

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

Drinking Water Samples collected in January - June 2023 from Residences in Zone I1

Notes:
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
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N (Normal) = Full compliance sample
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N (Grab, Resample) = Additional follow-up sample

		Location ID:	I1-BASS1172	I1-BEAR1403	I1-BEAR1408	I1-BEAR1421	I1-CONI1746	I1-COWS1602	I1-COWS1646	I1-EAGL1324	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence	
		Address:	1172 Basswood Place	1403 Bear Circle	1408 Bear Circle	1421 Bear Circle	1746 Conifer Place	1602 Cowslip Lane	1646 Cowslip Lane	1324 Eagle Circle	
		Field Sample ID:	I1-TW-0014048-22315-A	I1-TW-0014050-22315-A	I1-TW-0014053-22315-A	I1-TW-0014054-22315-A	I1-TW-0014070-22315-A	I1-TW-0014072-22315-A	I1-TW-0014082-22315-A	I1-TW-0014089-22315-3-A	
		Sample Date:	2023-01-05	2023-04-06	2023-02-16	2023-04-06	2023-01-05	2023-04-06	2023-01-05	2023-01-05	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level								
Field Test (ppb)	Free Chlorine	4000	MCL	550	330	150	340	640	370	400	380
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	65.4	ND	55.2	ND	64.5	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	57.5	ND	60.4	ND	56.4	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	123	ND	116	ND	121	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	1.20	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	3.40	ND	ND	ND
	Barium	2000	MCL	4.20	3.40	4.00	3.40	6.20	3.40	4.40	4.10
	Beryllium	4	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	100	MCL	1.90	1.60	2.00	1.70	1.90	1.70	1.80	1.90
	Copper	1300	MCL	4.10	3.90	7.90	1.30	7.50	2.50	8.80	6.30
	Lead	15	MCL	ND	0.170	0.210	ND	0.240	0.450	0.300	0.130
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	ND	ND	ND	ND	2.60	ND	ND	ND
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	ND	ND
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND	ND	ND	ND

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		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence	
		Address:	1172 Basswood Place	1403 Bear Circle	1408 Bear Circle	1421 Bear Circle	1746 Conifer Place	1602 Cowslip Lane	1646 Cowslip Lane	1324 Eagle Circle	
		Field Sample ID:	I1-TW-0014048-22315 -A	I1-TW-0014050-22315 -A	I1-TW-0014053-22315 -A	I1-TW-0014054-22315 -A	I1-TW-0014070-22315 -A	I1-TW-0014072-22315 -A	I1-TW-0014082-22315 -A	I1-TW-0014089-22315 -3-A	
		Sample Date:	2023-01-05	2023-04-06	2023-02-16	2023-04-06	2023-01-05	2023-04-06	2023-01-05	2023-01-05	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level								
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 (Total)	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	0.320
	Methylene chloride	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND	ND	0.320	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	
	Dibromoacetic acid	--	--	ND	1.70	ND	1.60	ND	1.60	ND	
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	

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		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
		Address:	1172 Basswood Place	1403 Bear Circle	1408 Bear Circle	1421 Bear Circle	1746 Conifer Place	1602 Cowslip Lane	1646 Cowslip Lane	1324 Eagle Circle
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		Sample Date:	2023-01-05	2023-04-06	2023-02-16	2023-04-06	2023-01-05	2023-04-06	2023-01-05	2023-01-05
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level							
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	1.70	ND	1.60	ND	1.60	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	0.650	ND	0.750	ND	0.740	ND
	Bromoform	--	--	ND	6.00	ND	5.50	0.610	6.80	0.510
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	2.80	ND	2.90	0.410	3.20	0.280
	Total Trihalomethanes	80	MCL	ND	9.45	ND	9.15	1.02	10.7	0.750

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		Location ID:	I1-EAGL1324	I1-HUDS1262	I1-LAUR1912	I1-MADR1843	I1-PAPA1811	I1-SWEE1701		I1-SWEE1713	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence		Residence	
		Address:	1324 Eagle Circle	1262 Hudson Way	1912 Laurel Place	1843 Madrona Place	1811 Papaw Place	1701 Sweetgum Place		1713 Sweetgum Place	
		Field Sample ID:	I1-TW-0014089-22315 -A	I1-TW-0014099-22315 -A	I1-TW-0014107-22315 -A	I1-TW-0014115-22315 -A	I1-TW-0014120-22315 -A-R1	I1-TW-0014121-22315 -3-A	I1-TW-0014121-22315 -A	I1-TW-0014125-22315 -A	
		Sample Date:	2023-01-05	2023-03-28	2023-01-05	2023-01-05	2023-02-22	2023-03-28	2023-03-28	2023-01-05	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	380	330	500	420	250	330	330	290
Field Test (ppb)	Free Chlorine	4000	MCL	380	330	500	420	250	330	330	290
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	66.8	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	66.8	ND	ND	ND	ND	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	0.160	ND	ND	0.930
	Arsenic	10	MCL	ND	0.750	ND	ND	ND	0.660	0.540	3.10
	Barium	2000	MCL	4.30	3.40	4.30	4.30	3.90	3.40	3.40	5.60
	Beryllium	4	MCL	ND	ND	ND	ND	ND	ND	ND	0.250
	Cadmium	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	100	MCL	1.90	2.20	1.90	1.90	2.00	2.10	2.10	1.80
	Copper	1300	MCL	7.90	3.50	6.40	8.70	7.50	2.20	2.90	4.30
	Lead	15	MCL	0.130	0.180	0.150	ND	0.300	ND	ND	ND
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	ND	ND	ND	0.350	ND	ND	ND	1.80
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	ND	ND
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND	ND	ND	ND

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		Location ID:	I1-EAGL1324	I1-HUDS1262	I1-LAUR1912	I1-MADR1843	I1-PAPA1811	I1-SWEE1701		I1-SWEE1713
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence		Residence
		Address:	1324 Eagle Circle	1262 Hudson Way	1912 Laurel Place	1843 Madrona Place	1811 Papaw Place	1701 Sweetgum Place		1713 Sweetgum Place
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		Sample Date:	2023-01-05	2023-03-28	2023-01-05	2023-01-05	2023-02-22	2023-03-28	2023-03-28	2023-01-05
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	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	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 (Total)	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	ND	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND
	Dibromoacetic acid	--	--	ND	0.990	ND	ND	1.10	1.10	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND

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		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence		Residence	
		Address:	1324 Eagle Circle	1262 Hudson Way	1912 Laurel Place	1843 Madrona Place	1811 Papaw Place	1701 Sweetgum Place		1713 Sweetgum Place	
		Field Sample ID:	I1-TW-0014089-22315 -A	I1-TW-0014099-22315 -A	I1-TW-0014107-22315 -A	I1-TW-0014115-22315 -A	I1-TW-0014120-22315 -A-R1	I1-TW-0014121-22315 -3-A	I1-TW-0014121-22315 -A	I1-TW-0014125-22315 -A	
		Sample Date:	2023-01-05	2023-03-28	2023-01-05	2023-01-05	2023-02-22	2023-03-28	2023-03-28	2023-01-05	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	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	ND	
	Total Haloacetic acids	60	MCL	ND	0.990	ND	ND	ND	1.10	1.10	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	0.760	ND	ND	ND	0.770	0.730	0.960
	Bromoform	--	--	ND	7.10	0.820	0.660	ND	7.80	7.80	6.00
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	3.20	0.580	0.410	ND	3.30	3.10	4.20
	Total Trihalomethanes	80	MCL	ND	11.1	1.40	1.07	ND	11.9	11.6	11.2

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Location ID:	I1-TAMP1561
Location Type:	Residence
Address:	1561 Tampa Drive
Field Sample ID:	I1-TW-0014017-22315 -A
Sample Date:	2023-01-05
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Result
Field Test (ppb)	Free Chlorine	4000	MCL	550
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	57.9
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND
	Petroleum Hydrocarbons, Total	266	ISP	57.9
Metals (ppb)	Antimony	6	MCL	ND
	Arsenic	10	MCL	ND
	Barium	2000	MCL	4.30
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	1.90
	Copper	1300	MCL	6.20
	Lead	15	MCL	ND
	Mercury	2	MCL	ND
	Selenium	50	MCL	ND
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

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Location Type:	Residence
Address:	1561 Tampa Drive
Field Sample ID:	I1-TW-0014017-22315 -A
Sample Date:	2023-01-05
Sample Type:	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 (Total)	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 January - June 2023 from Residences in Zone I1

Notes:
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-TAMP1561
Location Type:	Residence
Address:	1561 Tampa Drive
Field Sample ID:	I1-TW-0014017-22315 -A
Sample Date:	2023-01-05
Sample Type:	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

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

Drinking Water Samples collected in January - June 2023 from Schools in Zone I1

Notes:
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
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N (Normal) = Full compliance sample
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N (Grab, Resample) = Additional follow-up sample

		Location ID:		I1-ALAK1265				
		Location Type:		School				
		Address:		Red Hill Elementary School, 1265 Ala Kula Place				
		Field Sample ID:		I1-TW-0011966-22315 -A-1	I1-TW-0011966-22315 -A-2	I1-TW-0011966-22315 -A-3	I1-TW-0011966-22315 -A-4	I1-TW-0011966-22315 -A-5
		Sample Date:		2023-02-16	2023-02-16	2023-02-16	2023-02-16	2023-02-16
		Sample Type:		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	320-380	320-380	320-380	320-380	320-380
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	53.6	62.7	57.9	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	53.6	62.7	57.9	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND
	Barium	2000	MCL	3.50	3.40	3.40	3.40	3.40
	Beryllium	4	MCL	ND	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND	ND
	Chromium	100	MCL	1.60	1.60	1.70	1.60	1.60
	Copper	1300	MCL	14.7	24.7	19.6	27.7	29.9
	Lead	15	MCL	ND	ND	ND	ND	ND
	Mercury	2	MCL	ND	ND	ND	ND	ND
	Selenium	50	MCL	ND	ND	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

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

Drinking Water Samples collected in January - June 2023 from Schools in Zone I1

Notes:
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§ - Exceeds Screening Level
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N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample

		Location ID:	I1-ALAK1265					
		Location Type:	School					
		Address:	Red Hill Elementary School, 1265 Ala Kula Place					
		Field Sample ID:	I1-TW-0011966-22315 -A-1	I1-TW-0011966-22315 -A-2	I1-TW-0011966-22315 -A-3	I1-TW-0011966-22315 -A-4	I1-TW-0011966-22315 -A-5	
		Sample Date:	2023-02-16	2023-02-16	2023-02-16	2023-02-16	2023-02-16	
		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 (Total)	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	--	--	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	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 January - June 2023 from Schools in Zone I1

Notes:
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EAL = DOH Environmental Action Level
EPA MCL = EPA Maximum Contaminant Level
All Results shown in Parts per Billion (ppb)
§ - Exceeds Screening Level
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N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample

				Location ID: I1-ALAK1265				
				Location Type: School				
				Address: Red Hill Elementary School, 1265 Ala Kula Place				
				Field Sample ID: I1-TW-0011966-22315 -A-1	I1-TW-0011966-22315 -A-2	I1-TW-0011966-22315 -A-3	I1-TW-0011966-22315 -A-4	I1-TW-0011966-22315 -A-5
				Sample Date: 2023-02-16	2023-02-16	2023-02-16	2023-02-16	2023-02-16
				Sample Type: 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)	Dibromoacetic acid	--	--	ND	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	ND	1.20	1.30	1.30	1.30
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.990	0.950	0.980	1.00	0.960
	Bromoform	--	--	6.50	6.30	6.40	6.60	6.20
	Chloroform	--	--	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	3.40	3.40	3.60	3.60	3.50
	Total Trihalomethanes	80	MCL	10.9	10.7	11.0	11.2	10.7

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

Drinking Water Samples collected in January - June 2023 from Fire Hydrants in Zone I1

Notes:
ND = Not Detected
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EAL = DOH Environmental Action Level
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All Results shown in Parts per Billion (ppb)
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-- = 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-HYD1324A	
		Location Type:		Hydrant	
		Address:		HYD-1324A	
		Field Sample ID:		I1-DL-0000642-22315-3-A	I1-DL-0000642-22315-A
		Sample Date:		2023-02-16	2023-02-16
		Sample Type:		FD (Field Duplicate)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Field Test (ppb)	Free Chlorine	4000	MCL	900	900
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	65.3	67.3
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	65.3	67.3
Metals (ppb)	Antimony	6	MCL	ND	ND
	Arsenic	10	MCL	ND	ND
	Barium	2000	MCL	4.60	4.60
	Beryllium	4	MCL	ND	ND
	Cadmium	5	MCL	ND	ND
	Chromium	100	MCL	1.90	2.00
	Mercury	2	MCL	ND	ND
	Selenium	50	MCL	ND	ND
	Thallium	2	MCL	ND	ND
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	10	EAL	ND	ND
	2-Methylnaphthalene	10	EAL	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND
	Naphthalene	17	EAL	ND	ND
Volatile Organic Compounds (ppb)	1,1,1-Trichloroethane	--	--	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND
	1,1-Dichloroethene	7	MCL	ND	ND
	1,2,4-Trichlorobenzene	70	MCL	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	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 January - June 2023 from Fire Hydrants in Zone I1

Notes:
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EAL = DOH Environmental Action Level
EPA MCL = EPA Maximum Contaminant Level
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-- = 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-HYD1324A	
Location Type:	Hydrant	
Address:	HYD-1324A	
Field Sample ID:	I1-DL-0000642-22315-3-A	I1-DL-0000642-22315-A
Sample Date:	2023-02-16	2023-02-16
Sample Type:	FD (Field Duplicate)	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Volatile Organic Compounds (ppb)	1,2-Dichloroethane	5	MCL	ND	ND
	1,2-Dichloroethene (Total)	70	MCL	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND
	Benzene	5	MCL	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND
	Chlorobenzene	100	MCL	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND
	Ethylbenzene	700	MCL	ND	ND
	m,p-Xylene	--	--	ND	ND
	Methylene chloride	5	MCL	ND	ND
	o-Xylene	--	--	ND	ND
	Styrene	100	MCL	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND
	Toluene	1000	MCL	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND
	Vinyl chloride	2	MCL	ND	ND
	Xylenes, Total	10000	MCL	ND	ND
	Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND
Chloroacetic acid		--	--	ND	ND
Dibromoacetic acid		--	--	ND	ND
Dichloroacetic acid		--	--	ND	ND
Trichloroacetic acid		--	--	ND	ND
Total Haloacetic acids		60	MCL	ND	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 January - June 2023 from Fire Hydrants in Zone I1

Notes:
ND = Not Detected
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N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample

Location ID:	I1-HYD1324A	
Location Type:	Hydrant	
Address:	HYD-1324A	
Field Sample ID:	I1-DL-0000642-22315-3-A	I1-DL-0000642-22315-A
Sample Date:	2023-02-16	2023-02-16
Sample Type:	FD (Field Duplicate)	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Trihalomethanes (ppb)	Bromodichloromethane	--	--	1.80	1.80
	Bromoform	--	--	4.30	4.00
	Chloroform	--	--	0.590	0.600
	Dibromochloromethane	--	--	3.90	4.00
	Total Trihalomethanes	80	MCL	10.6	10.4