

Tritium Laboratory
2 September 2011

SWAB REPORT # 559 - Amendment

SWAB DATE: 1 October 2010

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

Dr. James D. Happell
Associate Research Professor

Distribution:
SWAB Committee
Timothy Deering

REPORT FOR SWAB # 559

LOCATION: Lewes, DE
 TECHNICIAN: Cecilia Roig
 VESSEL/LAB: *R/V Hugh Sharp*

DATE: 1 October 2010
 STATUS: See Comments

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	11
<u>Main Lab (See Figure 1)</u>			
3	Inside Whirlpool freezer top	0	32
4	Inside Whirlpool fridge bottom	0	22
5	Inside Holiday freezer	30	39
6	Inside Thermo freezer	16	30
7	Bench top across Thermo freezer	21	31
8	Sink area	16	36
9	Aft stbd. benchtop	0	49
10	Deck inside aft entrance	19	24
<u>Wet Lab (See Figure 1)</u>			
11	Inside small Holiday freezer	59	6
12	Inside freezer top (fixatives)	2	46
13	Inside refrigerator bottom	0	20
14	Inside Frigidaire freezer top	0	35
15	Inside Frigidaire fridge bottom	7	45
16	Stbd. sink area	15	5
17	Aft sink area	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
<u>UDE Radioisotope Van (See Figure 2)</u>			
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
28	Inside freezer	17	56 *
29	Deck center of van	163	135 *
30	Inside refrigerator	1434 *	63 *
31	Deck inside entrance next to hood	302	125 *
32	Intermediate bucket blank	39	26
<u>UNOLS Shared-Use Van (See Figure 3)</u>			
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	Bench top left of LSC	0	39
39	Inside Danby refrigerator	816 *	30
40	Inside Danby freezer	560 *	21
41	Deck inside entrance closest to sink	357	50 *
42	Deck center of van	1602 *	42
43	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 ^{14}C contamination. The UDE radioisotope 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.

Amendment generated to correct erroneous sample descriptions on sample #s 3-17 in the original report. Figures and values reported are correct.

