Hexavalent Chromium | EPA 218.6, | x | x |
| Fecal Streptococci and Enterococci | SM 9230 B | x | x | Hexavalent Chromium | EPA 218.7, | x | |
| Heterotrophic Bacteria | SM 9215 B | x | | Hexavalent Chromium | SM 3500-Cr B | | x |
| Legionella | Legiolert® | x | | Inorganic Anions and DBPs | EPA 300.0 | x | x |
| Pseudomonas aeruginosa | Idexx Pseudalart | x | | Norganic Anions and DBPs | EPA 300.1 | x | |
| Total Coliform (P/A and Enumeration) | SM 9221A, SM 9221B, SM 9221 C | x | x | Kjeldahl Nitrogen | EPA 351.2 | | x |
| Total Coliform, Total Coliform with Chlorine Present | SM 9221 B | x | x | Metals | EPA 200.7, EPA200.8 | x | x |
| Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure) | SM 9223 | x | | Nitrosamines | EEA-Agilent 521.1 (GCMS-24250) | x | |
| Total Microcystins and Nodularins | EPA 546 | X | | Nitrate/Nitrite Nitrogen | EPA 353.2 | x | x |
| Yeast and Mold | SM 9610 | x | | Odor | SM2150B | x | |
| 1,2,3-Trichloropropane (TCP) at 5 PPT | CA SRL 524M-TCP | x | | Organohalide Pesticides and PCB | EPA 505 | x | |
| 1,4-Dioxane | EPA 522 | x | | Ortho Phosphate | SM 4500P E | x | |
| 2,3,7,8-TCDD | Modified EPA 1613 B | x | | Oxyhalides Disinfection Byproducts | EPA 317.0 | x | |
| Acrylamide | + LCMS 2440) | x | | Perchlorate | EPA 331.0 | x | |
| Algal Toxins/Microcystin | + LCMS 3570 | x | | Perchlorate (Low and High Levels) | EPA 314.0 | x | |
| Alkalinity | SM 2320B | x | x | Perfluorinated Alkyl Acids | EPA 533, EPA 537, EPA 537.1 | x | |
| Ammonia | EPA 350.1, SM 4500-NH3 H | | x | PPCP and EDC | + LCMS-2443 | x | |
| Asbestos | EPA 100.2 | x | x | pH | EPA 150.1 SM 4500-H+ B | x | x |
| Bicarbonate Alkalinity as HCO3 | SM 2330 B | x | x | Phenolics – Low Level | +WC 2493 (EPA 420.2 and EPA 420.4 MOD) | x | x |
| BOD/CBOD | SM 5210 B | | x | Phenylurea Pesticides/Herbicides | + LCMS-2448 | x | |
| Bromate | + LCMS- 2447 | x | | Radium-226, Radium-228 | GA Tech (Rad-2374) | x | |
| Carbonate as CO3 | SM 2330 B | x | x | Radon-222 | SM 7500RN | x | |
| Carbonyls | EPA 556 | x | x | Residue (Filterable) | SM 2540C | x | x |
| Chemical Oxygen Demand | EPA 410.4, SM 5220D | | x | Residue (Non-Filterable) | SM 2540D | | x |
| Chlorinated Acids | EPA 515.4 | x | | Residue (Total) | SM 2540B | | x |
| Chlorine Dioxide | Palin Test Chlordio X Plus, SM 4500-CLO2 D | x | | Residue (Volatile) | EPA 160.4 | | x |
| Chlorine, Free, Combined, Total Residual, Chloramines | SM 4500-Cl G | x | | Semi-Volatile Compounds | EPA 525.2 | x | |
| Color | SM2120B | x | | Silica | SM 4500-SiO2 C | x | x |
| Conductivity | EPA 120.1, SM 2510B | x | x | Sulfide | SM 4500-S D | | x |
| Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated | SM 2330 B | x | | Sulfite | SM 4500-SO3 B | x | x |
| Cyanide (Amenable) | SM 4500-CN G | x | x | Surfactants | SM 5540C | x | x |
| Cyanide (Free) | SM 4500CN F | x | x | Taste and Odor | SM 6040 E | x | |
| Cyanide (Total) | EPA 335.4 | x | x | Total Organic Carbon | SM 5310 C | x | x |
| Cyanogen Chloride (Screen) | + 335 Mod (WC-24467) | x | | Total Phenols | EPA 420.1 | | x |
| Diquat and Paraquat | EPA 549.2 | x | | Total Phenols | EPA 420.4 | x | x |
| DBP and HAA | SM 6251 B | x | | Triazine Pesticides and their Degradates | + LCMS-3617 | x | |
| Dissolved Organic Carbon | SM 5310 C | x | | Turbidity | EPA 180.1 | x | x |
| Dissolved Oxygen | SM 4500-O G | | x | Uranium by ICP/MS | EPA 200.8 | x | |
| EDB/DCBP/TCP | EPA 504.1 | x | | UV 254 Organic Constituents | SM 5910B | x | |
| EDB/DBCP and Disinfection Byproducts | EPA 551.1 | x | | VOCs | EPA 524.2 | x | |
| EDTA and NTA | + WC-2454 | x | | VOCs | + (GCMS 2412) by EPA 524.2 modified | x | |
| Endothall | EPA 548.1, +(LCMS-2445) | x | | | | | |
| Fluoride | SM 4500F C | x | x | | | | |
| Glyphosate | EPA 547 | x | | | | | |
| Glyphosate and AMPA | + LCMS-3618 | x | | | | | |
| Gross Alpha and Gross Beta | EPA 900.0 | x | x | | | | |

(*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.

(+) In-House Method

Acknowledgement of Samples Received

Addr: **Honolulu Board of Water Supply**
 630 South Beretania Street
 Public Service Bldg." Room 308
 Honolulu, HI 96843

Attn: Erwin Kawata
 Phone: 808-748-5091

Client ID: HONOLULU
 Folder #: 990656
 Project: INTERA
 Sample Group: MW - INTERA Albuquerque+

Project Manager: Debbie L Frank
 Phone: (626) 386-1149
 PO #: C20525101 exp 05312023

The following samples were received from you on **March 03, 2022** at **1030**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

| Sample # | Sample ID | Sample Date |
|---------------------|---|-----------------|
| <u>202203030207</u> | BWS2253-J1-AQ | 03/01/2022 0915 |
| | (SUB)Gas Fraction Hydrocarbons RUSH TPH 8015 Diesel and Motor Oil | |
| <u>202203030208</u> | BWS2253-J1-TB | 03/01/2022 0915 |
| | (SUB)Gas Fraction Hydrocarbons | |

Test Description

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 990656
Project: INTERA
Group: MW - INTERA Albuquerque+

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843

Folder Comments

Results for TPH Carbon Chain are submitted by Asset Laboratories

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Report: 990656
Project: INTERA
Group: MW - INTERA Albuquerque+

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843

Samples Received on:
03/03/2022 1030

| Analyzed | Analyte | Sample ID | Result | HI Limit | Units | MRL |
|----------|---------|-----------|--------|----------|-------|-----|
|----------|---------|-----------|--------|----------|-------|-----|

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 630 South Beretania Street
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Samples Received on:
 03/03/2022 1030

| Prepped | Analyzed | Prep Batch | Analytical Batch | Method | Analyte | Result | Units | MRL | Dilution |
|--|----------------|------------|------------------|------------|--------------------------------|-----------------------------------|-------|------|----------|
| <u>BWS2253-J1-AQ (202203030207)</u> | | | | | | Sampled on 03/01/2022 0915 | | | |
| SW 8015B - (SUB)Gas Fraction Hydrocarbons | | | | | | | | | |
| 03/04/22 | 03/04/22 11:59 | | | (SW 8015B) | (SUB)Gas Fraction Hydrocarbons | ND | mg/L | 0.05 | 1 |
| SW 8015B - TPH 8015 Diesel and Motor Oil | | | | | | | | | |
| 03/04/22 | 03/04/22 08:03 | | | (SW 8015B) | TPH Diesel | ND | ug/L | 50 | 1 |
| 03/04/22 | 03/04/22 08:03 | | | (SW 8015B) | TPH Motor Oil | ND | ug/L | 50 | 1 |
| <u>BWS2253-J1-TB (202203030208)</u> | | | | | | Sampled on 03/01/2022 0915 | | | |
| SW 8015B - (SUB)Gas Fraction Hydrocarbons | | | | | | | | | |
| 03/04/22 | 03/04/22 11:29 | | | (SW 8015B) | (SUB)Gas Fraction Hydrocarbons | ND | mg/L | 0.05 | 1 |

Rounding on totals after summation.
 (c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.

March 07, 2022

Debbie Frank
Eurofins
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016-3629
TEL: (626) 386-1158
FAX:

Workorder No.: N049645

RE: RED HILL

Attention: Debbie Frank

Enclosed are the results for sample(s) received on March 03, 2022 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NV00922
ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

CLIENT: Eurofins
Project: RED HILL
Lab Order: N049645

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.



CLIENT: Eurofins
Project: RED HILL
Lab Order: N049645
Contract No:

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date | Date Received | Date Reported |
|---------------|---------------------------------------|-----------------|---------------------|---------------|---------------|
| N049645-001A | 990656_202203030207_BW S2253-J1-AQ | Raw Groundwater | 3/1/2022 9:15:00 AM | 3/3/2022 | 3/7/2022 |
| N049645-001B | 990656_202203030207_BW S2253-J1-AQ | Raw Groundwater | 3/1/2022 9:15:00 AM | 3/3/2022 | 3/7/2022 |
| N049645-002A | 990656_202203030208_BW S2253-J1-TB | Bottled Water | 3/1/2022 9:15:00 AM | 3/3/2022 | 3/7/2022 |



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 07-Mar-22

CLIENT: Eurofins
Lab Order: N049645
Project: RED HILL
Lab ID: N049645-001

Client Sample ID: 990656_202203030207_BWS2253-J
Collection Date: 3/1/2022 9:15:00 AM
Matrix: RAW GROUNDWATER

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

TPH CARBON CHAIN EPA 8015

EPA 3510C

EPA 8015B(M)

| | | | | | | |
|---------------------------------|-----------------|--------|--|------|--------------------|-------------------|
| RunID: NV00922-GC3_220303C | QC Batch: 91731 | | | | PrepDate: 3/4/2022 | Analyst: MCC |
| Diesel Range Organics (C10-C28) | ND | 50 | | ug/L | 1 | 3/4/2022 08:03 PM |
| Oil Range Organics (C28-C40) | ND | 50 | | ug/L | 1 | 3/4/2022 08:03 PM |
| Surr: p-Terphenyl | 92.5 | 33-138 | | %REC | 1 | 3/4/2022 08:03 PM |

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

| | | | | | | |
|----------------------------|--------------------|--------|--|------|-----------|-------------------|
| RunID: NV00922-GC4_220304A | QC Batch: E22VW023 | | | | PrepDate: | Analyst: QBM |
| GRO | ND | 0.050 | | mg/L | 1 | 3/4/2022 11:59 AM |
| Surr: Chlorobenzene - d5 | 112 | 69-130 | | %REC | 1 | 3/4/2022 11:59 AM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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 ELAP Cert 2676 | NV Cert NV00922
 ORELAP/NELAP Cert 4046

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ANALYTICAL RESULTS

Print Date: 07-Mar-22

| | |
|----------------------------|--|
| CLIENT: Eurofins | Client Sample ID: 990656_202203030208_BWS2253-J |
| Lab Order: N049645 | Collection Date: 3/1/2022 9:15:00 AM |
| Project: RED HILL | Matrix: BOTTLED WATER |
| Lab ID: N049645-002 | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

| | | | | | |
|----------------------------|--------------------|-----------|---------------------|---|-------------------|
| RunID: NV00922-GC4_220304A | QC Batch: E22VW023 | PrepDate: | Analyst: QBM | | |
| GRO | ND | 0.050 | mg/L | 1 | 3/4/2022 11:29 AM |
| Surr: Chlorobenzene - d5 | 106 | 69-130 | %REC | 1 | 3/4/2022 11:29 AM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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Date: 07-Mar-22

ANALYTICAL QC SUMMARY REPORT

CLIENT: Eurofins
Work Order: N049645
Project: RED HILL

TestCode: 8015DM_W_CC

| | | | | | | | | | | | |
|----------------------------|------------------------|-----------------------------|--------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-91731 | SampType: MBLK | TestCode: 8015DM_W_C | Units: ug/L | Prep Date: 3/4/2022 | RunNo: 160629 | | | | | | |
| Client ID: PBW | Batch ID: 91731 | TestNo: EPA 8015B(M) | EPA 3510C | Analysis Date: 3/4/2022 | SeqNo: 4553997 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------------------------------|--------|----|-------|--|-----|----|-----|--|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 50 | | | | | | | | | |
| Oil Range Organics (C28-C40) | ND | 50 | | | | | | | | | |
| Surr: p-Terphenyl | 82.594 | | 80.00 | | 103 | 33 | 138 | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|-----------------------------|--------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-91731 | SampType: LCS | TestCode: 8015DM_W_C | Units: ug/L | Prep Date: 3/4/2022 | RunNo: 160629 | | | | | | |
| Client ID: LCSW | Batch ID: 91731 | TestNo: EPA 8015B(M) | EPA 3510C | Analysis Date: 3/4/2022 | SeqNo: 4553998 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------------------------------|---------|----|-------|---|------|----|-----|--|--|--|--|
| Diesel Range Organics (C10-C28) | 827.211 | 50 | 1000 | 0 | 82.7 | 48 | 120 | | | | |
| Surr: p-Terphenyl | 68.260 | | 80.00 | | 85.3 | 33 | 138 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|-----------------------------|--------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N049645-001B-MS | SampType: MS | TestCode: 8015DM_W_C | Units: ug/L | Prep Date: 3/4/2022 | RunNo: 160629 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 91731 | TestNo: EPA 8015B(M) | EPA 3510C | Analysis Date: 3/4/2022 | SeqNo: 4554000 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------------------------------|---------|----|-------|---|------|----|-----|--|--|--|--|
| Diesel Range Organics (C10-C28) | 746.788 | 50 | 1000 | 0 | 74.7 | 48 | 120 | | | | |
| Surr: p-Terphenyl | 61.932 | | 80.00 | | 77.4 | 33 | 138 | | | | |

| | | | | | | | | | | | |
|------------------------------------|------------------------|-----------------------------|--------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N049645-001B-MSD | SampType: MSD | TestCode: 8015DM_W_C | Units: ug/L | Prep Date: 3/4/2022 | RunNo: 160629 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 91731 | TestNo: EPA 8015B(M) | EPA 3510C | Analysis Date: 3/4/2022 | SeqNo: 4554001 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------------------------------|---------|----|-------|---|------|----|-----|-------|------|----|--|
| Diesel Range Organics (C10-C28) | 860.940 | 50 | 1000 | 0 | 86.1 | 48 | 120 | 746.8 | 14.2 | 20 | |
| Surr: p-Terphenyl | 70.586 | | 80.00 | | 88.2 | 33 | 138 | | 0 | 0 | |

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



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 ELAP Cert 2921 ELAP Cert 2676 | NV Cert NV00922
 EPA ID:CA01638 ORELAP/NELAP Cert 4046

ANALYTICAL QC SUMMARY REPORT

CLIENT: Eurofins
Work Order: N049645
Project: RED HILL

TestCode: 8015GAS_WP

| | | | | | | | | | | | |
|------------------------------|---------------|---------------------------|------------------|-----------------------------|-------------|--------------------|------------------|--------------------------------|-------------|-----------------------|-------------|
| Sample ID: E220304LCS | | SampType: LCS | | TestCode: 8015GAS_WP | | Units: mg/L | | Prep Date: | | RunNo: 160604 | |
| Client ID: LCSW | | Batch ID: E22VW023 | | TestNo: EPA 8015B | | | | Analysis Date: 3/4/2022 | | SeqNo: 4552717 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.178 | 0.050 | 1.000 | 0 | 118 | 69 | 143 | | | | |
| Surr: Chlorobenzene - d5 | 54.749 | | 50.00 | | 109 | 69 | 130 | | | | |


| | | | | | | | | | | | |
|------------------------------|---------------|---------------------------|------------------|-----------------------------|-------------|--------------------|------------------|--------------------------------|-------------|-----------------------|-------------|
| Sample ID: E220304MB1 | | SampType: MBLK | | TestCode: 8015GAS_WP | | Units: mg/L | | Prep Date: | | RunNo: 160604 | |
| Client ID: PBW | | Batch ID: E22VW023 | | TestNo: EPA 8015B | | | | Analysis Date: 3/4/2022 | | SeqNo: 4552718 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | ND | 0.050 | | | | | | | | | |
| Surr: Chlorobenzene - d5 | 53.077 | | 50.00 | | 106 | 69 | 130 | | | | |

| | | | | | | | | | | | |
|----------------------------------|---------------|---------------------------|------------------|-----------------------------|-------------|--------------------|------------------|--------------------------------|-------------|-----------------------|-------------|
| Sample ID: N049645-002AMS | | SampType: MS | | TestCode: 8015GAS_WP | | Units: mg/L | | Prep Date: | | RunNo: 160604 | |
| Client ID: ZZZZZZ | | Batch ID: E22VW023 | | TestNo: EPA 8015B | | | | Analysis Date: 3/4/2022 | | SeqNo: 4552722 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.107 | 0.050 | 1.000 | 0 | 111 | 49 | 156 | | | | |
| Surr: Chlorobenzene - d5 | 53.147 | | 50.00 | | 106 | 69 | 130 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|---------------|---------------------------|------------------|-----------------------------|-------------|--------------------|------------------|--------------------------------|-------------|-----------------------|-------------|
| Sample ID: N049645-002AMSD | | SampType: MSD | | TestCode: 8015GAS_WP | | Units: mg/L | | Prep Date: | | RunNo: 160604 | |
| Client ID: ZZZZZZ | | Batch ID: E22VW023 | | TestNo: EPA 8015B | | | | Analysis Date: 3/4/2022 | | SeqNo: 4552723 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.130 | 0.050 | 1.000 | 0 | 113 | 49 | 156 | 1.107 | 2.06 | 20 | |
| Surr: Chlorobenzene - d5 | 55.936 | | 50.00 | | 112 | 69 | 130 | | 0 | 0 | |

Qualifiers:

| | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



 "Serving Clients with Passion and Professionalism"
 CALIFORNIA P:562.219.7435 F:562.219.7436 NEVADA P:702.307.2659 F:702.307.2691
 11110 Artesia Blvd - Ste B, Cerritos, CA 90703 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2921 ELAP Cert 2676 | NV Cert NV00922
 EPA ID:CA01638 ORELAP/NELAP Cert 4046

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WU

CLIENT: Eurofins
 Work Order: N049645
 Project: RED HILL

| | | | | | | | | | | | |
|--------------------------|--------------------|----------------------|-------------|-------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: E220304LCS | SampType: LCS | TestCode: 8015GAS_WU | Units: mg/L | Prep Date: 160604 | | | | | | | |
| Client ID: LCSW | Batch ID: E22VW023 | TestNo: EPA 8015B | | SeqNo: 4552724 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.178 | 0.050 | 1.000 | 0 | 118 | 69 | 143 | | | | |
| Surr: Chlorobenzene - d5 | 54.749 | | 50.00 | | 109 | 69 | 130 | | | | |

| | | | | | | | | | | | |
|--------------------------|--------------------|----------------------|-------------|-------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: E220304MB1 | SampType: MBLK | TestCode: 8015GAS_WU | Units: mg/L | Prep Date: 160604 | | | | | | | |
| Client ID: PBW | Batch ID: E22VW023 | TestNo: EPA 8015B | | SeqNo: 4552725 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | ND | 0.050 | | | | | | | | | |
| Surr: Chlorobenzene - d5 | 53.077 | | 50.00 | | 106 | 69 | 130 | | | | |

| | | | | | | | | | | | |
|---------------------------|--------------------|----------------------|-------------|-------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: N049645-002AMS | SampType: MS | TestCode: 8015GAS_WU | Units: mg/L | Prep Date: 160604 | | | | | | | |
| Client ID: ZZZZZZ | Batch ID: E22VW023 | TestNo: EPA 8015B | | SeqNo: 4552729 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.107 | 0.050 | 1.000 | 0 | 111 | 49 | 156 | | | | |
| Surr: Chlorobenzene - d5 | 53.147 | | 50.00 | | 106 | 69 | 130 | | | | |

| | | | | | | | | | | | |
|----------------------------|--------------------|----------------------|-------------|-------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: N049645-002AMSD | SampType: MSD | TestCode: 8015GAS_WU | Units: mg/L | Prep Date: 160604 | | | | | | | |
| Client ID: ZZZZZZ | Batch ID: E22VW023 | TestNo: EPA 8015B | | SeqNo: 4552730 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.130 | 0.050 | 1.000 | 0 | 113 | 49 | 156 | 1.107 | 2.06 | 20 | |
| Surr: Chlorobenzene - d5 | 55.936 | | 50.00 | | 112 | 69 | 130 | | 0 | 0 | |

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



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ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 3/3/2022 Workorder: N049645
 Rep sample Temp (Deg C): 4.2 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: FedEx
 Last 4 digits of Tracking No.: 7285 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login? Was Client notified? | Yes <input type="checkbox"/> Yes <input type="checkbox"/> | No <input type="checkbox"/> No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> NA <input checked="" type="checkbox"/> |

Comments: Sample 2: Same collection date and time of the associated field sample (sample 1).

Checklist Completed By: YR YRJ 3/3/2022

Reviewed By: ABC 3/3/2022

ASSET Laboratories

WORK ORDER Summary

03-Mar-22

WorkOrder: N049645

Client ID: EUROF01

Project: RED HILL

Comments: MRL only

QC Level: RTNE

Date Received: 3/3/2022

| Sample ID | Client Sample ID | Date Collected | Date Due | Matrix | Test No | Test Name | Hld | MS | Sub | Storage |
|--------------|---|---------------------|----------|-----------------|--------------|---|--------------------------|--------------------------|--------------------------|---------|
| N049645-001A | 990656_202203030207_BWS 3/3/22 11:40 | 3/1/2022 9:15:00 AM | 3/7/2022 | Raw Groundwater | EPA 8015B | GASOLINE RANGE ORGANICS BY GC/FID | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | VW |
| N049645-001B | | | 3/7/2022 | | EPA 3510C | SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW |
| | | | 3/7/2022 | | EPA 8015B(M) | TPH Carbon Chain EPA 8015 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW |
| N049645-002A | 990656_202203030208_BWS 3/3/22 11:40 | | 3/7/2022 | Bottled Water | EPA 8015B | GASOLINE RANGE ORGANICS BY GC/FID | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | VW |
| N049645-003A | FOLDER | 3/7/2022 | 3/7/2022 | | Folder | Folder | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB |
| | | | 3/7/2022 | | Folder | Folder | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB |

ORIGIN ID: HNLA (808) 382-6853
KEVIN GOODING
INTERA INC
74 KIHAPAI ST
PO NO: BUSHI.C002.REDMILL
KAILUA, HI 96734
UNITED STATES US

SHIP DATE: 01MAR22
ACTWT: 43.30 LB
CAD: 6994241/55FE2300
DIMS: 24x13x13 IN
BILL THIRD PARTY

Part # 1502974689-99999999-01/23

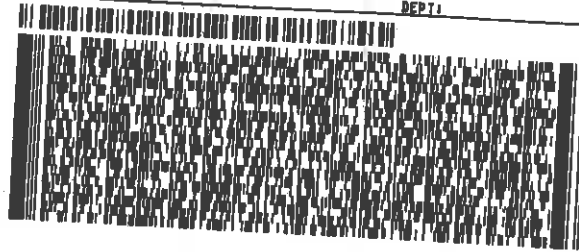
TO **ASSET LABORATORIES**
ATTN: MARLON CARTIN SAMPLE RECEIVING
3151 W POST RD

LAS VEGAS NV 89118

(702) 307-2659
INV#
PDI

REF:

DEPT:



FedEx
Express



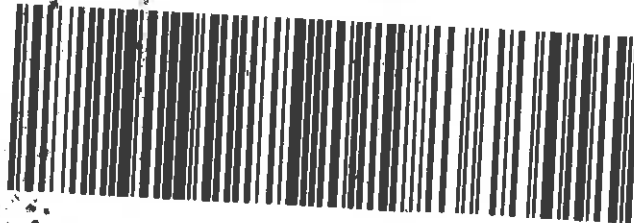
AN109114K201Z27

TRK# 2703 7864 7285
0201

WED - 02 MAR 10:30A
PRIORITY OVERNIGHT

WR LASA

AHS
89118
NV-US LAS



4.2°C
SN# 3