

**Summary of Chemistry Results  
Zone I1 Long Term Monitoring  
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples Collected in May 2022 from Residences in Zone I1**

<b>Notes:</b>
ND = Not Detected
ISP = Incident Specific Parameter
EAL = DOH Environmental Action Level
EPA MCL = EPA Maximum Contaminant Level
All Results shown in Parts per Billion (ppb)
§ - Exceeds Screening Level
-- = No Information Available
N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample

		Location ID:	I1-BASS1156	I1-HUDS1203	I1-HUDS1265	I1-LAUR1902	I1-LAUR1914	I1-MADR1828	I1-TAMP1552	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	
		Address:	1156 Basswood Place	1203 Hudson Circle	1265 Hudson Way	1902 Laurel Place	1914 Laurel Place	1828 Madrona Place	1552 Tampa Drive	
		Field Sample ID:	I1-TW-0011955-22105-A	I1-TW-0014091-22105-A	I1-TW-0014100-22105-A	I1-TW-0014105-22105-A	I1-TW-0014108-22105-A	I1-TW-0014110-22105-A	I1-TW-0014132-22105-A	
		Sample Date:	2022-05-02	2022-05-03	2022-05-03	2022-05-03	2022-05-03	2022-05-02	2022-05-02	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level							
Field Test (ppb)	Free Chlorine	4000	MCL	220	410	270	290	270	310	370
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	280	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	58.5	52.1	ND	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	211	ISP	ND	ND	58.5	52.1	ND	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	3.70	3.70	3.70	3.70	3.90	3.90	3.70
	Beryllium	4	MCL	ND	ND	ND	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND	ND	ND	ND
	Chromium	100	MCL	1.10	0.760	0.740	1.10	1.10	1.10	1.10
	Copper	1300	MCL	2.20	2.70	2.10	1.90	1.50	4.20	2.30
	Lead	15	MCL	ND	ND	ND	0.210	ND	0.130	ND
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	ND	0.750	1.10	25.3	ND	ND	ND
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	0.0610	ND	ND	ND
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	ND
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND	ND	ND

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		Location ID:	I1-BASS1156	I1-HUDS1203	I1-HUDS1265	I1-LAUR1902	I1-LAUR1914	I1-MADR1828	I1-TAMP1552	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	
		Address:	1156 Basswood Place	1203 Hudson Circle	1265 Hudson Way	1902 Laurel Place	1914 Laurel Place	1828 Madrona Place	1552 Tampa Drive	
		Field Sample ID:	I1-TW-0011955-22105 -A	I1-TW-0014091-22105 -A	I1-TW-0014100-22105 -A	I1-TW-0014105-22105 -A	I1-TW-0014108-22105 -A	I1-TW-0014110-22105 -A	I1-TW-0014132-22105 -A	
		Sample Date:	2022-05-02	2022-05-03	2022-05-03	2022-05-03	2022-05-03	2022-05-02	2022-05-02	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	I1-BASS1156	I1-HUDS1203	I1-HUDS1265	I1-LAUR1902	I1-LAUR1914	I1-MADR1828	I1-TAMP1552
Volatile Organic Compounds (ppb)	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride	5	MCL	ND	ND	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride	2	MCL	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	2.10	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND
	Dibromoacetic acid	--	--	1.50	1.40	1.20	1.20	1.30	2.40	1.40
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND

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		Location ID:	I1-BASS1156	I1-HUDS1203	I1-HUDS1265	I1-LAUR1902	I1-LAUR1914	I1-MADR1828	I1-TAMP1552	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	
		Address:	1156 Basswood Place	1203 Hudson Circle	1265 Hudson Way	1902 Laurel Place	1914 Laurel Place	1828 Madrona Place	1552 Tampa Drive	
		Field Sample ID:	I1-TW-0011955-22105 -A	I1-TW-0014091-22105 -A	I1-TW-0014100-22105 -A	I1-TW-0014105-22105 -A	I1-TW-0014108-22105 -A	I1-TW-0014110-22105 -A	I1-TW-0014132-22105 -A	
		Sample Date:	2022-05-02	2022-05-03	2022-05-03	2022-05-03	2022-05-03	2022-05-02	2022-05-02	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level							
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	
	Total Haloacetic acids	60	MCL	1.50	3.50	1.20	1.20	1.30	2.40	1.40
Trihalomethanes (ppb)	Bromodichloromethane	--	--	1.10	1.10	1.00	1.30	1.20	1.10	1.20
	Bromoform	--	--	6.50	7.20	7.60	8.20	8.10	7.70	6.70
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	3.70	3.90	4.10	4.60	4.10	3.40	3.70
	Total Trihalomethanes	80	MCL	11.4	12.3	12.7	14.0	13.5	12.2	11.5

**Summary of Chemistry Results  
Zone I1 Long Term Monitoring  
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples Collected in May 2022 from Schools in Zone I1**

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		<b>Location ID:</b>			I1-ALAK1265				
		<b>Location Type:</b>			School				
		<b>Address:</b>			1265 Ala Kula Place; Red Hill Elementary School				
		<b>Field Sample ID:</b>			I1-TW-0011966-22105 -A-1	I1-TW-0011966-22105 -A-2	I1-TW-0011966-22105 -A-3	I1-TW-0011966-22105 -A-4	I1-TW-0011966-22105 -A-5
		<b>Sample Date:</b>			2022-05-03	2022-05-03	2022-05-03	2022-05-03	2022-05-03
		<b>Sample Type:</b>			N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
<b>Method Group</b>	<b>Analyte</b>	<b>DOH Project Screening Level</b>	<b>Basis of Project Screening Level</b>						
Field Test (ppb)	Free Chlorine	4000	MCL	150-580	150-580	150-580	150-580	150-580	
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons, Total	211	ISP	ND	ND	ND	ND	ND	
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	0.110	ND	
	Arsenic	10	MCL	ND	ND	ND	ND	ND	
	Barium	2000	MCL	4.00	3.70	3.70	3.70	3.90	
	Beryllium	4	MCL	ND	ND	ND	ND	ND	
	Cadmium	5	MCL	ND	ND	ND	ND	ND	
	Chromium	100	MCL	1.10	0.730	1.10	1.10	1.20	
	Copper	1300	MCL	8.10	8.00	8.30	5.80	8.00	
	Lead	15	MCL	0.210	ND	1.20	0.170	ND	
	Mercury	2	MCL	ND	ND	ND	ND	ND	
	Selenium	50	MCL	0.590	1.20	ND	ND	ND	
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND	
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND	ND	
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND	
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	

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		Location ID: I1-ALAK1265						
		Location Type: School						
		Address: 1265 Ala Kula Place; Red Hill Elementary School						
		Field Sample ID:		I1-TW-0011966-22105 -A-1	I1-TW-0011966-22105 -A-2	I1-TW-0011966-22105 -A-3	I1-TW-0011966-22105 -A-4	I1-TW-0011966-22105 -A-5
		Sample Date:		2022-05-03	2022-05-03	2022-05-03	2022-05-03	2022-05-03
		Sample Type:		N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level					
Volatile Organic Compounds (ppb)	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND
	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND	ND
	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND	ND
	1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND
	Methylene chloride	5	MCL	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND	ND
Vinyl chloride	2	MCL	ND	ND	ND	ND	ND	
Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	2.00	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND

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				<b>Location ID:</b> I1-ALAK1265				
				<b>Location Type:</b> School				
				<b>Address:</b> 1265 Ala Kula Place; Red Hill Elementary School				
				<b>Field Sample ID:</b> I1-TW-0011966-22105 -A-1   I1-TW-0011966-22105 -A-2   I1-TW-0011966-22105 -A-3   I1-TW-0011966-22105 -A-4   I1-TW-0011966-22105 -A-5				
				<b>Sample Date:</b> 2022-05-03   2022-05-03   2022-05-03   2022-05-03   2022-05-03				
				<b>Sample Type:</b> N (Normal)   N (Normal)   N (Normal)   N (Normal)   N (Normal)				
<b>Method Group</b>	<b>Analyte</b>	<b>DOH Project Screening Level</b>	<b>Basis of Project Screening Level</b>					
Haloacetic Acids (ppb)	Dibromoacetic acid	--	--	1.30	1.20	1.30	1.30	1.30
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND
	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	3.40	1.20	1.30	1.30	1.30
Trihalomethanes (ppb)	Bromodichloromethane	--	--	1.10	1.10	1.10	1.10	1.20
	Bromoform	--	--	7.00	6.60	6.60	6.70	7.90
	Chloroform	--	--	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	3.70	3.70	3.80	3.50	4.30
	Total Trihalomethanes	80	MCL	11.8	11.4	11.5	11.2	13.4

**Summary of Chemistry Results  
Zone I1 Long Term Monitoring  
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples Collected in May 2022 from Other Buildings in Zone I1**

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**Location ID:** I1-BLDG73410  
**Location Type:** Non-Residence  
**Address:** Building 73410, Red Hill Splash Park, 1541 Tampa Drive  
**Field Sample ID:** I1-TW-0017650-22105-A  
**Sample Date:** 2022-05-03  
**Sample Type:** N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Field Test (ppb)	Free Chlorine	4000	MCL	120
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND
	Petroleum Hydrocarbons, Total	211	ISP	ND
Metals (ppb)	Antimony	6	MCL	ND
	Arsenic	10	MCL	ND
	Barium	2000	MCL	4.40
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	1.00
	Copper	1300	MCL	11.3
	Lead	15	MCL	ND
	Mercury	2	MCL	ND
	Selenium	50	MCL	ND
Thallium	2	MCL	ND	
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	10	EAL	ND
	2-Methylnaphthalene	10	EAL	ND
	Benzo(a)pyrene	0.2	MCL	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND
	Naphthalene	17	EAL	ND
Volatile Organic Compounds (ppb)	1,1,1-Trichloroethane	--	--	ND
	1,1,2-Trichloroethane	5	MCL	ND

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<b>Location ID:</b>	I1-BLDG73410
<b>Location Type:</b>	Non-Residence
<b>Address:</b>	Building 73410, Red Hill Splash Park, 1541 Tampa Drive
<b>Field Sample ID:</b>	I1-TW-0017650-22105-A
<b>Sample Date:</b>	2022-05-03
<b>Sample Type:</b>	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Volatile Organic Compounds (ppb)	1,1-Dichloroethene	7	MCL	ND
	1,2,4-Trichlorobenzene	70	MCL	ND
	1,2-Dichlorobenzene	600	MCL	ND
	1,2-Dichloroethane	5	MCL	ND
	1,2-Dichloroethene	70	MCL	ND
	1,2-Dichloropropane	5	MCL	ND
	1,4-Dichlorobenzene	75	MCL	ND
	Benzene	5	MCL	ND
	Carbon Tetrachloride	5	MCL	ND
	Chlorobenzene	100	MCL	ND
	cis-1,2-Dichloroethene	70	MCL	ND
	Ethylbenzene	700	MCL	ND
	m,p-Xylene	--	--	ND
	Methylene chloride	5	MCL	ND
	o-Xylene	--	--	ND
	Styrene	100	MCL	ND
	Tetrachloroethene (PCE)	5	MCL	ND
	Toluene	1000	MCL	ND
	trans-1,2-Dichloroethene	100	MCL	ND
	Trichloroethene (TCE)	5	MCL	ND
Vinyl chloride	2	MCL	ND	
Xylenes, Total	10000	MCL	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND
	Chloroacetic acid	--	--	ND

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**Location ID:** I1-BLDG73410  
**Location Type:** Non-Residence  
**Address:** Building 73410, Red Hill Splash Park, 1541 Tampa Drive  
**Field Sample ID:** I1-TW-0017650-22105 -A  
**Sample Date:** 2022-05-03  
**Sample Type:** N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Haloacetic Acids (ppb)	Dibromoacetic acid	--	--	1.70
	Dichloroacetic acid	--	--	ND
	Trichloroacetic acid	--	--	ND
	Total Haloacetic acids	60	MCL	1.70
Trihalomethanes (ppb)	Bromodichloromethane	--	--	1.20
	Bromoform	--	--	12.8
	Chloroform	--	--	ND
	Dibromochloromethane	--	--	4.30
	Total Trihalomethanes	80	MCL	18.4

**Summary of Chemistry Results  
Zone I1 Long Term Monitoring  
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples Collected in May 2022 from Fire Hydrants in Zone I1**

<b>Notes:</b>
ND = Not Detected
ISP = Incident Specific Parameter
EAL = DOH Environmental Action Level
EPA MCL = EPA Maximum Contaminant Level
All Results shown in Parts per Billion (ppb)
§ - Exceeds Screening Level
-- = No Information Available
N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample

<b>Location ID:</b>	I1-HYD1324A
<b>Location Type:</b>	Hydrant
<b>Address:</b>	HYD-1324A
<b>Field Sample ID:</b>	I1-DL-0000642-22105-A
<b>Sample Date:</b>	2022-05-06
<b>Sample Type:</b>	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Result
Field Test (ppb)	Free Chlorine	4000	MCL	140
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND
	Petroleum Hydrocarbons, Total	211	ISP	ND
Metals (ppb)	Antimony	6	MCL	ND
	Arsenic	10	MCL	ND
	Barium	2000	MCL	3.60
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	0.540
	Copper	1300	MCL	1.10
	Lead	15	MCL	0.240
	Mercury	2	MCL	ND
	Selenium	50	MCL	0.940
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND
	1-Methylnaphthalene	10	EAL	ND
	2-Methylnaphthalene	10	EAL	ND
	Benzo(a)pyrene	0.2	MCL	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND
	1,1,1-Trichloroethane	--	--	ND
	1,1,2-Trichloroethane	5	MCL	ND
	1,1-Dichloroethene	7	MCL	ND

**Summary of Chemistry Results  
Zone I1 Long Term Monitoring  
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples Collected in May 2022 from Fire Hydrants in Zone I1**

<b>Notes:</b>
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<b>Location ID:</b>	I1-HYD1324A
<b>Location Type:</b>	Hydrant
<b>Address:</b>	HYD-1324A
<b>Field Sample ID:</b>	I1-DL-0000642-22105-A
<b>Sample Date:</b>	2022-05-06
<b>Sample Type:</b>	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Volatile Organic Compounds (ppb)	1,2,4-Trichlorobenzene	70	MCL	ND
	1,2-Dichlorobenzene	600	MCL	ND
	1,2-Dichloroethane	5	MCL	ND
	1,2-Dichloroethene	70	MCL	ND
	1,2-Dichloropropane	5	MCL	ND
	1,4-Dichlorobenzene	75	MCL	ND
	Benzene	5	MCL	ND
	Carbon Tetrachloride	5	MCL	ND
	Chlorobenzene	100	MCL	ND
	cis-1,2-Dichloroethene	70	MCL	ND
	Ethylbenzene	700	MCL	ND
	m,p-Xylene	--	--	ND
	Methylene chloride	5	MCL	ND
	o-Xylene	--	--	ND
	Styrene	100	MCL	ND
	Tetrachloroethene (PCE)	5	MCL	ND
	Toluene	1000	MCL	ND
	trans-1,2-Dichloroethene	100	MCL	ND
	Trichloroethene (TCE)	5	MCL	ND
	Vinyl chloride	2	MCL	ND
Xylenes, Total	10000	MCL	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND
	Chloroacetic acid	--	--	ND
	Dibromoacetic acid	--	--	2.60
	Dichloroacetic acid	--	--	ND

**Summary of Chemistry Results  
 Zone I1 Long Term Monitoring  
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples Collected in May 2022 from Fire Hydrants in Zone I1**

<b>Notes:</b>
ND = Not Detected
ISP = Incident Specific Parameter
EAL = DOH Environmental Action Level
EPA MCL = EPA Maximum Contaminant Level
All Results shown in Parts per Billion (ppb)
§ - Exceeds Screening Level
-- = No Information Available
N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample

<b>Location ID:</b>	I1-HYD1324A
<b>Location Type:</b>	Hydrant
<b>Address:</b>	HYD-1324A
<b>Field Sample ID:</b>	I1-DL-0000642-22105-A
<b>Sample Date:</b>	2022-05-06
<b>Sample Type:</b>	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND
	Total Haloacetic acids	60	MCL	2.60
Trihalomethanes (ppb)	Bromodichloromethane	--	--	1.40
	Bromoform	--	--	18.3
	Chloroform	--	--	ND
	Dibromochloromethane	--	--	5.70
	Total Trihalomethanes	80	MCL	25.5

**Summary of Chemistry Results  
Zone I1 Long Term Monitoring  
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples Collected in May 2022 from Waiwa in Zone I1**

<b>Notes:</b>
ND = Not Detected
ISP = Incident Specific Parameter
EAL = DOH Environmental Action Level
EPA MCL = EPA Maximum Contaminant Level
All Results shown in Parts per Billion (ppb)
§ - Exceeds Screening Level
-- = No Information Available
N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample

<b>Location ID:</b>	I1-SHFTWAIA
<b>Location Type:</b>	Well
<b>Address:</b>	Waiawa Shaft
<b>Field Sample ID:</b>	I1-DL-0016021-22105-A
<b>Sample Date:</b>	2022-05-06
<b>Sample Type:</b>	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Result
Field Test (ppb)	Free Chlorine	4000	MCL	670
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND
	Petroleum Hydrocarbons, Total	211	ISP	ND
Metals (ppb)	Antimony	6	MCL	ND
	Arsenic	10	MCL	ND
	Barium	2000	MCL	1.70
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	0.550
	Copper	1300	MCL	18.7
	Lead	15	MCL	0.230
	Mercury	2	MCL	ND
	Selenium	50	MCL	1.30
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND
	1-Methylnaphthalene	10	EAL	ND
	2-Methylnaphthalene	10	EAL	ND
	Benzo(a)pyrene	0.2	MCL	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	0.520
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND
	1,1,1-Trichloroethane	--	--	ND
	1,1,2-Trichloroethane	5	MCL	ND
	1,1-Dichloroethene	7	MCL	ND

**Summary of Chemistry Results  
Zone I1 Long Term Monitoring  
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples Collected in May 2022 from Waiwa in Zone I1**

<b>Notes:</b>
ND = Not Detected
ISP = Incident Specific Parameter
EAL = DOH Environmental Action Level
EPA MCL = EPA Maximum Contaminant Level
All Results shown in Parts per Billion (ppb)
§ - Exceeds Screening Level
-- = No Information Available
N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample

<b>Location ID:</b>	I1-SHFTWAIA
<b>Location Type:</b>	Well
<b>Address:</b>	Waiawa Shaft
<b>Field Sample ID:</b>	I1-DL-0016021-22105-A
<b>Sample Date:</b>	2022-05-06
<b>Sample Type:</b>	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Volatile Organic Compounds (ppb)	1,2,4-Trichlorobenzene	70	MCL	ND
	1,2-Dichlorobenzene	600	MCL	ND
	1,2-Dichloroethane	5	MCL	ND
	1,2-Dichloroethene	70	MCL	ND
	1,2-Dichloropropane	5	MCL	ND
	1,4-Dichlorobenzene	75	MCL	ND
	Benzene	5	MCL	ND
	Carbon Tetrachloride	5	MCL	ND
	Chlorobenzene	100	MCL	ND
	cis-1,2-Dichloroethene	70	MCL	ND
	Ethylbenzene	700	MCL	ND
	m,p-Xylene	--	--	ND
	Methylene chloride	5	MCL	ND
	o-Xylene	--	--	ND
	Styrene	100	MCL	ND
	Tetrachloroethene (PCE)	5	MCL	ND
	Toluene	1000	MCL	ND
	trans-1,2-Dichloroethene	100	MCL	ND
	Trichloroethene (TCE)	5	MCL	ND
	Vinyl chloride	2	MCL	ND
Xylenes, Total	10000	MCL	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND
	Chloroacetic acid	--	--	ND
	Dibromoacetic acid	--	--	ND
	Dichloroacetic acid	--	--	ND

**Summary of Chemistry Results  
 Zone I1 Long Term Monitoring  
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples Collected in May 2022 from Waiwa in Zone I1**

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§ - Exceeds Screening Level
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N (Grab, Resample) = Additional follow-up sample

<b>Location ID:</b>	I1-SHFTWAIA
<b>Location Type:</b>	Well
<b>Address:</b>	Waiawa Shaft
<b>Field Sample ID:</b>	I1-DL-0016021-22105-A
<b>Sample Date:</b>	2022-05-06
<b>Sample Type:</b>	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND
	Total Haloacetic acids	60	MCL	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND
	Bromoform	--	--	ND
	Chloroform	--	--	ND
	Dibromochloromethane	--	--	ND
	Total Trihalomethanes	80	MCL	ND