

Summary of Chemistry Results
 Zone B1 Long Term Monitoring
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in January - April 2023 from Schools in Zone B1

Notes:
ND = Not Detected
ISP = Incident Specific Parameter
EAL = DOH Environmental Action Level
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All Results shown in Parts per Billion (ppb)
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		Location ID:	B1-HAPU2869B	B1-HEKA1131	B1-HEKA1137	B1-HEKA1145	B1-HEKA1170		B1-HONU1085	B1-HONU1199	
		Location Type:	Residence	Residence	Residence	Residence	Residence		Residence	Residence	
		Address:	2869B Hapue Loop	1131 Hekau Street	1137 Hekau Street	1145 Hekau Street	1170 Hekau Street		1085 Honu Loop	1199 Honu Loop	
		Field Sample ID:	B1-TW-0017605-22332-N	B1-TW-0010477-22332-N	B1-TW-0010479-22332-N	B1-TW-0010481-22332-N	B1-TW-0010487-22332-3-N	B1-TW-0010487-22332-N	B1-TW-0010492-22332-N	B1-TW-0010507-22332-N	
		Sample Date:	2023-02-17	2023-01-12	2023-02-17	2023-02-17	2023-01-12	2023-01-12	2023-04-03	2023-01-12	
		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	370	490	170	530	510	510	180	540
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	53.3	ND	ND	ND	55.0	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	53.3	ND	ND	ND	55.0	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	1.90	1.90	1.80	1.80	1.90	1.90	1.80	1.90
	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	1.50	1.90	1.60	1.60	2.00	1.90	1.60	2.00
	Copper	1300	MCL	22.4	11.7	25.7	23.1	11.9	10.5	16.8	9.70
	Lead	15	MCL	0.140	ND	0.750	0.250	ND	ND	0.240	0.190
	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	ND	0.0170	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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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	Location ID:	Location ID:	Location ID:	Location ID:		Location ID:	Location ID:
				B1-HAPU2869B	B1-HEKA1131	B1-HEKA1137	B1-HEKA1145	B1-HEKA1170		B1-HONU1085	B1-HONU1199
				Residence	Residence	Residence	Residence	Residence		Residence	Residence
				2869B Hapue Loop	1131 Hekau Street	1137 Hekau Street	1145 Hekau Street	1170 Hekau Street		1085 Honu Loop	1199 Honu Loop
				B1-TW-0017605-22332-N	B1-TW-0010477-22332-N	B1-TW-0010479-22332-N	B1-TW-0010481-22332-N	B1-TW-0010487-22332-3-N	B1-TW-0010487-22332-N	B1-TW-0010492-22332-N	B1-TW-0010507-22332-N
				2023-02-17	2023-01-12	2023-02-17	2023-02-17	2023-01-12	2023-01-12	2023-04-03	2023-01-12
				N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)
Volatile Organic Compounds (ppb)	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	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	ND	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND

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				Location Type:	Residence	Residence	Residence	Residence	Residence		Residence	Residence
				Address:	2869B Hapue Loop	1131 Hekau Street	1137 Hekau Street	1145 Hekau Street	1170 Hekau Street		1085 Honu Loop	1199 Honu Loop
				Field Sample ID:	B1-TW-0017605-22332-N	B1-TW-0010477-22332-N	B1-TW-0010479-22332-N	B1-TW-0010481-22332-N	B1-TW-0010487-22332-3-N	B1-TW-0010487-22332-N	B1-TW-0010492-22332-N	B1-TW-0010507-22332-N
				Sample Date:	2023-02-17	2023-01-12	2023-02-17	2023-02-17	2023-01-12	2023-01-12	2023-04-03	2023-01-12
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	--	--	ND	0.500	ND	ND	ND	ND	ND	ND	0.400
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	0.510	ND	ND	ND	ND	ND	ND	0.430
	Total Trihalomethanes	80	MCL	ND	1.01	ND	ND	ND	ND	ND	ND	0.830

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		Location ID:	B1-HONU1221	B1-KAEE2853E	B1-KOKI2856D	B1-KOKI2862C	B1-KUPA2880B	B1-KUPA2880C	B1-MAKU2885A	B1-MAKU2891C	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence	
		Address:	1221 Honu Loop	2853E Kae Loop	2856D Kokio Loop	2862C Kokio Loop	2880B Kupalii Loop	2880C Kupalii Loop	2885A Makuu Loop	2891C Makuu Loop	
		Field Sample ID:	B1-TW-0010510-22332-N	B1-TW-0017587-22332-N	B1-TW-0000485-22332-N	B1-TW-0017597-22332-N	B1-TW-0017623-22332-N	B1-TW-0017624-22332-N	B1-TW-0017628-22332-N	B1-TW-0017639-22332-N	
		Sample Date:	2023-02-17	2023-02-17	2023-04-03	2023-04-03	2023-04-27	2023-02-17	2023-04-03	2023-04-03	
		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	610	420	110	240	350	330	340	160
Field Test (ppb)	Free Chlorine	4000	MCL	610	420	110	240	350	330	340	160
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	280
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	ND	ND	53.4	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	53.4	ND
Metals (ppb)	Antimony	6	MCL	0.120	ND	ND	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	1.80	2.00	2.20	2.00	2.00	2.00	1.90	1.90
	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	1.60	1.60	1.70	1.70	1.50	1.50	1.60
	Copper	1300	MCL	3.60	14.7	16.1	6.30	9.30	7.10	20.2	24.6
	Lead	15	MCL	0.140	0.300	ND	ND	0.130	ND	0.210	0.730
	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	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:	B1-HONU1221	B1-KAEE2853E	B1-KOKI2856D	B1-KOKI2862C	B1-KUPA2880B	B1-KUPA2880C	B1-MAKU2885A	B1-MAKU2891C
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
		Address:	1221 Honu Loop	2853E Kae Loop	2856D Kokio Loop	2862C Kokio Loop	2880B Kupalii Loop	2880C Kupalii Loop	2885A Makuu Loop	2891C Makuu Loop
		Field Sample ID:	B1-TW-0010510-22332-N	B1-TW-0017587-22332-N	B1-TW-0000485-22332-N	B1-TW-0017597-22332-N	B1-TW-0017623-22332-N	B1-TW-0017624-22332-N	B1-TW-0017628-22332-N	B1-TW-0017639-22332-N
		Sample Date:	2023-02-17	2023-02-17	2023-04-03	2023-04-03	2023-04-27	2023-02-17	2023-04-03	2023-04-03
		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	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	ND	ND	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:	1221 Honu Loop	2853E Kae Loop	2856D Kokio Loop	2862C Kokio Loop	2880B Kupalii Loop	2880C Kupalii Loop	2885A Makuu Loop	2891C Makuu Loop
		Field Sample ID:	B1-TW-0010510-22332-N	B1-TW-0017587-22332-N	B1-TW-0000485-22332-N	B1-TW-0017597-22332-N	B1-TW-0017623-22332-N	B1-TW-0017624-22332-N	B1-TW-0017628-22332-N	B1-TW-0017639-22332-N
		Sample Date:	2023-02-17	2023-02-17	2023-04-03	2023-04-03	2023-04-27	2023-02-17	2023-04-03	2023-04-03
		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
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND	ND	ND
	Bromoform	--	--	ND	ND	0.740	0.260	ND	ND	4.30
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	0.410	ND	ND	ND	1.10
	Total Trihalomethanes	80	MCL	ND	ND	1.15	0.260	ND	ND	5.40

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		Location ID:	B1-MAKU2907E	B1-MCGR0358	B1-MCGR0379	B1-MCGR0414	B1-MCGR0540	B1-MCGR0627	B1-MCGR0714	B1-MCGR0760	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence	
		Address:	2907E Makuu Loop	358 McGrew Loop	379 McGrew Loop	414 McGrew Loop	540 McGrew Loop	627 McGrew Loop	714 McGrew Loop	760 McGrew Loop	
		Field Sample ID:	B1-TW-0017648-22332-N	B1-TW-0010512-22332-N	B1-TW-0010519-22332-N	B1-TW-0009366-22332-N	B1-TW-0009385-22332-N	B1-TW-0009397-22332-N	B1-TW-0009411-22332-N	B1-TW-0009418-22332-N	
		Sample Date:	2023-02-17	2023-04-03	2023-01-12	2023-01-12	2023-04-03	2023-01-12	2023-04-27	2023-04-27	
		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	460	420	210	410	440	510	380	540
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	59.0	61.8	88.6	56.0	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	59.0	61.8	88.6	56.0	ND	ND
Metals (ppb)	Antimony	6	MCL	0.110	ND	ND	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	2.10	1.90	1.80	1.90	1.80	2.00	1.90	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	1.70	1.60	1.90	1.80	1.60	1.90	1.80	1.80
	Copper	1300	MCL	15.2	26.3	19.5	13.9	6.60	11.2	11.3	7.70
	Lead	15	MCL	0.140	0.220	ND	0.170	0.160	ND	0.220	ND
	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	0.0510	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

Summary of Chemistry Results
 Zone B1 Long Term Monitoring
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in January - April 2023 from Schools in Zone B1

Notes:
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§ - Exceeds Screening Level
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		Location ID:	B1-MAKU2907E	B1-MCGR0358	B1-MCGR0379	B1-MCGR0414	B1-MCGR0540	B1-MCGR0627	B1-MCGR0714	B1-MCGR0760
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
		Address:	2907E Makuu Loop	358 McGrew Loop	379 McGrew Loop	414 McGrew Loop	540 McGrew Loop	627 McGrew Loop	714 McGrew Loop	760 McGrew Loop
		Field Sample ID:	B1-TW-0017648-22332-N	B1-TW-0010512-22332-N	B1-TW-0010519-22332-N	B1-TW-0009366-22332-N	B1-TW-0009385-22332-N	B1-TW-0009397-22332-N	B1-TW-0009411-22332-N	B1-TW-0009418-22332-N
		Sample Date:	2023-02-17	2023-04-03	2023-01-12	2023-01-12	2023-04-03	2023-01-12	2023-04-27	2023-04-27
		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	2.20	ND
	Dibromoacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND

**Summary of Chemistry Results
Zone B1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples collected in January - April 2023 from Schools in Zone B1

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		Location ID:	B1-MAKU2907E	B1-MCGR0358	B1-MCGR0379	B1-MCGR0414	B1-MCGR0540	B1-MCGR0627	B1-MCGR0714	B1-MCGR0760
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
		Address:	2907E Makuu Loop	358 McGrew Loop	379 McGrew Loop	414 McGrew Loop	540 McGrew Loop	627 McGrew Loop	714 McGrew Loop	760 McGrew Loop
		Field Sample ID:	B1-TW-0017648-22332-N	B1-TW-0010512-22332-N	B1-TW-0010519-22332-N	B1-TW-0009366-22332-N	B1-TW-0009385-22332-N	B1-TW-0009397-22332-N	B1-TW-0009411-22332-N	B1-TW-0009418-22332-N
		Sample Date:	2023-02-17	2023-04-03	2023-01-12	2023-01-12	2023-04-03	2023-01-12	2023-04-27	2023-04-27
		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
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	2.20	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	0.260	ND	0.260	0.660
	Bromoform	--	--	ND	0.480	0.580	0.490	0.310	0.520	1.50
	Chloroform	--	--	ND	ND	ND	ND	ND	0.440	ND
	Dibromochloromethane	--	--	ND	0.410	0.620	0.560	0.310	0.600	1.40
	Total Trihalomethanes	80	MCL	ND	0.890	1.20	1.31	0.620	1.38	4.00

**Summary of Chemistry Results
Zone B1 Long Term Monitoring
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Drinking Water Samples collected in January - April 2023 from Schools in Zone B1

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	B1-OLIA2921A		B1-OLIA2931E
				Location Type:	Residence		Residence
				Address:	2921A Oliana Loop		2931E Oliana Loop
				Field Sample ID:	B1-TW-0009638-22332-N	B1-TW-0017573-22332-3-N B1-TW-0017573-22332-N	B1-TW-0017618-22332-N
				Sample Date:	2023-04-03	2023-04-24	2023-04-03
				Sample Type:	N (Normal)	FD (Field Duplicate) N (Normal)	N (Normal)
Field Test (ppb)	Free Chlorine	4000	MCL	480	350	350	330
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	58.4	65.0	63.0	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	58.4	65.0	63.0	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND
	Barium	2000	MCL	1.80	1.90	2.00	2.10
	Beryllium	4	MCL	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND
	Chromium	100	MCL	1.50	1.60	1.60	2.20
	Copper	1300	MCL	5.70	14.6	15.8	17.7
	Lead	15	MCL	ND	0.170	0.200	1.90
	Mercury	2	MCL	ND	ND	ND	ND
	Selenium	50	MCL	ND	ND	ND	ND
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND

Summary of Chemistry Results
 Zone B1 Long Term Monitoring
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in January - April 2023 from Schools in Zone B1

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	B1-OLIA2921A		B1-OLIA2931E
				Location Type:	Address:	Field Sample ID:	Sample Date:
				B1-MCGR0879	B1-OLIA2921A		B1-OLIA2931E
				Residence	Residence		Residence
				879 McGrew Loop	2921A Oliana Loop		2931E Oliana Loop
				B1-TW-0009638-22332-N	B1-TW-0017573-22332-3-N	B1-TW-0017573-22332-N	B1-TW-0017618-22332-N
				2023-04-03	2023-04-24	2023-04-24	2023-04-03
				N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	B1-OLIA2921A		B1-OLIA2931E
Volatile Organic Compounds (ppb)	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND
	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND
	1,2-Dichloroethene (Total)	70	MCL	ND	ND	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND
	Methylene chloride	5	MCL	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND
	Vinyl chloride	2	MCL	ND	ND	ND	ND
Xylenes, Total	10000	MCL	ND	ND	ND	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND
	Dibromoacetic acid	--	--	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND

Summary of Chemistry Results
 Zone B1 Long Term Monitoring
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in January - April 2023 from Schools in Zone B1

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	B1-OLIA2921A		B1-OLIA2931E
				Location Type:	Residence	Residence	Residence
				Address:	2921A Oliana Loop		2931E Oliana Loop
				Field Sample ID:	B1-TW-0017573-22332-3-N	B1-TW-0017573-22332-N	B1-TW-0017618-22332-N
				Sample Date:	2023-04-24	2023-04-24	2023-04-03
				Sample Type:	N (Normal)	FD (Field Duplicate)	N (Normal)
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND
	Bromoform	--	--	0.280	0.370	0.330	ND
	Chloroform	--	--	ND	ND	ND	ND
	Dibromochloromethane	--	--	0.310	ND	ND	ND
	Total Trihalomethanes	80	MCL	0.590	0.370	0.330	ND

Summary of Chemistry Results
 Zone B1 Long Term Monitoring
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in January - April 2023 from Other Buildings in Zone B1

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N (Grab, Resample) = Additional follow-up sample

Location ID:	B1-BLDG0023
Location Type:	Non-Residence
Address:	Building 23,COMPACFLT BOAT HOUSE
Field Sample ID:	B1-TW-0014409- 22332-N
Sample Date:	2023-04-24
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Result
Field Test (ppb)	Free Chlorine	4000	MCL	180
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	66.9
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND
	Petroleum Hydrocarbons, Total	266	ISP	66.9
Metals (ppb)	Antimony	6	MCL	ND
	Arsenic	10	MCL	ND
	Barium	2000	MCL	1.80
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	1.60
	Copper	1300	MCL	44.7
	Lead	15	MCL	0.130
	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

Summary of Chemistry Results
 Zone B1 Long Term Monitoring
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in January - April 2023 from Other Buildings in Zone B1

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Location ID:	B1-BLDG0023
Location Type:	Non-Residence
Address:	Building 23,COMPACFLT BOAT HOUSE
Field Sample ID:	B1-TW-0014409- 22332-N
Sample Date:	2023-04-24
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Volatile Organic Compounds (ppb)	1,1-Dichloroethene	7	MCL	ND
	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

**Summary of Chemistry Results
 Zone B1 Long Term Monitoring
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples collected in January - April 2023 from Other Buildings in Zone B1

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N (Grab, Resample) = Additional follow-up sample

Location ID:	B1-BLDG0023
Location Type:	Non-Residence
Address:	Building 23,COMPACFLT BOAT HOUSE
Field Sample ID:	B1-TW-0014409- 22332-N
Sample Date:	2023-04-24
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Haloacetic Acids (ppb)	Dibromoacetic acid	--	--	ND
	Dichloroacetic acid	--	--	ND
	Trichloroacetic acid	--	--	ND
	Total Haloacetic acids	60	MCL	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND
	Bromoform	--	--	0.280
	Chloroform	--	--	ND
	Dibromochloromethane	--	--	ND
	Total Trihalomethanes	80	MCL	0.280

Summary of Chemistry Results
 Zone B1 Long Term Monitoring
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in January - April 2023 from Fire Hydrants in Zone B1

Notes:
ND = Not Detected
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EAL = DOH Environmental Action Level
EPA MCL = EPA Maximum Contaminant Level
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N (Grab, Resample) = Additional follow-up sample

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID: B1-HYD0006			Location ID: B1-HYD541		
				Location Type: Hydrant	Address: FH 6 (B1-HYD545)	Field Sample ID: B1-DL-0017728-22332-N	Sample Date: 2023-04-26	Sample Type: N (Normal)	Location Type: Hydrant
Field Test (ppb)	Free Chlorine	4000	MCL	440	680	680			
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND			
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND			
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND			
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND			
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND	ND			
Metals (ppb)	Antimony	6	MCL	ND	ND	ND			
	Arsenic	10	MCL	0.590	ND	ND			
	Barium	2000	MCL	2.00	2.10	1.90			
	Beryllium	4	MCL	ND	0.190	ND			
	Cadmium	5	MCL	ND	ND	ND			
	Chromium	100	MCL	1.90	1.70	1.60			
	Mercury	2	MCL	ND	ND	ND			
	Selenium	50	MCL	ND	ND	ND			
	Thallium	2	MCL	ND	ND	ND			
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	10	EAL	ND	ND	ND			
	2-Methylnaphthalene	10	EAL	ND	ND	ND			
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND			
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND			
	Naphthalene	17	EAL	ND	ND	ND			
Volatile Organic Compounds (ppb)	1,1,1-Trichloroethane	--	--	ND	ND	ND			
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND			
	1,1-Dichloroethene	7	MCL	ND	ND	ND			
	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND			
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND			

Summary of Chemistry Results
 Zone B1 Long Term Monitoring
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in January - April 2023 from Fire Hydrants in Zone B1

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID: B1-HYD0006			Location ID: B1-HYD541			
				Location Type: Hydrant	Address: FH 6 (B1-HYD545)	Field Sample ID: B1-DL-0017728-22332-N	Sample Date: 2023-04-26	Sample Type: N (Normal)	Location Type: Hydrant	Address: FH ID: 8
Volatile Organic Compounds (ppb)	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
Chloroacetic acid		--	--	ND	ND	ND	ND	ND	ND	ND
Dibromoacetic acid		--	--	ND	ND	ND	ND	ND	ND	ND
Dichloroacetic acid		--	--	ND	ND	ND	ND	ND	ND	ND
Trichloroacetic acid		--	--	ND	ND	ND	ND	ND	ND	ND
Total Haloacetic acids		60	MCL	ND	ND	ND	ND	ND	ND	ND

Summary of Chemistry Results
 Zone B1 Long Term Monitoring
 Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in January - April 2023 from Fire Hydrants in Zone B1

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

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID: B1-HYD0006		Location ID: B1-HYD541	
				Field Sample ID	Sample Date	Field Sample ID	Sample Date
				Location Type: Hydrant	Location Type: Hydrant	Address: FH 6 (B1-HYD545)	Address: FH ID: 8
				Sample Type: N (Normal)	Sample Type: N (Normal)	Sample Type: FD (Field Duplicate)	Sample Type: N (Normal)
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND
	Bromoform	--	--	ND	ND	ND	ND
	Chloroform	--	--	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	ND	ND
	Total Trihalomethanes	80	MCL	ND	ND	ND	ND