

Tritium Laboratory  
14 June 2011

SWAB REPORT # 582

SWAB DATE: 8 June 2011

*R/V Melville*

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James D. Happell

Distribution:  
SWAB Committee  
Gary Lain

REPORT FOR SWAB # 582

LOCATION: Point Loma, CA

DATE: 8 June 2011

VESSEL: *R/V Melville*

TECHNICIAN: Cecilia Roig

Sample #	Sample Identification	<sup>3</sup> H dpm/m <sup>2</sup>		<sup>14</sup> C dpm/m <sup>2</sup>	
		activity	error	activity	error
1	1st Vial Bkgnd	0	± 0	0	± 0
2	Initial bucket blank C.O. #1	2	± 0	0	± 0
<u>Winch Room (Figure 1)</u>					
3	Inside Revco	39	± 66	0	± 0
4	Inside Kenmore	43	± 44	15	± 31
5	Inside Frigidaire	4	± 87	0	± 0
6	Deck in front of Revco	0	± 0	26	± 37
7	Deck between Kenmore and Frigidaire	62	± 52	5	± 21
<u>Main Lab (Figure 2)</u>					
8	Bench top aft of sink	0	± 0	13	± 39
9	Sink area	48	± 52	2	± 15
10	Deck in front of sink	56	± 49	7	± 26
11	Inside Kenmore freezer	63	± 55	0	± 0
12	Bench top fwd. of sink	74	± 54	1	± 9
13	Bench top across from sink	0	± 0	25	± 39
14	Inside Sanyo freezer	23	± 40	13	± 33
15	Deck in front of freezer	35	± 43	15	± 32
16	Intermediate bucket blank	0	± 0	14	± 39
17	Deck between bench tops	16	± 61	0	± 0
18	Deck at entrance to stairs	47	± 62	0	± 0
19	Inside Kelvinator	32	± 47	6	± 28
20	Deck in front of Kelvinator	12	± 18	45	± 37
21	Bench top across Kelvinator	32	± 70	0	± 0
22	Stbd. bench top	61	± 58	0	± 0
23	Intermediate bucket blank	21	± 55	0	± 0
<u>Analytical Lab (Figure 2)</u>					
24	Inside fume hood	126	± 57	8	± 19
25	Bench top fwd. of hood	25	± 45	9	± 32
26	Sink area	32	± 47	6	± 28
27	Fwd. port bench top	59	± 56	0	± 0
28	Deck center of lab	8	± 59	0	± 0
29	Stbd. bench top	7	± 25	16	± 36

Sample #	Sample Identification	$^3\text{H}$ dpm/m <sup>2</sup>		$^{14}\text{C}$ dpm/m <sup>2</sup>	
		activity	error	activity	error
30	Deck inside stbd. door	0	± 0	6	± 37
31	Deck inside door to Main Lab	42	± 57	0	± 0
<u>Dark Room (Figure 2)</u>					
32	Sink area	0	± 0	7	± 40
33	Deck inside aft door	19	± 70	0	± 0
34	Deck center of lab	37	± 50	4	± 24
35	Deck inside port door	0	± 0	0	± 0
36	Bench top across sink	0	± 0	0	± 0
<u>Miscellaneous Areas (Figure 2)</u>					
37	Deck outside aft entrance to galley	0	± 0	4	± 38
38	Deck outside fwd. entrance to galley	43	± 54	0	± 0
39	Deck outside entrance to hospital	60	± 56	0	± 0
40	Final bucket blank C.O. #1	20	± 52	0	± 0
41	Initial bucket blank C.O. #2	16	± 47	4	± 29
<u>Radioisotope Van 12 (Figure 3)</u>					
42	Deck inside aft door	79	± 48	31	± 33
43	Inside hood	51	± 54	0	± 0
44	Bench top across sink	88	± 59	0	± 0
45	Bench top left of sink	130	± 57	7	± 19
46	Sink area	43	± 39	39	± 35
47	Inside freezer	108	± 56	1	± 3
48	Inside refrigerator	199	± 60	34	± 28
49	Deck center of van	190	± 62	9	± 17
50	Deck inside fwd. door	107	± 53	22	± 29
51	Intermediate bucket blank	25	± 49	1	± 11
<u>01 Deck (Figure 2)</u>					
52	Deck at entrance to Library	17	± 53	0	± 0
53	Outside deck	0	± 0	0	± 0
54	Deck at end of game table	26	± 61	0	± 0
55	Deck at top of stairs	12	± 49	1	± 22
<u>Aft Hangar (Figure 2)</u>					
56	Sink area	0	± 0	2	± 52
57	Deck at entrance to Main Lab	79	± 69	0	± 0
58	Final bucket blank C.O. #2	44	± 59	0	± 0

### **Comments**

Please note that the error reported for each isotope is the two-standard deviation counting error.  
All areas tested were free of contamination.



