

Summary of Chemistry Results
Shaft
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)
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Drinking Water Samples Collected in July 2024 - September 2024 from Source in 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-0017916-24183-N	SHAFT-HW-0017916-24214-N	SHAFT-HW-0017916-24245-N	SHAFT-HW-0017916-24245-N-R1	SHAFT-HW-0016021-24183-N	SHAFT-HW-0016021-24183-N-R1	SHAFT-HW-0016021-24214-N	SHAFT-HW-0016021-24214-N-R1
				Sample Date:	2024-07-11	2024-08-05	2024-09-12	2024-09-18	2024-07-11	2024-07-17	2024-08-05	2024-08-21
				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	--	--	--	--	--	--
	E. coli	--	--	--	--	Absent	--	--	--	--	--	--
Bacterial Test (MPN/mL)	Heterotrophic Plate Count	--	--	ND	59.0	19.0	--	ND	--	ND	--	--
Field Test (ppb)	Free Chlorine	4000	MCL	0.00	0.00	10.0	30.0	560	820	750	880	
Field Test (pH)	pH	--	--	7.02	7.30	7.28	7.27	7.15	7.30	7.31	7.34	
Field Test (ms/cm)	Specific Conductivity	--	--	0.240	0.260	0.260	0.250	0.240	0.260	0.220	0.280	
Field Test (degrees Celcuis)	Temperature	--	--	22.5	26.4	27.7	27.6	23.3	24.8	26.9	24.2	
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.00	0.410	0.800	0.630	0.00	0.610	0.810	0.00	
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	54400	55000	57700	--	54500	--	56600	--	
	Bromate	--	--	ND	ND	ND	--	ND	--	--	ND	
	Bromide	--	--	130	ND	120	--	100	--	--	100	
	Chlorate	--	--	ND	ND	ND	--	70.0	--	--	83.0	
	Chloride	--	--	37000	38200	40700	--	37700	--	--	38500	
	Chlorite	--	--	ND	ND	ND	--	ND	--	--	ND	
	Fluoride	--	--	ND	ND	ND	--	490	--	--	480	
	Phosphorus, Total Orthophosphate (as P)	--	--	160	ND	170	--	160	--	--	150	
	Sulfate	--	--	5900	6200	6300	--	5900	--	--	6000	
	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	--	--	9100	9100	9000	--	9100	--	8700	--	
	Iron	--	--	ND	ND	ND	--	ND	--	ND	--	
	Magnesium	--	--	8700	8600	8500	--	8700	--	8500	--	
	Manganese	--	--	ND	ND	ND	--	ND	--	ND	--	
	Potassium	--	--	1500	1500	1500	--	1500	--	1400	--	
	Silica	--	--	60100	58800	57300	--	60300	--	58400	--	
	Sodium	--	--	23100	22400	22700	--	24200	--	23900	--	
PFAS (EPA Method 533) (ppb)	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	--	--	--	--	--	ND	--	ND	--	--	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	--	--	--	ND	--	ND	--	--	
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	--	--	--	--	--	ND	--	ND	--	--	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	--	--	--	--	ND	--	ND	--	--	
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	--	--	--	--	ND	--	ND	--	--	
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	--	--	--	--	--	ND	--	ND	--	--	
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.01	MCL	--	--	--	ND	--	ND	--	--	
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	--	--	--	--	ND	--	ND	--	--	
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	--	--	--	--	ND	--	ND	--	--	
	Perfluoro-3-methoxypropanoic acid (PFMPA)	--	--	--	--	--	ND	--	ND	--	--	
	Perfluoro-4-methoxybutanoic acid (PFMBA)	--	--	--	--	--	ND	--	ND	--	--	
	Perfluorobutanesulfonic acid (PFBS)	--	--	--	--	--	ND	--	ND	--	--	

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level									
PFAS (EPA Method 533) (ppb)	Perfluorobutanoic acid (PFBA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluorodecanoic acid (PFDA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluorododecanoic acid (PFDoA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluoroheptanesulfonic acid (PFHpS)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluoroheptanoic acid (PFHpA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluorohexanesulfonic acid (PFHxS)	0.01	MCL	--	--	--	--	ND	--	ND	--	--
	Perfluorohexanoic acid (PFHxA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluorononanoic acid (PFNA)	0.01	MCL	--	--	--	--	ND	--	ND	--	--
	Perfluorooctanesulfonic acid (PFOS)	0.004	MCL	--	--	--	--	ND	--	ND	--	--
	Perfluorooctanoic acid (PFOA)	0.004	MCL	--	--	--	--	ND	--	ND	--	--
	Perfluoropentanesulfonic acid (PFPeS)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluoropentanoic acid (PFPeA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluoroundecanoic acid (PFUnA)	--	--	--	--	--	--	ND	--	ND	--	--
PFAS (EPA Method 537.1) (ppb)	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	--	--	--	--	--	--	ND	--	ND	--	--
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	--	--	--	--	ND	--	ND	--	--
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	--	--	--	--	--	--	ND	--	ND	--	--
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.01	MCL	--	--	--	--	ND	--	ND	--	--
	N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	--	--	--	--	--	--	ND	--	ND	--	--

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level									
PFAS (EPA Method 537.1) (ppb)	N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluorobutanesulfonic acid (PFBS)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluorodecanoic acid (PFDA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluorododecanoic acid (PFDoA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluoroheptanoic acid (PFHpA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluorohexanesulfonic acid (PFHxS)	0.01	MCL	--	--	--	--	ND	--	ND	--	--
	Perfluorohexanoic acid (PFHxA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluorononanoic acid (PFNA)	0.01	MCL	--	--	--	--	ND	--	ND	--	--
	Perfluorooctanesulfonic acid (PFOS)	0.004	MCL	--	--	--	--	ND	--	ND	--	--
	Perfluorooctanoic acid (PFOA)	0.004	MCL	--	--	--	--	ND	--	ND	--	--
	Perfluorotetradecanoic acid (PFTeDA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluorotridecanoic acid (PFTrDA)	--	--	--	--	--	--	ND	--	ND	--	--
	Perfluoroundecanoic acid (PFUnA)	--	--	--	--	--	--	ND	--	ND	--	--
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	--	--	ND	ND	ND	--	ND	--	ND	--	--
	2-Methylnaphthalene	--	--	ND	ND	ND	--	ND	--	ND	--	--
	Acenaphthylene	--	--	--	--	ND	--	--	--	--	--	--
	Anthracene	--	--	--	--	ND	--	--	--	--	--	--
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	--	ND	--	ND	--	--
	Benzo(b)fluoranthene	--	--	--	--	ND	--	--	--	--	--	--
	Benzo(g,h,i)perylene	--	--	--	--	ND	--	--	--	--	--	--
	Benzo(k)fluoranthene	--	--	--	--	ND	--	--	--	--	--	--

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level									
Synthetic Organic Compounds (ppb)	Chrysene	--	--	--	--	ND	--	--	--	--	--	--
	Dibenz(a,h)anthracene	--	--	--	--	ND	--	--	--	--	--	--
	Fluorene	--	--	--	--	ND	--	--	--	--	--	--
	Indeno(1,2,3-c,d)pyrene	--	--	--	--	ND	--	--	--	--	--	--
	Naphthalene	--	--	ND	ND	ND	--	ND	--	ND	--	--
	Phenanthrene	--	--	--	--	ND	--	--	--	--	--	--
	Pyrene	--	--	--	--	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	--	--	--	--	--	--	--	--
	Benzene	5	MCL	ND	ND	ND	--	ND	--	ND	--	--
	Cumene	--	--	--	--	ND	--	--	--	--	--	--
	Ethylbenzene	700	MCL	ND	ND	ND	--	ND	--	ND	--	--
	m,p-Xylene	--	--	ND	ND	ND	--	ND	--	ND	--	--
	n-Butylbenzene	--	--	--	--	ND	--	--	--	--	--	--
	n-Propylbenzene	--	--	--	--	ND	--	--	--	--	--	--
	o-Xylene	--	--	ND	ND	ND	--	ND	--	ND	--	--
	sec-Butylbenzene	--	--	--	--	ND	--	--	--	--	--	--
	tert-Butylbenzene	--	--	--	--	ND	--	--	--	--	--	--
	Toluene	1000	MCL	ND	ND	ND	--	ND	--	ND	--	--
	Xylenes, Total	10000	MCL	ND	ND	ND	--	ND	--	ND	--	--

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level									
Trihalomethanes (ppb)	Bromodichloromethane	--	--	--	--	ND	--	ND	--	ND	--	--
	Bromoform	--	--	--	--	ND	--	ND	--	ND	--	--
	Chloroform	--	--	--	--	ND	--	ND	--	ND	--	--
	Dibromochloromethane	--	--	--	--	ND	--	ND	--	ND	--	--
	Total Trihalomethanes	80	MCL	--	--	ND	--	ND	--	ND	--	--

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level			
Bacterial Test (in 100 mL)	Coliform	--	--	Absent	--	
	E. coli	--	--	Absent	--	
Bacterial Test (MPN/mL)	Heterotrophic Plate Count	--	--	47.0	--	
Field Test (ppb)	Free Chlorine	4000	MCL	700	790	
Field Test (pH)	pH	--	--	7.30	7.45	
Field Test (ms/cm)	Specific Conductivity	--	--	0.260	0.260	
Field Test (degrees Celcuis)	Temperature	--	--	27.6	26.9	
Field Test (nephelometric turbidity unit)	Turbidity	5	MCL	0.510	0.620	
General Chemistry (ppb)	Alkalinity, Total (as CaCO3)	--	--	57000	--	
	Bromate	--	--	ND	--	
	Bromide	--	--	94.0	--	
	Chlorate	--	--	80.0	--	
	Chloride	--	--	41200	--	
	Chlorite	--	--	ND	--	
	Fluoride	--	--	380	--	
	Phosphorus, Total Orthophosphate (as P)	--	--	150	--	
	Sulfate	--	--	6200	--	
	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	--	

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Drinking Water Samples Collected in July 2024 - September 2024 from Source in Shaft

				Location ID:	SHFTWAIA-CP-PT	
				Location Type:	Well	
				Address:	Waiawa Shaft Post-Chlorination	
				Field Sample ID:	SHAFT-HW-0016021-24245-N	SHAFT-HW-0016021-24245-N-R1
				Sample Date:	2024-09-12	2024-09-18
				Sample Type:	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level			
Metals (ppb)	Calcium	--	--	9000	--	
	Iron	--	--	ND	--	
	Magnesium	--	--	8500	--	
	Manganese	--	--	ND	--	
	Potassium	--	--	1400	--	
	Silica	--	--	56900	--	
	Sodium	--	--	23800	--	
PFAS (EPA Method 533) (ppb)	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	--	--	--	ND	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	--	ND	
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	--	--	--	ND	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	--	--	ND	
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	--	--	ND	
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	--	--	--	ND	
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.01	MCL	--	ND	
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	--	--	ND	
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	--	--	ND	
	Perfluoro-3-methoxypropanoic acid (PFMPA)	--	--	--	ND	
	Perfluoro-4-methoxybutanoic acid (PFMBA)	--	--	--	ND	
	Perfluorobutanesulfonic acid (PFBS)	--	--	--	ND	

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

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level			
PFAS (EPA Method 533) (ppb)	Perfluorobutanoic acid (PFBA)	--	--	--	ND	
	Perfluorodecanoic acid (PFDA)	--	--	--	ND	
	Perfluorododecanoic acid (PFDoA)	--	--	--	ND	
	Perfluoroheptanesulfonic acid (PFHpS)	--	--	--	ND	
	Perfluoroheptanoic acid (PFHpA)	--	--	--	ND	
	Perfluorohexanesulfonic acid (PFHxS)	0.01	MCL	--	ND	
	Perfluorohexanoic acid (PFHxA)	--	--	--	ND	
	Perfluorononanoic acid (PFNA)	0.01	MCL	--	ND	
	Perfluorooctanesulfonic acid (PFOS)	0.004	MCL	--	ND	
	Perfluorooctanoic acid (PFOA)	0.004	MCL	--	ND	
	Perfluoropentanesulfonic acid (PFPeS)	--	--	--	ND	
	Perfluoropentanoic acid (PFPeA)	--	--	--	ND	
	Perfluoroundecanoic acid (PFUnA)	--	--	--	ND	
PFAS (EPA Method 537.1) (ppb)	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	--	--	--	ND	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	--	ND	
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	--	--	--	ND	
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.01	MCL	--	ND	
	N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--	--	--	ND	

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				Field Sample ID:	SHAFT-HW-0016021-24245-N	SHAFT-HW-0016021-24245-N-R1
				Sample Date:	2024-09-12	2024-09-18
				Sample Type:	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level			
PFAS (EPA Method 537.1) (ppb)	N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	--	--		ND
	Perfluorobutanesulfonic acid (PFBS)	--	--	--		ND
	Perfluorodecanoic acid (PFDA)	--	--	--		ND
	Perfluorododecanoic acid (PFDoA)	--	--	--		ND
	Perfluoroheptanoic acid (PFHpA)	--	--	--		ND
	Perfluorohexanesulfonic acid (PFHxS)	0.01	MCL	--		ND
	Perfluorohexanoic acid (PFHxA)	--	--	--		ND
	Perfluorononanoic acid (PFNA)	0.01	MCL	--		ND
	Perfluorooctanesulfonic acid (PFOS)	0.004	MCL	--		ND
	Perfluorooctanoic acid (PFOA)	0.004	MCL	--		ND
	Perfluorotetradecanoic acid (PFTeDA)	--	--	--		ND
	Perfluorotridecanoic acid (PFTrDA)	--	--	--		ND
	Perfluoroundecanoic acid (PFUnA)	--	--	--		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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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level			
Synthetic Organic Compounds (ppb)	Chrysene	--	--	ND		--
	Dibenz(a,h)anthracene	--	--	ND		--
	Fluorene	--	--	ND		--
	Indeno(1,2,3-c,d)pyrene	--	--	ND		--
	Naphthalene	--	--	ND		--
	Phenanthrene	--	--	ND		--
	Pyrene	--	--	ND		--
Volatile Organic Compounds (ppb)	1,2,4-Trimethylbenzene	--	--	ND		--
	1,3,5-Trimethylbenzene	--	--	ND		--
	Benzene	5	MCL	ND		--
	Cumene	--	--	ND		--
	Ethylbenzene	700	MCL	ND		--
	m,p-Xylene	--	--	ND		--
	n-Butylbenzene	--	--	ND		--
	n-Propylbenzene	--	--	ND		--
	o-Xylene	--	--	ND		--
	sec-Butylbenzene	--	--	ND		--
	tert-Butylbenzene	--	--	ND		--
	Toluene	1000	MCL	ND		--
	Xylenes, Total	10000	MCL	ND		--
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND		--
	Bromoform	--	--	ND		--

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level			
Trihalomethanes (ppb)	Chloroform	--	--	ND	--	
	Dibromochloromethane	--	--	ND	--	
	Total Trihalomethanes	80	MCL	ND	--	