

Summary of Chemistry Results
Zone E1
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

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), with the exception of Field and Bacterial Test results
Parts per Million (ppm)
Parts per Thousand (ppth)
§ - Exceeds Screening Level
-- = No Information Available
N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
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MPN/mL = Most probable number per milliliter

Drinking Water Samples Collected in July 2024 from Schools in Zone E1

				Location ID: E1-BLDG0364						
				Location Type: School						
				Address: HALE KEIKI SCHOOL, 153 Bougainville Dr, Building 364						
				Field Sample ID:	E1-TW-0015244-24183-N-1	E1-TW-0015244-24183-N-3	E1-TW-0015244-24183-N-2	E1-TW-0015244-24183-N-4	E1-TW-0015244-24183-N-5	E1-TW-0015244-24183-N-5-H
				Sample Date:	2024-07-05	2024-07-05	2024-07-05	2024-07-05	2024-07-26	2024-07-26
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level							
Bacterial Test (in 100 mL)	Coliform	--	--	Absent	Absent	Absent	Absent	Absent	Absent	--
	E. coli	--	--	Absent	Absent	Absent	Absent	Absent	Absent	--
Bacterial Test (MPN/mL)	Heterotrophic Plate Count	--	--	ND	ND	ND	ND	ND	ND	ND
Field Test (ppb)	Free Chlorine	4000	MCL	330	480	260	440	330	350	
Field Test (pH)	pH	--	--	7.24	7.09	7.22	7.21	7.25	7.33	
Field Test (ms/cm)	Specific Conductivity	--	--	0.290	0.260	0.280	0.260	0.210	0.210	
Field Test (degrees Celcius)	Temperature	--	--	27.2	26.6	26.1	25.8	26.7	26.7	
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.00	0.220	0.110	0.390	0.490	0.480	
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	51500	51400	53600	53600	56100	--	
	Total Organic Carbon	--	--	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 Oil)	--	--	ND	ND	ND	ND	ND	--	
	Petroleum Hydrocarbons, Total	--	--	ND	ND	ND	ND	ND	--	
Metals (ppb)	Copper	1300	MCL	7.20	26.6	12.1	13.3	30.1	--	
	Lead	15	MCL	ND	0.160	0.130	0.260	0.250	--	
	Mercury	2	MCL	ND	ND	ND	ND	ND	--	
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	ND	ND	ND	ND	--	
	2-Methylnaphthalene	--	--	ND	ND	ND	ND	ND	--	
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	--	
	Naphthalene	--	--	ND	ND	ND	ND	ND	--	

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				Sample Date:	2024-07-05	2024-07-05	2024-07-05	2024-07-05	2024-07-26	2024-07-26
				Sample Type:	N (Normal)	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)	1,2,4-Trimethylbenzene	--	--	ND	ND	ND	ND	ND	ND	--
	1,3,5-Trimethylbenzene	--	--	ND	ND	ND	ND	ND	ND	--
	Benzene	5	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	--
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND	--
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND	--
	Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND	--
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND	ND	--
	Bromoform	--	--	0.470	0.310	0.700	0.520	0.350		--
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	--
	Dibromochloromethane	--	--	0.290	ND	0.410	0.320	0.250		--
	Total Trihalomethanes	80	MCL	0.760	0.310	1.11	0.840	0.600		--

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Drinking Water Samples Collected in July 2024 from Child Development Centers in Zone E1

		Location ID:	E1-BLDG0081		
		Location Type:	Child Development Center		
		Address:	Building 81,CHILD CARE CTR/CPF PAO Montessori Center, 45 Makalapa Drive		
		Field Sample ID:	E1-TW-0015290- 24183-N-1	E1-TW-0015290- 24183-N-2	
		Sample Date:	2024-07-01	2024-07-01	
		Sample Type:	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Bacterial Test (in 100 mL)	Coliform	--	--	Absent	Absent
	E. coli	--	--	Absent	Absent
Bacterial Test (MPN/mL)	Heterotrophic Plate Count	--	--	ND	ND
Field Test (ppb)	Free Chlorine	4000	MCL	320	330
Field Test (pH)	pH	--	--	7.34	7.49
Field Test (ms/cm)	Specific Conductivity	--	--	0.280	0.250
Field Test (degrees Celcius)	Temperature	--	--	26.4	26.1
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.910	0.480
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	51000	51000
	Total Organic Carbon	--	--	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND
	Petroleum Hydrocarbons, Total	--	--	ND	ND
Metals (ppb)	Copper	1300	MCL	9.30	12.7
	Lead	15	MCL	ND	ND
	Mercury	2	MCL	ND	ND
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	ND
	2-Methylnaphthalene	--	--	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND

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		Field Sample ID:	E1-TW-0015290- 24183-N-1	E1-TW-0015290- 24183-N-2	
		Sample Date:	2024-07-01	2024-07-01	
		Sample Type:	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Synthetic Organic Compounds (ppb)	Naphthalene	--	--	ND	ND
Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--	ND	ND
	1,3,5-Trimethylbenzene	--	--	ND	ND
	Benzene	5	MCL	ND	ND
	Ethylbenzene	700	MCL	ND	ND
	m,p-Xylene	--	--	ND	ND
	o-Xylene	--	--	ND	ND
	Toluene	1000	MCL	ND	ND
	Xylenes, Total	10000	MCL	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND
	Bromoform	--	--	ND	ND
	Chloroform	--	--	ND	ND
	Dibromochloromethane	--	--	ND	ND
	Total Trihalomethanes	80	MCL	ND	ND

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Drinking Water Samples Collected in July 2024 from Hydrants in Zone E1

		Location ID:		E1-HYD1081		E1-HYD1216	E1-HYD2249	E1-HYD2250
		Location Type:		Hydrant		Hydrant	Hydrant	Hydrant
		Address:		Hydrant 920		FH 1216	FH ID: 933	FH 2250
		Field Sample ID:		E1-DL-0017787-24183	E1-DL-0017787-24183	E1-DL-0017799-24183	E1-DL-0000589-24183	E1-DL-0017800-24183
				-N	-N-R1	-N	-N	-N
		Sample Date:		2024-07-26	2024-07-31	2024-07-26	2024-07-26	2024-07-26
		Sample Type:		N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level					
Bacterial Test (in 100 mL)	Coliform	--	--	Absent	Absent	Absent	Absent	Absent
	E. coli	--	--	Absent	Absent	Absent	Absent	Absent
Bacterial Test (MPN/mL)	Heterotrophic Plate Count	--	--	738	ND	2.00	ND	ND
Field Test (ppb)	Free Chlorine	4000	MCL	30.0	630	20.0	500	380
Field Test (pH)	pH	--	--	8.23	7.34	8.33	7.41	7.39
Field Test (ms/cm)	Specific Conductivity	--	--	0.230	0.260	0.240	0.210	0.210
Field Test (degrees Celcius)	Temperature	--	--	26.2	24.2	27.3	28.0	27.3
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.690	0.930	0.880	0.990	1.00
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	75900	--	73200	58500	56400
	Total Organic Carbon	--	--	300	--	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	--	ND	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	--	ND	ND	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND	--	ND	ND	ND
	Petroleum Hydrocarbons, Total	--	--	ND	--	ND	ND	ND
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	--	ND	ND	ND
	2-Methylnaphthalene	--	--	ND	--	ND	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	--	ND	ND	ND
	Naphthalene	--	--	ND	--	ND	ND	ND
Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--	ND	--	ND	ND	ND
	1,3,5-Trimethylbenzene	--	--	ND	--	ND	ND	ND
	Benzene	5	MCL	ND	--	ND	ND	ND
	Ethylbenzene	700	MCL	ND	--	ND	ND	ND
	m,p-Xylene	--	--	ND	--	ND	ND	ND

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		Location ID:		E1-HYD1081		E1-HYD1216	E1-HYD2249	E1-HYD2250
		Location Type:		Hydrant		Hydrant	Hydrant	Hydrant
		Address:		Hydrant 920		FH 1216	FH ID: 933	FH 2250
		Field Sample ID:		E1-DL-0017787-24183	E1-DL-0017787-24183	E1-DL-0017799-24183	E1-DL-0000589-24183	E1-DL-0017800-24183
				-N	-N-R1	-N	-N	-N
		Sample Date:		2024-07-26	2024-07-31	2024-07-26	2024-07-26	2024-07-26
		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)	o-Xylene	--	--	ND	--	ND	ND	ND
	Toluene	1000	MCL	ND	--	ND	ND	ND
	Xylenes, Total	10000	MCL	ND	--	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.610	--	1.50	ND	ND
	Bromoform	--	--	4.30	--	13.8	ND	ND
	Chloroform	--	--	ND	--	0.390	ND	ND
	Dibromochloromethane	--	--	1.90	--	4.90	ND	ND
	Total Trihalomethanes	80	MCL	6.81	--	20.6	ND	ND