

Tritium Laboratory
4 October 2010

SWAB REPORT # 558

SWAB DATE: 28 September 2010

R/V Oceanus

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Distribution:
SWAB Committee
David Fisichella

REPORT FOR SWAB # 558

LOCATION: Woods Hole, MA
 TECHNICIAN: Cecilia Roig
 VESSEL/LAB: *R/V Oceanus*

DATE: 28 September 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 | 25 | 0 |
| <u>Main Deck (See Figure 1)</u> | | | |
| 3 | Amana refrigerator top | 32 | 0 |
| 4 | Amana freezer bottom | 31 | 0 |
| 5 | Deck between sink and Amana | 7 | 0 |
| 6 | Bench top stbd. of fwd. sink | 0 | 0 |
| 7 | Deck by fwd stairs | 0 | 50 * |
| 8 | Bench top stbd. of Amana | 0 | 0 |
| 9 | Deck in front of port sink | 5 | 0 |
| 10 | Inside Frigidaire freezer | 43 | 0 |
| 11 | Deck at winch control | 20 | 0 |
| 12 | Deck inside vestibule area | 13 | 0 |
| 13 | Deck by stbd. door | 26 | 0 |
| 14 | Stbd. aft benchtop | 7 | 0 |
| 15 | Deck in center of port aft area | 1 | 0 |
| 16 | Deck between aft bench tops | 0 | 0 |
| <u>Miscellaneous Areas (no figures)</u> | | | |
| 17 | Deck at entrance to library | 0 | 0 |
| 18 | Deck center of Galley | 17 | 0 |
| 19 | Deck in front of Juice dispenser | 4 | 0 |
| 20 | Intermediate bucket blank | 15 | 0 |
| 30 | Inside fume hood in warehouse area | 31 | 14 |
| <u>Wet Lab (See Figure 2)</u> | | | |
| 21 | Inside fume hood | 0 | 7 |
| 22 | Bench top aft of sink | 0 | 0 |
| 23 | Deck in front of sink | 19 | 0 |
| 24 | Deck inside port entrance | 7 | 0 |
| 25 | Deck inside aft entrance | 14 | 0 |

SAMPLE SAMPLE IDENTIFICATION
#

NET ACTIVITY EXTRACTED
 ^3H dpm/m² ^{14}C dpm/m²

01 Level (See Figure 3)

| | | |
|------------------------------|----|---|
| 26 Deck by door to bridge | 45 | 0 |
| 27 Deck by stbd. door | 21 | 0 |
| 28 Deck at top of stairs | 39 | 0 |
| 29 Intermediate bucket blank | 25 | 0 |
| 31 Final bucket blank | 47 | 0 |

Comments

Areas tested on the ship were clean of any radioisotope spill except for one sample. The deck area by the fwd. stairs in the Main Lab has mild ^{14}C contamination and needs to be cleaned.

Comments

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