Joint Base Pearl Harbor-Hickam

March 2022 Results

							Trip Blank	NPDES Effluent Outfall	Inflowing Creek	Red Hill Shaft	NPDES Effluent Duplicate	Trip Blank	Red Hill Shaft	NPDES Effluent Outfall	Inflowing Creek	Trip Blank	Red Hill Shaft	NPDES Effluent Outfall	Inflowing Creek	Trip Blank	Red Hill Shaft	Inflowing Creek	Trip Blank	Red Hill Shaft	NPDES Effluent Outfall	Inflowing Creek
						Location	Red Hill Shaft		Red Hill Shaft	Halawa Stream			Red Hill Shaft	Halawa Stream	Halawa Stream		Red Hill Shaft	Halawa Stream	Halawa Stream		Red Hill Shaft	Halawa Stream		Red Hill Shaft	Halawa Stream	Halawa Stream
						Receiving Water Body	--		Halawa Stream	No odor, no sheen, clear water observed.			Halawa Stream	No odor, no sheen, clear water observed.	No odor, no sheen, clear water observed.		Halawa Stream	No odor, no sheen, clear water observed.	No odor, no sheen, clear water observed.		Halawa Stream	No odor, no sheen, clear water observed.		Halawa Stream	No odor, no sheen, clear water observed.	No odor, no sheen, clear water observed.
						Field Observations	--		No odor, no sheen, clear water observed.				No odor, no sheen, clear water observed.				No odor, no sheen, clear water observed.				No odor, no sheen, clear water observed.			No odor, no sheen, clear water observed.		
						Sample ID	RHS-BF-TRAN-03-030122-N		RHS-BF-TRAN-03-030122-N		RHS-BF-TRAN-03-030122-N; RHS-BF-TRAN-03-030522-N (renewal); RHS-BF-TRAN-03-031122-N (renewal)	RHS-BF-TRAN-02-030722-N; RHS-BF-TRAN-03-030522-N (renewal); RHS-BF-TRAN-03-031122-N (renewal); RHS-BF-TRAN-03-031722-N (renewal)	RHS-FB-TRAN-01-030822-N	RHS-BF-TRAN-01-030822-N	RHS-BF-TRAN-01-030822-N	RHS-BF-TRAN-01-030822-N	RHS-BF-TRAN-01-030822-N	RHS-FB-TRAN-03-031422-N	RHS-BF-TRAN-03-031422-N	RHS-BF-TRAN-02-031422-N	RHS-FB-TRAN-03-032222-N	RHS-BF-TRAN-03-032222-N	RHS-BF-TRAN-03-032222-N	RHS-FB-TRAN-01-032822-N	RHS-BF-TRAN-01-032822-N	RHS-BF-TRAN-03-032822-N
						Sample Date	3/1/22		3/1/22		3/1/22 to 3/11/22	3/7/22 to 3/11/22	3/8/22	3/8/22	3/8/22	3/8/22	3/8/22	3/16/22	3/16/22	3/16/22	3/23/22	3/23/22	3/23/22	3/28/22	3/28/22	3/28/22
						Sample Time	10:30		10:30		7:130	9:15 to 23:45	9:30	10:30	10:30	9:05	9:05	9:05	9:05	9:05	9:05	9:05	9:05	9:15	9:15	9:05
						Type	Trip Blank		Normal		Normal	Normal	Trip Blank	Normal	Normal	Normal	Trip Blank	Normal	Normal	Normal	Trip Blank	Normal	Normal	Trip Blank	Normal	Normal	Normal
						Lab	Eurofins Seattle		Weck + Eurofins		Weck-Laulima	Weck-Laulima	Eurofins	Weck + Eurofins	Weck + Eurofins	Weck + Eurofins	Eurofins	Weck + Eurofins	Weck + Eurofins	Weck + Eurofins	Eurofins	Weck + Eurofins	Weck + Eurofins	Eurofins	Weck + Eurofins	Weck + Eurofins	Weck + Eurofins
						SDG	1108663		1108663.1,2,3C03078		82499	82681	1112944.1	1112944.1,2,3C11029	1112944.1,2,3C11029	1112944.1,3C11029	1112943.1	1117222.1,3C17030	1117222.1,3C17032	1117456.1	1117786.1	1117786.1,3C20607	1117786.1,3C20607	1120289.1	1120289.1	1120289.2
Test Method	Analyte	CAS No.	NPDES Permit Requirement	NPDES Effluent Limit (Freshwater)	DWDSWP Action Level	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
8260	TPHg (C6-C12)	Gas	X	Report	500	µg/L	37.0 U	37.0 U	37.0 U	--	--	--	37.0 U *+	37.0 U *+	37.0 U *+	37.0 U	37.0 U	37.0 U	37.0 U	37.0 U	37.0 U	37.0 U	37.0 U	37.0 U	37.0 U	37.0 U
8015	TPHd (C8-C26)	Diesel	X	Report	500	µg/L	--	161 U	161 U	--	--	--	--	161	161 U	--	--	161 U	161 U	--	--	161 U	161 U	--	161 U	161 U
8015	TPHo (C24-C40)	Oil	--	--	900	µg/L	--	380 U	380 U	--	--	--	--	380 U	380 U	--	--	380 U	380 U/R	--	--	380 U	380 U	--	380 U	380 U
8260	Benzene	71-43-2	X	1800	500	µg/L	0.30 U	0.30 U	0.30 U	--	--	--	0.30 U *+	0.30 U *+	0.30 U *+	0.30 U *+	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
8260	Ethylbenzene	100-41-4	X	11000	7.3	µg/L	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	0.50 U	0.50 U	0.50 U	0.50 U
8260	Toluene	108-88-3	X	9800	9.6	µg/L	0.38 U	0.38 U	0.38 U	--	--	--	0.38 U *+, *1	0.38 U *+, *1	0.38 U *+, *1	0.38 U *+, *1	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
8260	m,p-Xylene	179601-23-1	--	--	--	µg/L	0.63 U	0.63 U	0.63 U	--	--	--	0.63 U *+	0.63 U *+	0.63 U *+	0.63 U *+	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
8260	o-Xylene	95-47-6	--	--	--	µg/L	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	0.50 U	0.50 U	0.50 U	0.50 U
8260	Xylenes, Total	1330-20-7	X	Report	10	µg/L	0.63 U	0.63 U	0.63 U	--	--	--	0.63 U *+	0.63 U *+	0.63 U *+	0.63 U *+	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
9010	Total lead	7439-92-1	X	25	--	µg/L	0.1 J	--	--	--	--	--	0.02 U *+	2.9 J	2.7 J	--	--	--	0.7 J	--	--	0.6 J	--	--	7.6 J	--
6020A2	Organic lead	75-09-2/ 78-74-1	X	Report	--	µg/L	--	0.67 U	--	--	--	--	--	0.67 U	0.67 U	--	--	--	0.67 U	--	--	0.67 U	--	--	0.67 U	--
EPA 821 / EQ-0312	Whole effluent toxicity	--	X	Pass*	--	--	--	--	--	--	Pass	Pass	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9040B	Residual chlorine	7782-50-5	--	--	--	mg/L	--	--	--	--	<0.1	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8270	1-methylnaphthalene	90-12-0	--	--	8.1	µg/L	--	0.078 U	--	--	--	--	--	0.078 U	0.078 U	--	--	0.078 U	--	--	--	0.078 U	--	--	0.078 J	--
8270	2-methylnaphthalene	91-57-6	--	--	4.7	µg/L	--	0.0857 U	--	--	--	--	--	0.057 U	0.057 U	--	--	0.057 U	--	--	--	0.143 J	--	--	--	--
8270	Naphthalene	91-20-3	--	--	12	µg/L	--	0.057 U	--	--	--	--	--	0.133 U	0.057 U	--	--	0.057 U	--	--	--	0.057 U	--	--	0.057 J	--
1666	2-(2-Methoxyethoxy)ethanol	111-77-3	--	--	--	µg/L	--	43 U	43 U	--	--	--	--	43 U	43 U	43 U	--	43 U	43 U	43 U	--	43 U	43 U	--	--	--
Field	Flow	--	X	Report	--	gal/day	--	16666000	--	40156800	--	--	--	19850000	--	43200000	43200000	--	12850000	41104000	--	14736000	39600000	39600000	13824000	--
Field	pH	--	X	6.5-9.0	--	s.u.	--	7.46	--	7.88	--	--	--	7.42	--	7.68	7.68	--	7.82	7.68	--	7.82	7.64	--	7.88	8.36
Field	Temperature	--	--	--	Report	deg C	--	26.6	--	26.1	--	--	--	27.6	--	26.7	26.7	--	27.1	26.8	--	27.1	26.6	--	27.1	27.5
Field	Conductivity	--	--	--	Report	µS/cm	--	686	--	686	--	--	--	661	--	626	626	--	649	598	--	642	661	--	631	602
Field	Turbidity	--	--	--	Report	NTU	--	0.56	--	0.20	--	--	--	0.12	--	1.02	1.02	--	0.16	0.16	--	0.14	0.16	--	0.16	0.12

March 2022 NPDES DMR Summary [1]

NPDES Effluent Limit (Freshwater)	Units	Min	Average	Max
Report	mg/L	0.0371 U	0.0371 U	0.0371 U
Report	mg/L	0.0911 U	0.0911 U	0.092 U
1.8	mg/L	0.000015 U	0.000054 J	0.000207 J
11	mg/L	0.00005 U	0.00005 U	0.00005 U
0.8	mg/L	0.00038 U	0.00038 U	0.00038 U
Report	mg/L	0.00003 U	0.00003 U	0.00003 U
0.029	mg/L	0.0025 J	0.00062 J	0.00972 J
Report	mg/L	0.00067 U	0.00067 U	0.00067 U
Pass*	--	Pass	Pass	Pass
Report	gal/ day		4,171,566	4,519,800
6.5-9.0	s.u.	7.82	7.95	7.96

Blue highlighted cells = NPDES permit requirements

Notes:

1 - Reporting results to the highest detection limit.

2 - Total TPH is the "sum" or "tpt" in accordance with HAR 11-59, Appendix D, Section 7.

3 - Total TPHd is the manual calculation of the total detected concentrations of TPHg, TPHd, and TPHo. If all values are non-detect, the total value is the highest limit of detection of TPH-g, TPH-d, and TPH-o.

4 - Total xylenes is the manual calculation of the total detected concentrations of m,p-Xylene and o-Xylene. If all values are non-detect, the total value is the highest limit of detection of m,p-Xylene and o-Xylene.

5 - The mg/L units in the DMR Summary reflect the effluent limitations specified in the NPDES permit. Average values were calculated using detected concentrations. For analytes in which all samples were non-detect, the average was calculated based on the limits of detection.

Bold text indicates indicates a detected concentration above the laboratory limit of detection.

Blue highlighted cells indicate a detection exceeds the NPDES permit limitation or the Drinking Water Distribution System Recovery Plan screening criteria.

-- = not analyzed or not applicable

CAS = Chemical Abstracts Service

B = compound was found in the blank and sample

J = estimated value

U = not detected

*+ = LCS and/or LCSD is outside acceptance limits, high biased

*1 = LCS/LCSD RPD exceeds control limits

R = results reported are unusable and analyte beyond the specified hold time

ng/L = nanogram per liter (same as parts per billion)

mg/L = milligram per liter

µS/cm = microsiemens per centimeter

NTU = nephelometric turbidity unit