

Summary of Chemistry Results  
Zone E1 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 E1

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:		E1-BETI0049	E1-HALA0034	E1-HALA0035	E1-HALA0042	E1-HALA0045	E1-HALA0048	E1-HALA0049	E1-HALA0057
		Location Type:		Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
		Address:		49 Betio Place	34 Halawa Drive	35 Halawa Drive	42 Halawa Drive	45 Halawa Drive	48 Halawa Drive	49 Halawa Drive	57 Halawa Drive
		Field Sample ID:		E1-TW-0000373-22337-N	E1-TW-0010670-22337-N	E1-TW-0010671-22337-N	E1-TW-0010677-22337-N	E1-TW-0010679-22337-N	E1-TW-0010681-22337-N	E1-TW-0010682-22337-N	E1-TW-0010686-22337-N
		Sample Date:		2023-02-21	2023-02-21	2023-01-19	2023-01-19	2023-04-27	2023-02-21	2023-02-21	2023-01-19
		Sample Type:		N (Normal)	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	370	360	280	270	310	150	320	440
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	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 Motor Oil)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	0.120	ND	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	1.90	2.00	2.10	2.10	2.00	2.10	2.00	2.00
	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	1.40	1.70	2.00	1.80	1.70	1.50	1.40	2.20
	Copper	1300	MCL	47.3	158	54.4	89.4	58.3	141	68.4	38.4
	Lead	15	MCL	0.790	1.70	ND	0.160	0.390	2.80	ND	0.310
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	ND	ND	ND	ND	ND	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	0.0140	ND	ND	0.0170	0.0150	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:	E1-BETI0049	E1-HALA0034	E1-HALA0035	E1-HALA0042	E1-HALA0045	E1-HALA0048	E1-HALA0049	E1-HALA0057
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
		Address:	49 Betio Place	34 Halawa Drive	35 Halawa Drive	42 Halawa Drive	45 Halawa Drive	48 Halawa Drive	49 Halawa Drive	57 Halawa Drive
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		Sample Date:	2023-02-21	2023-02-21	2023-01-19	2023-01-19	2023-04-27	2023-02-21	2023-02-21	2023-01-19
		Sample Type:	N (Normal)	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							
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	ND	0.970	0.670	ND	ND	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:	49 Betio Place	34 Halawa Drive	35 Halawa Drive	42 Halawa Drive	45 Halawa Drive	48 Halawa Drive	49 Halawa Drive	57 Halawa Drive
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				Sample Date:	2023-02-21	2023-02-21	2023-01-19	2023-01-19	2023-04-27	2023-02-21	2023-02-21	2023-01-19
				Sample Type:	N (Normal)	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	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	0.970	0.670	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.280	0.290	0.410	0.250	ND	0.540	ND	ND	ND
	Bromoform	--	--	1.00	1.00	1.60	1.20	0.860	2.00	0.400	0.290	
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	0.830	0.790	1.20	0.760	0.550	1.40	0.290	ND	
	Total Trihalomethanes	80	MCL	2.11	2.08	3.21	2.21	1.41	3.94	0.690	0.290	

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				Location ID:	E1-KAMA4778		E1-KAMA4797	E1-MAKA0015	E1-MIDW0006	E1-MIDW0012	E1-MIDW0013
				Location Type:	Residence		Residence	Residence	Residence	Residence	Residence
				Address:	4778 Kamakani Place		4797 Kamakani Place	15 Makalapa Drive	6 Midway Drive	12 Midway Drive	13 Midway Drive
				Field Sample ID:	E1-TW-0010689-22337-3-N	E1-TW-0010689-22337-N	E1-TW-0010694-22337-N	E1-TW-0010702-22337-N	E1-TW-0010727-22337-N	E1-TW-0010730-22337-N	E1-TW-0010731-22337-N
				Sample Date:	2023-02-21	2023-02-21	2023-02-21	2023-02-21	2023-04-27	2023-01-19	2023-04-27
				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								
Field Test (ppb)	Free Chlorine	4000	MCL	150	150	450	370	340	230	310	
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	58.1	53.0	54.0	52.8	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	58.1	53.0	54.0	52.8	ND	ND	ND
Metals (ppb)	Antimony	6	MCL	0.110	ND	ND	ND	ND	0.130	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	1.90	1.80	1.90	1.90	1.90	2.10	2.00	
	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	1.60	1.50	1.50	1.40	1.80	1.90	1.90	
	Copper	1300	MCL	4.70	4.90	8.10	6.50	45.6	18.4	32.7	
	Lead	15	MCL	ND	ND	ND	ND	ND	ND	0.760	
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium	2	MCL	ND	ND	ND	ND	ND	0.0610	ND	ND
Synthetic Organic Compounds (ppb)	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	0.0140	ND	ND	ND	ND	ND	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND	0.550	
	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	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:	E1-KAMA4778		E1-KAMA4797	E1-MAKA0015	E1-MIDW0006	E1-MIDW0012	E1-MIDW0013
		Location Type:	Residence		Residence	Residence	Residence	Residence	Residence
		Address:	4778 Kamakani Place		4797 Kamakani Place	15 Makalapa Drive	6 Midway Drive	12 Midway Drive	13 Midway Drive
		Field Sample ID:	E1-TW-0010689-22337-3-N	E1-TW-0010689-22337-N	E1-TW-0010694-22337-N	E1-TW-0010702-22337-N	E1-TW-0010727-22337-N	E1-TW-0010730-22337-N	E1-TW-0010731-22337-N
		Sample Date:	2023-02-21	2023-02-21	2023-02-21	2023-02-21	2023-04-27	2023-01-19	2023-04-27
		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						
Volatile Organic Compounds (ppb)	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
	Dibromoacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND

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		Location Type:	Residence		Residence	Residence	Residence	Residence	Residence
		Address:	4778 Kamakani Place		4797 Kamakani Place	15 Makalapa Drive	6 Midway Drive	12 Midway Drive	13 Midway Drive
		Field Sample ID:	E1-TW-0010689-22337-3-N	E1-TW-0010689-22337-N	E1-TW-0010694-22337-N	E1-TW-0010702-22337-N	E1-TW-0010727-22337-N	E1-TW-0010730-22337-N	E1-TW-0010731-22337-N
		Sample Date:	2023-02-21	2023-02-21	2023-02-21	2023-02-21	2023-04-27	2023-01-19	2023-04-27
		Sample Type:	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
		DOH Project Screening Level	Basis of Project Screening Level						
Method Group	Analyte								
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND	ND
	Bromoform	--	--	ND	ND	0.480	0.640	1.00	0.410
	Chloroform	--	--	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	0.440	0.540	0.840	0.260
	Total Trihalomethanes	80	MCL	ND	ND	0.920	1.18	1.84	0.670

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Drinking Water Samples collected in January - June 2023 from Schools in Zone E1

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				Location ID:	E1-BLDG0364				
				Location Type:	School				
				Address:	NAVY HALE KEIKI SCHOOL, 153 Bougainville Dr, Building 364				
				Field Sample ID:	E1-TW-0015244-22337-N-1	E1-TW-0015244-22337-N-2	E1-TW-0015244-22337-N-3	E1-TW-0015244-22337-N-4	E1-TW-0015244-22337-N-5
				Sample Date:	2023-01-19	2023-01-19	2023-01-19	2023-01-19	2023-01-19
				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	210-470	210-470	210-470	210-470	210-470	
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	58.8	
	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	ND	ND	ND	58.8	
Metals (ppb)	Antimony	6	MCL	0.120	ND	ND	ND	ND	
	Arsenic	10	MCL	ND	ND	ND	ND	ND	
	Barium	2000	MCL	2.10	2.00	2.00	2.00	2.00	
	Beryllium	4	MCL	ND	ND	ND	ND	ND	
	Cadmium	5	MCL	0.0540	ND	ND	ND	ND	
	Chromium	100	MCL	1.90	1.80	1.80	1.80	1.90	
	Copper	1300	MCL	9.80	32.6	19.5	15.0	25.2	
	Lead	15	MCL	0.150	0.600	0.150	0.430	0.140	
	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	0.0110	ND	ND	0.0120	
	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	

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				Location ID:	E1-BLDG0364				
				Location Type:	School				
				Address:	NAVY HALE KEIKI SCHOOL, 153 Bougainville Dr, Building 364				
				Field Sample ID:	E1-TW-0015244-22337-N-1	E1-TW-0015244-22337-N-2	E1-TW-0015244-22337-N-3	E1-TW-0015244-22337-N-4	E1-TW-0015244-22337-N-5
				Sample Date:	2023-01-19	2023-01-19	2023-01-19	2023-01-19	2023-01-19
				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)	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	ND
	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



Summary of Chemistry Results  
Zone E1 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 E1

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:	E1-BLDG0364				
				Location Type:	School				
				Address:	NAVY HALE KEIKI SCHOOL, 153 Bougainville Dr, Building 364				
				Field Sample ID:	E1-TW-0015244-22337-N-1	E1-TW-0015244-22337-N-2	E1-TW-0015244-22337-N-3	E1-TW-0015244-22337-N-4	E1-TW-0015244-22337-N-5
				Sample Date:	2023-01-19	2023-01-19	2023-01-19	2023-01-19	2023-01-19
				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)	Bromoacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Dibromoacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	0.320	ND	ND	ND	ND
	Bromoform	--	--	ND	1.10	0.290	0.420	ND	ND
	Chloroform	--	--	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	0.840	ND	0.280	ND	ND
	Total Trihalomethanes	80	MCL	ND	2.26	0.290	0.700	ND	ND

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

Drinking Water Samples collected in January - June 2023 from Child Development Centers in Zone E1

<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>	E1-BLDG0081	
			<b>Location Type:</b>	Child Development Center	
			<b>Address:</b>	Building 81,CHILD CARE CTR/CPF PAO Montessori Center, 45 Makalapa Drive	
			<b>Field Sample ID:</b>	E1-TW-0015290- 22337-N-1	E1-TW-0015290- 22337-N-2
			<b>Sample Date:</b>	2023-04-25	2023-04-25
			<b>Sample Type:</b>	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	140-210	140-210
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND
	Arsenic	10	MCL	0.600	0.500
	Barium	2000	MCL	2.00	1.90
	Beryllium	4	MCL	ND	ND
	Cadmium	5	MCL	ND	ND
	Chromium	100	MCL	1.80	1.60
	Copper	1300	MCL	46.8	36.7
	Lead	15	MCL	ND	0.560
	Mercury	2	MCL	0.0250	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

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

Drinking Water Samples collected in January - June 2023 from Child Development Centers in Zone E1

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:	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- 22337-N-1	E1-TW-0015290- 22337-N-2
				Sample Date:	2023-04-25	2023-04-25
				Sample Type:	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level			
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	
	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	

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

Drinking Water Samples collected in January - June 2023 from Child Development Centers in Zone E1

<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>	E1-BLDG0081
				<b>Location Type:</b>	Child Development Center
				<b>Address:</b>	Building 81,CHILD CARE CTR/CPF PAO Montessori Center, 45 Makalapa Drive
				<b>Field Sample ID:</b>	E1-TW-0015290-22337-N-1      E1-TW-0015290-22337-N-2
				<b>Sample Date:</b>	2023-04-25      2023-04-25
				<b>Sample Type:</b>	N (Normal)      N (Normal)
<b>Method Group</b>	<b>Analyte</b>	<b>DOH Project Screening Level</b>	<b>Basis of Project Screening Level</b>		
Volatile Organic Compounds (ppb)	Vinyl chloride	2	MCL	ND	ND
	Xylenes, Total	10000	MCL	ND	ND
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND
	Chloroacetic acid	--	--	ND	ND
	Dibromoacetic acid	--	--	ND	ND
	Dichloroacetic acid	--	--	ND	ND
	Trichloroacetic acid	--	--	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND
	Bromoform	--	--	0.270	0.390
	Chloroform	--	--	ND	ND
	Dibromochloromethane	--	--	0.260	ND
	Total Trihalomethanes	80	MCL	0.530	0.390

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

Drinking Water Samples collected in January - June 2023 from Other Buildings in Zone E1

<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>	E1-BLDG0057	E1-BLDGGH41
			<b>Location Type:</b>	Non-Residence	Non-Residence
			<b>Address:</b>	Building 57,NAVFAC PAC ADMIN TRAILER	Building GH41,GUEST HOUSE - QTRS 41- MAKALA
			<b>Field Sample ID:</b>	E1-TW-0015289- 22337-N	E1-TW-0015285- 22337-N
			<b>Sample Date:</b>	2023-01-19	2023-02-17
			<b>Sample Type:</b>	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	470	420
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND
	Arsenic	10	MCL	ND	ND
	Barium	2000	MCL	3.60	1.90
	Beryllium	4	MCL	ND	ND
	Cadmium	5	MCL	ND	ND
	Chromium	100	MCL	1.80	1.70
	Copper	1300	MCL	40.0	12.9
	Lead	15	MCL	0.350	ND
	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

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

Drinking Water Samples collected in January - June 2023 from Other Buildings in Zone E1

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			

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

Drinking Water Samples collected in January - June 2023 from Other Buildings in Zone E1

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:	E1-BLDG0057	E1-BLDGGH41
			Location Type:	Non-Residence	Non-Residence
			Address:	Building 57,NAVFAC PAC ADMIN TRAILER	Building GH41,GUEST HOUSE - QTRS 41- MAKALA
			Field Sample ID:	E1-TW-0015289- 22337-N	E1-TW-0015285- 22337-N
			Sample Date:	2023-01-19	2023-02-17
			Sample Type:	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Haloacetic Acids (ppb)	Dibromoacetic acid	--	--	0.540	ND
	Dichloroacetic acid	--	--	ND	ND
	Trichloroacetic acid	--	--	ND	ND
	Total Haloacetic acids	60	MCL	0.540	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND
	Bromoform	--	--	0.340	ND
	Chloroform	--	--	ND	ND
	Dibromochloromethane	--	--	0.250	ND
	Total Trihalomethanes	80	MCL	0.590	ND

Summary of Chemistry Results  
Zone E1 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 E1

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:		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-0017787-22337 -3-N	E1-DL-0017787-22337 -N	E1-DL-0017799-22337 -3-N	E1-DL-0017799-22337 -N	E1-DL-0000589-22337 -N	E1-DL-0017800-22337 -N
		Sample Date:		2023-02-17	2023-02-17	2023-01-19	2023-01-19	2023-01-19	2023-01-19
		Sample Type:		FD (Field Duplicate)	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	330	330	180	180	120	130
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	200	200	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 Motor Oil)	--	--	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND	ND	ND	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	5.90	5.90	4.70	4.70	2.30	2.00
	Beryllium	4	MCL	ND	ND	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND	ND	ND
	Chromium	100	MCL	1.20	1.20	1.80	1.90	1.60	1.90
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	ND	ND	ND	ND	ND	ND
	Thallium	2	MCL	ND	ND	ND	ND	ND	ND
Synthetic Organic Compounds (ppb)	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	ND	0.0110	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND
	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	ND
	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



Summary of Chemistry Results  
Zone E1 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 E1

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:		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-0017787-22337 -3-N	E1-DL-0017787-22337 -N	E1-DL-0017799-22337 -3-N	E1-DL-0017799-22337 -N	E1-DL-0000589-22337 -N	E1-DL-0017800-22337 -N
				Sample Date:		2023-02-17	2023-02-17	2023-01-19	2023-01-19	2023-01-19	2023-01-19
				Sample Type:		FD (Field Duplicate)	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	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	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethene (Total)	70	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	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	ND
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromoacetic acid	--	--	ND	ND	0.720	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	0.720	ND	ND	ND	ND	ND

Summary of Chemistry Results  
Zone E1 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 E1

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:		E1-HYD1081		E1-HYD1216 <td colspan="1">E1-HYD2249</td> <td colspan="1">E1-HYD2250</td>		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-0017787-22337 -3-N	E1-DL-0017787-22337 -N	E1-DL-0017799-22337 -3-N	E1-DL-0017799-22337 -N	E1-DL-0000589-22337 -N	E1-DL-0017800-22337 -N
				Sample Date:		2023-02-17	2023-02-17	2023-01-19	2023-01-19	2023-01-19	2023-01-19
				Sample Type:		FD (Field Duplicate)	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	--	--	0.350	0.410	0.350	0.380	ND	ND		
	Bromoform	--	--	6.20	5.70	1.70	1.60	0.660	ND		
	Chloroform	--	--	ND	ND	0.820	0.670	ND	ND		
	Dibromochloromethane	--	--	1.60	1.50	1.10	1.10	ND	ND		
	Total Trihalomethanes	80	MCL	8.15	7.61	3.97	3.75	0.660	ND		