

FQ Labs

Tai Khan Laboratory Director 808-839-9444
3170 Ualena St. Unit A
Honolulu HI 96819

Account # 3201

USEPA Lab ID HI00924
Study # 0078
Study Type WPCHEM

NPDES ID # HI0110141 00
Open Date 04/15/2019
Close Date 05/29/2019

NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part#55024	Lot#WP0078	WP & DMRQA Trace Elements			AMP 1	Invoice#177138		Units ug/L	
1000	Aluminum	1606	EPA 200.8-1998		1665	1699	1405	1952	ACCEPT.
1010	Arsenic	1606	EPA 200.8-1998		729	709	599	810	ACCEPT.
1030	Cadmium	1606	EPA 200.8-1998		851	819	696	942	ACCEPT.
1040	Chromium	1606	EPA 200.8-1998		471	460	391	529	ACCEPT.
1050	Cobalt	1606	EPA 200.8-1998		693	689	586	792	ACCEPT.
1055	Copper	1606	EPA 200.8-1998		787	859	730	988	ACCEPT.
1070	Iron	1606	EPA 200.8-1998		487	470	400	541	ACCEPT.
1075	Lead	1606	EPA 200.8-1998		709	719	611	827	ACCEPT.
1090	Manganese	1606	EPA 200.8-1998		951	989	841	1137	ACCEPT.
1095	Mercury	1606	EPA 200.8-1998		14.9	15.0	10.5	19.5	ACCEPT.
1105	Nickel	1606	EPA 200.8-1998		699	699	613	790	ACCEPT.
1140	Selenium	1606	EPA 200.8-1998		315	310	264	357	ACCEPT.
1185	Vanadium	1606	EPA 200.8-1998		152	150	128	173	ACCEPT.
1190	Zinc	1606	EPA 200.8-1998		1593	1519	1291	1747	ACCEPT.

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Part#55025	Lot#WP0078	WP Trace Elements - DMRQA			AMP 2			Invoice# 177138	Units ug/L
1005	Antimony	1606	EPA 200.8-1998		877	889	732	1020	ACCEPT.
1020	Beryllium	1606	EPA 200.8-1998		125	120	102	138	ACCEPT.
1100	Molybdenum	1606	EPA 200.8-1998		327	310	266	351	ACCEPT.
1160	Strontium	1606	EPA 200.8-1998		285	280	238	322	ACCEPT.
1165	Thallium	1606	EPA 200.8-1998		395	430	352	501	ACCEPT.
1180	Titanium	1606	EPA 200.8-1998		241	230	196	265	ACCEPT.
1150	Silver	1606	EPA 200.8-1998		432	430	366	495	ACCEPT.
1015	Barium	1606	EPA 200.8-1998		1527	1529	1300	1758	ACCEPT.
1025	Boron	1606	EPA 200.8-1998		983	929	790	1068	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part#55026	Lot#WP0078	WP	Conductance @ 25°C - DMRQA	@ 25 C				Invoice# 177138	Units umhos/cm
1610	Specific Conductance @ 25 C	1580	EPA 120.1-1982		410	428	385	471	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part#55035	Lot#WP0078	WP & DMRQA Nutrients	Inorganic				Invoice# 177138		Units mg/L
1515	Ammonia as N	1758	EPA 350.1-1993		.187	9.50	7.55	11.4	NOT ACCEPT.
1810	Nitrate as N	1767	EPA 353.1-1978		5.32	5.16	4.17	6.12	ACCEPT.
1870	Orthophosphate as P	1780	EPA 365.3-1978		2.42	2.36	2.01	2.71	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part#55038	Lot#WP0078	WP & DMRQA Total Phenolics						Invoice# 177138	Units mg/L
1905	Total Phenolics	1805	EPA 420.1-1978		.560	0.587	.289	.884	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part# 55055	Lot# WP0078	WP & DMRQA Demands			TOC,COD,BOD,CBOD		Invoice# 177138		Units mg/L
1530	5-Day BOD	7700	SM 5210 B-1992		189	140	75.8	204	ACCEPT.
1555	Carbonaceous BOD	7700	SM 5210 B-1992		154	127	59.6	194	ACCEPT.
1565	Chemical Oxygen Demand	1801	EPA 410.4-1993		260	238	194	274	ACCEPT.
2040	Total Organic Carbon	8730	SM 5310 C		84.0	94.0	79.1	108	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part# 55061	Lot# WP0078	WP pH @ 25°C - DMRQA						Invoice# 177138	Units pH
1900	pH	1419	SM 4500-H+-B 2011 22nd		7.26	7.30	7.1	7.5	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part#55062	Lot#WP0078	WP & DMRQA Total Residual Chlorine						Invoice# 177138	Units mg/L
1940	Total Residual Chlorine	1746	EPA 330.5-1978		.932	0.914	.683	1.1	ACCEPT.
1740	Free Chlorine	1746	EPA 330.5-1978		.928	0.914	.683	1.1	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part#55064	Lot#WP0078	WP & DMRQA Nutrients #2	TKN / Total P				Invoice# 177138		Units mg/L
1795	Total Kjeldahl Nitrogen	1763	EPA 351.2-1993		3.82	3.17	2.09	4.52	ACCEPT.
1910	Total Phosphorus	1778	EPA 365.1-1993		4.47	4.74	3.92	5.51	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part# 55065	Lot# WP0078	WP & DMRQA Total Cyanide						Invoice# 177138	Units mg/L
1645	Total Cyanide	1765	EPA 351.4-1978		.856	0.819	.532	1.11	ACCEPT.

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NELAC #	Component	Method Code	Method Description	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part# 55084	Lot# WP0078	WP Oil & Grease + TPH (n-Hexadecane & EPA Method 1664 - DMRQA				Invoice# 177138		Units mg/L
1803	Oil & Grease	1957	EPA 1664A-1999	37.5	53.0	34.5	64.3	ACCEPT.
1935	TPH	1957	EPA 1664A-1999	13.6	26.5	10.8	38.2	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part# 55085	Lot# WP0078	Solids (Total Solids, TSS, & TDS)			DMRQA	Invoice# 177138		Units mg/L	
1950	Total Solids	1590	EPA 160.3-1971		418	434	389	479	ACCEPT.
1955	Total Dissolved Solids (TDS)	1012	EPA 160.1-1971		336	346	301	391	ACCEPT.
1960	Total Suspended Solids (TSS)	8482	SM 2540D-2011		83.0	87.8	72.1	97.4	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part# 55087	Lot# WP0078	Settleable Solids - DMRQA						Invoice# 177138	Units mL/L
1965	Settleable solids (Volumetric)	7142	EPA 160.5-1979		5.00	5.60	3.47	8.2	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part#55101	Lot#WP0078	WP Turbidity - DMRQA						Invoice# 177138	Units NTU
2055	Turbidity	1594	EPA 180.1-1993		22.0	22.6	19	26.3	ACCEPT.

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NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part# 55130	Lot# WP0078	WP Nitrate & Nitrite - DMRQA			3 Components		Invoice# 177138		Units mg/L
1840	Nitrite as N	1767	EPA 353.1-1978		0	1.32	1.09	1.54	NOT ACCEPT.
1810	Nitrate as N	1767	EPA 353.1-1978		.021	5.92	4.81	7	NOT ACCEPT.
1820	Nitrite + Nitrate as N	1767	EPA 353.1-1978		.021	7.24	5.98	8.43	NOT ACCEPT.

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Part# 55144	Lot# WP0078	WP Minerals #1 - DMRQA						Invoice# 177138	Units mg/L
1035	Calcium	1606	EPA 200.8-1998		49.7	49.3	41.9	56.7	ACCEPT.
1575	Chloride	1740	EPA 325.2-1978		165	152	134	170	ACCEPT.
1755	Total Hardness (CaCO3)	1582	EPA 130.2-1971		210	216	184	248	ACCEPT.
1085	Magnesium	1606	EPA 200.8-1998		21.0	22.5	19.1	25.9	ACCEPT.
1550	Calcium Hardness (CaCO3)	8714	SM 2340B-2011		124	123	105	141	ACCEPT.

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Part# 55145		Lot# WP0078 WP Minerals #2 - DMRQA					Invoice# 177138		Units mg/L
1505	Total Alkalinity (CaCO3)	1733	EPA 310.1-1978		30.2	30.1	25.6	34.6	ACCEPT.
1730	Fluoride	1754	EPA 340.3-1971		2.06	2.05	1.63	2.4	ACCEPT.
1125	Potassium	1606	EPA 200.8-1998		32.9	34.3	27.4	41.2	ACCEPT.
1155	Sodium	1606	EPA 200.8-1998		15.4	16.3	13	19.6	ACCEPT.
2000	Sulfate	1788	EPA 375.4-1978		44.0	42.1	34.4	48.3	ACCEPT.

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