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

RE: HDOH Red Hill

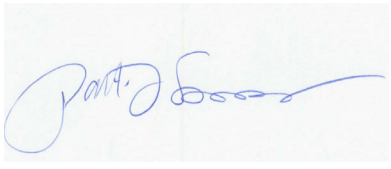
Work Order No.: 2112217 Rev. 1

Dear Yvonne Parry:

Torrent Laboratory, Inc. received 14 sample(s) on December 17, 2021 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.



Patti L Sandrock
QA Officer

December 27, 2021
Date

Date: 12/27/2021

Client: Tetra Tech Inc (HI)

Project: HDOH Red Hill

Work Order: 2112217

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

Methane analysis was sub-contracted to ELAP certified laboratory AAC. Sub-contract data will follow under a separate cover.

REVISIONS

Report revised to include sub-contracted methane data. Sub-contract data appear as an attachment to the Torrent generated report.

Rev. 1 (1/12/22)

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date Received: 12/17/21
Date Reported: 12/27/21

ERH2197-OWDFMW01 2112217-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TOC	A5310B	1	0.40	2.0	24.7	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.130	mg/L

ERH2186-RHMW06 2112217-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TOC	A5310B	1	0.40	2.0	38.8	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.441	mg/L
TPH as Motor Oil	SW8015B	1	0.11	0.40	0.772	mg/L
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	0.205	mg/L
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	0.464	mg/L

ERH2203-RHMW14(ZONE 3) 2112217-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TOC	A5310B	1	0.40	2.0	11.9	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.142	mg/L
TPH as Motor Oil	SW8015B	1	0.11	0.40	0.474	mg/L
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	0.419	mg/L

ERH2205-RHMW15(ZONE 5A) 2112217-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TOC	A5310B	1	0.40	2.0	11.6	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.106	mg/L

ERH2195-RHWMW16 2112217-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TOC	A5310B	1	0.40	2.0	9.00	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.104	mg/L

ERH2193-RHMW12A 2112217-006

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TOC	A5310B	1	0.40	2.0	11.1	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.111	mg/L

ERH2184-RHMW05 2112217-007

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TOC	A5310B	1	0.40	2.0	13.0	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.106	mg/L

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date Received: 12/17/21
Date Reported: 12/27/21

ERH2178-RHMW01R 2112217-008

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH(Gasoline)	8260TPH	1	29	50	53.1	ug/L
TOC	A5310B	1	0.40	2.0	19.6	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.315	mg/L
TPH as Motor Oil	SW8015B	1	0.11	0.40	0.422	mg/L
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	0.130	mg/L

ERH2180-RHMW02 2112217-009

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH(Gasoline)	8260TPH	1	29	50	165	ug/L
TOC	A5310B	1	0.40	2.0	44.8	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	1.13	mg/L
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	0.306	mg/L
Isopropyl Benzene	SW8260B	1	0.22	0.50	0.61	ug/L
n-Propylbenzene	SW8260B	1	0.30	0.50	0.64	ug/L
tert-Butylbenzene	SW8260B	1	0.26	0.50	0.63	ug/L
sec-Butyl Benzene	SW8260B	1	0.30	0.50	0.58	ug/L
n-Butylbenzene	SW8260B	1	0.27	0.50	0.69	ug/L

ERH2182-RHMW03 2112217-010

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TOC	A5310B	1	0.40	2.0	66.9	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.206	mg/L
TPH as Motor Oil	SW8015B	1	0.11	0.40	0.663	mg/L

ERH2206-RHMW2254-01 2112217-011

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH(Gasoline)	8260TPH	1	29	50	394	ug/L
TOC	A5310B	1	0.40	2.0	19.9	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.536	mg/L
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	0.237	mg/L
Bromoform	SW8260B	1	0.076	0.50	0.55	ug/L
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	1.2	ug/L
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	2.5	ug/L
p-Isopropyltoluene	SW8260B	1	0.27	0.50	0.82	ug/L
n-Butylbenzene	SW8260B	1	0.27	0.50	1.3	ug/L
Naphthalene	SW8260B	1	1.2	2.0	2.9	ug/L

ERH2175-RHMW2254-01 2112217-012

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TOC	A5310B	1	0.40	2.0	14.5	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.190	mg/L
Bromoform	SW8260B	1	0.076	0.50	0.57	ug/L

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date Received: 12/17/21
Date Reported: 12/27/21

ERH2230-INFILTRATION GW SUMP 2112217-013

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH(Gasoline)	8260TPH	4.2	120	210	626	ug/L
TOC	A5310B	1	0.40	2.0	31.2	mg/L
TPH as Diesel	SW8015B	2	0.074	0.20	2.19	mg/L
TPH as Diesel (SG)	SW8015B	2	0.074	0.20	1.34	mg/L
1,3,5-Trimethylbenzene	SW8260B	4.2	1.0	2.1	2.3	ug/L
1,2,4-Trimethylbenzene	SW8260B	4.2	0.97	2.1	3.2	ug/L
p-Isopropyltoluene	SW8260B	4.2	1.1	2.1	2.3	ug/L
n-Butylbenzene	SW8260B	4.2	1.1	2.1	2.4	ug/L

ERH2201-RHMW13(Zone 5) 2112217-014

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH(Gasoline)	8260TPH	1	29	50	50.4	ug/L
TOC	A5310B	1	0.40	2.0	21.6	mg/L
TPH as Diesel	SW8015B	1	0.037	0.10	0.111	mg/L

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2197-OWDFMW01	**Lab Sample ID:**	2112217-001A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 10:35		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	0:07	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	0:07	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	0:07	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	0:07	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2197-OWDFMW01	**Lab Sample ID:**	2112217-001A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 10:35		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	0:07	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:07	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2197-OWDFMW01	**Lab Sample ID:**	2112217-001A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 10:35		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**40.6**		%	12/21/21	0:07	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**29.2**		%	12/21/21	0:07	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**66.8**		%	12/21/21	0:07	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**67.1**		%	12/21/21	0:07	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**97.2**		%	12/21/21	0:07	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**79.0**		%	12/21/21	0:07	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2197-OWDFMW01	**Lab Sample ID:**	2112217-001A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 10:35		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21	9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.130**	x	mg/L	12/21/21	0:40	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	0:40	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**98.6**		%	12/21/21	0:40	SN	462412

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2197-OWDFMW01	**Lab Sample ID:**	2112217-001A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 10:35		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	12/21/21	19:39	sn	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	19:39	sn	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**92.6**		%	12/21/21	19:39	sn	462413

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2197-OWDFMW01	**Lab Sample ID:**	2112217-001B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 10:35		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**24.7**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2197-OWDFMW01	**Lab Sample ID:**	2112217-001C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 10:35		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/17/21	16:16	JZ	462299
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/17/21	16:16	JZ	462299
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/17/21	16:16	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2197-OWDFMW01	**Lab Sample ID:**	2112217-001C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 10:35		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/17/21	16:16	JZ	462299
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	16:16	JZ	462299
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/17/21	16:16	JZ	462299
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/17/21	16:16	JZ	462299
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/17/21	16:16	JZ	462299
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	16:16	JZ	462299
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	16:16	JZ	462299
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**107**		%	12/17/21	16:16	JZ	462299
(S) Toluene-d8	SW8260B		75.1 - 127		**92.9**		%	12/17/21	16:16	JZ	462299
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**94.3**		%	12/17/21	16:16	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2197-OWDFMW01	**Lab Sample ID:**	2112217-001C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 10:35		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137852	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	ND		ug/L	12/17/21	16:16	JZ	462299
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**79.4**		%	12/17/21	16:16	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2186-RHMW06	**Lab Sample ID:**	2112217-002A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 13:10		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	0:36	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	0:36	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	0:36	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	0:36	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2186-RHMW06	**Lab Sample ID:**	2112217-002A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 13:10		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	0:36	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	0:36	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2186-RHMW06	**Lab Sample ID:**	2112217-002A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 13:10		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**33.3**		%	12/21/21	0:36	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**24.6**		%	12/21/21	0:36	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**62.5**		%	12/21/21	0:36	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**66.4**		%	12/21/21	0:36	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**112**		%	12/21/21	0:36	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**76.5**		%	12/21/21	0:36	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2186-RHMW06	**Lab Sample ID:**	2112217-002A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 13:10		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21 9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.441**	x	mg/L	12/21/21	1:03	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	**0.772**		mg/L	12/21/21	1:03	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**96.3**		%	12/21/21	1:03	SN	462412

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2186-RHMW06	**Lab Sample ID:**	2112217-002A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 13:10		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	**0.205**	x	mg/L	12/21/21	20:03	sn	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	**0.464**		mg/L	12/21/21	20:03	sn	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**95.6**		%	12/21/21	20:03	sn	462413

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2186-RHMW06	**Lab Sample ID:**	2112217-002B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 13:10		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**38.8**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2186-RHMW06	**Lab Sample ID:**	2112217-002C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 13:10		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/17/21	16:46	JZ	462299
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/17/21	16:46	JZ	462299
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/17/21	16:46	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2186-RHMW06	**Lab Sample ID:**	2112217-002C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 13:10		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/17/21	16:46	JZ	462299
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	16:46	JZ	462299
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/17/21	16:46	JZ	462299
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/17/21	16:46	JZ	462299
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/17/21	16:46	JZ	462299
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	16:46	JZ	462299
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	16:46	JZ	462299
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**105**		%	12/17/21	16:46	JZ	462299
(S) Toluene-d8	SW8260B		75.1 - 127		**92.6**		%	12/17/21	16:46	JZ	462299
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**97.4**		%	12/17/21	16:46	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2186-RHMW06	**Lab Sample ID:**	2112217-002C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 13:10		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137852	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	ND		ug/L	12/17/21	16:46	JZ	462299
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**74.3**		%	12/17/21	16:46	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2203-RHMW14(ZONE 3)	**Lab Sample ID:**	2112217-003A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 11:15		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	1:05	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	1:05	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	1:05	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	1:05	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2203-RHMW14(ZONE 3)	**Lab Sample ID:**	2112217-003A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 11:15		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	1:05	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:05	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2203-RHMW14(ZONE 3)	**Lab Sample ID:**	2112217-003A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 11:15		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**33.3**		%	12/21/21	1:05	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**23.3**		%	12/21/21	1:05	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**63.4**		%	12/21/21	1:05	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**62.3**		%	12/21/21	1:05	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**96.5**		%	12/21/21	1:05	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**78.2**		%	12/21/21	1:05	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2203-RHMW14(ZONE 3)	**Lab Sample ID:**	2112217-003A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 11:15		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21	9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.142**	x	mg/L	12/21/21	1:26	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	**0.474**		mg/L	12/21/21	1:26	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**93.5**		%	12/21/21	1:26	SN	462412

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2203-RHMW14(ZONE 3)	**Lab Sample ID:**	2112217-003A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 11:15		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	12/21/21	20:26	sn	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	**0.419**		mg/L	12/21/21	20:26	sn	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**69.1**		%	12/21/21	20:26	sn	462413

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2203-RHMW14(ZONE 3)	**Lab Sample ID:**	2112217-003B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 11:15		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**11.9**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2203-RHMW14(ZONE 3)	**Lab Sample ID:**	2112217-003C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 11:15		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/17/21	17:16	JZ	462299
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/17/21	17:16	JZ	462299
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/17/21	17:16	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2203-RHMW14(ZONE 3)	**Lab Sample ID:**	2112217-003C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 11:15		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/17/21	17:16	JZ	462299
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	17:16	JZ	462299
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/17/21	17:16	JZ	462299
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/17/21	17:16	JZ	462299
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/17/21	17:16	JZ	462299
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	17:16	JZ	462299
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	17:16	JZ	462299
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**107**		%	12/17/21	17:16	JZ	462299
(S) Toluene-d8	SW8260B		75.1 - 127		**93.1**		%	12/17/21	17:16	JZ	462299
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**95.4**		%	12/17/21	17:16	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2203-RHMW14(ZONE 3)	**Lab Sample ID:**	2112217-003C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/13/21 / 11:15		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137852	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	ND		ug/L	12/17/21	17:16	JZ	462299
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**84.8**		%	12/17/21	17:16	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2205-RHMW15(ZONE 5A)	**Lab Sample ID:**	2112217-004A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 10:00		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	1:34	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	1:34	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	1:34	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	1:34	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2205-RHMW15(ZONE 5A)	**Lab Sample ID:**	2112217-004A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 10:00		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	1:34	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	1:34	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2205-RHMW15(ZONE 5A)	**Lab Sample ID:**	2112217-004A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 10:00		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**38.9**		%	12/21/21	1:34	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**24.0**		%	12/21/21	1:34	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**75.2**		%	12/21/21	1:34	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**73.2**		%	12/21/21	1:34	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**98.3**		%	12/21/21	1:34	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**78.8**		%	12/21/21	1:34	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2205-RHMW15(ZONE 5A)	**Lab Sample ID:**	2112217-004A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 10:00		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21 9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.106**	x	mg/L	12/21/21	1:49	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	1:49	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**87.9**		%	12/21/21	1:49	SN	462412

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2205-RHMW15(ZONE 5A)	**Lab Sample ID:**	2112217-004A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 10:00		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	12/21/21	20:49	SN	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	20:49	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**86.7**		%	12/21/21	20:49	SN	462413

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2205-RHMW15(ZONE 5A)	**Lab Sample ID:**	2112217-004B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 10:00		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**11.6**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2205-RHMW15(ZONE 5A)	**Lab Sample ID:**	2112217-004C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 10:00		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/17/21	18:45	JZ	462299
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/17/21	18:45	JZ	462299
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/17/21	18:45	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2205-RHMW15(ZONE 5A)	**Lab Sample ID:**	2112217-004C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 10:00		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/17/21	18:45	JZ	462299
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	18:45	JZ	462299
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/17/21	18:45	JZ	462299
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/17/21	18:45	JZ	462299
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/17/21	18:45	JZ	462299
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	18:45	JZ	462299
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	18:45	JZ	462299
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**109**		%	12/17/21	18:45	JZ	462299
(S) Toluene-d8	SW8260B		75.1 - 127		**93.4**		%	12/17/21	18:45	JZ	462299
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**95.5**		%	12/17/21	18:45	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2205-RHMW15(ZONE 5A)	**Lab Sample ID:**	2112217-004C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 10:00		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137852	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	ND		ug/L	12/17/21	18:45	JZ	462299
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**82.5**		%	12/17/21	18:45	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2195-RHWMW16	**Lab Sample ID:**	2112217-005A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 11:55		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	2:03	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	2:03	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	2:03	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	2:03	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2195-RHWMW16	**Lab Sample ID:**	2112217-005A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 11:55		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	2:03	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:03	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2195-RHWMW16	**Lab Sample ID:**	2112217-005A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 11:55		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**55.8**		%	12/21/21	2:03	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**31.9**		%	12/21/21	2:03	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**76.0**		%	12/21/21	2:03	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**72.5**		%	12/21/21	2:03	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**102**		%	12/21/21	2:03	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**78.3**		%	12/21/21	2:03	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2195-RHWMW16	**Lab Sample ID:**	2112217-005A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 11:55		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21 9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.104**	x	mg/L	12/21/21	2:13	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	2:13	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**90.4**		%	12/21/21	2:13	SN	462412

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2195-RHWMW16	**Lab Sample ID:**	2112217-005A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 11:55		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	12/21/21	21:12	SN	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	21:12	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**96.7**		%	12/21/21	21:12	SN	462413

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2195-RHWMW16	**Lab Sample ID:**	2112217-005B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 11:55		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**9.00**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2195-RHWMW16	**Lab Sample ID:**	2112217-005C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 11:55		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/17/21	19:15	JZ	462299
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/17/21	19:15	JZ	462299
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/17/21	19:15	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2195-RHWMW16	**Lab Sample ID:**	2112217-005C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 11:55		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/17/21	19:15	JZ	462299
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	19:15	JZ	462299
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/17/21	19:15	JZ	462299
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/17/21	19:15	JZ	462299
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/17/21	19:15	JZ	462299
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	19:15	JZ	462299
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	19:15	JZ	462299
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**109**		%	12/17/21	19:15	JZ	462299
(S) Toluene-d8	SW8260B		75.1 - 127		**91.4**		%	12/17/21	19:15	JZ	462299
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**97.4**		%	12/17/21	19:15	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2195-RHWMW16	**Lab Sample ID:**	2112217-005C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 11:55		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137852	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	ND		ug/L	12/17/21	19:15	JZ	462299
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**84.4**		%	12/17/21	19:15	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2193-RHMW12A	**Lab Sample ID:**	2112217-006A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 16:10		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	2:32	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	2:32	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	2:32	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	2:32	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2193-RHMW12A	**Lab Sample ID:**	2112217-006A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 16:10		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	2:32	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	2:32	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2193-RHMW12A	**Lab Sample ID:**	2112217-006A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 16:10		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**43.8**		%	12/21/21	2:32	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**24.6**		%	12/21/21	2:32	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**62.5**		%	12/21/21	2:32	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**58.7**		%	12/21/21	2:32	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**90.5**		%	12/21/21	2:32	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**74.3**		%	12/21/21	2:32	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2193-RHMW12A	**Lab Sample ID:**	2112217-006A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 16:10		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21	9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.111**	x	mg/L	12/21/21	2:36	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	2:36	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**102**		%	12/21/21	2:36	SN	462412

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2193-RHMW12A	**Lab Sample ID:**	2112217-006A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 16:10		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	12/21/21	21:36	SN	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	21:36	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**94.5**		%	12/21/21	21:36	SN	462413

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2193-RHMW12A	**Lab Sample ID:**	2112217-006B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 16:10		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**11.1**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2193-RHMW12A	**Lab Sample ID:**	2112217-006C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 16:10		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/17/21	19:44	JZ	462299
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/17/21	19:44	JZ	462299
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/17/21	19:44	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2193-RHMW12A	**Lab Sample ID:**	2112217-006C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 16:10		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/17/21 12:32:00PM
Prep Batch ID:	1137851	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/17/21	19:44	JZ	462299
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/17/21	19:44	JZ	462299
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/17/21	19:44	JZ	462299
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/17/21	19:44	JZ	462299
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/17/21	19:44	JZ	462299
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	19:44	JZ	462299
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/17/21	19:44	JZ	462299
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**106**		%	12/17/21	19:44	JZ	462299
(S) Toluene-d8	SW8260B		75.1 - 127		**97.5**		%	12/17/21	19:44	JZ	462299
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**96.6**		%	12/17/21	19:44	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2193-RHMW12A	**Lab Sample ID:**	2112217-006C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/14/21 / 16:10		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/17/21	12:32:00PM
Prep Batch ID:	1137852	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	ND		ug/L	12/17/21	19:44	JZ	462299
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**80.1**		%	12/17/21	19:44	JZ	462299

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2184-RHMW05	**Lab Sample ID:**	2112217-007A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:35		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	3:01	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	3:01	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	3:01	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	3:01	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2184-RHMW05	**Lab Sample ID:**	2112217-007A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:35		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	3:01	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:01	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2184-RHMW05	**Lab Sample ID:**	2112217-007A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:35		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**52.6**		%	12/21/21	3:01	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**30.3**		%	12/21/21	3:01	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**71.6**		%	12/21/21	3:01	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**70.0**		%	12/21/21	3:01	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**99.7**		%	12/21/21	3:01	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**77.7**		%	12/21/21	3:01	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2184-RHMW05	**Lab Sample ID:**	2112217-007A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:35		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21 9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.106**	x	mg/L	12/21/21	2:59	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	2:59	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**97.7**		%	12/21/21	2:59	SN	462412

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2184-RHMW05	**Lab Sample ID:**	2112217-007A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:35		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	12/21/21	21:59	SN	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	21:59	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**106**		%	12/21/21	21:59	SN	462413

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2184-RHMW05	**Lab Sample ID:**	2112217-007B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:35		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**13.0**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2184-RHMW05	**Lab Sample ID:**	2112217-007C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:35		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/20/21	15:01	BP	462320
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	15:01	BP	462320
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/20/21	15:01	BP	462320
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/20/21	15:01	BP	462320
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	15:01	BP	462320
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/20/21	15:01	BP	462320
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:01	BP	462320
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/20/21	15:01	BP	462320
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	15:01	BP	462320
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/20/21	15:01	BP	462320
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/20/21	15:01	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2184-RHMW05	**Lab Sample ID:**	2112217-007C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:35		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/20/21	15:01	BP	462320
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/20/21	15:01	BP	462320
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	15:01	BP	462320
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/20/21	15:01	BP	462320
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/20/21	15:01	BP	462320
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:01	BP	462320
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	15:01	BP	462320
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/20/21	15:01	BP	462320
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/20/21	15:01	BP	462320
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/20/21	15:01	BP	462320
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	15:01	BP	462320
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/20/21	15:01	BP	462320
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/20/21	15:01	BP	462320
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/20/21	15:01	BP	462320
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/20/21	15:01	BP	462320
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/20/21	15:01	BP	462320
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**117**		%	12/20/21	15:01	BP	462320
(S) Toluene-d8	SW8260B		75.1 - 127		**104**		%	12/20/21	15:01	BP	462320
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**107**		%	12/20/21	15:01	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2184-RHMW05	**Lab Sample ID:**	2112217-007C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:35		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137876	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	ND		ug/L	12/20/21	15:01	BP	462320
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**86.8**		%	12/20/21	15:01	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2178-RHMW01R	**Lab Sample ID:**	2112217-008A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 13:15		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	3:30	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	3:30	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	3:30	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	3:30	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2178-RHMW01R	**Lab Sample ID:**	2112217-008A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 13:15		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	3:30	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	3:30	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2178-RHMW01R	**Lab Sample ID:**	2112217-008A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 13:15		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**48.0**		%	12/21/21	3:30	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**27.1**		%	12/21/21	3:30	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**72.8**		%	12/21/21	3:30	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**70.0**		%	12/21/21	3:30	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**108**		%	12/21/21	3:30	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**78.0**		%	12/21/21	3:30	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2178-RHMW01R	**Lab Sample ID:**	2112217-008A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 13:15		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21 9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.315**	x	mg/L	12/21/21	3:22	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	**0.422**		mg/L	12/21/21	3:22	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**105**		%	12/21/21	3:22	SN	462412

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2178-RHMW01R	**Lab Sample ID:**	2112217-008A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 13:15		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	**0.130**	x	mg/L	12/21/21	22:22	SN	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	22:22	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**105**		%	12/21/21	22:22	SN	462413

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2178-RHMW01R	**Lab Sample ID:**	2112217-008B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 13:15		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**19.6**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2178-RHMW01R	**Lab Sample ID:**	2112217-008C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 13:15		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/21/21 10:45:00AM
Prep Batch ID:	1137889	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/21/21	13:43	BP	462336
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/21/21	13:43	BP	462336
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/21/21	13:43	BP	462336
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/21/21	13:43	BP	462336
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/21/21	13:43	BP	462336
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/21/21	13:43	BP	462336
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	13:43	BP	462336
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/21/21	13:43	BP	462336
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/21/21	13:43	BP	462336
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/21/21	13:43	BP	462336
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/21/21	13:43	BP	462336

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2178-RHMW01R	**Lab Sample ID:**	2112217-008C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 13:15		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/21/21 10:45:00AM
Prep Batch ID:	1137889	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/21/21	13:43	BP	462336
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/21/21	13:43	BP	462336
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/21/21	13:43	BP	462336
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/21/21	13:43	BP	462336
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/21/21	13:43	BP	462336
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	13:43	BP	462336
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/21/21	13:43	BP	462336
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/21/21	13:43	BP	462336
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/21/21	13:43	BP	462336
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/21/21	13:43	BP	462336
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/21/21	13:43	BP	462336
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/21/21	13:43	BP	462336
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/21/21	13:43	BP	462336
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/21/21	13:43	BP	462336
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/21/21	13:43	BP	462336
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/21/21	13:43	BP	462336
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**125**		%	12/21/21	13:43	BP	462336
(S) Toluene-d8	SW8260B		75.1 - 127		**99.0**		%	12/21/21	13:43	BP	462336
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**104**		%	12/21/21	13:43	BP	462336

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2178-RHMW01R	**Lab Sample ID:**	2112217-008C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 13:15		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/21/21 10:45:00AM
Prep Batch ID:	1137890	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	**53.1**	x	ug/L	12/21/21	13:43	BP	462336
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**88.5**		%	12/21/21	13:43	BP	462336

NOTE: x – Does not match pattern of reference Gasoline standard. Reported value due to contribution from non-target heavy hydrocarbons into the C5-C12 gasoline quantitation range.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2180-RHMW02	**Lab Sample ID:**	2112217-009A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 14:30		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	4:00	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:00	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	4:00	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	4:00	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2180-RHMW02	**Lab Sample ID:**	2112217-009A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 14:30		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:00	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:00	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2180-RHMW02	**Lab Sample ID:**	2112217-009A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 14:30		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**43.1**		%	12/21/21	4:00	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**26.1**		%	12/21/21	4:00	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**64.7**		%	12/21/21	4:00	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**56.3**		%	12/21/21	4:00	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**99.0**		%	12/21/21	4:00	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**65.3**		%	12/21/21	4:00	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2180-RHMW02	**Lab Sample ID:**	2112217-009A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 14:30		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21 9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**1.13**	x	mg/L	12/21/21	3:46	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	3:46	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**103**		%	12/21/21	3:46	SN	462412

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range, quantified as diesel (possibly weathered diesel).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2180-RHMW02	**Lab Sample ID:**	2112217-009A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 14:30		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	**0.306**	x	mg/L	12/21/21	22:46	SN	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	22:46	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**114**		%	12/21/21	22:46	SN	462413

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly lighter than diesel quantified as diesel (possibly weathered diesel).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2180-RHMW02	**Lab Sample ID:**	2112217-009B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 14:30		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**44.8**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2180-RHMW02	**Lab Sample ID:**	2112217-009C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 14:30		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/21/21 10:45:00AM
Prep Batch ID:	1137889	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/21/21	14:13	BP	462336
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/21/21	14:13	BP	462336
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/21/21	14:13	BP	462336
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/21/21	14:13	BP	462336
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/21/21	14:13	BP	462336
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/21/21	14:13	BP	462336
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	14:13	BP	462336
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/21/21	14:13	BP	462336
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/21/21	14:13	BP	462336
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/21/21	14:13	BP	462336
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/21/21	14:13	BP	462336

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2180-RHMW02	**Lab Sample ID:**	2112217-009C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 14:30		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/21/21 10:45:00AM
Prep Batch ID:	1137889	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/21/21	14:13	BP	462336
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/21/21	14:13	BP	462336
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/21/21	14:13	BP	462336
Isopropyl Benzene	SW8260B	1	0.22	0.50	**0.61**		ug/L	12/21/21	14:13	BP	462336
n-Propylbenzene	SW8260B	1	0.30	0.50	**0.64**		ug/L	12/21/21	14:13	BP	462336
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/21/21	14:13	BP	462336
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/21/21	14:13	BP	462336
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/21/21	14:13	BP	462336
tert-Butylbenzene	SW8260B	1	0.26	0.50	**0.63**		ug/L	12/21/21	14:13	BP	462336
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/21/21	14:13	BP	462336
sec-Butyl Benzene	SW8260B	1	0.30	0.50	**0.58**		ug/L	12/21/21	14:13	BP	462336
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/21/21	14:13	BP	462336
n-Butylbenzene	SW8260B	1	0.27	0.50	**0.69**		ug/L	12/21/21	14:13	BP	462336
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/21/21	14:13	BP	462336
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/21/21	14:13	BP	462336
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/21/21	14:13	BP	462336
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/21/21	14:13	BP	462336
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/21/21	14:13	BP	462336
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/21/21	14:13	BP	462336
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**167**	S	%	12/21/21	14:13	BP	462336
(S) Toluene-d8	SW8260B		75.1 - 127		**100.**		%	12/21/21	14:13	BP	462336
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**104**		%	12/21/21	14:13	BP	462336

NOTE: S-surrogate outside of control limits (high bias) but all associated target compounds are ND at the PQL.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2180-RHMW02	**Lab Sample ID:**	2112217-009C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 14:30		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/21/21 10:45:00AM
Prep Batch ID:	1137890	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	**165**	x	ug/L	12/21/21	14:13	BP	462336
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**84.7**		%	12/21/21	14:13	BP	462336

NOTE: x – Does not match pattern of reference Gasoline standard. Reported value due to contribution from non-target heavy hydrocarbons into the C5-C12 gasoline quantitation range.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2182-RHMW03	**Lab Sample ID:**	2112217-010A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 15:50		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	4:29	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:29	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	4:29	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	4:29	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2182-RHMW03	**Lab Sample ID:**	2112217-010A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 15:50		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:29	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:29	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2182-RHMW03	**Lab Sample ID:**	2112217-010A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 15:50		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**46.3**		%	12/21/21	4:29	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**27.3**		%	12/21/21	4:29	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**67.1**		%	12/21/21	4:29	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**66.3**		%	12/21/21	4:29	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**106**		%	12/21/21	4:29	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**74.6**		%	12/21/21	4:29	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2182-RHMW03	**Lab Sample ID:**	2112217-010A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 15:50		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21 9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.206**	x	mg/L	12/21/21	4:09	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	**0.663**		mg/L	12/21/21	4:09	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**106**		%	12/21/21	4:09	SN	462412

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2182-RHMW03	**Lab Sample ID:**	2112217-010A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 15:50		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	12/21/21	23:09	SN	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	23:09	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**98.8**		%	12/21/21	23:09	SN	462413

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2182-RHMW03	**Lab Sample ID:**	2112217-010B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 15:50		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**66.9**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2182-RHMW03	**Lab Sample ID:**	2112217-010C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 15:50		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/20/21	15:31	BP	462320
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	15:31	BP	462320
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/20/21	15:31	BP	462320
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/20/21	15:31	BP	462320
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	15:31	BP	462320
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/20/21	15:31	BP	462320
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:31	BP	462320
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/20/21	15:31	BP	462320
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	15:31	BP	462320
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/20/21	15:31	BP	462320
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/20/21	15:31	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2182-RHMW03	**Lab Sample ID:**	2112217-010C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 15:50		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/20/21	15:31	BP	462320
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/20/21	15:31	BP	462320
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	15:31	BP	462320
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/20/21	15:31	BP	462320
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/20/21	15:31	BP	462320
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	15:31	BP	462320
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	15:31	BP	462320
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/20/21	15:31	BP	462320
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/20/21	15:31	BP	462320
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/20/21	15:31	BP	462320
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	15:31	BP	462320
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/20/21	15:31	BP	462320
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/20/21	15:31	BP	462320
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/20/21	15:31	BP	462320
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/20/21	15:31	BP	462320
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/20/21	15:31	BP	462320
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**116**		%	12/20/21	15:31	BP	462320
(S) Toluene-d8	SW8260B		75.1 - 127		**102**		%	12/20/21	15:31	BP	462320
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**103**		%	12/20/21	15:31	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2182-RHMW03	**Lab Sample ID:**	2112217-010C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 15:50		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137876	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	ND		ug/L	12/20/21	15:31	BP	462320
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**91.5**		%	12/20/21	15:31	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2206-RHMW2254-01	**Lab Sample ID:**	2112217-011A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:00		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	4:58	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:58	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	4:58	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	4:58	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2206-RHMW2254-01	**Lab Sample ID:**	2112217-011A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:00		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	4:58	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	4:58	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2206-RHMW2254-01	**Lab Sample ID:**	2112217-011A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:00		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**49.9**		%	12/21/21	4:58	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**29.2**		%	12/21/21	4:58	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**82.7**		%	12/21/21	4:58	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**64.1**		%	12/21/21	4:58	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**101**		%	12/21/21	4:58	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**71.7**		%	12/21/21	4:58	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2206-RHMW2254-01	**Lab Sample ID:**	2112217-011A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:00		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21	9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.536**	x	mg/L	12/21/21	5:42	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	5:42	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**92.3**		%	12/21/21	5:42	SN	462412

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range, quantified as diesel (possibly weathered diesel).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2206-RHMW2254-01	**Lab Sample ID:**	2112217-011A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:00		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	**0.237**	x	mg/L	12/22/21	0:42	SN	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/22/21	0:42	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**98.0**		%	12/22/21	0:42	SN	462413

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly lighter than diesel quantified as diesel (possibly weathered diesel).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2206-RHMW2254-01	**Lab Sample ID:**	2112217-011B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:00		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**19.9**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2206-RHMW2254-01	**Lab Sample ID:**	2112217-011C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:00		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/20/21	16:01	BP	462320
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	16:01	BP	462320
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/20/21	16:01	BP	462320
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/20/21	16:01	BP	462320
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	16:01	BP	462320
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/20/21	16:01	BP	462320
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:01	BP	462320
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/20/21	16:01	BP	462320
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	16:01	BP	462320
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/20/21	16:01	BP	462320
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/20/21	16:01	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2206-RHMW2254-01	**Lab Sample ID:**	2112217-011C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:00		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/20/21	16:01	BP	462320
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/20/21	16:01	BP	462320
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Bromoform	SW8260B	1	0.076	0.50	**0.55**		ug/L	12/20/21	16:01	BP	462320
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	16:01	BP	462320
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/20/21	16:01	BP	462320
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/20/21	16:01	BP	462320
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	**1.2**		ug/L	12/20/21	16:01	BP	462320
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:01	BP	462320
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	16:01	BP	462320
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	**2.5**		ug/L	12/20/21	16:01	BP	462320
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/20/21	16:01	BP	462320
p-Isopropyltoluene	SW8260B	1	0.27	0.50	**0.82**		ug/L	12/20/21	16:01	BP	462320
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/20/21	16:01	BP	462320
n-Butylbenzene	SW8260B	1	0.27	0.50	**1.3**		ug/L	12/20/21	16:01	BP	462320
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	16:01	BP	462320
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/20/21	16:01	BP	462320
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/20/21	16:01	BP	462320
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/20/21	16:01	BP	462320
Naphthalene	SW8260B	1	1.2	2.0	**2.9**		ug/L	12/20/21	16:01	BP	462320
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/20/21	16:01	BP	462320
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**111**		%	12/20/21	16:01	BP	462320
(S) Toluene-d8	SW8260B		75.1 - 127		**101**		%	12/20/21	16:01	BP	462320
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**89.4**		%	12/20/21	16:01	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2206-RHMW2254-01	**Lab Sample ID:**	2112217-011C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:00		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/20/21	10:34:00AM
Prep Batch ID:	1137876	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	**394**	x	ug/L	12/20/21	16:01	BP	462320
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**101**		%	12/20/21	16:01	BP	462320

NOTE: x – Does not match pattern of reference Gasoline standard. Reported value due to contribution from non-target heavy hydrocarbons into the C5-C12 gasoline quantitation range.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2175-RHMW2254-01	**Lab Sample ID:**	2112217-012A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:40		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	5:27	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	5:27	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	5:27	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	5:27	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2175-RHMW2254-01	**Lab Sample ID:**	2112217-012A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:40		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	5:27	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:27	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2175-RHMW2254-01	**Lab Sample ID:**	2112217-012A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:40		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**43.4**		%	12/21/21	5:27	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**24.5**		%	12/21/21	5:27	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**61.1**		%	12/21/21	5:27	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**57.9**		%	12/21/21	5:27	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**97.9**		%	12/21/21	5:27	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**74.2**		%	12/21/21	5:27	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2175-RHMW2254-01	**Lab Sample ID:**	2112217-012A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:40		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21	9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.190**	x	mg/L	12/21/21	6:05	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	6:05	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**98.5**		%	12/21/21	6:05	SN	462412

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range, quantified as diesel (possibly weathered diesel).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2175-RHMW2254-01	**Lab Sample ID:**	2112217-012A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:40		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	12/22/21	1:05	SN	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/22/21	1:05	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**103**		%	12/22/21	1:05	SN	462413

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2175-RHMW2254-01	**Lab Sample ID:**	2112217-012B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:40		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**14.5**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2175-RHMW2254-01	**Lab Sample ID:**	2112217-012C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:40		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/20/21	16:30	BP	462320
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	16:30	BP	462320
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/20/21	16:30	BP	462320
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/20/21	16:30	BP	462320
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	16:30	BP	462320
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/20/21	16:30	BP	462320
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:30	BP	462320
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/20/21	16:30	BP	462320
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	16:30	BP	462320
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/20/21	16:30	BP	462320
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/20/21	16:30	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2175-RHMW2254-01	**Lab Sample ID:**	2112217-012C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:40		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/20/21	16:30	BP	462320
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/20/21	16:30	BP	462320
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Bromoform	SW8260B	1	0.076	0.50	**0.57**		ug/L	12/20/21	16:30	BP	462320
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	16:30	BP	462320
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/20/21	16:30	BP	462320
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/20/21	16:30	BP	462320
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	16:30	BP	462320
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	16:30	BP	462320
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/20/21	16:30	BP	462320
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/20/21	16:30	BP	462320
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/20/21	16:30	BP	462320
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	16:30	BP	462320
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/20/21	16:30	BP	462320
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/20/21	16:30	BP	462320
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/20/21	16:30	BP	462320
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/20/21	16:30	BP	462320
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/20/21	16:30	BP	462320
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**111**		%	12/20/21	16:30	BP	462320
(S) Toluene-d8	SW8260B		75.1 - 127		**102**		%	12/20/21	16:30	BP	462320
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**97.1**		%	12/20/21	16:30	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2175-RHMW2254-01	**Lab Sample ID:**	2112217-012C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 9:40		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/20/21	10:34:00AM
Prep Batch ID:	1137876	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	ND		ug/L	12/20/21	16:30	BP	462320
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**88.3**		%	12/20/21	16:30	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2230-INFILTRATION GW SUMP	**Lab Sample ID:**	2112217-013A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:15		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	5:56	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	5:56	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	5:56	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	5:56	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2230-INFILTRATION GW SUMP	**Lab Sample ID:**	2112217-013A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:15		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	5:56	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	5:56	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2230-INFILTRATION GW SUMP	**Lab Sample ID:**	2112217-013A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:15		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21	9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**42.6**		%	12/21/21	5:56	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**28.2**		%	12/21/21	5:56	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**84.8**		%	12/21/21	5:56	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**54.8**		%	12/21/21	5:56	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**97.6**		%	12/21/21	5:56	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**62.0**		%	12/21/21	5:56	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2230-INFILTRATION GW SUMP	**Lab Sample ID:**	2112217-013A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:15		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21	9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	2	0.074	0.20	**2.19**	x	mg/L	12/21/21	9:34	SN	462412
TPH as Motor Oil	SW8015B	2	0.22	0.80	ND		mg/L	12/21/21	9:34	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**76.4**		%	12/21/21	9:34	SN	462412

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range, quantified as diesel (possibly weathered diesel).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2230-INFILTRATION GW SUMP	**Lab Sample ID:**	2112217-013A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:15		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21	10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	2	0.074	0.20	**1.34**	x	mg/L	12/22/21	1:29	SN	462413
TPH as Motor Oil (SG)	SW8015B	2	0.22	0.80	ND		mg/L	12/22/21	1:29	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**76.0**		%	12/22/21	1:29	SN	462413

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly lighter than diesel quantified as diesel.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2230-INFILTRATION GW SUMP	**Lab Sample ID:**	2112217-013B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:15		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**31.2**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2230-INFILTRATION GW SUMP	**Lab Sample ID:**	2112217-013C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:15		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	4.2	1.1	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Chloromethane	SW8260B	4.2	0.70	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Vinyl Chloride	SW8260B	4.2	0.87	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Bromomethane	SW8260B	4.2	0.89	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Chloroethane	SW8260B	4.2	0.48	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Trichlorofluoromethane	SW8260B	4.2	0.78	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,1-Dichloroethene	SW8260B	4.2	0.60	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Freon 113	SW8260B	4.2	1.4	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Methylene Chloride	SW8260B	4.2	0.55	4.2	ND		ug/L	12/20/21	18:29	BP	462320
trans-1,2-Dichloroethene	SW8260B	4.2	0.68	2.1	ND		ug/L	12/20/21	18:29	BP	462320
MTBE	SW8260B	4.2	0.32	2.1	ND		ug/L	12/20/21	18:29	BP	462320
tert-Butanol	SW8260B	4.2	12	21	ND		ug/L	12/20/21	18:29	BP	462320
DIPE	SW8260B	4.2	0.51	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,1-Dichloroethane	SW8260B	4.2	0.51	2.1	ND		ug/L	12/20/21	18:29	BP	462320
ETBE	SW8260B	4.2	0.27	2.1	ND		ug/L	12/20/21	18:29	BP	462320
cis-1,2-Dichloroethene	SW8260B	4.2	0.63	2.1	ND		ug/L	12/20/21	18:29	BP	462320
2,2-Dichloropropane	SW8260B	4.2	0.39	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Bromochloromethane	SW8260B	4.2	0.63	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Chloroform	SW8260B	4.2	0.51	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Carbon Tetrachloride	SW8260B	4.2	0.66	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,1,1-Trichloroethane	SW8260B	4.2	0.68	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,1-Dichloropropene	SW8260B	4.2	0.78	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Benzene	SW8260B	4.2	0.27	2.1	ND		ug/L	12/20/21	18:29	BP	462320
TAME	SW8260B	4.2	0.30	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,2-Dichloroethane	SW8260B	4.2	0.46	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Trichloroethylene	SW8260B	4.2	0.61	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Dibromomethane	SW8260B	4.2	0.45	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,2-Dichloropropane	SW8260B	4.2	0.37	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Bromodichloromethane	SW8260B	4.2	0.32	2.1	ND		ug/L	12/20/21	18:29	BP	462320
cis-1,3-Dichloropropene	SW8260B	4.2	0.33	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Toluene	SW8260B	4.2	0.60	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Tetrachloroethylene	SW8260B	4.2	1.00	2.1	ND		ug/L	12/20/21	18:29	BP	462320
trans-1,3-Dichloropropene	SW8260B	4.2	0.91	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,1,2-Trichloroethane	SW8260B	4.2	0.32	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Dibromochloromethane	SW8260B	4.2	0.76	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,3-Dichloropropane	SW8260B	4.2	0.91	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,2-Dibromoethane	SW8260B	4.2	0.33	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Chlorobenzene	SW8260B	4.2	0.68	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Ethylbenzene	SW8260B	4.2	0.82	2.1	ND		ug/L	12/20/21	18:29	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2230-INFILTRATION GW SUMP	**Lab Sample ID:**	2112217-013C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:15		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	4.2	0.37	2.1	ND		ug/L	12/20/21	18:29	BP	462320
m,p-Xylene	SW8260B	4.2	1.7	4.2	ND		ug/L	12/20/21	18:29	BP	462320
o-Xylene	SW8260B	4.2	0.65	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Styrene	SW8260B	4.2	0.46	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Bromoform	SW8260B	4.2	0.32	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Isopropyl Benzene	SW8260B	4.2	0.91	2.1	ND		ug/L	12/20/21	18:29	BP	462320
n-Propylbenzene	SW8260B	4.2	1.2	2.1	ND		ug/L	12/20/21	18:29	BP	462320
Bromobenzene	SW8260B	4.2	0.63	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,1,2,2-Tetrachloroethane	SW8260B	4.2	0.33	2.1	ND		ug/L	12/20/21	18:29	BP	462320
2-Chlorotoluene	SW8260B	4.2	1.1	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,3,5-Trimethylbenzene	SW8260B	4.2	1.0	2.1	**2.3**		ug/L	12/20/21	18:29	BP	462320
1,2,3-Trichloropropane	SW8260B	4.2	0.61	2.1	ND		ug/L	12/20/21	18:29	BP	462320
4-Chlorotoluene	SW8260B	4.2	0.90	2.1	ND		ug/L	12/20/21	18:29	BP	462320
tert-Butylbenzene	SW8260B	4.2	1.1	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,2,4-Trimethylbenzene	SW8260B	4.2	0.97	2.1	**3.2**		ug/L	12/20/21	18:29	BP	462320
sec-Butyl Benzene	SW8260B	4.2	1.2	2.1	ND		ug/L	12/20/21	18:29	BP	462320
p-Isopropyltoluene	SW8260B	4.2	1.1	2.1	**2.3**		ug/L	12/20/21	18:29	BP	462320
1,3-Dichlorobenzene	SW8260B	4.2	0.70	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,4-Dichlorobenzene	SW8260B	4.2	0.74	2.1	ND		ug/L	12/20/21	18:29	BP	462320
n-Butylbenzene	SW8260B	4.2	1.1	2.1	**2.4**		ug/L	12/20/21	18:29	BP	462320
1,2-Dichlorobenzene	SW8260B	4.2	0.67	2.1	ND		ug/L	12/20/21	18:29	BP	462320
1,2-Dibromo-3-Chloropropane	SW8260B	4.2	3.2	8.4	ND		ug/L	12/20/21	18:29	BP	462320
Hexachlorobutadiene	SW8260B	4.2	2.6	8.4	ND		ug/L	12/20/21	18:29	BP	462320
1,2,4-Trichlorobenzene	SW8260B	4.2	3.9	8.4	ND		ug/L	12/20/21	18:29	BP	462320
Naphthalene	SW8260B	4.2	5.1	8.4	ND		ug/L	12/20/21	18:29	BP	462320
1,2,3-Trichlorobenzene	SW8260B	4.2	5.1	8.4	ND		ug/L	12/20/21	18:29	BP	462320
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**113**		%	12/20/21	18:29	BP	462320
(S) Toluene-d8	SW8260B		75.1 - 127		**101**		%	12/20/21	18:29	BP	462320
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**93.5**		%	12/20/21	18:29	BP	462320

NOTE: Due to the matrix nature (foaming), sample was analyzed with appropriate dilution.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2230-INFILTRATION GW SUMP	**Lab Sample ID:**	2112217-013C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:15		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/20/21	10:34:00AM
Prep Batch ID:	1137876	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	4.2	120	210	**626**	x	ug/L	12/20/21	18:29	BP	462320
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**87.6**		%	12/20/21	18:29	BP	462320

NOTE: x – Does not match pattern of reference Gasoline standard. Reported value due to contribution from non-target heavy hydrocarbons into the C5-C12 gasoline quantitation range.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2201-RHMW13(Zone 5)	**Lab Sample ID:**	2112217-014A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:40		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Pyridine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
N-Nitrosdimethylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Aniline	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Phenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Bis(2-chloroethyl) ether	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2-Chlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
1,3-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
1,4-Dichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Benzyl Alcohol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
1,2-Dichlorobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2-Methylphenol (o-Cresol)	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Bis(2-chloroisopropyl)ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
3-/4-Methylphenol (p-/m-Cresol)	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
N-nitroso-di-n-propylamine	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Hexachloroethane	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Nitrobenzene	SW8270	1	0.900	18	ND		ug/L	12/21/21	6:25	TA	462366
Isophorone	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2-Nitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2,4-Dimethylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Benzoic Acid	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Bis(2-Chloroethoxy)methane	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2,4-Dichlorophenol	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	6:25	TA	462366
1,2,4-Trichlorobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2,6-Dichlorophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Naphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
4-Chloroaniline	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Hexachloro-1,3-butadiene	SW8270	1	0.450	18	ND		ug/L	12/21/21	6:25	TA	462366
4-Chloro-3-methylphenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2-Methylnaphthalene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
1-Methylnaphthalene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Hexachlorocyclopentadiene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2,4,6-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2,4,5-Trichlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2-Chloronaphthalene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
2-Nitroaniline	SW8270	1	0.900	9.0	ND		ug/L	12/21/21	6:25	TA	462366
1,4-Dinitrobenzene	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Dimethyl phthalate	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
1,3-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Acenaphthylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2201-RHMW13(Zone 5)	**Lab Sample ID:**	2112217-014A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:40		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
2,6-Dinitrotoluene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
1,2-Dinitrobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
3-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Acenaphthene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2,4-Dinitrophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
4-Nitrophenol	SW8270	1	0.900	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Dibenzofuran	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
2,4-Dinitrotoluene	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2,3,5,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
2,3,4,6-Tetrachlorophenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Diethylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Fluorene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
4-Chlorophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
4-Nitroaniline	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
4,6-Dinitro-2-methylphenol	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Diphenylamine	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Azobenzene	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
4-Bromophenyl phenyl ether	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Hexachlorobenzene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Pentachlorophenol	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Phenanthrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Carbazole	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Di-n-butylphthalate	SW8270	1	0.450	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Benzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Benzyl butyl phthalate	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Benz[a]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
3,3-Dichlorobenzidine	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Chrysene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Bis(2-Ethylhexyl)phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Di-n-octyl phthalate	SW8270	1	0.180	3.6	ND		ug/L	12/21/21	6:25	TA	462366
Benzo[b]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Benzo[k]fluoranthene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Benzo[a]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Indeno[1,2,3-cd]pyrene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Dibenz[a,h]anthracene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366
Benzo[g,h,i]perylene	SW8270	1	0.180	0.54	ND		ug/L	12/21/21	6:25	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2201-RHMW13(Zone 5)	**Lab Sample ID:**	2112217-014A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:40		
SDG:			

Prep Method:	3510_BNASIM	**Prep Batch Date/Time:**	12/20/21 9:50:00PM
Prep Batch ID:	1137837	**Prep Analyst:**	NDUM

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
			Acceptance Limits								
2-Fluorophenol (S)	SW8270		15 - 105		**38.9**		%	12/21/21	6:25	TA	462366
Phenol-d6 (S)	SW8270		15 - 100		**21.7**		%	12/21/21	6:25	TA	462366
Nitrobenzene-d5 (S)	SW8270		30 - 100		**56.0**		%	12/21/21	6:25	TA	462366
2-Fluorobiphenyl (S)	SW8270		30 - 105		**53.5**		%	12/21/21	6:25	TA	462366
2,4,6-Tribromophenol (S)	SW8270		15 - 125		**88.6**		%	12/21/21	6:25	TA	462366
p-Terphenyl-d14 (S)	SW8270		30 - 125		**71.7**		%	12/21/21	6:25	TA	462366

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2201-RHMW13(Zone 5)	**Lab Sample ID:**	2112217-014A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:40		
SDG:			

Prep Method:	3510_TPH	**Prep Batch Date/Time:**	12/20/21	9:18:00AM
Prep Batch ID:	1137829	**Prep Analyst:**	AKIZ	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.037	0.10	**0.111**	x	mg/L	12/21/21	6:51	SN	462412
TPH as Motor Oil	SW8015B	1	0.11	0.40	ND		mg/L	12/21/21	6:51	SN	462412
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		**95.8**		%	12/21/21	6:51	SN	462412

NOTE: x- Diesel result due to unknown organics and presence of discrete peaks within diesel quantified range

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2201-RHMW13(Zone 5)	**Lab Sample ID:**	2112217-014A
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:40		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	12/20/21 10:24:00AM
Prep Batch ID:	1137831	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	12/22/21	1:52	SN	462413
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	12/22/21	1:52	SN	462413
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**99.0**		%	12/22/21	1:52	SN	462413

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2201-RHMW13(Zone 5)	**Lab Sample ID:**	2112217-014B
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:40		
SDG:			

Prep Method:	TOC-W-P	**Prep Batch Date/Time:**	12/23/21	11:00:00AM
Prep Batch ID:	1138001	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TOC	A5310B	1	0.40	2.0	**21.6**		mg/L	12/23/21	12:27	BJAY	462450

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2201-RHMW13(Zone 5)	**Lab Sample ID:**	2112217-014C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:40		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/20/21	17:00	BP	462320
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	17:00	BP	462320
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/20/21	17:00	BP	462320
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	12/20/21	17:00	BP	462320
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	17:00	BP	462320
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/20/21	17:00	BP	462320
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	17:00	BP	462320
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	12/20/21	17:00	BP	462320
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	17:00	BP	462320
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/20/21	17:00	BP	462320
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	12/20/21	17:00	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2201-RHMW13(Zone 5)	**Lab Sample ID:**	2112217-014C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:40		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	12/20/21 10:34:00AM
Prep Batch ID:	1137875	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/20/21	17:00	BP	462320
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	12/20/21	17:00	BP	462320
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	17:00	BP	462320
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/20/21	17:00	BP	462320
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/20/21	17:00	BP	462320
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/20/21	17:00	BP	462320
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/20/21	17:00	BP	462320
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/20/21	17:00	BP	462320
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/20/21	17:00	BP	462320
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/20/21	17:00	BP	462320
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/20/21	17:00	BP	462320
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/20/21	17:00	BP	462320
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/20/21	17:00	BP	462320
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/20/21	17:00	BP	462320
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/20/21	17:00	BP	462320
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/20/21	17:00	BP	462320
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**114**		%	12/20/21	17:00	BP	462320
(S) Toluene-d8	SW8260B		75.1 - 127		**99.4**		%	12/20/21	17:00	BP	462320
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**102**		%	12/20/21	17:00	BP	462320

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Yvonne Parry
Tetra Tech Inc (HI)

Date/Time Received: 12/17/21, 1:00 pm
Date Reported: 12/27/21

Client Sample ID:	ERH2201-RHMW13(Zone 5)	**Lab Sample ID:**	2112217-014C
Project Name/Location:	HDOH Red Hill	**Sample Matrix:**	Water
Project Number:	103S518817512		
Date/Time Sampled:	12/15/21 / 11:40		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	12/20/21	10:34:00AM
Prep Batch ID:	1137876	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	**50.4**		ug/L	12/20/21	17:00	BP	462320
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**106**		%	12/20/21	17:00	BP	462320

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2112217	**Prep Method:**	3510_TPH	**Prep Date:**	12/20/21	**Prep Batch:**	1137829
Matrix:	Water	**Analytical Method:**	SW8015B	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462412
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.037	0.10	ND	
TPH as Motor Oil	0.11	0.40	ND	
Pentacosane (S)			92.4	

Work Order:	2112217	**Prep Method:**	3510_TPH SG	**Prep Date:**	12/20/21	**Prep Batch:**	1137831
Matrix:	Water	**Analytical Method:**	SW8015B	**Analyzed Date:**	12/21/2021	**Analytical Batch:**	462413
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.037	0.10	ND	
TPH as Motor Oil (SG)	0.11	0.40	0.122	
Pentacosane (S)			97.1	

Work Order:	2112217	**Prep Method:**	3510_BNASIM	**Prep Date:**	12/20/21	**Prep Batch:**	1137837
Matrix:	Water	**Analytical Method:**	SW8270	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462366
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Pyridine	0.45	3.6	ND	
N-Nitrosdimethylamine	0.45	3.6	ND	
Aniline	0.90	3.6	ND	
Phenol	0.45	3.6	ND	
Bis(2-chloroethyl) ether	0.90	3.6	ND	
2-Chlorophenol	0.45	3.6	ND	
1,3-Dichlorobenzene	0.45	3.6	ND	
1,4-Dichlorobenzene	0.45	3.6	ND	
Benzyl Alcohol	0.90	3.6	ND	
1,2-Dichlorobenzene	0.90	3.6	ND	
2-Methylphenol (o-Cresol)	0.90	3.6	ND	
Bis(2-chloroisopropyl)ether	0.45	3.6	ND	
3-/4-Methylphenol (p-/m-Cresol)	0.45	3.6	ND	
N-nitroso-di-n-propylamine	0.90	3.6	ND	
Hexachloroethane	0.45	3.6	ND	
Nitrobenzene	0.90	18	ND	
Isophorone	0.90	3.6	ND	
2-Nitrophenol	0.45	3.6	ND	
2,4-Dimethylphenol	0.90	3.6	ND	
Benzoic Acid	0.45	3.6	ND	
Bis(2-Chloroethoxy)methane	0.90	3.6	ND	
2,4-Dichlorophenol	0.18	3.6	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2112217	**Prep Method:**	3510_BNASIM	**Prep Date:**	12/20/21	**Prep Batch:**	1137837
Matrix:	Water	**Analytical Method:**	SW8270	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462366
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
1,2,4-Trichlorobenzene	0.45	3.6	ND	
2,6-Dichlorophenol	0.90	3.6	ND	
Naphthalene	0.18	0.54	ND	
4-Chloroaniline	0.18	3.6	ND	
Hexachloro-1,3-butadiene	0.45	18	ND	
4-Chloro-3-methylphenol	0.90	3.6	ND	
2-Methylnaphthalene	0.90	3.6	ND	
1-Methylnaphthalene	0.45	3.6	ND	
Hexachlorocyclopentadiene	0.45	3.6	ND	
2,4,6-Trichlorophenol	0.45	3.6	ND	
2,4,5-Trichlorophenol	0.45	3.6	ND	
2-Chloronaphthalene	0.18	0.54	ND	
2-Nitroaniline	0.90	9.0	ND	
1,4-Dinitrobenzene	0.90	3.6	ND	
Dimethyl phthalate	0.90	3.6	ND	
1,3-Dinitrobenzene	0.45	3.6	ND	
Acenaphthylene	0.18	0.54	ND	
2,6-Dinitrotoluene	0.45	3.6	ND	
1,2-Dinitrobenzene	0.45	3.6	ND	
3-Nitroaniline	0.45	3.6	ND	
Acenaphthene	0.45	3.6	ND	
2,4-Dinitrophenol	0.45	3.6	ND	
4-Nitrophenol	0.90	3.6	ND	
Dibenzofuran	0.18	0.54	ND	
2,4-Dinitrotoluene	0.18	3.6	ND	
2,3,5,6-Tetrachlorophenol	0.45	3.6	ND	
2,3,4,6-Tetrachlorophenol	0.45	3.6	ND	
Diethylphthalate	0.45	3.6	ND	
Fluorene	0.45	3.6	ND	
4-Chlorophenyl phenyl ether	0.45	3.6	ND	
4-Nitroaniline	0.45	3.6	ND	
4,6-Dinitro-2-methylphenol	0.45	3.6	ND	
Diphenylamine	0.45	3.6	ND	
Azobenzene	0.45	3.6	ND	
4-Bromophenyl phenyl ether	0.45	3.6	ND	
Hexachlorobenzene	0.18	0.54	ND	
Pentachlorophenol	0.18	0.54	ND	
Phenanthrene	0.18	0.54	ND	
Anthracene	0.18	0.54	ND	
Carbazole	0.18	0.54	ND	
Di-n-butylphthalate	0.45	3.6	ND	
Fluoranthene	0.18	0.54	ND	
Benzidine	0.18	0.54	ND	
Pyrene	0.18	0.54	ND	
Benzyl butyl phthalate	0.18	0.54	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2112217	**Prep Method:**	3510_BNASIM	**Prep Date:**	12/20/21	**Prep Batch:**	1137837
Matrix:	Water	**Analytical Method:**	SW8270	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462366
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Benz[a]anthracene	0.18	0.54	ND		
3,3-Dichlorobenzidine	0.18	0.54	ND		
Chrysene	0.18	0.54	ND		
Bis(2-Ethylhexyl)phthalate	0.18	3.6	ND		
Di-n-octyl phthalate	0.18	3.6	ND		
Benzo[b]fluoranthene	0.18	0.54	ND		
Benzo[k]fluoranthene	0.18	0.54	ND		
Benzo[a]pyrene	0.18	0.54	ND		
Indeno[1,2,3-cd]pyrene	0.18	0.54	ND		
Dibenz[a,h]anthracene	0.18	0.54	ND		
Benzo[g,h,i]perylene	0.18	0.54	ND		
2-Fluorophenol (S)			80.0		
Phenol-d6 (S)			75.0		
Nitrobenzene-d5 (S)			71.9		
2-Fluorobiphenyl (S)			74.6		
2,4,6-Tribromophenol (S)			55.8		
p-Terphenyl-d14 (S)			81.0		

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2112217	**Prep Method:**	5030VOC	**Prep Date:**	12/17/21	**Prep Batch:**	1137851
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/17/2021	**Analytical Batch:**	462299
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.26	0.50	ND	
Chloromethane	0.17	0.50	ND	
Vinyl Chloride	0.21	0.50	ND	
Bromomethane	0.21	0.50	ND	
Chloroethane	0.11	0.50	ND	
Trichlorofluoromethane	0.19	0.50	ND	
1,1-Dichloroethene	0.14	0.50	ND	
Freon 113	0.34	0.50	ND	
Methylene Chloride	0.13	1.0	ND	
trans-1,2-Dichloroethene	0.16	0.50	ND	
MTBE	0.077	0.50	ND	
tert-Butanol	2.9	5.0	ND	
DIPE	0.12	0.50	ND	
1,1-Dichloroethane	0.12	0.50	ND	
ETBE	0.064	0.50	ND	
cis-1,2-Dichloroethene	0.15	0.50	ND	
2,2-Dichloropropane	0.094	0.50	ND	
Bromochloromethane	0.15	0.50	ND	
Chloroform	0.12	0.50	ND	
Carbon Tetrachloride	0.16	0.50	ND	
1,1,1-Trichloroethane	0.16	0.50	ND	
1,1-Dichloropropene	0.19	0.50	ND	
Benzene	0.065	0.50	ND	
TAME	0.072	0.50	ND	
1,2-Dichloroethane	0.11	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
Dibromomethane	0.11	0.50	ND	
1,2-Dichloropropane	0.089	0.50	ND	
Bromodichloromethane	0.076	0.50	ND	
cis-1,3-Dichloropropene	0.078	0.50	ND	
Toluene	0.14	0.50	ND	
Tetrachloroethylene	0.24	0.50	ND	
trans-1,3-Dichloropropene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.076	0.50	ND	
Dibromochloromethane	0.18	0.50	ND	
1,3-Dichloropropane	0.22	0.50	ND	
1,2-Dibromoethane	0.079	0.50	ND	
Chlorobenzene	0.16	0.50	ND	
Ethylbenzene	0.20	0.50	ND	
1,1,1,2-Tetrachloroethane	0.087	0.50	ND	
m,p-Xylene	0.39	1.0	ND	
o-Xylene	0.15	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.076	0.50	ND	
Isopropyl Benzene	0.22	0.50	0.26	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2112217	**Prep Method:**	5030VOC	**Prep Date:**	12/17/21	**Prep Batch:**	1137851
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/17/2021	**Analytical Batch:**	462299
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
n-Propylbenzene	0.30	0.50	ND	
Bromobenzene	0.15	0.50	ND	
1,1,2,2-Tetrachloroethane	0.079	0.50	ND	
2-Chlorotoluene	0.25	0.50	ND	
1,3,5-Trimethylbenzene	0.24	0.50	0.28	
1,2,3-Trichloropropane	0.15	0.50	ND	
4-Chlorotoluene	0.22	0.50	ND	
tert-Butylbenzene	0.26	0.50	ND	
1,2,4-Trimethylbenzene	0.23	0.50	0.29	
sec-Butyl Benzene	0.30	0.50	ND	
p-Isopropyltoluene	0.27	0.50	0.28	
1,3-Dichlorobenzene	0.17	0.50	ND	
1,4-Dichlorobenzene	0.18	0.50	ND	
n-Butylbenzene	0.27	0.50	0.27	
1,2-Dichlorobenzene	0.16	0.50	ND	
1,2-Dibromo-3-Chloropropane	0.76	2.0	ND	
Hexachlorobutadiene	0.62	2.0	ND	
1,2,4-Trichlorobenzene	0.93	2.0	ND	
Naphthalene	1.2	2.0	ND	
1,2,3-Trichlorobenzene	1.2	2.0	ND	
(S) Dibromofluoromethane			102	
(S) Toluene-d8			94.9	
(S) 4-Bromofluorobenzene			99.4	

Work Order:	2112217	**Prep Method:**	5030GRO	**Prep Date:**	12/17/21	**Prep Batch:**	1137852
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/17/2021	**Analytical Batch:**	462299
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	29	50	32	
(S) 4-Bromofluorobenzene			85.9	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2112217	**Prep Method:**	5030VOC	**Prep Date:**	12/20/21	**Prep Batch:**	1137875
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462320
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.26	0.50	ND	
Chloromethane	0.17	0.50	ND	
Vinyl Chloride	0.21	0.50	ND	
Bromomethane	0.21	0.50	ND	
Chloroethane	0.11	0.50	ND	
Trichlorofluoromethane	0.19	0.50	ND	
1,1-Dichloroethene	0.14	0.50	ND	
Freon 113	0.34	0.50	ND	
Methylene Chloride	0.13	1.0	ND	
trans-1,2-Dichloroethene	0.16	0.50	ND	
MTBE	0.077	0.50	ND	
tert-Butanol	2.9	5.0	ND	
DIPE	0.12	0.50	ND	
1,1-Dichloroethane	0.12	0.50	ND	
ETBE	0.064	0.50	ND	
cis-1,2-Dichloroethene	0.15	0.50	ND	
2,2-Dichloropropane	0.094	0.50	ND	
Bromochloromethane	0.15	0.50	ND	
Chloroform	0.12	0.50	ND	
Carbon Tetrachloride	0.16	0.50	ND	
1,1,1-Trichloroethane	0.16	0.50	ND	
1,1-Dichloropropene	0.19	0.50	ND	
Benzene	0.065	0.50	ND	
TAME	0.072	0.50	ND	
1,2-Dichloroethane	0.11	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
Dibromomethane	0.11	0.50	ND	
1,2-Dichloropropane	0.089	0.50	ND	
Bromodichloromethane	0.076	0.50	ND	
cis-1,3-Dichloropropene	0.078	0.50	ND	
Toluene	0.14	0.50	ND	
Tetrachloroethylene	0.24	0.50	ND	
trans-1,3-Dichloropropene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.076	0.50	ND	
Dibromochloromethane	0.18	0.50	ND	
1,3-Dichloropropane	0.22	0.50	ND	
1,2-Dibromoethane	0.079	0.50	ND	
Chlorobenzene	0.16	0.50	ND	
Ethylbenzene	0.20	0.50	ND	
1,1,1,2-Tetrachloroethane	0.087	0.50	ND	
m,p-Xylene	0.39	1.0	ND	
o-Xylene	0.15	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.076	0.50	ND	
Isopropyl Benzene	0.22	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2112217	**Prep Method:**	5030VOC	**Prep Date:**	12/20/21	**Prep Batch:**	1137875
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462320
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
n-Propylbenzene	0.30	0.50	ND	
Bromobenzene	0.15	0.50	ND	
1,1,2,2-Tetrachloroethane	0.079	0.50	ND	
2-Chlorotoluene	0.25	0.50	ND	
1,3,5-Trimethylbenzene	0.24	0.50	ND	
1,2,3-Trichloropropane	0.15	0.50	ND	
4-Chlorotoluene	0.22	0.50	ND	
tert-Butylbenzene	0.26	0.50	ND	
1,2,4-Trimethylbenzene	0.23	0.50	ND	
sec-Butyl Benzene	0.30	0.50	ND	
p-Isopropyltoluene	0.27	0.50	ND	
1,3-Dichlorobenzene	0.17	0.50	ND	
1,4-Dichlorobenzene	0.18	0.50	ND	
n-Butylbenzene	0.27	0.50	ND	
1,2-Dichlorobenzene	0.16	0.50	ND	
1,2-Dibromo-3-Chloropropane	0.76	2.0	ND	
Hexachlorobutadiene	0.62	2.0	ND	
1,2,4-Trichlorobenzene	0.93	2.0	ND	
Naphthalene	1.2	2.0	ND	
1,2,3-Trichlorobenzene	1.2	2.0	ND	
(S) Dibromofluoromethane			105	
(S) Toluene-d8			92.9	
(S) 4-Bromofluorobenzene			96.4	

Work Order:	2112217	**Prep Method:**	5030GRO	**Prep Date:**	12/20/21	**Prep Batch:**	1137876
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462320
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	29	50	30	
(S) 4-Bromofluorobenzene			80.6	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2112217	**Prep Method:**	5030VOC	**Prep Date:**	12/21/21	**Prep Batch:**	1137889
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/21/2021	**Analytical Batch:**	462336
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.26	0.50	ND	
Chloromethane	0.17	0.50	ND	
Vinyl Chloride	0.21	0.50	ND	
Bromomethane	0.21	0.50	ND	
Chloroethane	0.11	0.50	ND	
Trichlorofluoromethane	0.19	0.50	ND	
1,1-Dichloroethene	0.14	0.50	ND	
Freon 113	0.34	0.50	ND	
Methylene Chloride	0.13	1.0	ND	
trans-1,2-Dichloroethene	0.16	0.50	ND	
MTBE	0.077	0.50	ND	
tert-Butanol	2.9	5.0	ND	
DIPE	0.12	0.50	ND	
1,1-Dichloroethane	0.12	0.50	ND	
ETBE	0.064	0.50	ND	
cis-1,2-Dichloroethene	0.15	0.50	ND	
2,2-Dichloropropane	0.094	0.50	ND	
Bromochloromethane	0.15	0.50	ND	
Chloroform	0.12	0.50	ND	
Carbon Tetrachloride	0.16	0.50	ND	
1,1,1-Trichloroethane	0.16	0.50	ND	
1,1-Dichloropropene	0.19	0.50	ND	
Benzene	0.065	0.50	ND	
TAME	0.072	0.50	ND	
1,2-Dichloroethane	0.11	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
Dibromomethane	0.11	0.50	ND	
1,2-Dichloropropane	0.089	0.50	ND	
Bromodichloromethane	0.076	0.50	ND	
cis-1,3-Dichloropropene	0.078	0.50	ND	
Toluene	0.14	0.50	ND	
Tetrachloroethylene	0.24	0.50	ND	
trans-1,3-Dichloropropene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.076	0.50	ND	
Dibromochloromethane	0.18	0.50	ND	
1,3-Dichloropropane	0.22	0.50	ND	
1,2-Dibromoethane	0.079	0.50	ND	
Chlorobenzene	0.16	0.50	ND	
Ethylbenzene	0.20	0.50	ND	
1,1,1,2-Tetrachloroethane	0.087	0.50	ND	
m,p-Xylene	0.39	1.0	ND	
o-Xylene	0.15	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.076	0.50	ND	
Isopropyl Benzene	0.22	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2112217	**Prep Method:**	5030VOC	**Prep Date:**	12/21/21	**Prep Batch:**	1137889
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/21/2021	**Analytical Batch:**	462336
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
n-Propylbenzene	0.30	0.50	ND	
Bromobenzene	0.15	0.50	ND	
1,1,2,2-Tetrachloroethane	0.079	0.50	ND	
2-Chlorotoluene	0.25	0.50	ND	
1,3,5-Trimethylbenzene	0.24	0.50	ND	
1,2,3-Trichloropropane	0.15	0.50	ND	
4-Chlorotoluene	0.22	0.50	ND	
tert-Butylbenzene	0.26	0.50	ND	
1,2,4-Trimethylbenzene	0.23	0.50	ND	
sec-Butyl Benzene	0.30	0.50	ND	
p-Isopropyltoluene	0.27	0.50	ND	
1,3-Dichlorobenzene	0.17	0.50	ND	
1,4-Dichlorobenzene	0.18	0.50	ND	
n-Butylbenzene	0.27	0.50	0.27	
1,2-Dichlorobenzene	0.16	0.50	ND	
1,2-Dibromo-3-Chloropropane	0.76	2.0	ND	
Hexachlorobutadiene	0.62	2.0	ND	
1,2,4-Trichlorobenzene	0.93	2.0	ND	
Naphthalene	1.2	2.0	ND	
1,2,3-Trichlorobenzene	1.2	2.0	ND	
(S) Dibromofluoromethane			111	
(S) Toluene-d8			98.7	
(S) 4-Bromofluorobenzene			104	

Work Order:	2112217	**Prep Method:**	5030GRO	**Prep Date:**	12/21/21	**Prep Batch:**	1137890
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/21/2021	**Analytical Batch:**	462336
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	29	50	33	
(S) 4-Bromofluorobenzene			90.0	

Work Order:	2112217	**Prep Method:**	TOC-W-P	**Prep Date:**	12/23/21	**Prep Batch:**	1138001
Matrix:	Water	**Analytical Method:**	A5310B	**Analyzed Date:**	12/23/2021	**Analytical Batch:**	462450
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TOC	0.40	2.0	ND	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2112217	**Prep Method:**	3510_TPH	**Prep Date:**	12/20/21	**Prep Batch:**	1137829
Matrix:	Water	**Analytical Method:**	SW8015B	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462412
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	0.037	0.10	ND	1.0	80.6	91.5	12.7	52 - 115	30	
Pentacosane (S)				200	101	104		59 - 129		

Work Order:	2112217	**Prep Method:**	3510_TPH SG	**Prep Date:**	12/20/21	**Prep Batch:**	1137831
Matrix:	Water	**Analytical Method:**	SW8015B	**Analyzed Date:**	12/21/2021	**Analytical Batch:**	462413
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 (SG)	0.037	0.10	ND	1.0	67.0	76.8	13.6	42 - 115	30	
TPH as Motor Oil (SG)			0.122	200				40 - 129		

Work Order:	2112217	**Prep Method:**	3510_BNASIM	**Prep Date:**	12/20/21	**Prep Batch:**	1137837
Matrix:	Water	**Analytical Method:**	SW8270	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462366
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Phenol	0.45	3.6	ND	2.000	24.3	21.4	12.7	15 - 95	30	
2-Chlorophenol	0.45	3.6	ND	2.000	53.4	50.0	6.76	15 - 105	30	
1,4-Dichlorobenzene	0.45	3.6	ND	2.000	58.3	60.3	3.36	35 - 105	30	
N-nitroso-di-n-propylamine	0.90	3.6	ND	2.000	78.7	80.3	2.52	40 - 115	30	
1,2,4-Trichlorobenzene	0.45	3.6	ND	2.000	57.9	60.4	4.22	45 - 110	30	
4-Chloro-3-methylphenol	0.90	3.6	ND	2.000	61.7	60.1	2.47	15 - 110	30	
Acenaphthene	0.18	0.54	ND	2.000	65.1	67.5	12.7	45 - 110	30	
4-Nitrophenol	0.90	3.6	ND	2.000	56.8	55.2	3.57	15 - 140	30	
2,4-Dinitrotoluene	0.18	0.54	ND	2.000	68.4	72.2	4.98	40 - 115	30	
Pentachlorophenol	0.18	0.54	ND	2.000	75.1	76.6	1.98	15 - 120	30	
Pyrene	0.18	0.54	ND	2.000	72.8	73.9	1.36	45 - 125	30	
2-Fluorophenol (S)				1111	36.5	33.0		15 - 105		
Phenol-d6 (S)				1111	23.3	19.7		15 - 100		
Nitrobenzene-d5 (S)				555.6	66.2	69.5		30 - 100		
2-Fluorobiphenyl (S)				555.6	67.4	70.0		30 - 105		
2,4,6-Tribromophenol (S)				1111	55.5	54.6		15 - 125		
p-Terphenyl-d14 (S)				555.6	79.0	77.1		30 - 125		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2112217	**Prep Method:**	5030VOC	**Prep Date:**	12/17/21	**Prep Batch:**	1137851
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/17/2021	**Analytical Batch:**	462299
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.9	96.3	96.8	0.580	61.4 - 129	30	
Benzene	0.16	0.50	ND	17.9	103	103	0.545	66.9 - 140	30	
Trichloroethylene	0.15	0.50	ND	17.9	100	103	2.21	69.3 - 144	30	
Toluene	0.14	0.50	ND	17.9	107	108	1.04	76.6 - 123	30	
Chlorobenzene	0.16	0.50	ND	17.9	101	103	1.10	73.9 - 137	30	
(S) Dibromofluoromethane				17.9	99.6	101		61.2 - 131		
(S) Toluene-d8				17.9	104	105		75.1 - 127		
(S) 4-Bromofluorobenzene				17.9	98.2	99.6		64.1 - 120		

Work Order:	2112217	**Prep Method:**	5030GRO	**Prep Date:**	12/17/21	**Prep Batch:**	1137852
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/18/2021	**Analytical Batch:**	462299
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	29	50	32	238	97.4	94.3	3.06	52.4 - 127	30	
(S) 4-Bromofluorobenzene				11.9	89.5	92.1		41.5 - 125		

Work Order:	2112217	**Prep Method:**	5030VOC	**Prep Date:**	12/20/21	**Prep Batch:**	1137875
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462320
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.9	98.1	96.0	2.31	61.4 - 129	30	
Benzene	0.16	0.50	ND	17.9	105	104	1.07	66.9 - 140	30	
Trichloroethylene	0.15	0.50	ND	17.9	98.4	99.2	0.567	69.3 - 144	30	
Toluene	0.14	0.50	ND	17.9	105	109	3.66	76.6 - 123	30	
Chlorobenzene	0.16	0.50	ND	17.9	99.4	104	4.40	73.9 - 137	30	
(S) Dibromofluoromethane				17.9	99.2	101		61.2 - 131		
(S) Toluene-d8				17.9	102	106		75.1 - 127		
(S) 4-Bromofluorobenzene				17.9	98.2	102		64.1 - 120		

Work Order:	2112217	**Prep Method:**	5030GRO	**Prep Date:**	12/20/21	**Prep Batch:**	1137876
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/20/2021	**Analytical Batch:**	462320
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	29	50	30	238	100	94.7	5.62	52.4 - 127	30	
(S) 4-Bromofluorobenzene				11.9	95.3	102		41.5 - 125		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2112217	**Prep Method:**	5030VOC	**Prep Date:**	12/21/21	**Prep Batch:**	1137889
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/21/2021	**Analytical Batch:**	462336
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.9	95.1	93.7	1.78	61.4 - 129	30	
Benzene	0.16	0.50	ND	17.9	102	102	0.548	66.9 - 140	30	
Trichloroethylene	0.15	0.50	ND	17.9	97.3	98.4	1.14	69.3 - 144	30	
Toluene	0.14	0.50	ND	17.9	106	105	1.06	76.6 - 123	30	
Chlorobenzene	0.16	0.50	ND	17.9	99.6	101	1.12	73.9 - 137	30	
(S) Dibromofluoromethane				17.9	98.5	101		61.2 - 131		
(S) Toluene-d8				17.9	103	101		75.1 - 127		
(S) 4-Bromofluorobenzene				17.9	98.8	96.6		64.1 - 120		

Work Order:	2112217	**Prep Method:**	5030GRO	**Prep Date:**	12/21/21	**Prep Batch:**	1137890
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	12/21/2021	**Analytical Batch:**	462336
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	29	50	33	238	111	93.2	16.9	52.4 - 127	30	
(S) 4-Bromofluorobenzene				11.9	102	96.7		41.5 - 125		

Work Order:	2112217	**Prep Method:**	TOC-W-P	**Prep Date:**	12/23/21	**Prep Batch:**	1138001
Matrix:	Water	**Analytical Method:**	A5310B	**Analyzed Date:**	12/23/2021	**Analytical Batch:**	462450
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TOC	0.40	2.0	ND	10	100	99.8	0.200	80 - 120	20	

Torrent LABORATORY, INC.

Duplicate QC Summary Report

Work Order:	2112217	**Prep Method:**	TOC-W-P	**Prep Date:**	12/23/2021	**Prep Batch:**	1138001
Matrix:		**Analytical Method:**	A5310B	**Analyzed Date:**	12/23/21	**Analytical Batch:**	462450
Units:						**Lab Sample ID:**	2112217-007B-DUP-1138001

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD	
TOC	0.40	2.0	13.0	12.7	2.33	

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 100cm2 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)

Project Name: HDOH Red Hill

Work Order No.: 2112217

Date and Time Received: 12/17/2021 1:00:00PM

Received By: Helena Ueng

Physically Logged By: Helena Ueng

Checklist Completed By: Helena Ueng

Carrier Name: Client Drop Off

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?	Not Present

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: 4.0	°C
Water-VOA vials have zero headspace?	Yes		
Water-pH acceptable upon receipt?	N/A		

pH Checked by: N/A

pH Adjusted by: N/A

Comments:

7 coolers received at temperatures ranging from 2 deg.C to 4 deg.C.
Slight ID discrepancy between CoC and sample container labels for sample collected 12/15/21-- ID=ERH2187-RHMW03 per CoC; ID=ERH2182-RHMW03 per bottles; ID logged in per sample containers.

Torrent LABORATORY, INC.

Login Summary Report

Client ID: TL5162 Tetra Tech Inc (HI)
Project Name: HDOH Red Hill
Project # : 103S518817512
Report Due Date: 12/27/2021

QC Level: II
TAT Requested: 5+ day:5
Date Received: 12/17/2021
Time Received: 1:00 pm

Comments:

Work Order # : ***2112217***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2112217-001A	ERH2197-OWDFMW01	12/13/21 10:35	Water	01/27/22			SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	
Sample Note:	TPHd/o with & w/o sgcu							
2112217-001B	ERH2197-OWDFMW01	12/13/21 10:35	Water	01/27/22			TOC_5310B	
Sample Note:								
2112217-001C	ERH2197-OWDFMW01	12/13/21 10:35	Water	01/27/22			VOC_W_8260B VOC_W_GRO	
Sample Note:	VOCs & TPHg (1 HCL voa & 2 n/p voas available per sample)							
2112217-001D	ERH2197-OWDFMW01	12/13/21 10:35	Water	01/27/22			Sub_RSK-175	Yes
Sample Note:								
2112217-002A	ERH2186-RHMW06	12/13/21 13:10	Water	01/27/22			SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	
2112217-002B	ERH2186-RHMW06	12/13/21 13:10	Water	01/27/22			TOC_5310B	
2112217-002C	ERH2186-RHMW06	12/13/21 13:10	Water	01/27/22			VOC_W_8260B VOC_W_GRO	
2112217-002D	ERH2186-RHMW06	12/13/21 13:10	Water	01/27/22			Sub_RSK-175	Yes
2112217-003A	ERH2203-RHMW14(ZONE 3)	12/13/21 11:15	Water	01/27/22			SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	
2112217-003B	ERH2203-RHMW14(ZONE 3)	12/13/21 11:15	Water	01/27/22			TOC_5310B	
2112217-003C	ERH2203-RHMW14(ZONE 3)	12/13/21 11:15	Water	01/27/22			VOC_W_8260B VOC_W_GRO	
2112217-003D	ERH2203-RHMW14(ZONE 3)	12/13/21 11:15	Water	01/27/22				

Torrent LABORATORY, INC.

Login Summary Report

Client ID: TL5162 Tetra Tech Inc (HI)
Project Name: HDOH Red Hill
Project # : 103S518817512
Report Due Date: 12/27/2021

QC Level: II
TAT Requested: 5+ day:5
Date Received: 12/17/2021
Time Received: 1:00 pm

Comments:

Work Order # : ***2112217***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2112217-004A	ERH2205-RHMW15(ZONE 5A)	12/14/21 10:00	Water	01/28/22			Sub_RSK-175 SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	Yes
2112217-004B	ERH2205-RHMW15(ZONE 5A)	12/14/21 10:00	Water	01/28/22			TOC_5310B	
2112217-004C	ERH2205-RHMW15(ZONE 5A)	12/14/21 10:00	Water	01/28/22			VOC_W_8260B VOC_W_GRO	
2112217-004D	ERH2205-RHMW15(ZONE 5A)	12/14/21 10:00	Water	01/28/22			Sub_RSK-175 SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	Yes
2112217-005A	ERH2195-RHWMW16	12/14/21 11:55	Water	01/28/22			TOC_5310B	
2112217-005B	ERH2195-RHWMW16	12/14/21 11:55	Water	01/28/22			VOC_W_8260B VOC_W_GRO	
2112217-005C	ERH2195-RHWMW16	12/14/21 11:55	Water	01/28/22			Sub_RSK-175 SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	Yes
2112217-005D	ERH2195-RHWMW16	12/14/21 11:55	Water	01/28/22			TOC_5310B	
2112217-006A	ERH2193-RHMW12A	12/14/21 16:10	Water	01/28/22			VOC_W_8260B VOC_W_GRO	
2112217-006B	ERH2193-RHMW12A	12/14/21 16:10	Water	01/28/22			Sub_RSK-175 SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	Yes
2112217-006C	ERH2193-RHMW12A	12/14/21 16:10	Water	01/28/22			TOC_5310B	
2112217-006D	ERH2193-RHMW12A	12/14/21 16:10	Water	01/28/22			VOC_W_8260B VOC_W_GRO	
2112217-007A	ERH2184-RHMW05	12/15/21 11:35	Water	01/29/22			Sub_RSK-175 SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	Yes

Torrent LABORATORY, INC.

Login Summary Report

Client ID: TL5162 Tetra Tech Inc (HI)
Project Name: HDOH Red Hill
Project # : 103S518817512
Report Due Date: 12/27/2021

QC Level: II
TAT Requested: 5+ day:5
Date Received: 12/17/2021
Time Received: 1:00 pm

Comments:

Work Order # : ***2112217***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2112217-007B	ERH2184-RHMW05	12/15/21 11:35	Water	01/29/22			TOC_5310B	
2112217-007C	ERH2184-RHMW05	12/15/21 11:35	Water	01/29/22			VOC_W_8260B VOC_W_GRO	
2112217-007D	ERH2184-RHMW05	12/15/21 11:35	Water	01/29/22			Sub_RSK-175	Yes
2112217-008A	ERH2178-RHMW01R	12/15/21 13:15	Water	01/29/22			SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	
2112217-008B	ERH2178-RHMW01R	12/15/21 13:15	Water	01/29/22			TOC_5310B	
2112217-008C	ERH2178-RHMW01R	12/15/21 13:15	Water	01/29/22			VOC_W_8260B VOC_W_GRO	
2112217-008D	ERH2178-RHMW01R	12/15/21 13:15	Water	01/29/22			Sub_RSK-175	Yes
2112217-009A	ERH2180-RHMW02	12/15/21 14:30	Water	01/29/22			SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	
2112217-009B	ERH2180-RHMW02	12/15/21 14:30	Water	01/29/22			TOC_5310B	
2112217-009C	ERH2180-RHMW02	12/15/21 14:30	Water	01/29/22			VOC_W_8260B VOC_W_GRO	
2112217-009D	ERH2180-RHMW02	12/15/21 14:30	Water	01/29/22			Sub_RSK-175	Yes
2112217-010A	ERH2182-RHMW03	12/15/21 15:50	Water	01/29/22			SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	
2112217-010B	ERH2182-RHMW03	12/15/21 15:50	Water	01/29/22			TOC_5310B	
2112217-010C	ERH2182-RHMW03	12/15/21 15:50	Water	01/29/22			VOC_W_8260B VOC_W_GRO	
2112217-010D	ERH2182-RHMW03	12/15/21 15:50	Water	01/29/22			Sub_RSK-175	Yes
2112217-011A	ERH2206-RHMW2254-01	12/15/21 9:00	Water	01/29/22				

Torrent LABORATORY, INC.

Login Summary Report

Client ID: TL5162 Tetra Tech Inc (HI)
Project Name: HDOH Red Hill
Project # : 103S518817512
Report Due Date: 12/27/2021

QC Level: II
TAT Requested: 5+ day:5
Date Received: 12/17/2021
Time Received: 1:00 pm

Comments:

Work Order # : ***2112217***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
							SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	
2112217-011B	ERH2206-RHMW2254-01	12/15/21 9:00	Water	01/29/22				
							TOC_5310B	
2112217-011C	ERH2206-RHMW2254-01	12/15/21 9:00	Water	01/29/22				
							VOC_W_8260B VOC_W_GRO	
2112217-011D	ERH2206-RHMW2254-01	12/15/21 9:00	Water	01/29/22				
							Sub_RSK-175	Yes
2112217-012A	ERH2175-RHMW2254-01	12/15/21 9:40	Water	01/29/22				
							SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	
2112217-012B	ERH2175-RHMW2254-01	12/15/21 9:40	Water	01/29/22				
							TOC_5310B	
2112217-012C	ERH2175-RHMW2254-01	12/15/21 9:40	Water	01/29/22				
							VOC_W_8260B VOC_W_GRO	
2112217-012D	ERH2175-RHMW2254-01	12/15/21 9:40	Water	01/29/22				
							Sub_RSK-175	Yes
2112217-013A	ERH2230-INFILTRATION GW SUMP	12/15/21 11:15	Water	01/29/22				
							SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	
2112217-013B	ERH2230-INFILTRATION GW SUMP	12/15/21 11:15	Water	01/29/22				
							TOC_5310B	
2112217-013C	ERH2230-INFILTRATION GW SUMP	12/15/21 11:15	Water	01/29/22				
							VOC_W_8260B VOC_W_GRO	
2112217-013D	ERH2230-INFILTRATION GW SUMP	12/15/21 11:15	Water	01/29/22				
							Sub_RSK-175	Yes

Login Summary Report

Client ID:	TL5162	Tetra Tech Inc (HI)	**QC Level:**	II
Project Name:	HDOH Red Hill		**TAT Requested:**	5+ day:5
Project # :	103S518817512		**Date Received:**	12/17/2021
Report Due Date:	12/27/2021		**Time Received:**	1:00 pm

Comments:

Work Order # : ***2112217***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2112217-014A	ERH2201-RHMW13(Zone 5)	12/15/21 11:40	Water	01/29/22				
							SVOC_W_SIMFull TPHDOSG_W_8015B TPHDO_W_8015B(M)	
Sample Note:	-014: only 3 ambers available (4 for all others)							
2112217-014B	ERH2201-RHMW13(Zone 5)	12/15/21 11:40	Water	01/29/22				
							TOC_5310B	
2112217-014C	ERH2201-RHMW13(Zone 5)	12/15/21 11:40	Water	01/29/22				
							VOC_W_8260B VOC_W_GRO	
2112217-014D	ERH2201-RHMW13(Zone 5)	12/15/21 11:40	Water	01/29/22				
							Sub_RSK-175	Yes

Torrent LABORATORY, INC.

CHAIN-OF-CUSTODY RECORD

TETRA TECH

2/12/21

Client Name/Account #: TetraTech, Inc.
Address: 737 Bishop St., Suite 2340
City/State/Zip: Honolulu, HI 96813
Project Manager: Yvonne Parry
Telephone Number: 808.393.8829 email yvonne.parry@tetratech.com
Sampler Name: (Print) Eric Jensen, Jason Turban, Anay Schende
Sampler Signature:

Report To: Yvonne Parry
Invoice To: Yvonne Parry
Project ID: HDOH Red Hill
Project #: 103S518817512

Cooler 1 of 7

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Multi-incremental Sample	Preservative: Ice	Preservative: HNO_3 (Red Label)	Preservative: HCl (Blue Label)	Preservative: NaOH (Orange Label)	Preservative: H_2SO_4 Plastic (Yellow Label)	Preservative: H_2SO_4 Glass(Yellow Label)	Preservative: None (Black Label)	Preservative: Other (one MeOH VOA)	Matrix: Groundwater	Matrix: Wastewater	Matrix: Drinking Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: Analyses pending	TPH-G EPA 8260	TPH-D,O EPA 8015	TPH-sgc EPA 3630/8015	VOCs EPA 8260	SVOC EPA 8270 SIM	TOC EPA9060A	METHANE RSK175M	LEAD SCAVENGER EPA 8011/8260			RUSH TAT (Pre-Schedule)	Standard TAT	SAMPLER	
ERH2197 - OWDFMW01	12/13/21	1035	9	X			X		X				X		X							X	X	X	X	X	X	X	X				X	EJ/JT	-001A→D
ERH2186 - RHMW06	12/13/21	1310	9	X			X		X				X		X							X	X	X	X	X	X	X	X					EJ/JT	-002A→D
ERH2203 - RHMW14(ZONE 3)	12/13/21	1115	9	X			X		X				X		X							X	X	X	X	X	X	X	X					AS	-003A→D
ERH2205 - RHMW15(ZONE 5A)	12/14/21	1000	9	X			X		X				X		X							X	X	X	X	X	X	X	X					EJ	-004A→D
ERH2195 - RHWMW16	12/14/21	1155	9	X			X		X				X		X							X	X	X	X	X	X	X	X					JT	-005A→D
ERH2193 - RHMW12A	12/14/21	1610	9	X			X		X				X		X							X	X	X	X	X	X	X	X					JT	-006A→D
ERH2184 - RHMW05	12/15/21	1135	9	X			X		X				X		X							X	X	X	X	X	X	X	X					JT	-007A→D
ERH2178 - RHMW01R	12/15/21	1315	9	X			X		X				X		X							X	X	X	X	X	X	X	X					JT	-008A→D
ERH2180 - RHMW02	12/15/21	1430	9	X			X		X				X		X							X	X	X	X	X	X	X	X					JT	-009A→D
ERH2187 - RHMW03	12/15/21	1550	9	X			X		X				X		X							X	X	X	X	X	X	X	X					JT	-010A→D
EHR2206 - RHMW2254-01	12/15/21	0900	9	X			X		X				X		X							X	X	X	X	X	X	X	X					EJ	-011A→D
ERH2175 - RHMW2254-01	12/15/21	0940	9	X			X		X				X		X							X	X	X	X	X	X	X	X					EJ	-012A→D

Special Instructions:

Method of Shipment: FEDEX

Laboratory Comments:
Temperature Upon Receipt: 4°C #2
VOCs Free of Headspace? (Y) N

Relinquished by:	Date	Time	Received by:	Date	Time
	12/16/21	1130	FEDEX		
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time
FEDEX			Hellary / Torrent Lab	12/17/21	1300

Page 1 of 12

Torrent LABORATORY, INC.

CHAIN-OF-CUSTODY RECORD

TETRA TECH

2/22/17

Client Name/Account #: TetraTech, Inc.

Address: 737 Bishop St., Suite 2340

City/State/Zip: Honolulu, HI 96813

Project Manager: Yvonne Parry

Telephone Number: 808.393.8829 email yvonne.parry@tetratech.com

Sampler Name: (Print) Eric Jensen, Jason Turban, Anay SchenDe

Sampler Signature: EJ

Report To: Yvonne Parry

Invoice To: Yvonne Parry

Project ID: HDOH Red Hill

Project #: 103S518817512

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Multi-incremental Sample	Preservative: Ice	Preservative: HNO_3 (Red Label)	Preservative: HCl (Blue Label)	Preservative: NaOH (Orange Label)	Preservative: H_2SO_4 Plastic (Yellow Label)	Preservative: H_2SO_4 Glass(Yellow Label)	Preservative: None (Black Label)	Preservative: Other (one MeOH VOA)	Matrix: Groundwater	Matrix: Wastewater	Matrix: Drinking Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: Analyses pending	TPH-G EPA 8260	TPH-D,O EPA 8015	TPH-sgc EPA 3630/8015	VOCs EPA 8260	SVOC EPA 8270 SIM	TOC EPA9060A	METHANE RSK175M	LEAD SCAVENGER EPA 8011/8260			RUSH TAT (Pre-Schedule)	Standard TAT	SAMPLER	
ERH2230 - INFILTRATION GW SUMP	12/15/21	1115	9	X			X		X				X		X							X	X	X	X	X	X	X	X				X	EJ	01(3A-1D)
ERH2201 - RHMW13 (Zone 5)	12/15/21	1140	8*	X			X		X				X		X							X	X	X	X	X	X	X	X				X	EJ/AS	01(4A-1D)

Special Instructions:

Note: ERH2201 had (3) 1-L amber due to field conditions (instead of 4 amber)

Method of Shipment: FEDEX

Laboratory Comments:

Temperature Upon Receipt: 4oC#2

VOCs Free of Headspace? (Y) N

Relinquished by:	Date	Time	Received by:	Date	Time
EJ	12/16/21	1130	FEDEX		
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time
FEDEX			Torrentlab	12/17/21	1300

Page 2 of 2

Atmospheric Analysis & Consulting, Inc

CLIENT : Torrent Laboratory, Inc.
PROJECT NO. : CoC211217001
AAC PROJECT NO. : 212430
REPORT DATE : 01/06/2022

On December 21st, 2021, Atmospheric Analysis & Consulting, Inc. received Fourteen (14) liquid samples for dissolved Methane analysis by EPA RSK-175. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab No.	Client ID	Lab No.
2112217-001D	212430-26790	2112217-008D	212430-26797
2112217-002D	212430-26791	2112217-009D	212430-26798
2112217-003D	212430-26792	2112217-010D	212430-26799
2112217-004D	212430-26793	2112217-011D	212430-26800
2112217-005D	212430-26794	2112217-012D	212430-26801
2112217-006D	212430-26795	2112217-013D	212430-26802
2112217-007D	212430-26796	2112217-014D	212430-26803

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha Parmar, Ph.D.
Technical Director

This report consists of 9 pages.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Laboratory Analysis Report

Client : Torrent Laboratory, Inc.
AAC Project No. : 212430
Matrix : Liquid
Units : ug/ml

Sampling Date : 12/13/2021
Receiving Date : 12/21/2021
Analysis Date : 12/22/2021
Report Date : 01/06/2022

EPA RSK-175

Client Sample ID	2112217-001D	2112217-002D	2112217-003D	Sample Reporting Limit
AAC ID	212430-26790	212430-26791	212430-26792	
Analyte	Result	Result	Result	
Methane	<SRL	<SRL	**0.00033**	0.00011

All samples were blank corrected for Methane, Ethylene, and Ethane using the Method Blank value.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Laboratory Analysis Report

Client : Torrent Laboratory, Inc.
AAC Project No. : 212430
Matrix : Liquid
Units : ug/ml

Sampling Date : 12/14/2021
Receiving Date : 12/21/2021
Analysis Date : 12/22/2021
Report Date : 01/06/2022

EPA RSK-175

Client Sample ID	2112217-004D	2112217-005D	2112217-006D	Sample Reporting Limit
AAC ID	212430-26793	212430-26794	212430-26795	
Analyte	Result	Result	Result	
Methane	**0.00027**	**0.00020**	**0.00021**	0.00011

All samples were blank corrected for Methane, Ethylene, and Ethane using the Method Blank value.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Laboratory Analysis Report

Client : Torrent Laboratory, Inc.
AAC Project No. : 212430
Matrix : Liquid
Units : ug/ml

Sampling Date : 12/15/2021
Receiving Date : 12/21/2021
Analysis Date : 12/22/2021
Report Date : 01/06/2022

EPA RSK-175

Client Sample ID	2112217-007D	2112217-008D	2112217-009D	Sample Reporting Limit
AAC ID	212430-26796	212430-26797	212430-26798	
Analyte	Result	Result	Result	
Methane	<SRL	**0.619**	**2.04**	0.00011

All samples were blank corrected for Methane, Ethylene, and Ethane using the Method Blank value.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Laboratory Analysis Report

Client : Torrent Laboratory, Inc.
AAC Project No. : 212430
Matrix : Liquid
Units : ug/ml

Sampling Date : 12/15/2021
Receiving Date : 12/21/2021
Analysis Date : 12/22/2021
Report Date : 01/06/2022

EPA RSK-175

Client Sample ID	2112217-010D	2112217-011D	2112217-012D	Sample Reporting Limit
AAC ID	212430-26799	212430-26800	212430-26801	
Analyte	Result	Result	Result	
Methane	**0.00132**	**0.00070**	**0.00091**	0.00011

All samples were blank corrected for Methane, Ethylene, and Ethane using the Method Blank value.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Laboratory Analysis Report

Client : Torrent Laboratory, Inc.
AAC Project No. : 212430
Matrix : Liquid
Units : ug/ml

Sampling Date : 12/15/2021
Receiving Date : 12/21/2021
Analysis Date : 12/22/2021
Report Date : 01/06/2022

EPA RSK-175

Client Sample ID	2112217-013D	2112217-014D	Sample Reporting Limit
AAC ID	212430-26802	212430-26803	
Analyte	Result	Result	
Methane	**0.0168**	**0.00095**	0.00011

All samples were blank corrected for Methane, Ethylene, and Ethane using the Method Blank value.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Quality Control/Quality Assurance Report

Date Analyzed : 12/22/2021
Analyst : DL/MR
Units : ppmv

Instrument ID : FID #3
Calb Date : 12/06/21
Reporting Limit : 0.5 ppmv

I - Opening Continuing Calibration Verification - EPA RSK-175

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	Result	97.2	95.9	95.6	97.5	94.1	93.1
	% Rec *	98.3	96.8	96.8	99.4	95.9	93.4

II - Instrument Blank - EPA RSK-175

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - EPA RSK-175

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	LCS Result	95.0	93.7	93.8	95.1	93.5	91.7
	LCSD Result	98.5	97.2	96.7	99.3	96.3	95.5
	LCS % Rec *	96.1	94.5	95.0	97.0	95.3	91.9
	LCSD % Rec *	99.7	98.0	98.0	101.2	98.1	95.7
	% RPD ***	3.6	3.6	3.1	4.3	2.9	4.0

IV - Sample & Sample Duplicate - EPA RSK-175

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
212047-25186	Sample	15.1	0.0	0.0	0.0	0.0	0.0
	Sample Dup	14.4	0.0	0.0	0.0	0.0	0.0
	Mean	14.8	0.0	0.0	0.0	0.0	0.0
	% RPD ***	5.1	0.0	0.0	0.0	0.0	0.0

V - Closing Continuing Calibration Verification - EPA RSK-175

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	Result	95.0	94.5	94.9	96.9	96.7	100.6
	% Rec *	96.1	95.3	96.1	98.8	98.6	100.8

** Must be 85-115%*

*** Must be 75-125%*

**** Must be < 25%*

ND = Not Detected

<RL = less than Reporting Limit

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

212430

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

LAB WORK ORDER NO
CoC211217001

Company Name:	Torrent Laboratory, Inc.	Company Name:	Atmospheric Analysis and Consultants, Inc
Address:	483 Sinclair Frontage Road	Address:	1534 Eastman Ave, Ste A
City:	Milpitas State: CA	City:	Ventura State: California Zip Code: 93003
Telephone:	408.263.5258 FAX: 408.263.8293	Telephone:	805-650-1642 FAX:
Contact:	Kathie Evans	Contact Name:	Sample Receiving
Contact Email:	Report to: pm@torrentlaboratory.com; Bill to: ap@torrentlaboratory.com	Special Instructions/Comments:	Please analyze for Methane (RSK-175) on a standard TAT. Thanks! *HCL-preserved vials*
		P.O. #:	212217 EMAIL :

TURNAROUND TIME:
- ☐ 10 Work Days
- ☐ 7 Work Days
- ☐ 5 Work Days
- ☐ 3 Work Days
- ☐ 2 Work Days
- ☐ 1 Work Days
- ☐ Noon-Nxt Day
- ☐ 2 - 8 Hours
- ☐ Other

SAMPLE TYPE: 1

REPORT FORMAT:
- ☐ QC Level IV
- ☐ EDF
- ☐ Excel/EDD

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	Sub_RSK-175 (CH4 only)							REMARKS
26790	2112217-001D	12/13/2021/10:35	Water	2	HCl VOA	X							
26791	2112217-002D	12/13/2021/13:10	Water	↓	↓	X							
26792	2112217-003D	12/13/2021/11:15	Water			X							
26793	2112217-004D	12/14/2021/10:00	Water			X							
26794	2112217-005D	12/14/2021/11:55	Water			X							
26795	2112217-006D	12/14/2021/16:10	Water			X							
26796	2112217-007D	12/15/2021/11:35	Water			X							
26797	2112217-008D	12/15/2021/13:15	Water			X							
26798	2112217-009D	12/15/2021/14:30	Water			X							
26799	2112217-010D	12/15/2021/15:50	Water			X							
26800	2112217-011D	12/15/2021/9:00	Water			X							
~~26801~~ 26801	2112217-012D	12/15/2021/9:40	Water			X							
26802	2112217-013D	12/15/2021/11:15	Water			X							
26803	2112217-014D	12/15/2021/11:40	Water	↓	↓	X							

LAB ID	CLIENT'S SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE								

1 Relinquished By:	Print: Helenalleng	Date: 12/20/21	Time: 1600	Received By: G80	Print:	Date:	Time:
2 Relinquished By:	Print:	Date:	Time:	Received By: H		Date: 12/21/21	Time: 1541

Were Samples Received in Good Condition? ☐ YES ☐ NO Samples on Ice? ☐ YES ☐ NO Method of Shipment ________ Sample seals intact? ☐ YES ☐ NO ☐ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Log In By: Date: | Log In Reviewed By: Date:

2.3°C T10