SWAB REPORT # 568

SWAB DATE: 16 December 2010

R/V Hugh Sharp

James D. Happell

Distribution: SWAB Committee Timothy Deering

REPORT FOR SWAB # 568

LOCATION: Lewes, DE DATE: 16 December 2010 VESSEL/LAB: R/V Hugh Sharp TECHNICIAN: Charlene Grall

Sample #	Sample Identification	³ H dpn	n/m²		¹⁴ C dpm/m ²		
	activity	e	rror	activity	(error	
1	1st Vial Bkgnd	0	<u>±</u>	0	0	±	0
2	Initial bucket blank	0	±	0	21	±	35
	Main Lab (See Figure 1)						
3	Inside Whirlpool freezer top	0	\pm	0	21	\pm	2
4	Inside Whirlpool refigerator bottom	1	\pm	0	*69	\pm	0
5	Inside Holiday freezer	0	<u>±</u>	0	29	\pm	0
6	Deck in front of Whirlpool refrigerate	5	\pm	6	31	\pm	1
7	Benchtop across from -80 freezer	1	\pm	1	*51	\pm	36
8	Benchtop adjacent to sink	1	\pm	4	33	\pm	35
9	Middle stbd benchtop	26	\pm	35	25	\pm	33
10	Deck at aft entrance	13	<u>±</u>	14	*70	\pm	36
11	Deck in center of lab	20	\pm	28	34	\pm	34
12	Deck at stbd entrance	171	±	54	42	<u>±</u>	30
	Wet Lab (See Figure 1)						
13	Wetlab Inside Holiday freezer	30	<u>±</u>	35	30	<u>±</u>	34
14	Inside Roper freezer top	26	\pm	30	38	\pm	34
15	15 Inside Roper refigerator bottom		\pm	0	46	<u>±</u>	37
16	16 Fwd stbd benchtop		\pm	25	36	\pm	35
17	17 Stbd benchtop next to CTD door		\pm	27	33	\pm	34
	18 Benchtop aft odf stbd sink		\pm	0	33	\pm	35
	Aft sink area	0	<u>±</u>	0	38	<u>±</u>	36
20	Deck of vestibule area	11	\pm	28	18	\pm	34
21	Deck of vestibule area	15	<u>±</u>	21	49	±	36
	General Purpose Van (See Figure 2)						
22	GPVAN Benchtop near single door	0	<u>±</u>	0	19	土	36
	Benchtop near double doors	0	±	0	29	±	37
	Sink area	0	<u>±</u>	0	14	土	35
25	Benchtop next to sink	4	±	14	18	±	34
	Benchtop next to fume hood	0	土	0	43	<u>±</u>	36
	Inside fume hood	1	\pm	0	30	±	34
	Inside freezer bottom	0	<u>±</u>	0	30	±	37
	Inside refrigerator bottom	0	\pm	0	37	±	36

Sample # Sample Identification	³ H dpm/m ²			¹⁴ C dpm/m ²		
	activity	(error	activity		error
30 Deck near double doors	35	±	38	25	±	33
31 Deck center of van	53	\pm	41	35	\pm	33
32 Deck near single door	51	±	47	15	\pm	30
Radioisotope Van (See Figure 3)						
33 Deck near double doors	200	\pm	56	*60	±	31
34 Deck in center of van	273	\pm	60	*74	±	31
35 Deck near single door	138	\pm	52	38	\pm	30
36 Benchtop above refrigerator	38	\pm	34	41	\pm	34
37 Inside freezer bottom	55	\pm	34	*65	\pm	35
38 Final bucket sample C.O. #1	14	\pm	33	14	\pm	33
39 Initial bucket sample C.O. # 2	8	\pm	42	2	±	28
40 Benchtop adjacent to freezer	46	\pm	37	37	\pm	33
41 Benchtop above freezer	0	\pm	0	*160	\pm	40
42 Inside refrigerator	*4836	\pm	199	*130	\pm	16
43 Inside fume hood	13	\pm	51	0	\pm	0
44 Sink area	124	\pm	51	37	\pm	30
45 Benchtop next to double doors	9	±	16	39	\pm	35
46 Final bucket blank C. O. #2	0	\pm	0	60	±	38

Comments

Please note that the error reported for each isotope is the two-standard deviation counting error. Minor ¹⁴C contamination was detected in three samples in Main Lab, these areas need to be cleaned before any natural tracer work. Minor ³H and ¹⁴C contamination detected in Radioisotope Van, no action required at this time. No contamination detected in the General Purpose Van.