## SWAB REPORT # 564

SWAB DATE: 17 November 2010

R/V New Horizon and Calcofi Van

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Distribution: SWAB Committee Gary Lain

## REPORT FOR SWAB # 564

LOCATION: Point Loma, CA

VESSEL/LAB: R/V New Horizon and Calcofi Van

DATE: 17 November 2010

TECHNICIAN: Cecilia Roig

Sample # Sample Identification <sup>3</sup> H			n/m²		<sup>14</sup> C dpm/m <sup>2</sup>		
		activity	e	error	activity	error	
1	1st Vial Bkgnd	0	$\pm$	0	0	±	0
2	Initial bucket blank	10	±	75	0	±	0
Main Lab	(See Figure 1)						
3	Torrey freezer	12	$\pm$	37	12	$\pm$	34
4	Kenmore freezer top	0	$\pm$	0	5	$\pm$	41
5	Kenmore refrigerator botttom	0	$\pm$	0	20	±	40
6	Sink area	0	$\pm$	0	1	±	49
7	Deck in front of sink	0	$\pm$	0	30	±	39
8	Stbd. forward bench top	0	$\pm$	0	31	$\pm$	41
9	Fwd. bench top	0	$\pm$	3	18	±	36
10	Mid port bench top	0	$\pm$	0	28	$\pm$	37
11	Deck in front of mid port bench top	0	$\pm$	0	14	±	37
17	Bench top aft	0	$\pm$	0	8	$\pm$	47
18	Deck in front of electronic equipment	0	±	0	26	$\pm$	39
Ocean Lab	(See Figure 1)						
12	Fwd port sink area	0	<u>±</u>	0	20	$\pm$	39
13	Bench top aft of port sink	0	土	0	0	±	0
14	Middle bench top across sinks	0	土	0	13	±	44
15	Aft sink area	0	<u>±</u>	0	17	$\pm$	37
16	Deck at entrance to stairwell	0	土	0	23	±	44
19	Bench top fwd. of sink	0	土	0	31	±	39
20	Aft port sink area	0	<u>±</u>	0	22	$\pm$	38
21	Inside fume hood	0	<u>±</u>	0	0	$\pm$	0
22	Deck in front of hood	0	±	0	0	±	0
Wet Lab (	See Figure 1)						
23	Sink area	3	土	18	11	<u>±</u>	35
24	Bench top stbd. of sink	0	±	0	13	±	38
25	Deck under sink	87	±	48	11	±	24
26	Deck at entrance to Main Lab	0	±	0	13	±	39
27	Fwd. bench top	19	<u>±</u>	47	4	±	27
28	Scientific freezer bench top	0	<u>±</u>	0	5	±	41
29	Scientific freezer deck	8	<u>±</u>	22	23	±	35

Sample #	Sample Identification	<sup>3</sup> H dpm/m <sup>2</sup>		<sup>14</sup> C dpm/m <sup>2</sup>			
		activity	e	rror	activity	(	error
Upper Lab	(See Figure 1)						
30	Minus 80 freezer	18	$\pm$	33	20	$\pm$	34
31	Sink area	0	$\pm$	0	38	$\pm$	38
32	Deck at aft entrance	0	$\pm$	0	14	$\pm$	41
33	Deck at fwd. entrance	0	$\pm$	0	43	$\pm$	39
34	Intermediate bucket blank	0	±	0	26	±	37
Calcofi Va	un (See Figure 2)						
35	Sink area	5	$\pm$	14	28	$\pm$	36
36	Bench top across sink	0	$\pm$	0	36	$\pm$	37
37	Bench top right of sink	0	$\pm$	0	35	$\pm$	38
38	Inside refrigerator bottom	0	$\pm$	0	*678	$\pm$	56
39	Deck at entrance	5	$\pm$	11	42	$\pm$	37
40	Final bucket blank	0	$\pm$	0	10	$\pm$	36

## **Comments**

Please note that the error reported for each isotope is the two-standard deviation counting error. All areas tested on the R/V New Horizon were free of radioisotope contamination.

Minor <sup>14</sup>C contamination was found inside the refrigerator in the Calcofi Van, this refrigerator needs to be cleaned before any natural tracer work.