

Joint Base Pearl Harbor Hickam Drinking Water Issue
Eurofins TestAmerica Seattle Laboratory Results - Well Results

Analyte								Benzene	Ethylbenzene	Toluene	Xylenes	Naphthalene	TPH-g (C6-C12)	TPH-d (C9-C25) ^b	TPH-d (C9-C25) with Silica Gel Cleanup	TPH-o (C24- C40) ^b	TPH-o (C24-C40) with Silica Gel Cleanup
CAS No.								71-43-2	100-41-4	108-88-3	1330-20-7	91-20-3	PHCC6C10	PHCC10C24	PHCC10C24SGC	PHCC24C40	PHCC24C40SGC
Method								8260B	8260B	8260B	8260B	8260B	8260B	8015B_E	8015B_E	8015B_E	8015B_E
DOH Tier 1 EAL								5	30	40	20	17	300	400	—	500	—
EPA MCL								5	700	1000	10000	—	—	—	—	—	—
Unit								µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location (General Location / Building)	Specific Location	Field Observations	Sample ID	Sampling Date	Sampling Time	Associated Trip Blank	Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Waiawa PS	well point	Ambient PID: 4.0 ppm, Sampling Point PID: 4.0 ppm, no odor detected,no visual indication of sheen	ERH1975	11/29/2021	20:00	ERH1987	Normal	0.50 U	0.80 U	0.80 U	0.80 U	2.0 U	80 U	310 U	77 U	310 U	77 U
Field QC	—	—	ERH2049	12/3/2021	14:25	—	Trip Blank	0.50 U	0.80 U	0.80 U	1.1 J	2.0 UQ	80 U	—	—	—	—
Red Hill Shaft Well (RHMW2254-01)	bailer sample down manhole	Ambient PID: 0.8 ppm, Above Open Manway PID: 11.4 ppm, Downhole PID: 86.1 ppm; distinct pale yellow layer was observed on top of water	ERH2050	12/3/2021	14:30	ERH2049	Normal	0.50 U	1.4	0.80 U	16.2	44 Q	1200	130000 D	140000 DQ	100 J	60 J
Field QC	—	—	ERH2129	12/5/2021	13:00	—	Trip Blank	0.50 U	0.80 U	0.80 U	3.8	2.0 UQ	80 U	—	—	—	—
Red Hill Shaft Well (RHMW2254-01)	bailer sample down manhole	Ambient PID: 0.4 ppm, Ground near sampling area PID: 38.5 ppm, Bailer Headspace PID: 63.4 ppm, Downhole PID: 194.2 ppm; distinct layer was observed on top of water	ERH2130	12/5/2021	13:05	ERH2129	Normal	0.50 U	0.80 U	0.80 U	5.1	11 Q	950	52000 D	59000 DQ	150 U	28 JQ
Navy Aiea-Halawa Shaft PS Well	Bailer well	Sampling Point PID: 0.0 ppm, no odor detected, no visual indication of sheen	ERH2152	12/8/2021	11:50	ERH4001	Normal	0.50 UQ	0.80 UQ	0.80 UQ	0.80 UQ	2.0 UQ	80 U	300 U	36 J	300 U	75 U

Joint Base Pearl Harbor Hickam Drinking Water Issue
Weck Laboratory Results - Drinking Water Well Results

Analyte								Mercury	TPH-g	TPH-d	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene
CAS No.								7439-97-6	8032-32-4	DRO	71-55-6	79-00-5	75-35-4	120-82-1	107-06-2	78-87-5	156-59-2	156-60-5
Method								245.1	8260	8015 (Weck)	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
DOH Tier 1 EAL								2	300	400	200	5	7	70	5	5	70	100
DOH MCL								2	—	—	200	5	7	70	5	5	70	100
EPA MCL								2	—	—	200	5	7	70	5	5	70	100
Unit								µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location (General Location / Building)	Specific Location	Field Observations	Sample ID	Sampling Date	Sampling Time	Associated Trip Blank	Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Field QC	—	—	ERH4042	12/9/2021	10:00	—	Trip Blank						—	100 U	—			
Navy Aiea-Halawa Shaft PS Well	Bailer well	Ambient PID: 0.0 ppm, Sampling Point PID:0.0 ppm, no odor detected, no visual indication of sheen, no HCl in VOA vials	ERH4048	12/9/2021	10:40	ERH4042	Normal						0.050 U	100 U	100 U	0.50 U	0.50 U	0.50 U
RHMW2254-01	product sample	Water quality data not collected.	ERH2156	12/10/2021	8:40	ERH2161	Normal	310	58,000	52,000	390	430						
RHMW2254-01	low-flow pump	Strong fuel-like odor, thin layer of ~1mm product (LNAPL), contained suspended droplets of slightly opaque NAPL, continued biomat in suspension	ERH2157	12/10/2021	9:40	ERH2161	Normal	18 U	190 J	300.0 U	180 J	190 J						
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2158	12/10/2021	17:30	ERH2161	Normal	18 U	300 U	300 U	300 U	160 J						
Navy Aiea-Halawa Shaft PS Well	Bailer well	No odor or discoloration observed. TDS: 728.16 ppm; pH: 7.27; SpC: 1.12 mS/cm; RDO: 9.19 mg/L; Temp: 24.57 deg C; ORP: 194.7 mV; Sal: 0.6 psu; RDO%: 110.2%; Turbidity: 2.44 NTU.	ERH2159	12/10/2021	13:00	ERH2161	Normal	18 U	300 U	300 U	300 U	300 U						
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2160	12/10/2021	17:30	ERH2161	Normal	18 U	300 U	300 U	300 U	300 U						
Field QC	—	—	ERH2161	12/10/2021	8:35	—	Trip Blank	18 U										
RHMW2254-01	product sample	Water quality data not collected.	ERH2162	12/10/2021	8:40	ERH2167	Duplicate											
RHMW2254-01	low-flow pump	Strong fuel-like odor, thin layer of ~1mm product (LNAPL), contained suspended droplets of slightly opaque NAPL, continued biomat in suspension	ERH2163	12/10/2021	9:40	ERH2167	Duplicate											
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2164	12/10/2021	17:30	ERH2167	Duplicate											
Navy Aiea-Halawa Shaft PS Well	Bailer well	No odor or discoloration observed. TDS: 728.16 ppm; pH: 7.27; SpC: 1.12 mS/cm; RDO: 9.19 mg/L; Temp: 24.57 deg C; ORP: 194.7 mV; Sal: 0.6 psu; RDO%: 110.2%; Turbidity: 2.44 NTU.	ERH2165	12/10/2021	13:00	ERH2167	Duplicate											
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2166	12/10/2021	17:30	ERH2167	Duplicate											
Field QC	—	—	ERH2167	12/10/2021	8:35	—	Trip Blank											
Waiawa PS	well point	Sampling Point PID: 0.0 ppm	ERH4090	12/10/2021	pending	pending	Normal											

Joint Base Pearl Harbor Hickam Drinking Water Issue
Weck Laboratory Results - Drinking Water Well Results

Analyte								Benzene	Carbon tetrachloride	Chlorobenzene	o-Dichlorobenzene	p-Dichlorobenzene	Ethylbenzene	Methylene chloride	Styrene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	m,p-Xylene
CAS No.								71-43-2	56-23-5	108-90-7	95-50-1	106-46-7	100-41-4	75-09-2	100-42-5	127-18-4	108-88-3	79-01-6	75-01-4	179601-23-1
Method								524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
DOH Tier 1 EAL								5	5	50	10	5	30	5	10	5	40	5	2	20
DOH MCL								5	5	100	600	75	700	5	100	5	1000	5	2	10000
EPA MCL								5	5	100	600	-	700	5	100	5	1000	5	2	10000
Unit								µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location (General Location / Building)	Specific Location	Field Observations	Sample ID	Sampling Date	Sampling Time	Associated Trip Blank	Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Field QC	—	—	ERH4042	12/9/2021	10:00	—	Trip Blank													
Navy Aiea-Halawa Shaft PS Well	Bailer well	Ambient PID: 0.0 ppm, Sampling Point PID:0.0 ppm, no odor detected, no visual indication of sheen, no HCl in VOA vials	ERH4048	12/9/2021	10:40	ERH4042	Normal	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
RHMW2254-01	product sample	Water quality data not collected.	ERH2156	12/10/2021	8:40	ERH2161	Normal													
RHMW2254-01	low-flow pump	Strong fuel-like odor, thin layer of ~1mm product (LNAPL), contained suspended droplets of slightly opaque NAPL, continued biomat in suspension	ERH2157	12/10/2021	9:40	ERH2161	Normal													
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2158	12/10/2021	17:30	ERH2161	Normal													
Navy Aiea-Halawa Shaft PS Well	Bailer well	No odor or discoloration observed. TDS: 728.16 ppm; pH: 7.27; SpC: 1.12 mS/cm; RDO: 9.19 mg/L; Temp: 24.57 deg C; ORP: 194.7 mV; Sal: 0.6 psu; RDO%: 110.2%; Turbidity: 2.44 NTU.	ERH2159	12/10/2021	13:00	ERH2161	Normal													
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2160	12/10/2021	17:30	ERH2161	Normal													
Field QC	—	—	ERH2161	12/10/2021	8:35	—	Trip Blank													
RHMW2254-01	product sample	Water quality data not collected.	ERH2162	12/10/2021	8:40	ERH2167	Duplicate													
RHMW2254-01	low-flow pump	Strong fuel-like odor, thin layer of ~1mm product (LNAPL), contained suspended droplets of slightly opaque NAPL, continued biomat in suspension	ERH2163	12/10/2021	9:40	ERH2167	Duplicate													
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2164	12/10/2021	17:30	ERH2167	Duplicate													
Navy Aiea-Halawa Shaft PS Well	Bailer well	No odor or discoloration observed. TDS: 728.16 ppm; pH: 7.27; SpC: 1.12 mS/cm; RDO: 9.19 mg/L; Temp: 24.57 deg C; ORP: 194.7 mV; Sal: 0.6 psu; RDO%: 110.2%; Turbidity: 2.44 NTU.	ERH2165	12/10/2021	13:00	ERH2167	Duplicate													
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2166	12/10/2021	17:30	ERH2167	Duplicate													
Field QC	—	—	ERH2167	12/10/2021	8:35	—	Trip Blank													
Waiawa PS	well point	Sampling Point PID: 0.0 ppm	ERH4090	12/10/2021	pending	pending	Normal													

Joint Base Pearl Harbor Hickam Drinking Water Issue
Weck Laboratory Results - Drinking Water Well Results

								Analyte	o-Xylene	Dibromochlorome thane	Bromoform	THM (total)
								CAS No.	95-47-6	124-48-1	75-25-2	75-25-2
								Method	524.2	524.2	524.2	524.2
								DOH Tier 1 EAL	20	0.93	80	-
								DOH MCL	10000	-	80	-
								EPA MCL	10000	-	-	-
								Unit	µg/L	µg/L	µg/L	µg/L
Location (General Location / Building)	Specific Location	Field Observations	Sample ID	Sampling Date	Sampling Time	Associated Trip Blank	Type	Result	Result	Result	Result	
Field QC	—	—	ERH4042	12/9/2021	10:00	—	Trip Blank					
Navy Aiea-Halawa Shaft PS Well	Bailer well	Ambient PID: 0.0 ppm, Sampling Point PID:0.0 ppm, no odor detected, no visual indication of sheen, no HCl in VOA vials	ERH4048	12/9/2021	10:40	ERH4042	Normal	0.50 U	0.50 U	0.50 U	0.50 U	
RHMW2254-01	product sample	Water quality data not collected.	ERH2156	12/10/2021	8:40	ERH2161	Normal					
RHMW2254-01	low-flow pump	Strong fuel-like odor, thin layer of ~1mm product (LNAPL), contained suspended droplets of slightly opaque NAPL, continued biomat in suspension	ERH2157	12/10/2021	9:40	ERH2161	Normal					
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2158	12/10/2021	17:30	ERH2161	Normal					
Navy Aiea-Halawa Shaft PS Well	Bailer well	No odor or discoloration observed. TDS: 728.16 ppm; pH: 7.27; SpC: 1.12 mS/cm; RDO: 9.19 mg/L; Temp: 24.57 deg C; ORP: 194.7 mV; Sal: 0.6 psu; RDO%: 110.2%; Turbidity: 2.44 NTU.	ERH2159	12/10/2021	13:00	ERH2161	Normal					
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2160	12/10/2021	17:30	ERH2161	Normal					
Field QC	—	—	ERH2161	12/10/2021	8:35	—	Trip Blank					
RHMW2254-01	product sample	Water quality data not collected.	ERH2162	12/10/2021	8:40	ERH2167	Duplicate					
RHMW2254-01	low-flow pump	Strong fuel-like odor, thin layer of ~1mm product (LNAPL), contained suspended droplets of slightly opaque NAPL, continued biomat in suspension	ERH2163	12/10/2021	9:40	ERH2167	Duplicate					
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2164	12/10/2021	17:30	ERH2167	Duplicate					
Navy Aiea-Halawa Shaft PS Well	Bailer well	No odor or discoloration observed. TDS: 728.16 ppm; pH: 7.27; SpC: 1.12 mS/cm; RDO: 9.19 mg/L; Temp: 24.57 deg C; ORP: 194.7 mV; Sal: 0.6 psu; RDO%: 110.2%; Turbidity: 2.44 NTU.	ERH2165	12/10/2021	13:00	ERH2167	Duplicate					
Waiawa PS	well point	No odor or discoloration observed. TDS: 163.09 ppm; pH: 7.66; SpC: 0.25 mS/cm; RDO: 8.85 mg/L; Temp: 22.15 deg C; ORP: 153.5 mV; Sal: 0.1 psu; RDO: 8.85 mg/L; Turbidity: 0.92 NTU.	ERH2166	12/10/2021	17:30	ERH2167	Duplicate					
Field QC	—	—	ERH2167	12/10/2021	8:35	—	Trip Blank					
Waiawa PS	well point	Sampling Point PID: 0.0 ppm	ERH4090	12/10/2021	pending	pending	Normal					