

Tritium Laboratory
March 10, 2009

SWAB REPORT #512

SWAB DATE: 24 February 2009

R/V Knorr
Radioisotope Van

Dr. James D. Happell
Research Associate Professor

Distribution:
David Fisichella
SWAB Committee

REPORT FOR SWAB # 512

LOCATION : Honolulu, Hawaii
 TECHNICIAN: Jim Happell
 VESSEL/LAB: R/V Knorr and Radioisotope Van

DATE : 24 February 2009
 STATUS: Areas tested on board the ship tested free of radioisotope spills. Rad Van contained radiocarbon contamination. See COMMENTS below.

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		³ H dpm/m ²	¹⁴ C dpm/m ²
1	Machine blank	-	-
2	Initial bucket blank	0	0
<u>Main Lab (see Figure 1)</u>			
3	Deck below fwd sink	0	0
4	Benchtop fwd of aft sink	0	0
5	Deck below aft sink	0	0
6	Deck inside door to aft stairwell	43	0
7	Inside chest freezer	0	0
8	Deck at top of fwd stairwell	11	0
9	Deck inside door to Analytical Lab	0	0
10	Deck in aft hanger	0	0
<u>Maindeck (see Figure 2)</u>			
11	Aft benchtop in Analytical Lab	0	0
12	Deck inside stbd door to Analytical Lab	0	0
13	Deck in passage by aft Mess door	9	0
14	Deck in passage by stbd Lounge door	0	0
15	Bench fwd of sink in Wet Lab	31	0
16	Deck in center of Wet Lab	35	0
17	Deck in fwd Hanger	0	0
18	Stbd Quarterdeck	0	0
19	Deck in passage next to water fountain	0	0
<u>1st Platform (see Figure 2)</u>			
20	Deck in center of Lower Lab	0	9
21	Deck next to soda machine	0	0
22	Refrigerator in Lower Lab	0	9
23	Freezer in Lower Lab	0	0
<u>Upper Lab (see Figure 3)</u>			
24	Inside fume hood	0	0
25	Deck inside stbd door	32	46
26	Benchtop port of fume hood	0	0
27	Center port benchtop	13	9
28	Deck in center of Lab	0	0
29	Deck between fwd doors	31	0
30	Intermediate bucket blank	0	0
<u>Radioisotope Van 2001970 (see Figure 4)</u>			
31	Benchtop port aft	42	1,743*
32	Benchtop port center	14	132
33	Benchtop port fwd	37	116

SAMPLE #	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
		³ H dpm/m ²	¹⁴ C dpm/m ²
34	Inside fume hood	0	18
35	Benchtop stbd center	0	77
36	Port Freezer	80	157
37	Stbd refrigerator	30	1,013*
38	Center deck	36	190
39	Deck by doors	0	174
40	Final bucket blank	0	0

COMMENTS

In the Radioisotope Van, some minor radiocarbon contamination was found on the aft port benchtop and inside the refrigerator. No action is required.