

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
N (Grab, Resample) = Additional follow-up sample
MPN/mL = Most probable number per milliliter

Drinking Water Samples Collected in October 2024 - December 2024 from Residences in Zone E1

			Location ID:	E1-MAKA0039
			Location Type:	Residence
			Address:	39 Makalapa Drive
			Field Sample ID:	E1-TW-0000363-24092-N
			Sample Date:	2024-12-05
			Sample Type:	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Field Test (ppb)	Free Chlorine	4000	MCL	630
Field Test (pH)	pH	--	--	7.17
Field Test (ms/cm)	Specific Conductivity	--	--	0.250
Field Test (degrees Celcius)	Temperature	--	--	24.7
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.00
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	57800
	Total Organic Carbon	--	--	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND
	Petroleum Hydrocarbons, Total	--	--	ND
Metals (ppb)	Copper	1300	MCL	28.1
	Lead	15	MCL	0.370
	Mercury	2	MCL	ND
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND
	2-Methylnaphthalene	--	--	ND
	Acenaphthylene	--	--	ND
	Anthracene	--	--	ND
	Benzo(a)pyrene	0.2	MCL	ND
	Benzo(b)fluoranthene	--	--	ND
	Benzo(g,h,i)perylene	--	--	ND
Benzo(k)fluoranthene	--	--	ND	

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Drinking Water Samples Collected in October 2024 - December 2024 from Residences in Zone E1

		Location ID:	E1-MAKA0039
		Location Type:	Residence
		Address:	39 Makalapa Drive
		Field Sample ID:	E1-TW-0000363-24092-N
		Sample Date:	2024-12-05
		Sample Type:	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level
Synthetic Organic Compounds (ppb)	Chrysene	--	--
	Dibenz(a,h)anthracene	--	--
	Fluorene	--	--
	Indeno(1,2,3-c,d)pyrene	--	--
	Naphthalene	--	--
	Phenanthrene	--	--
	Pyrene	--	--
Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--
	1,3,5-Trimethylbenzene	--	--
	Benzene	5	MCL
	Cumene	--	--
	Ethylbenzene	700	MCL
	m,p-Xylene	--	--
	n-Butylbenzene	--	--
	n-Propylbenzene	--	--
	o-Xylene	--	--
	sec-Butylbenzene	--	--
	tert-Butylbenzene	--	--
	Toluene	1000	MCL
Xylenes, Total	10000	MCL	
Trihalomethanes (ppb)	Bromodichloromethane	--	--
	Bromoform	--	--
			0.430

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		Location Type:	Residence
		Address:	39 Makalapa Drive
		Field Sample ID:	E1-TW-0000363-24092-N
		Sample Date:	2024-12-05
		Sample Type:	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level
Trihalomethanes (ppb)	Chloroform	--	--
	Dibromochloromethane	--	--
	Total Trihalomethanes	80	MCL
			ND
			0.320
			0.750

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Drinking Water Samples Collected in October 2024 - December 2024 from Schools in Zone E1

				E1-BLDG0364								
				School								
				HALE KEIKI SCHOOL, 153 Bougainville Dr, Building 364								
				Field Sample ID:	E1-TW-0015244-24275-N-1	E1-TW-0015244-24275-N-2	E1-TW-0015244-24275-N-3	E1-TW-0015244-24275-N-4	E1-TW-0015244-24275-N-4-H	E1-TW-0015244-24275-N-5	E1-TW-0015244-24275-N-5-H	E1-TW-0015244-24306-N-3
				Sample Date:	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-11-06
				Sample Type:	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	--	--	1.00	ND	96.0	15.0	75.0	10.0	5.00	--	--
Field Test (ppb)	Free Chlorine	4000	MCL	540	500	430	430	490	420	450	960	960
Field Test (pH)	pH	--	--	7.24	7.26	7.33	7.45	7.49	7.37	7.45	7.29	7.29
Field Test (ms/cm)	Specific Conductivity	--	--	0.250	0.250	0.270	0.270	0.260	0.260	0.270	0.410	0.410
Field Test (degrees Celcius)	Temperature	--	--	25.6	25.5	26.4	26.1	24.8	27.4	25.6	27.5	27.5
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.510	0.0490	0.830	0.410	0.00	0.00	0.00	0.00	0.00
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	57100	58800	58200	56400	--	56400	--	56100	56100
	Total Organic Carbon	--	--	ND	ND	ND	ND	--	ND	--	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	--	ND	--	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	--	ND	--	ND	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND	ND	ND	--	ND	--	ND	ND
	Petroleum Hydrocarbons, Total	--	--	ND	ND	ND	ND	--	ND	--	ND	ND
Metals (ppb)	Copper	1300	MCL	7.70	8.10	18.4	7.50	--	23.3	--	18.4	18.4
	Lead	15	MCL	ND	0.140	0.130	0.140	--	0.180	--	0.140	0.140
	Mercury	2	MCL	ND	ND	ND	ND	--	ND	--	ND	ND
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	ND	ND	ND	--	ND	--	ND	ND
	2-Methylnaphthalene	--	--	ND	ND	ND	ND	--	ND	--	ND	ND
	Acenaphthylene	--	--	ND	ND	ND	ND	--	ND	--	ND	ND
	Anthracene	--	--	ND	ND	ND	ND	--	ND	--	ND	ND

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				E1-BLDG0364								
				School								
				HALE KEIKI SCHOOL, 153 Bougainville Dr, Building 364								
				Field Sample ID:	E1-TW-0015244-24275-N-1	E1-TW-0015244-24275-N-2	E1-TW-0015244-24275-N-3	E1-TW-0015244-24275-N-4	E1-TW-0015244-24275-N-4-H	E1-TW-0015244-24275-N-5	E1-TW-0015244-24275-N-5-H	E1-TW-0015244-24306-N-3
				Sample Date:	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-11-06
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)				
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level									
Synthetic Organic Compounds (ppb)	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	--	ND	--	ND	
	Benzo(b)fluoranthene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	Benzo(g,h,i)perylene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	Benzo(k)fluoranthene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	Chrysene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	Dibenz(a,h)anthracene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	Fluorene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	Indeno(1,2,3-c,d)pyrene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	Naphthalene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	Phenanthrene	--	--	ND	ND	ND	ND	--	ND	--	ND	
Volatile Organic Compounds (ppb)	Pyrene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	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	
	Cumene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	Ethylbenzene	700	MCL	ND	ND	ND	ND	--	ND	--	ND	
	m,p-Xylene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	n-Butylbenzene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	n-Propylbenzene	--	--	ND	ND	ND	ND	--	ND	--	ND	
	o-Xylene	--	--	ND	ND	ND	ND	--	ND	--	ND	
sec-Butylbenzene	--	--	ND	ND	ND	ND	--	ND	--	ND		

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				Sample Date:	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-11-06
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)				
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level									
Volatile Organic Compounds (ppb)	tert-Butylbenzene	--	--	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	--	--	0.970	0.500	0.580	0.420	--	0.550	--	0.590	
	Chloroform	--	--	ND	ND	ND	ND	--	ND	--	ND	
	Dibromochloromethane	--	--	0.500	0.320	0.290	0.280	--	0.300	--	0.500	
	Total Trihalomethanes	80	MCL	1.47	0.820	0.870	0.700	--	0.850	--	1.09	

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				Sample Date:	2024-11-06	2024-11-06	2024-11-06	2024-11-06	2024-11-06	2024-12-11	2024-12-11	2024-12-11
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	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	1000	1010	1000	870	--	820	830	570	
Field Test (pH)	pH	--	--	7.38	7.28	7.32	7.36	--	7.29	7.32	7.22	
Field Test (ms/cm)	Specific Conductivity	--	--	0.260	0.280	0.260	0.260	--	0.240	0.240	0.250	
Field Test (degrees Celcius)	Temperature	--	--	25.8	24.9	26.9	27.0	--	24.6	24.8	26.8	
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.330	0.400	0.0340	0.120	--	0.380	0.0640	0.440	
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	57000	58300	61000	56300	58600	59900	57800	57200	
	Total Organic Carbon	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons, Total	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
Metals (ppb)	Copper	1300	MCL	10.6	7.50	19.3	45.3	18.7	5.90	7.40	21.5	
	Lead	15	MCL	0.130	0.140	1.00	0.270	0.160	ND	0.160	0.160	
	Mercury	2	MCL	0.0460	0.0290	ND	0.0280	ND	ND	ND	ND	
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	2-Methylnaphthalene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	Acenaphthylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	Anthracene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	ND	ND	ND	
	Benzo(b)fluoranthene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	Benzo(g,h,i)perylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	

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				Sample Date:	2024-11-06	2024-11-06	2024-11-06	2024-11-06	2024-11-06	2024-12-11	2024-12-11	2024-12-11
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level									
Synthetic Organic Compounds (ppb)	Benzo(k)fluoranthene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chrysene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibenz(a,h)anthracene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Fluorene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Indeno(1,2,3-c,d)pyrene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Naphthalene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Phenanthrene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Pyrene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3,5-Trimethylbenzene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cumene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	n-Butylbenzene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	n-Propylbenzene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	sec-Butylbenzene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND

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				Sample Date:	2024-11-06	2024-11-06	2024-11-06	2024-11-06	2024-11-06	2024-12-11	2024-12-11	2024-12-11
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level									
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	--	--	0.540	0.420	0.520	0.350	0.560	0.600	0.530	0.840	
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	0.450	0.370	0.400	0.310	0.500	0.330	0.310	0.480	
	Total Trihalomethanes	80	MCL	0.990	0.790	0.920	0.660	1.06	0.930	0.840	1.32	

Summary of Chemistry Results

Zone E1

Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

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Parts per Million (ppm)
Parts per Thousand (ppth)
§ - Exceeds Screening Level
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Drinking Water Samples Collected in October 2024 - December 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-0015244-24336-N-4	E1-TW-0015244-24336-N-5	
		Sample Date:	2024-12-11	2024-12-11	
		Sample Type:	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Field Test (ppb)	Free Chlorine	4000	MCL	640	590
Field Test (pH)	pH	--	--	7.31	7.28
Field Test (ms/cm)	Specific Conductivity	--	--	0.250	0.250
Field Test (degrees Celcius)	Temperature	--	--	25.2	23.9
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.430	0.930
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	58100	57900
	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	10.4	24.1
	Lead	15	MCL	0.130	0.150
	Mercury	2	MCL	ND	ND
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	ND
	2-Methylnaphthalene	--	--	ND	ND
	Acenaphthylene	--	--	ND	ND
	Anthracene	--	--	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND
	Benzo(b)fluoranthene	--	--	ND	ND
	Benzo(g,h,i)perylene	--	--	ND	ND

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

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Drinking Water Samples Collected in October 2024 - December 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-0015244-24336-N-4	E1-TW-0015244-24336-N-5	
		Sample Date:	2024-12-11	2024-12-11	
		Sample Type:	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Synthetic Organic Compounds (ppb)	Benzo(k)fluoranthene	--	--	ND	ND
	Chrysene	--	--	ND	ND
	Dibenz(a,h)anthracene	--	--	ND	ND
	Fluorene	--	--	ND	ND
	Indeno(1,2,3-c,d)pyrene	--	--	ND	ND
	Naphthalene	--	--	ND	ND
	Phenanthrene	--	--	ND	ND
	Pyrene	--	--	ND	ND
Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--	ND	ND
	1,3,5-Trimethylbenzene	--	--	ND	ND
	Benzene	5	MCL	ND	ND
	Cumene	--	--	ND	ND
	Ethylbenzene	700	MCL	ND	ND
	m,p-Xylene	--	--	ND	ND
	n-Butylbenzene	--	--	ND	ND
	n-Propylbenzene	--	--	ND	ND
	o-Xylene	--	--	ND	ND
	sec-Butylbenzene	--	--	ND	ND
	tert-Butylbenzene	--	--	ND	ND
	Toluene	1000	MCL	ND	ND
	Xylenes, Total	10000	MCL	ND	ND

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

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Drinking Water Samples Collected in October 2024 - December 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-0015244-24336-N-4	E1-TW-0015244-24336-N-5	
		Sample Date:	2024-12-11	2024-12-11	
		Sample Type:	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND
	Bromoform	--	--	0.550	0.860
	Chloroform	--	--	ND	ND
	Dibromochloromethane	--	--	0.320	0.530
	Total Trihalomethanes	80	MCL	0.870	1.39

Summary of Chemistry Results

Zone E1

Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

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Drinking Water Samples Collected in October 2024 - December 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-0015290-24275-N-1	E1-TW-0015290-24275-N-2	E1-TW-0015290-24306-N-1	E1-TW-0015290-24306-N-2	E1-TW-0015290-24336-N-1	E1-TW-0015290-24336-N-2
				Sample Date:	2024-10-02	2024-10-02	2024-11-06	2024-11-06	2024-12-05	2024-12-05
				Sample Type:	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	--	--	2.00	2.00	--	--	--	--	--
Field Test (ppb)	Free Chlorine	4000	MCL	320	180	80.0	440	530	830	
Field Test (pH)	pH	--	--	7.12	7.38	7.39	7.33	7.28	7.34	
Field Test (ms/cm)	Specific Conductivity	--	--	0.270	0.270	0.260	0.280	0.290	0.290	
Field Test (degrees Celcius)	Temperature	--	--	27.8	28.1	31.0	34.8	34.1	26.7	
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.00	0.00	0.450	1.34	0.190	0.270	
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	55600	55300	57600	56900	58000	57600	
	Total Organic Carbon	--	--	ND	ND	ND	ND	ND	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons, Total	--	--	ND	ND	ND	ND	ND	ND	
Metals (ppb)	Copper	1300	MCL	12.7	15.2	16.4	25.9	15.5	15.8	
	Lead	15	MCL	ND	0.180	ND	0.150	ND	0.230	
	Mercury	2	MCL	ND	ND	0.0810	0.0650	ND	ND	
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	ND	ND	ND	ND	ND	
	2-Methylnaphthalene	--	--	ND	ND	ND	ND	ND	ND	

Summary of Chemistry Results

Zone E1

Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

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Drinking Water Samples Collected in October 2024 - December 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-0015290-24275-N-1	E1-TW-0015290-24275-N-2	E1-TW-0015290-24306-N-1	E1-TW-0015290-24306-N-2	E1-TW-0015290-24336-N-1	E1-TW-0015290-24336-N-2
				Sample Date:	2024-10-02	2024-10-02	2024-11-06	2024-11-06	2024-12-05	2024-12-05
				Sample Type:	N (Normal)					
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level							
Synthetic Organic Compounds (ppb)	Acenaphthylene	--	--	ND	ND	ND	ND	ND	ND	ND
	Anthracene	--	--	ND	ND	ND	ND	ND	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	ND	ND
	Benzo(b)fluoranthene	--	--	ND	ND	ND	ND	ND	ND	ND
	Benzo(g,h,i)perylene	--	--	ND	ND	ND	ND	ND	ND	ND
	Benzo(k)fluoranthene	--	--	ND	ND	ND	ND	ND	ND	ND
	Chrysene	--	--	ND	ND	ND	ND	ND	ND	ND
	Dibenz(a,h)anthracene	--	--	ND	ND	ND	ND	ND	ND	ND
	Fluorene	--	--	ND	ND	ND	ND	ND	ND	ND
	Indeno(1,2,3-c,d)pyrene	--	--	ND	ND	ND	ND	ND	ND	ND
	Naphthalene	--	--	ND	ND	ND	ND	ND	ND	ND
	Phenanthrene	--	--	ND	ND	ND	ND	ND	ND	ND
	Pyrene	--	--	ND	ND	ND	ND	ND	ND	ND
	Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene		--	--	ND	ND	ND	ND	ND	ND	ND
Benzene		5	MCL	ND	ND	ND	ND	ND	ND	ND
Cumene		--	--	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

Summary of Chemistry Results

Zone E1

Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

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Drinking Water Samples Collected in October 2024 - December 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-0015290-24275-N-1	E1-TW-0015290-24275-N-2	E1-TW-0015290-24306-N-1	E1-TW-0015290-24306-N-2	E1-TW-0015290-24336-N-1	E1-TW-0015290-24336-N-2
				Sample Date:	2024-10-02	2024-10-02	2024-11-06	2024-11-06	2024-12-05	2024-12-05
				Sample Type:	N (Normal)					
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level							
Volatile Organic Compounds (ppb)	n-Butylbenzene	--	--	ND	ND	ND	ND	ND	ND	ND
	n-Propylbenzene	--	--	ND	ND	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND
	sec-Butylbenzene	--	--	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene	--	--	ND	ND	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND	ND
	Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	0.290	ND	ND	ND
	Bromoform	--	--	ND	ND	0.350	0.830	ND	ND	ND
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	0.330	0.770	ND	ND	ND
	Total Trihalomethanes	80	MCL	ND	ND	0.680	1.89	ND	ND	ND

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

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Drinking Water Samples Collected in October 2024 - December 2024 from Hydrants in Zone E1

		E1-HYD1081				E1-HYD1216					
		Hydrant				Hydrant					
		Hydrant 920				FH 1216					
		Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:		
		E1-DL-0017787-24275 -N	E1-DL-0017787-24275 -N-R1	E1-DL-0017787-24306 -N	E1-DL-0017787-24336 -N	E1-DL-0017799-24275 -N	E1-DL-0017799-24306 -N	E1-DL-0017799-24306 -3-N	E1-DL-0017799-24336 -N		
		Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:		
		2024-10-28	2024-11-13	2024-11-13	2024-12-23	2024-10-28	2024-11-26	2024-11-26	2024-12-05		
		Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:		
		N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)		
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level								
Bacterial Test (in 100 mL)	Coliform	--	--	Absent	Absent	--	--	Absent	--	--	
	E. coli	--	--	Absent	Absent	--	--	Absent	--	--	
Bacterial Test (MPN/mL)	Heterotrophic Plate Count	--	--	300	3.00	--	--	ND	--	--	
Field Test (ppb)	Free Chlorine	4000	MCL	90.0	670	670	20.0	400	200	--	300
Field Test (pH)	pH	--	--	7.73	7.33	7.33	7.84	7.43	7.69	--	8.23
Field Test (ms/cm)	Specific Conductivity	--	--	0.280	0.290	0.290	0.280	0.270	0.280	--	0.310
Field Test (degrees Celcius)	Temperature	--	--	27.9	25.2	25.2	24.9	27.5	27.6	--	27.2
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.420	0.540	0.540	0.540	0.360	0.00	--	0.220
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	65900	--	55600	79500	60000	63900	63300	70100
	Total Organic Carbon	--	--	300	--	ND	400	220	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	--	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	--	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND	--	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	--	--	ND	--	ND	ND	ND	ND	ND	ND
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	--	ND	ND	ND	ND	ND	ND
	2-Methylnaphthalene	--	--	ND	--	ND	ND	ND	ND	ND	ND
	Acenaphthylene	--	--	ND	--	ND	ND	ND	ND	ND	ND
	Anthracene	--	--	ND	--	ND	ND	ND	ND	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	--	ND	ND	ND	ND	ND	ND
	Benzo(b)fluoranthene	--	--	ND	--	ND	ND	ND	ND	ND	ND
	Benzo(g,h,i)perylene	--	--	ND	--	ND	ND	ND	ND	ND	ND
	Benzo(k)fluoranthene	--	--	ND	--	ND	ND	ND	ND	ND	ND
Chrysene	--	--	ND	--	ND	ND	ND	ND	ND	ND	

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

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Drinking Water Samples Collected in October 2024 - December 2024 from Hydrants in Zone E1

		E1-HYD1081				E1-HYD1216					
		Hydrant				Hydrant					
		Hydrant 920				FH 1216					
		Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:		
		E1-DL-0017787-24275 -N	E1-DL-0017787-24275 -N-R1	E1-DL-0017787-24306 -N	E1-DL-0017787-24336 -N	E1-DL-0017799-24275 -N	E1-DL-0017799-24306 -N	E1-DL-0017799-24306 -3-N	E1-DL-0017799-24336 -N		
		Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:		
		2024-10-28	2024-11-13	2024-11-13	2024-12-23	2024-10-28	2024-11-26	2024-11-26	2024-12-05		
		Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:		
		N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)		
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level								
Synthetic Organic Compounds (ppb)	Dibenz(a,h)anthracene	--	--	ND	--	ND	ND	ND	ND	ND	
	Fluorene	--	--	ND	--	ND	ND	ND	ND	ND	
	Indeno(1,2,3-c,d)pyrene	--	--	ND	--	ND	ND	ND	ND	ND	
	Naphthalene	--	--	ND	--	ND	ND	ND	ND	ND	
	Phenanthrene	--	--	ND	--	ND	ND	ND	ND	ND	
	Pyrene	--	--	ND	--	ND	ND	ND	ND	ND	
Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--	ND	--	ND	ND	ND	ND	ND	
	1,2-Dibromoethane (EDB)	--	--	ND	--	--	--	ND	--	--	
	1,3,5-Trimethylbenzene	--	--	ND	--	ND	ND	ND	ND	ND	
	2-(2-Methoxy ethoxy)ethanol	--	--	ND	--	--	--	ND	--	--	
	Benzene	5	MCL	ND	--	ND	ND	ND	ND	ND	
	Cumene	--	--	ND	--	ND	ND	ND	ND	ND	
	Ethylbenzene	700	MCL	ND	--	ND	ND	ND	ND	ND	
	m,p-Xylene	--	--	ND	--	ND	ND	ND	ND	ND	
	n-Butylbenzene	--	--	ND	--	ND	ND	ND	ND	ND	
	n-Propylbenzene	--	--	ND	--	ND	ND	ND	ND	ND	
	o-Xylene	--	--	ND	--	ND	ND	ND	ND	ND	
	sec-Butylbenzene	--	--	ND	--	ND	ND	ND	ND	ND	
	tert-Butylbenzene	--	--	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	--	--	1.50	--	ND	1.10	0.540	1.40	1.60	2.30
	Bromoform	--	--	7.20	--	ND	5.70	1.10	7.90	8.70	19.0

Summary of Chemistry Results

Zone E1

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Drinking Water Samples Collected in October 2024 - December 2024 from Hydrants in Zone E1

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	E1-HYD1081				E1-HYD1216			
				Field Sample ID	Sample Date	Sample Type	Result	Field Sample ID	Sample Date	Sample Type	Result
				Location ID: E1-HYD1081				Location ID: E1-HYD1216			
				Location Type: Hydrant				Location Type: Hydrant			
				Address: Hydrant 920				Address: FH 1216			
				E1-DL-0017787-24275 -N	E1-DL-0017787-24275 -N-R1	E1-DL-0017787-24306 -N	E1-DL-0017787-24336 -N	E1-DL-0017799-24275 -N	E1-DL-0017799-24306 -N	E1-DL-0017799-24306 -3-N	E1-DL-0017799-24336 -N
				2024-10-28	2024-11-13	2024-11-13	2024-12-23	2024-10-28	2024-11-26	2024-11-26	2024-12-05
				N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)
Trihalomethanes (ppb)	Chloroform	--	--	0.540	--	ND	0.450	ND	0.390	0.450	0.620
	Dibromochloromethane	--	--	3.70	--	ND	3.00	1.20	4.10	4.60	7.50
	Total Trihalomethanes	80	MCL	12.9	--	ND	10.3	2.84	13.8	15.4	29.4

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

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Parts per Thousand (ppth)
§ - Exceeds Screening Level
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Drinking Water Samples Collected in October 2024 - December 2024 from Hydrants in Zone E1

		Location ID: E1-HYD1216		E1-HYD2249				E1-HYD2250		
		Location Type: Hydrant		Hydrant		Hydrant		Hydrant		
		Address: FH 1216		FH ID: 933		FH 2250		FH 2250		
		Field Sample ID: E1-DL-0017799-24336	E1-DL-0000589-24275	E1-DL-0000589-24306	E1-DL-0000589-24336	E1-DL-0017800-24275	E1-DL-0017800-24306	E1-DL-0017800-24336		
		-3-N	-N	-N	-N	-N	-N	-N		
		Sample Date: 2024-12-05	2024-10-28	2024-11-26	2024-12-23	2024-10-28	2024-11-26	2024-12-23		
		Sample Type: FD (Field Duplicate)	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	--	--
	E. coli	--	--	--	Absent	--	--	Absent	--	--
Bacterial Test (MPN/mL)	Heterotrophic Plate Count	--	--	--	2.00	--	--	48.0	--	--
Field Test (ppb)	Free Chlorine	4000	MCL	--	100	260	190	570	570	380
Field Test (pH)	pH	--	--	--	7.22	7.32	7.15	7.32	7.23	7.01
Field Test (ms/cm)	Specific Conductivity	--	--	--	0.330	0.270	0.250	0.270	0.270	0.240
Field Test (degrees Celcius)	Temperature	--	--	--	25.2	28.5	26.2	25.1	28.7	26.5
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	--	0.00	0.00	0.370	0.00	0.00	0.920
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	67700	57700	57700	79700	57700	56100	66700
	Total Organic Carbon	--	--	ND	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	--	--	ND	ND	ND	ND	ND	ND	ND
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	ND	ND	ND	ND	ND	ND
	2-Methylnaphthalene	--	--	ND	ND	ND	ND	ND	ND	ND
	Acenaphthylene	--	--	ND	ND	ND	ND	ND	ND	ND
	Anthracene	--	--	ND	ND	ND	ND	ND	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	ND	ND
	Benzo(b)fluoranthene	--	--	ND	ND	ND	ND	ND	ND	ND
	Benzo(g,h,i)perylene	--	--	ND	ND	ND	ND	ND	ND	ND
	Benzo(k)fluoranthene	--	--	ND	ND	ND	ND	ND	ND	ND
	Chrysene	--	--	ND	ND	ND	ND	ND	ND	ND

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Drinking Water Samples Collected in October 2024 - December 2024 from Hydrants in Zone E1

		Location ID: E1-HYD1216		E1-HYD2249				E1-HYD2250	
		Location Type: Hydrant		Hydrant				Hydrant	
		Address: FH 1216		FH ID: 933				FH 2250	
		Field Sample ID: E1-DL-0017799-24336	E1-DL-0000589-24275	E1-DL-0000589-24306	E1-DL-0000589-24336	E1-DL-0017800-24275	E1-DL-0017800-24306	E1-DL-0017800-24336	
		-3-N	-N	-N	-N	-N	-N	-N	
		Sample Date: 2024-12-05	2024-10-28	2024-11-26	2024-12-23	2024-10-28	2024-11-26	2024-12-23	
		Sample Type: FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level						
Synthetic Organic Compounds (ppb)	Dibenz(a,h)anthracene	--	--	ND	ND	ND	ND	ND	ND
	Fluorene	--	--	ND	ND	ND	ND	ND	ND
	Indeno(1,2,3-c,d)pyrene	--	--	ND	ND	ND	ND	ND	ND
	Naphthalene	--	--	ND	ND	ND	ND	ND	ND
	Phenanthrene	--	--	ND	ND	ND	ND	ND	ND
	Pyrene	--	--	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane (EDB)	--	--	--	ND	--	--	ND	--
	1,3,5-Trimethylbenzene	--	--	ND	ND	ND	ND	ND	ND
	2-(2-Methoxy ethoxy)ethanol	--	--	--	ND	--	--	ND	--
	Benzene	5	MCL	ND	ND	ND	ND	ND	ND
	Cumene	--	--	ND	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND	ND
	n-Butylbenzene	--	--	ND	ND	ND	ND	ND	ND
	n-Propylbenzene	--	--	ND	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND
	sec-Butylbenzene	--	--	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene	--	--	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	--	--	2.50	ND	ND	ND	ND	ND
	Bromoform	--	--	17.2	0.620	ND	0.470	ND	ND

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Drinking Water Samples Collected in October 2024 - December 2024 from Hydrants in Zone E1

		Location ID: E1-HYD1216		Location ID: E1-HYD2249				Location ID: E1-HYD2250		
		Location Type: Hydrant		Location Type: Hydrant				Location Type: Hydrant		
		Address: FH 1216		Address: FH ID: 933				Address: FH 2250		
		Field Sample ID: E1-DL-0017799-24336	E1-DL-0000589-24275	E1-DL-0000589-24306	E1-DL-0000589-24336	E1-DL-0017800-24275	E1-DL-0017800-24306	E1-DL-0017800-24336		
		-3-N	-N	-N	-N	-N	-N	-N		
		Sample Date: 2024-12-05	2024-10-28	2024-11-26	2024-12-23	2024-10-28	2024-11-26	2024-12-23		
		Sample Type: FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)		
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level							
Trihalomethanes (ppb)	Chloroform	--	--	0.730	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	7.10	0.290	ND	ND	ND	ND	ND
	Total Trihalomethanes	80	MCL	27.5	0.910	ND	0.470	ND	ND	ND