

**Summary of Chemistry Results  
Zone G1 Long Term Monitoring  
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples collected in June-December 2022 from Residences in Zone G1**

<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
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N (Normal) = Full compliance sample
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<b>Location ID:</b>	G1-ANDE0749
<b>Location Type:</b>	Residence
<b>Address:</b>	749 Anderson Road
<b>Field Sample ID:</b>	G1-TW-0009357-22152-N
<b>Sample Date:</b>	2022-09-28
<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	330
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	266	ISP	ND
Metals (ppb)	Antimony	6	MCL	ND
	Arsenic	10	MCL	ND
	Barium	2000	MCL	2.70
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	1.70
	Copper	1300	MCL	199
	Lead	15	MCL	1.80
	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
	1,1-Dichloroethene	7	MCL	ND

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<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 (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

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<b>Location Type:</b>	Residence
<b>Address:</b>	749 Anderson Road
<b>Field Sample ID:</b>	G1-TW-0009357-22152-N
<b>Sample Date:</b>	2022-09-28
<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	--	--	0.290
	Bromoform	--	--	3.20
	Chloroform	--	--	ND
	Dibromochloromethane	--	--	1.00
	Total Trihalomethanes	80	MCL	4.49

**Summary of Chemistry Results  
Zone G1 Long Term Monitoring  
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples collected in June-December 2022 from Other Buildings in Zone G1**

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	G1-BLDG005A		G1-BLDG0600	G1-BLDG0601A	G1-BLDG0700
				Location Type:	Location Type:		Location Type:	Location Type:	Location Type:
				Address:	Address:		Address:	Address:	Address:
				Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:
				Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:
				Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:
				G1-BLDG003A	G1-BLDG005A		G1-BLDG0600	G1-BLDG0601A	G1-BLDG0700
				Non-Residence	Non-Residence		Non-Residence	Non-Residence	Non-Residence
				Building 3A, STG AIR.GRD ORG UTS MARCOR	Building 5A, MISC UTILITY BLDG		Building 600, PUBLIC WORKS SHOP	Building 601A, ARMORY	Building 700,INDOPACOM
				G1-TW-0017548- 22152-N	G1-TW-0017551- 22152-3-N	G1-TW-0017551- 22152-N	G1-TW-0017536- 22152-N	G1-TW-0017552- 22152-N	G1-TW-0015393- 22152-N
				2022-09-29	2022-11-02	2022-11-02	2022-08-01	2022-08-02	2022-08-01
				N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Field Test (ppb)	Free Chlorine	4000	MCL	100	260	260	60.0	50.0	250
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	52.3	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	55.4	ND	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND	55.4	ND	52.3	ND
Metals (ppb)	Antimony	6	MCL	ND	0.150	0.500	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	2.50	3.90	3.90	5.60	4.20	2.60
	Beryllium	4	MCL	ND	ND	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND	ND	ND
	Chromium	100	MCL	1.70	2.00	2.00	1.60	1.50	1.40
	Copper	1300	MCL	14.0	25.7	25.3	49.4	17.4	32.6
	Lead	15	MCL	ND	0.160	0.190	0.760	8.00	0.190
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	ND	0.330	ND	ND	ND	0.770
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND	ND
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND	0.0120	ND	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	ND

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**Drinking Water Samples collected in June-December 2022 from Other Buildings in Zone G1**

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	G1-BLDG005A		G1-BLDG0600	G1-BLDG0601A	G1-BLDG0700	
				Location Type:	Non-Residence		Non-Residence	Non-Residence	Non-Residence	
				Address:	Building 5A, MISC UTILITY BLDG		Building 600, PUBLIC WORKS SHOP	Building 601A, ARMORY	Building 700,INDOPACOM	
				Field Sample ID:	G1-TW-0017548-22152-N	G1-TW-0017551-22152-3-N	G1-TW-0017551-22152-N	G1-TW-0017536-22152-N	G1-TW-0017552-22152-N	G1-TW-0015393-22152-N
				Sample Date:	2022-09-29	2022-11-02	2022-11-02	2022-08-01	2022-08-02	2022-08-01
				Sample Type:	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Volatile Organic Compounds (ppb)	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND	ND	
	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND	ND	ND	ND	
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND	ND	ND	
	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	
	1,2-Dichloroethene (Total)	70	MCL	ND	ND	ND	ND	ND	ND	
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND	ND	ND	
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND	ND	ND	
	Benzene	5	MCL	ND	ND	ND	ND	ND	ND	
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND	ND	ND	
	Chlorobenzene	100	MCL	ND	ND	ND	ND	ND	ND	
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND	
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND	ND	
	m,p-Xylene	--	--	ND	ND	ND	ND	ND	ND	
	Methylene chloride	5	MCL	ND	ND	ND	ND	ND	ND	
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND	
	Styrene	100	MCL	ND	ND	ND	ND	ND	ND	
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND	ND	ND	
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND	
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND	ND	ND	
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND	ND	ND	
Vinyl chloride	2	MCL	ND	ND	ND	ND	ND	ND		
Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND		
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	ND	ND	ND	ND	
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	G1-BLDG005A		G1-BLDG0600	G1-BLDG0601A	G1-BLDG0700	
				Location Type:	Non-Residence		Non-Residence	Non-Residence	Non-Residence	
				Address:	Building 5A, MISC UTILITY BLDG		Building 600, PUBLIC WORKS SHOP	Building 601A, ARMORY	Building 700, INDOPACOM	
				Field Sample ID:	G1-TW-0017548-22152-N	G1-TW-0017551-22152-3-N	G1-TW-0017551-22152-N	G1-TW-0017536-22152-N	G1-TW-0017552-22152-N	G1-TW-0015393-22152-N
				Sample Date:	2022-09-29	2022-11-02	2022-11-02	2022-08-01	2022-08-02	2022-08-01
				Sample Type:	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Haloacetic Acids (ppb)	Dibromoacetic acid	--	--	ND	1.20	1.00	1.90	1.80	ND	
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	
	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	
	Total Haloacetic acids	60	MCL	ND	1.20	1.00	1.90	1.80	ND	
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	0.680	0.730	0.500	0.610	ND	
	Bromoform	--	--	1.70	3.10	3.30	13.1	21.7	1.70	
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	
	Dibromochloromethane	--	--	0.830	2.10	2.10	2.40	3.20	0.810	
	Total Trihalomethanes	80	MCL	2.53	5.88	6.13	16.0	25.5	2.51	

**Summary of Chemistry Results  
Zone G1 Long Term Monitoring  
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

**Drinking Water Samples collected in June-December 2022 from Fire Hydrants in Zone G1**

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<b>Location ID:</b>	G1-HYD879
<b>Location Type:</b>	Hydrant
<b>Address:</b>	FH ID: 3
<b>Field Sample ID:</b>	G1-DL-0000616-22152-N
<b>Sample Date:</b>	2022-09-28
<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	450
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	266	ISP	ND
Metals (ppb)	Antimony	6	MCL	ND
	Arsenic	10	MCL	ND
	Barium	2000	MCL	2.90
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	1.70
	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
	1,1-Dichloroethene	7	MCL	ND
	1,2,4-Trichlorobenzene	70	MCL	ND
	1,2-Dichlorobenzene	600	MCL	ND

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<b>Location Type:</b>	Hydrant
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<b>Sample Date:</b>	2022-09-28
<b>Sample Type:</b>	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Volatile Organic Compounds (ppb)	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	--	--
Chloroacetic acid		--	--	ND
Dibromoacetic acid		--	--	ND
Dichloroacetic acid		--	--	ND
Trichloroacetic acid		--	--	ND
Total Haloacetic acids		60	MCL	ND

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<b>Sample Date:</b>	2022-09-28
<b>Sample Type:</b>	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND
	Bromoform	--	--	1.80
	Chloroform	--	--	ND
	Dibromochloromethane	--	--	0.890
	Total Trihalomethanes	80	MCL	2.69