

Summary of Chemistry Results
Multiple Zones
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
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MPN/mL = Most probable number per milliliter

Drinking Water Samples Collected in April 2024 - June 2024 from Waiawa Shaft

				Location ID:	SHFTWAIA-CP-PR					SHFTWAIA-CP-PT		
				Location Type:	Well					Well		
				Address:	Waiawa Shaft Pre-Chlorination					Waiawa Shaft Post-Chlorination		
				Field Sample ID:	SHAFT-HW-0017916-24092-N	SHAFT-HW-0017916-24092-N-C-WQI	SHAFT-HW-0017916-24122-N	SHAFT-HW-0017916-24153-N	SHAFT-HW-0017916-24153-N-R1	SHAFT-HW-0016021-24092-N	SHAFT-HW-0016021-24092-N-C-WQI	SHAFT-HW-0016021-24122-N
				Sample Date:	2024-04-19	2024-04-19	2024-05-10	2024-06-03	2024-06-05	2024-04-19	2024-04-19	2024-05-06
				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									
Bacterial Test (in 100 mL)	Coliform	--	--	--	Absent	Absent	--	--	--	Absent	--	
	E. coli	--	--	--	Absent	Absent	--	--	--	Absent	--	
Bacterial Test (MPN/mL)	Heterotrophic Plate Count	--	--	--	43.0	6.00	--	--	--	ND	--	
Field Test (ppb)	Free Chlorine	4000	MCL	120	--	20.0	30.0	0.00	760	0.00	920	
Field Test (pH)	pH	--	--	7.27	--	7.37	7.31	7.23	7.37	--	7.42	
Field Test (ms/cm)	Specific Conductivity	--	--	0.270	--	0.260	0.210	0.240	0.270	--	0.230	
Field Test (degrees Celcuis)	Temperature	--	--	28.8	--	25.6	28.2	30.9	27.3	--	26.3	
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.960	--	0.160	0.570	0.840	0.740	--	0.190	
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	50000	--	51100	48500	--	52500	--	51500	
	Bromate	--	--	ND	--	ND	ND	ND	ND	--	ND	
	Bromide	--	--	130	--	130	130	--	86.0	--	57.0	
	Chlorate	--	--	ND	--	ND	ND	ND	85.0	--	85.0	
	Chloride	--	--	37500	--	31900	33700	--	37700	--	37100	
	Chlorite	--	--	ND	--	ND	ND	ND	ND	--	ND	
	Fluoride	--	--	ND	--	ND	ND	--	130	--	470	
	Phosphorus, Total Orthophosphate (as P)	--	--	150	--	160	170	160	150	--	150	
	Sulfate	--	--	5900	--	6000	6000	--	5900	--	5900	
	Total Organic Carbon	--	--	ND	--	ND	ND	--	ND	--	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	--	ND	ND	--	ND	--	ND	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	--	ND	ND	--	ND	--	ND	
	Petroleum Hydrocarbons (as Oil)	--	--	ND	--	ND	ND	--	ND	--	ND	
	Petroleum Hydrocarbons, Total	--	--	ND	--	ND	ND	--	ND	--	ND	

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				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									
Metals (ppb)	Calcium	--	--	8800	--	8800	8900	9100	8800	--	9000	
	Iron	--	--	11.0	--	ND	ND	ND	ND	--	ND	
	Magnesium	--	--	8300	--	8400	8500	8600	8300	--	8500	
	Manganese	--	--	ND	--	ND	ND	ND	ND	--	ND	
	Potassium	--	--	1400	--	1400	1500	1600	1400	--	1500	
	Silica	--	--	60300	--	59000	60100	59500	60300	--	61400	
	Sodium	--	--	22500	--	23000	23300	23200	23200	--	24400	
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	--	ND	ND	--	ND	--	ND	
	2-Methylnaphthalene	--	--	ND	--	ND	ND	--	ND	--	ND	
	Benzo(a)pyrene	0.2	MCL	ND	--	0.0120	ND	--	ND	--	ND	
	Naphthalene	--	--	ND	--	ND	ND	--	ND	--	ND	
Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--	ND	--	ND	ND	--	ND	--	ND	
	1,2-Dibromoethane (EDB)	--	--	--	--	--	--	--	--	--	ND	
	1,3,5-Trimethylbenzene	--	--	ND	--	ND	ND	--	ND	--	ND	
	2-(2-Methoxy ethoxy)ethanol	--	--	--	--	--	--	ND	--	--	ND	
	Benzene	5	MCL	ND	--	ND	ND	--	ND	--	ND	
	Ethylbenzene	700	MCL	ND	--	ND	ND	--	ND	--	ND	
	m,p-Xylene	--	--	ND	--	ND	ND	--	ND	--	ND	
	o-Xylene	--	--	ND	--	ND	ND	--	ND	--	ND	
	Toluene	1000	MCL	ND	--	ND	ND	--	ND	--	ND	
	Xylenes, Total	10000	MCL	ND	--	ND	ND	--	ND	--	ND	
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	--	ND	ND	--	ND	--	ND	

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				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
		DOH Project Screening Level	Basis of Project Screening Level									
Method Group	Analyte											
Trihalomethanes (ppb)	Bromoform	--	--	ND	--	ND	ND	--	ND	--	ND	
	Chloroform	--	--	ND	--	ND	ND	--	ND	--	ND	
	Dibromochloromethane	--	--	ND	--	ND	ND	--	ND	--	ND	
	Total Trihalomethanes	80	MCL	ND	--	ND	ND	--	ND	--	ND	

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				Location Type:	Well	
				Address:	Waiawa Shaft Post-Chlorination	
				Field Sample ID:	SHAFT-HW-0016021-24153-N	SHAFT-HW-0016021-24153-N-R1
				Sample Date:	2024-06-03	2024-06-05
				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	550		960
Field Test (pH)	pH	--	--	7.35		7.34
Field Test (ms/cm)	Specific Conductivity	--	--	0.330		0.230
Field Test (degrees Celcuis)	Temperature	--	--	34.0		24.8
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.850		0.630
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	51200		--
	Bromate	--	--	--		ND
	Chlorate	--	--	--		66.0
	Chlorite	--	--	--		ND
	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)	Calcium	--	--	8900		9000
	Copper	1300	MCL	12.0		--
	Iron	--	--	ND		ND
	Lead	15	MCL	0.160		--
	Magnesium	--	--	8500		8600
	Manganese	--	--	ND		ND
	Mercury	2	MCL	ND		--
	Potassium	--	--	1500		1500

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				Sample Type:	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level			
Metals (ppb)	Silica	--	--	60300	59700	
	Sodium	--	--	24100	24400	
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	--	
	2-Methylnaphthalene	--	--	ND	--	
	Benzo(a)pyrene	0.2	MCL	ND	--	
	Naphthalene	--	--	ND	--	
Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--	ND	--	
	1,3,5-Trimethylbenzene	--	--	ND	--	
	2-(2-Methoxy ethoxy)ethanol	--	--	--	ND	
	Benzene	5	MCL	ND	--	
	Ethylbenzene	700	MCL	ND	--	
	m,p-Xylene	--	--	ND	--	
	o-Xylene	--	--	ND	--	
	Toluene	1000	MCL	ND	--	
	Xylenes, Total	10000	MCL	ND	--	
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	--	
	Bromoform	--	--	ND	--	
	Chloroform	--	--	ND	--	
	Dibromochloromethane	--	--	ND	--	
	Total Trihalomethanes	80	MCL	ND	--	