

Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC 7440 Lincoln Wav Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-78473-1

Client Project/Site: 974586 - RED-HILL-INCIDENT (

McGraw Loop)



Eurofins Eaton Analytical 750 Royal Oaks Drive Monrovia, California 91016

Attn: Jaclyn Contreras

Luchlang

Authorized for release by:

12/14/2021 9:52:09 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Laboratory Job ID: 570-78473-1

Project/Site: 974586 - RED-HILL-INCIDENT McGraw Loop)

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Definitions/Glossary

Client: Eurofins Eaton Analytical

Project/Site: 974586 - RED-HILL-INCIDENT (McGraw Loo

Job ID: 570-78473-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Eurofins Eaton Analytical

McGraw Loop) Project/Site: 974586 - RED-HILL-INCIDENT

Job ID: 570-78473-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-78473-1

Comments

No additional comments.

Receipt

The sample was received on 12/11/2021 10:30 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 570-78473-1

Detection Summary

Client: Eurofins Eaton Analytical

Project/Site: 974586 - RED-HILL-INCIDENT McGraw Loc

Job ID: 570-78473-1

Client Sample ID: 202112130032 Lab Sample ID: 570-78473-1

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
C6-C44	53	48	ug/L	1	8015B	Total/NA
Oil Range Organics (C28-C40)	59	48	ug/L	1	8015B	Total/NA

Client Sample Results

Client: Eurofins Eaton Analytical

Surrogate

n-Octacosane (Surr)

Project/Site: 974586 - RED-HILL-INCIDENT McGraw Loc

Job ID: 570-78473-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: 20211213003 Date Collected: 12/08/21 10:35	32			Lab Sample ID: 570-78473 Matrix: Wat
Date Received: 12/11/21 10:30 Analyte	Result Qualifier	RL	Unit	D Prepared Analyzed Dil F
C6 as C6	ND -	48	ug/L	12/13/21 09:56 12/13/21 17:09
C7 as C7	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C8 as C8	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C9-C10	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C11-C12	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C13-C14	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C15-C16	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C17-C18	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C19-C20	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C21-C22	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C23-C24	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C25-C28	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C29-C32	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C33-C36	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C37-C40	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C41-C44	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
C6-C44	53	48	ug/L	12/13/21 09:56 12/13/21 17:09
Gasoline Range Organics (GRO)-C6-C10	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
Diesel Range Organics [C10-C28]	ND	48	ug/L	12/13/21 09:56 12/13/21 17:09
Oil Range Organics (C28-C40)	59	48	ug/L	12/13/21 09:56 12/13/21 17:09

Limits

53 - 151

%Recovery Qualifier

121

Prepared

<u>12/13/21 09:56</u> <u>12/13/21 17:09</u>

Analyzed

Dil Fac

Surrogate Summary

Client: Eurofins Eaton Analytical

Project/Site: 974586 - RED-HILL-INCIDENT McGraw Loc

Job ID: 570-78473-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1	
Lab Sample ID	Client Sample ID	(53-151)	
570-78473-1	202112130032	121	
LCS 570-200528/2-A	Lab Control Sample	107	
LCSD 570-200528/3-A	Lab Control Sample Dup	99	
MB 570-200528/1-A	Method Blank	119	
Surrogate Legend			
OTCSN = n-Octacosan	ne (Surr)		

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Client: Eurofins Eaton Analytical

Job ID: 570-78473-1 Project/Site: 974586 - RED-HILL-INCIDENT McGraw Loo

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-200528/1-A **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 200572

Prep Type: Total/NA

Prep Batch: 200528

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C7 as C7	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C8 as C8	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C9-C10	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C11-C12	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C13-C14	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C15-C16	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C17-C18	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C19-C20	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C21-C22	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C23-C24	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C25-C28	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C29-C32	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C33-C36	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C37-C40	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C41-C44	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
C6-C44	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
Gasoline Range Organics (GRO)-C6-C10	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
Diesel Range Organics [C10-C28]	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
Oil Range Organics (C28-C40)	ND		50	ug/L		12/13/21 09:56	12/13/21 13:16	1
	MB	МВ						

Lab Sample ID: LCS 570-200528/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Qualifier

Matrix: Water

Diesel Range Organics

n-Octacosane (Surr)

Surrogate

Analyte

[C10-C28]

Analysis Batch: 200572

%Recovery

119

Spike Added 4000

53 - 151

Limits

53 - 151

LCS LCS Result Qualifier

4380

Unit ug/L

Unit

ug/L

D %Rec 109

D %Rec

103

Prepared

Prep Batch: 200528 %Rec.

Analyzed

Limits 70 - 131

70 - 131

12/13/21 09:56 12/13/21 13:16

LCS LCS Limits Surrogate %Recovery Qualifier

Lab Sample ID: LCSD 570-200528/3-A

Matrix: Water

n-Octacosane (Surr)

Analysis Batch: 200572

Spike LCSD LCSD Added Result Qualifier 4000 4131

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 200528

%Rec. **RPD** Limits RPD Limit

20

Diesel Range Organics [C10-C28]

Analyte

LCSD LCSD

Surrogate %Recovery Qualifier Limits 53 - 151 n-Octacosane (Surr) 99

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QC Association Summary

Client: Eurofins Eaton Analytical

Project/Site: 974586 - RED-HILL-INCIDENT (McGraw Loc

Job ID: 570-78473-1

GC Semi VOA

Prep Batch: 200528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-78473-1	202112130032	Total/NA	Water	3510C	
MB 570-200528/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-200528/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-200528/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 200572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-78473-1	202112130032	Total/NA	Water	8015B	200528
MB 570-200528/1-A	Method Blank	Total/NA	Water	8015B	200528
LCS 570-200528/2-A	Lab Control Sample	Total/NA	Water	8015B	200528
LCSD 570-200528/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	200528

Lab Chronicle

Client: Eurofins Eaton Analytical

Project/Site: 974586 - RED-HILL-INCIDENT (McGraw Loc

Lab Sample ID: 570-78473-1

Matrix: Water

Job ID: 570-78473-1

Client Sample ID: 202112130032 Date Collected: 12/08/21 10:35

Date Received: 12/11/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			258.9 mL	2.5 mL	200528	12/13/21 09:56	UFLU	ECL 1
Total/NA	Analysis	8015B		1			200572	12/13/21 17:09	UJ3K	ECL 1
	Instrument	ID: GC48								

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Eurofins Eaton Analytical

Project/Site: 974586 - RED-HILL-INCIDENT McGraw Loc

Job ID: 570-78473-1

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22
Oregon	NELAP	CA300001	01-30-22

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Method Summary

Client: Eurofins Eaton Analytical

Project/Site: 974586 - RED-HILL-INCIDENT (McGraw Loc

MethodMethod DescriptionProtocolLaboratory8015BDiesel Range Organics (DRO) (GC)SW846ECL 13510CLiquid-Liquid Extraction (Separatory Funnel)SW846ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-78473-1

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Sample Summary

Client: Eurofins Eaton Analytical

Project/Site: 974586 - RED-HILL-INCIDENT McGraw

Loop)

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 570-78473-1
 202112130032
 Water
 12/08/21 10:35
 12/11/21 10:30

Job ID: 570-78473-1

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Eaton Analytical

Ship To: `Eurofins CalScience 7440 Lincoln Way

Garden Grove, CA 92641-1432

Phone: 714-895-5494 Fax: 714-894-7501

Folder #: Report Due: 974586 12/16/2021

Received by:

Submittal Form

*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # 974586 Job # 1000014

Report all quality control data according to Method, Include dates analyzed. Date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical, LLC
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix.

Date: 12/13/2021

Samples from: HAWAII

Sample ID 202112130032	Client Sample ID for reference onl McGraw Loop		Sample Date & Time Matrix 12/08/21 1035 DW	Clip Code PWSID	JLS
Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID: Extractable	

Method	Prep Method	Analysis Requested
8015B M	EPA 3510C	6257 8015B(M) C6-C44

Relinquished by:	Sample Control	Date Tir	ne	NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS
Received by:		Date Tir	ne	An Acknowledgement of Receipt is requested to attn: Jackie Contreras
Relinquished by:	Sample Control	Date Tir	ne	

Time

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Date

12/14/2021

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26DJ3/E634/FE4A SATURDAY 12:00P PRIORITY OVERNIGHT SHIP DATE: 10DEC21 ACTWGT 12:00 LB CAD: 101971153/INET4400 DIMS 16x12x14 IN BILL SENDER GARDEN GROVE CA 92641 (714) 895-5494 REF **EUROFINS CALSCIENCE** 7754 6324 7728 (808) 586-4258 ORIGIN ID NAXA (808) 586-4256 SEILA ARONI DEPARTMENT OF HEALTH/SDW/B 2385 WAIMANO HOME RD ULUAKUPU BLDG 4 PEARL CITY, HI 96782 UNITED STATES US 7440 LINCOLN WAY **XUAN DANG** # MASTER # 1 of 12

570-78473 Waybill

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12/14/2021

Client: Eurofins Eaton Analytical

Job Number: 570-78473-1

Login Number: 78473 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Creator. Namos, Manber		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	