

Tritium Laboratory
27 August 2009

SWAB REPORT #526

SWAB DATE: 14 August 2009

R/V KILO MOANA
And Radioisotope Van

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Distribution:
SWAB Committee
Timothy McGovern

REPORT FOR SWAB # 526

LOCATION: Honolulu, HI
 TECHNICIAN: Cecilia Roig
 VESSEL/LAB: R/V Kilo Moana

DATE: 14 August 2009
 STATUS: See Comments

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		3H dpm/m2	14C dpm/m2
1	Machine Blank	-	-
2	Initial bucket blank	0	0
<u>Lab #2 (See Figure 1)</u>			
3	Bench top port of aft sink	0	0
4	Deck center of lab	0	0
5	Bench top port of fwd. sink	0	0
6	Deck inside stbd. entrance	33	0
7	Deck in Staging Bay	73	0
<u>Chemistry Lab (See Figure 1)</u>			
8	Inside fume hood	28	0
9	Stbd. bench top	62	0
10	Deck center of lab	73	0
11	Deck in front of water fountain	35	0
<u>Lab #1 (See Figure 1)</u>			
12	Sink area	0	0
13	Deck in front of fwd. door	0	0
14	Deck in front of sink	0	0
<u>Hydro Lab (See Figure 1)</u>			
15	Fwd. bench top	0	0
16	Deck in center of lab	179	0
17	Deck at entrance	143	0
<u>Scientific Store Room # 1 (See Figure 1)</u>			
18	Ice inside Thermo chest freezer	443	0
19	Ice inside Kenmore chest freezer	1	0
20	Ice inside Gibson chest freezer	0	0
21	Inside Cospolich near door	153	0
22	Inside top of Cospolich next to Thermo	79	0
23	Inside bottom of Cospolich next to Thermo	0	0
<u>Wet Lab (See Figure 1)</u>			
24	Inside fume hood	52	0
25	Benchtop stbd. of sink	0	0
26	Deck at entrance to Hydro Lab	27	0
<u>I-Met Lab (See Figure 1)</u>			
27	Bench top stbd. of sink	0	0
28	Center bench top in I-Met Lab	0	0
29	Deck under escape hatch	0	0
30	Deck at entrance	0	0
31	Intermediate bucket blank	0	0

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		3H dpm/m2	14C dpm/m2
<u>Radioisotope Van (See Figure 2)</u>			
32	Bench top above fridge	6,692*	0
33	Inside fume hood	91	17
34	Bench top across freezer	372	0
35	Bench top above freezer	1,402*	16
36	Deck in front of sink	701	0
37	Inside fridge	11,680**	14
38	Inside freezer	350	0
39	Deck center of van	3,379*	0
40	Deck at entrance across fume hood	925*	1
41	Sink area	489	30
42	Final bucket blank	0	0

Comments

All areas tested on ship were clean of isotope contamination. Minor tritium contamination found in the Radioisotope Van. Refrigerator in the van needs to be cleaned and it is recommended that deck areas in the van be cleaned to prevent tracking unto other ship areas.