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Golden, CO 80403

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## Preliminary Report - Soil / Hazardous Waste PT

### Study: HW0122

Opening Date: January 31, 2022 - Closing Date: March 17, 2022

Laboratory: Hawaii Analytical Laboratory, LLC  
3615 Harding Ave Ste 308  
Honolulu, HI 96816  
USA

Contact: Ms. Anne Antin  
8087350422

EPA Lab ID:

### Pesticides (PT-PEST-SOIL) Lot #: 7087-14

NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
7025	Aldrin	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	275	215.4	78.0 - 347	Acceptable
7110	alpha-BHC	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	245	201.1	70.6 - 331	Acceptable
7115	beta-BHC	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	274	214.9	73.6 - 366	Acceptable
7105	delta-BHC	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	244	184.4	57.3 - 325	Acceptable
7120	gamma-BHC (Lindane)	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	264	211.9	70.0 - 356	Acceptable
7240	alpha-Chlordane	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	406	299.3	144 - 523	Acceptable
7245	gamma-Chlordane	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	116	90.3	42.4 - 152	Acceptable
7355	4,4'-DDD	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	260	226.2	83.1 - 355	Acceptable
7360	4,4'-DDE	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	412	322.2	144 - 547	Acceptable
7365	4,4'-DDT	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	130	94.8	26.4 - 184	Acceptable
7470	Dieldrin	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	200	153.6	72.3 - 266	Acceptable
7510	Endosulfan I	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	126	79.6	25.3 - 154	Acceptable
7515	Endosulfan II	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	370	260.2	98.8 - 454	Acceptable
7520	Endosulfan sulfate	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	329	228.2	72.2 - 475	Acceptable
7540	Endrin	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	109	94.3	31.3 - 154	Acceptable
7530	Endrin aldehyde	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	271	92.9	27.1 - 299	Acceptable
7535	Endrin ketone	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	198	143.2	46.3 - 271	Acceptable
7685	Heptachlor	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	67.0	55.3	15.7 - 93.8	Acceptable
7690	Heptachlor epoxide	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	154	117.0	50.3 - 198	Acceptable
7810	Methoxychlor	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	81.9	66.7	8.19 - 148	Acceptable

### Chlordane (PT-CHLR-SOIL) Lot #: 7087-15B

NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
7250	Chlordane	3/15/2022	wr	10178811	EPA 8081B Rev.2 2007	µg/kg	622	509.9	142 - 853	Acceptable

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### TCLP Metals (PT-TCLPMET-SOIL)

Lot #: 7087-52

NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
<b>Additional State Specific Analytes</b>										
1005	Antimony					mg/L	3.69		2.80 - 4.40	NR
1010	Arsenic	3/16/2022	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	3.91	3.73	3.13 - 4.87	Acceptable
1015	Barium	3/16/2022	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	2.98	2.94	2.33 - 3.50	Acceptable
1020	Beryllium					mg/L	4.25		3.11 - 5.09	NR
1025	Boron					mg/L	4.28		3.08 - 5.33	NR
1030	Cadmium	3/16/2022	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	3.92	3.57	3.10 - 4.61	Acceptable
1040	Chromium	3/16/2022	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	1.23	1.29	0.971 - 1.41	Acceptable
1050	Cobalt					mg/L	3.80		2.84 - 4.41	NR
1055	Copper					mg/L	3.96		2.92 - 4.81	NR
1075	Lead	3/16/2022	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	1.82	1.85	1.38 - 2.11	Acceptable
1095	Mercury	3/16/2022	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	1.64	0.612	0.649 - 1.86	Not Acceptable
1105	Nickel					mg/L	3.26		2.54 - 3.84	NR
1140	Selenium	3/16/2022	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	4.57	4.08	3.51 - 5.62	Acceptable
1150	Silver	3/16/2022	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	2.18	2.01	1.33 - 2.75	Acceptable
1165	Thallium					mg/L	3.32		2.11 - 3.95	NR
1190	Zinc					mg/L	1.26		0.956 - 1.56	NR