

Kwan, Roxanne S

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Sent: Wednesday, February 6, 2019 9:39 AM
To: Kwan, Roxanne S
Cc: Takaba, Richard R; Waki, Cory K CIV NAVFAC HI, EV1; KISHABA, Raelynn I EV, EV12
Subject: Soil Vapor - Dec 2018
Attachments: DOH Memo - Dec 2018, 5 Feb 2019.pdf; RHFS - Avg SV Readings (Sept 2015 - Present).xlsx

Follow Up Flag: Follow up
Flag Status: Flagged

Ms. Kwan

Attached mailed out today.

v/r

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AVERAGE SOIL VAPOR CONCENTRATION READINGS																	
DATE	SV02 S	SV02 M	SV02 D	SV03 S	SV03 M	SV03 D	SV04 S	SV04 M	SV04 D	SV05 S	SV05 M	SV05 D	SV06 S	SV06 M	SV06 D	SV07 S	SV07 M
9/23/2015	341	305	311	2,316	1,334	1,223	460	376	304	148,667	103,123	126,433	486	130	NC	0	0
10/20/2015	276	314	323	488	552	619	489	541	627	170,300	113,700	176,267	1,881	586	NC	474	NC
11/18/2015	NC	NC	NC	469	451	435	425	395	405	153,333	92,350	153,867	NC	NC	NC	328	NC
12/17/2015	320	904	226	418	434	506	323	310	320	267,467	155,000	317,400	1,620	739	NC	596	NC
1/20/2016	739	616	731	844	908	963	543	557	602	303,367	66,763	165,267	1,548	846	NC	719	NC
2/17/2016	671	664	662	761	801	888	617	594	585	295,600	146,400	211,900	1,763	966	NC	699	NC
3/15/2016	550	565	512	747	832	841	520	515	501	319,000	161,667	226,233	1,797	1,025	NC	849	NC
4/20/2016	454	445	393	732	784	855	419	407	428	133,033	8,558	55,437	1,347	574	NC	465	NC
5/23/2016	802	856	782	1,194	1,217	1,382	1,054	1,023	1,093	115,567	7,928	29,933	2,122	1,277	NC	1,349	NC
6/21/2016	466	464	473	703	692	763	622	567	552	151,600	7,927	28,517	1,668	690	NC	665	NC
7/22/2016	516	489	519	740	736	710	575	526	538	96,967	16,083	76,673	1,176	437	NC	377	NC
8/23/2016	396	390	390	518	516	518	360	387	381	74,483	5,934	32,787	1,312	526	NC	889	NC
9/21/2016	516	467	500	348	646	602	660	506	630	53,800	9,014	19,333	621	335	NC	360	428
10/19/2016	426	332	345	652	662	727	532	605	751	95,847	17,870	58,557	1,322	654	NC	844	783
11/17/2016	289	272	252	469	512	540	306	279	297	111,200	9,117	25,713	1,379	494	NC	904	722
12/20/2016	543	533	469	748	757	802	520	543	552	82,860	23,123	26,447	1,234	637	NC	539	599
1/31/2017	477	443	388	589	618	560	407	352	349	98,227	21,063	34,947	1,091	302	NC	168	329
2/22/2017	387	291	679	452	454	438	351	332	332	103,867	12,767	28,187	1,350	438	NC	484	536
3/24/2017	323	321	301	449	417	458	343	285	320	64,780	16,317	41,823	781	219	NC	286	299
4/20/2017	461	472	436	458	480	479	529	465	496	59,747	8,923	43,980	1,074	494	NC	441	494
5/26/2017	1,646	1,321	1,223	1,628	1,447	1,474	1,746	1,259	1,390	79,537	22,097	35,480	3,201	1,291	NC	1,928	1,526
6/22/2017	624	502	556	654	583	699	451	568	503	55,877	7,411	24,643	1,815	830	NC	833	747
7/21/2017	604	510	502	731	702	667	539	560	637	50,333	6,207	15,490	1,135	487	NC	633	634
8/23/2017	519	508	503	582	576	608	550	533	596	40,520	7,577	25,833	1,187	521	NC	924	759
9/21/2017	296	269	296	412	332	394	315	276	279	31,050	5,682	17,273	662	253	NC	396	343
10/26/2017	297	289	292	370	373	373	318	271	301	24,613	7,342	4,987	746	336	NC	516	486
11/29/2017	248	269	241	281	292	345	281	218	195	21,623	1,424	10,240	747	220	NC	224	247
12/19/2017	310	294	292	373	363	410	323	300	315	24,653	13,310	14,453	685	340	NC	283	332
1/24/2018	157	158	90	226	242	241	158	156	146	19,520	3,957	15,060	912	247	NC	297	303
2/21/2018	264	254	410	361	302	341	279	306	339	13,157	13,307	11,527	1,037	481	NC	410	314
3/20/2018	285	285	412	421	351	540	397	255	307	13,113	4,562	5,305	701	343	NC	470	381
4/25/2018	356	324	353	456	436	357	302	276	284	6,616	1,439	6,069	757	305	NC	423	387
5/22/2018	340	292	271	531	558	475	299	307	271	2,013	1,632	2,149	1,190	398	NC	492	454
6/20/2018	418	659	707	559	621	466	443	443	414	1,604	1,533	1,772	1,259	547	NC	559	386
7/25/2018	384	350	343	361	371	440	343	337	359	1,636	1,592	2,003	1,069	359	NC	366	285
8/21/2018	354	331	400	436	424	395	314	309	316	972	1,482	1,361	1,047	326	NC	279	293
8/30/2018	425	441	434	534	502	589	460	463	456	1,487	1,507	1,768	1,255	466	NC	443	439
9/18/2018	75	129	267	205	302	450	202	127	125	670	1,103	1,211	480	158	NC	270	183
10/30/2018	210	217	280	201	238	391	177	178	214	503	802	725	402	157	NC	125	139
11/20/2018	339	371	394	400	384	461	381	339	308	1,084	1,415	1,379	717	372	NC	284	288
12/18/2018	403	438	419	450	462	482	447	451	397	652	1628	1424	714	377	NC	447	313

NC: Not collected

NC₂: Not collected due to obstruction in vapor line.

SV07 D	SV08 S	SV08 M	SV08 D	SV09 S	SV09 M	SV09 D	SV10 S	SV10 M	SV10 D	SV11 S	SV11 M	SV11 D	SV12 S	SV12 M	SV12 D	SV13 S	SV13 M	SV13 D	SV14 S
113	0	0	0	5	11	44	71	3	NC	NC	2,584	NC	64	8	1	37	10	59	148
569	339	412	373	388	357	476	380	318	NC	NC	3,045	NC	584	371	334	270	242	286	295
96,503	87	93	69	103	89	97	103	77	NC	NC	2,714	NC	207	101	99	115	98	125	118
3,086	486	538	494	399	420	390	403	403	NC	NC	1,071	NC	541	510	514	393	382	350	406
714	642	644	635	647	703	693	608	667	NC	NC	1,534	NC	618	630	573	502	530	707	546
832	611	633	608	590	591	567	574	541	NC	NC	2,316	NC	616	530	543	567	542	615	539
956	581	596	599	635	633	662	608	570	NC	NC	947	NC	465	421	381	373	379	407	523
626	763	805	810	893	923	951	535	450	NC	NC	1,133	NC	391	410	456	344	378	451	368
1,403	1,557	1,597	1,691	1,437	1,466	1,797	1,342	1,273	NC	NC	1,271	NC	1,008	847	971	1,044	1,075	1,233	877
796	590	590	632	604	680	701	595	549	NC	NC	968	NC	623	539	675	285	364	436	427
427	287	293	309	292	298	347	298	253	NC	NC	522	NC	342	286	346	222	224	292	264
826	533	553	629	477	490	526	479	459	NC	NC	498	NC	312	278	275	392	272	306	314
389	293	278	276	312	262	379	295	239	NC	NC	273	NC	321	231	235	270	259	295	157
900	1,955	1,240	3,981	641	586	698	567	478	NC	NC	409	NC	293	270	293	206	227	316	215
554	480	617	671	390	343	469	485	393	NC	NC	353	NC	235	227	175	282	199	307	225
657	542	543	602	520	470	579	576	479	NC	NC	630	NC	568	525	484	474	473	471	522
233	353	320	390	365	347	434	333	281	NC	NC	411	NC	272	333	296	231	219	215	340
557	428	405	485	483	437	554	495	418	NC	NC	302	NC	338	249	262	255	273	299	335
320	304	257	281	289	266	342	290	235	NC	NC	365	827	318	288	288	511	399	457	336
112,600	509	462	467	353	317	388	322	284	NC	NC	347	491	353	361	318	521	561	720	295
11,877	1,360	1,246	1,645	1,026	934	1,840	682	650	NC	NC	723	918	696	1,541	596	592	501	846	461
175,533	795	782	966	911	941	1,078	973	831	NC	NC	1,301	1,415	1,213	867	965	3,958	5,239	7,761	365
11,383	715	661	770	733	646	723	500	418	NC	NC	548	731	422	461	403				324
3,551	761	684	775	742	755	862	708	653	NC	NC	554	692	297	285	262				276
966	319	315	355	295	317	410	283	242	NC	NC	327	354	324	241	214	395	580	796	227
772	485	574	664	536	521	712	558	462	NC	NC	365	399	369	306	304	372	382	695	243
395	195	143	180	365	284	283	193	186	NC	NC	198	226	195	196	177	268	298	323	264
469	258	193	238	233	280	310	280	256	NC	NC	306	346	278	252	290	319	295	327	278
436	331	297	362	326	340	383	341	290	NC	NC	390	358	325	323	357	1,261	620	674	362
421	299	242	276	324	331	377	391	327	NC	NC	308	356	341	278	323	253	306	375	253
437	366	339	387	375	375	444	482	306	NC	NC	457	535	482	344	779	290	365	373	414
131,367	282	258	251	266	276	324	321	255	NC	NC	285	308	254	259	357	258	218	260	244
593	378	346	406	323	359	573	426	367	NC	NC	225	758	329	165	192	273	252	266	309
7,277	402	428	512	501	522	619	338	342	NC	NC	349	348	392	383	382	458	333	367	360
1,986	319	277	306	390	423	421	283	251	NC	NC	253	312	226	251	223	184	182	253	265
80,667	264	226	267	390	399	479	281	247	NC	NC	271	291	221	227	256	267	304	363	253
19,037	453	472	518	578	451	569	311	300	NC	NC	333	328	272	292	282	256	307	357	287
3,852	61	70	149	77	106	159	64	66	NC	NC	70	84	148	54	50	33	56	153	31
4,646	118	102	169	107	139	186	158	132	NC	NC	137	157	162	170	176	204	235	297	156
1,126	240	220	329	228	292	429	259	205	NC	NC	227	337	233	276	255	240	331	453	160
786	291	287	280	288	305	373	318	286	NC	NC	288	354	361	295	307	338	394	440	352

SV14 M	SV14 D	SV15 S	SV15 M	SV15 D	SV16 S	SV16 M	SV16 D	SV17 S	SV17 M	SV17 D	SV18 S	SV18 M	SV18 D	SV20 S	SV20 M	SV20 D
66	62	193	NC	185	477	367	220	237	334	358	9,188	NC	11,625	259	379	455
320	303	277	NC	230	240	289	249	372	439	424	13,670	NC	16,280	697	608	595
123	161	253	NC	194	735	573	376	1,082	1,010	1,078	27,097	NC	27,153	523	556	549
418	415	338	NC	311	416	406	432	561	612	593	32,387	NC	27,093	1,010	820	813
543	589	560	NC	633	526	580	552	699	810	759	31,047	NC	27,463	355	427	385
520	543	527	NC	530	705	603	578	765	647	714	28,737	NC	27,267	692	724	567
532	501	551	NC	502	591	589	607	701	736	818	1,533	NC	1,699	737	840	733
371	366	341	NC	451	332	371	344	658	726	704	2,154	NC	1,550	327	344	343
777	778	1,220	NC	1,668	920	2,147	1,031	1,033	928	990	7,787	NC	6,740	724	813	730
441	415	479	NC	463	555	576	490	660	720	766	6,715	NC	6,537	572	584	542
287	296	236	NC	253	246	353	279	520	469	436	7,143	NC	8,082	306	244	322
319	289	284	NC	306	280	298	287	346	404	417	6,230	NC	5,871	220	251	252
166	196	234	NC	117	240	273	244	327	368	375	4,441	NC	4,140	122	178	175
238	235	205	NC	308	223	236	218	412	730	640	9,297	NC	9,030	539	447	350
232	277	253	NC	306	304	288	223	536	506	361	10,427	NC	8,562	190	259	197
500	485	461	NC	511	430	463	432	512	586	838	11,247	NC	7,833	212	248	262
302	287	263	NC	249	297	299	286	462	335	507	9,716	NC	10,312	518	646	365
301	315	272	NC	284	356	338	306	442	455	492	8,352	NC	8,613	186	211	170
355	304	255	353	310	301	322	294	485	420	534	4,756	NC	5,366	451	626	562
303	319	221	293	256	229	235	206	365	398	331	5,147	NC	6,817	197	423	434
492	337	310	484	407	346	376	329	354	431	446	8,442	NC	10,253	255	350	411
615	372	354	519	403	352	362	296	519	495	401	7,333	NC	7,718	358	388	422
294	304	215	418	273	268	236	178	310	324	343	6,925	NC	7,241	180	213	262
242	313	151	344	170	245	219	169	404	300	318	5,694	NC	5,599	297	358	323
168	203	123	289	174	134	113	92	238	203	207	2,089	NC	2,567	140	200	196
293	335	147	434	114	223	280	228	281	229	348	2,238	NC	2,304	400	550	745
207	286	126	139	561	222	212	183	276	188	228	2,004	NC	2,849	418	436	545
270	303	255	271	224	329	365	258	249	208	357	2,096	NC	2,585	241	247	306
325	383	370	379	304	323	335	360	438	435	480	3,909	NC	4,773	698	896	807
246	347	229	177	188	261	256	371	367	355	372	3,742	NC	3,994	195	296	403
316	326	327	352	355	374	389	356	469	820	563	6,065	NC	6,908	391	602	534
253	314	226	NC ₂	182	305	286	215	450	444	406	4,046	NC	5,112	240	289	388
343	264	262	236	241	218	245	232	429	487	273	2,722	NC	6,588	227	553	333
394	361	373	257	285	412	390	387	519	449	480	3,527	NC	5,366	346	401	436
306	251	250	343	281	249	321	322	315	284	288	3,206	NC	4,631	195	163	194
232	277	235	NC2	218	293	302	259	395	410	389	2,876	NC	4,210	190	266	295
236	298	281	344	267	282	343	290	461	446	317	3,722	NC	4,597	161	187	273
29	68	75	123	79	141	179	197	203	264	313	3,657	NC	3,381	56	74	133
194	216	113	91	84	152	149	123	227	296	356	4,006	NC	4,625	177	226	232
146	218	201	198	128	244	392	245	452	444	452	5,482	NC	6,500	143	138	227
338	364	344	NC ₂	313	415	563	417	536	481	620	6353	NC	7163	128	171	218