SWAB REPORT # 559

SWAB DATE: 1 October 2010

R/V *Hugh Sharp*UDE Radioisotope Van and UNOLS Van 2408-04

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Distribution: SWAB Committee Timothy Deering

REPORT FOR SWAB # 559

LOCATION: Lewes, DE DATE: 1 October 2010
TECHNICIAN: Cecilia Roig STATUS: See Comments

VESSEL/LAB: R/V Hugh Sharp

SAMPLE SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
#	3 H dpm/m 2	14 C dpm/m 2
1 Machine blank	0	0
2 Initial bucket blank	37	0
2 mittai bucket biank	31	11
Main Lab (See Figure 1)		
3 Amana refrigerator top	0	32
4 Amana freezer bottom	0	22
5 Deck between sink and Amana	30	39
6 Bench top stbd. of fwd. sink	16	30
7 Deck by fwd stairs	21	31
8 Bench top stbd. of Amana	16	36
9 Deck in front of port sink	0	49
10 Inside Frigidaire freezer	19	24
Wet Lab (See Figure 1)		
11 Deck at winch control	59	6
12 Deck inside vestibule area	2	46
13 Deck by stbd. door	0	20
14 Stbd. aft benchtop	0	35
15 Deck in center of port aft area	7	45
16 Deck between aft bench tops	15	5
17 Deck at entrance to library	10	16
18 Deck center of vestibule	0	35
19 Stbd. bench top next to rosette door	20	38
20 Intermediate bucket blank	0	20
UDE Radioisotope Van (See Figure 2)		
21 Inside fume hood	35	30
22 Bench top left of hood	285	10
23 Sink area	263	23
24 Bench top across LSC	35	373 *
25 Bench top across sink	186	59 *
•		
26 Bench top across refrigerator	383	64 *

SAMPLE	SAMPLE IDENTIFICATION	NET ACTIVITY EXTRACTED	
#		3H dpm/m2	14C dpm/m2
27	Deck inside entrance close to LSC	98	17
	Inside freezer	17	56 *
	Deck center of van	163	135 *
_	Inside refrigerator	1434 *	63 *
	Deck inside entrance next to hood	302	125 *
	Intermediate bucket blank	39	26
32	. Intermediate bucket brank	39	20
	UNOLS Shared-Use Van (See Figure 3)		
33	Inside hood	59	45
34	Bench top right of hood	165	19
35	Bench top left of sink	46	41
36	Sink area	94	51 *
37	Bench top across sink	0	35
38	B Bench top left of LSC	0	39
39	Inside Danby refrigerator	816 *	30
	Inside Danby freezer	560 *	21
	Deck inside entrance closest to sink	357	50 *
42 Deck center of van		1602 *	42
43	B Deck inside entrance next to hood	7539 *	61 *
44	Final bucket blank	20	1

Comments

Areas tested on the ship were clean of any radioisotope spill. Both vans tested had minor ³H and ¹⁴C contamination. The UDE radioisotpe van does not require any action. The UNOLS shared use van requires cleaning before any natural tracer work and to prevent tracking contamination to ship areas.

Comments All areas on board the R/V New Horizon tested free of radioisotope contamination. Minor ¹⁴C contamination was found in all three vans, but no action is needed.