SWAB REPORT #408

SWAB DATE: 5 April 2006

R/V Nathaniel B. Palmer

Dr. James D. Happell Research Associate Professor

Distribution: SWAB Committee Bob Kluckhohn Marc Pomeroy

## REPORT FOR SWAB # 408

LOCATION : Punta Arenas, Chile DATE : 5 April 2006 STATUS: **SEE COMMENTS** 

TECHNICIAN: Cecilia Roig

VESSEL/LAB: R/V Nathaniel B. Palmer

SAMPLE SAMPLE IDENTIFICATION #	NET ACTIVITY 3H dpm/m2	
<pre>1 Machine Blank 2 Initial bucket blank C.O. #1</pre>	- 49	0
Dry Lab (See Figure 1)  3    Inside upright Revco  4    Inside bottom Persival Sci. RPS 00011175  5    Inside bottom Isotemp Fisher Sci. freezer  6    Inside bottom Percival Sci. RPS 00011176  7    Top of Revco freezer  8    Deck in front of freezer  9    Deck inside computer area	2 0 101 71 4 0	0 0 0 103 12 0 4
10 Aft workbench/sink area 11 Deck inside double doors	62 29	0 13
Bio Lab (See Figure 2)  12    Inside freezer top RPSC 00011165  13    Inside refrigerator bottom RPSC 00011165  14    Inside freezer top RPSC 00011164  15    Inside refrigerator bottom RSPC 00011164  16    Inside fume hood fwd. of port sink  17    Inside fume hood aft of port sink  18    Deck below aft sink  19    Workbench port of aft sink  20    Deck just outside ThermoKool room  21    Deck below fwd. fume hood  22    Workbench right of sink  23    Workbench right of sink  Wet Lab (See Figure 3)  24    Deck inside double door entrance  25    Workbench right of sink  26    Deck between Hydro Lab & Wet Lab	141 93 19 0 100 333 2 30 93 7 134 122	
27 Workbench left of double doors  Hydro Lab (See Figure 3) 28 Stbd. sink area 29 Deck below stbd. sink area 30 Deck below icemaker 31 Aft sink area	105 60 0	0 0 0 0 0
02 Deck/Helo Deck (See Figure 4) 32 Workbench stbd. of sink in shop 33 Deck below sink 34 Inside freezer top Baxter Cryo-Fridge 35 Inside refrigerator bottom Baxter Cryo-Fridge 36 Deck below Baxter Cryo-Fridge 37 Workbench port of sink in shop	102 50 85 dge 91 47 0	0 0 0 0 0 0 5

SAMPLE SAMPLE IDENTIFICATION #	NET ACTIVITY EXT	-
38 Deck in front of door to passageway	86	0
39 Deck in front of passageway door to Works	-	0
40 Deck in front of door to stbd.	143	0
41 Deck in front of door to Helo Pad	0	12
42 Deck in front of door to Workshop	87	0
43 Final Bucket blank C.O. #1	119	0
Warehouse freezers (No figures)		
44 Initial Bucket blank C.O. #2	93	0
45 Ice from Kenmore 15 chest freezer	102	0
46 Ice from Ultima II NSF 016981	78	0
47 Inside bottom of glass door Kelvinator Sc.		253
48 Inside top of Siemens Sikafrost Combi	64	102
49 Inside bottom of Siemens Sikafrost Combi	50	0
USAP Van # 7 (See Figure 5)		
50 Workbench right of sink	149	0
51 Workbench across from sink	44	17
52 Deck below sink	66	0
53 Deck inside door	12	0
USAP Van # 1 (See Figure 6)		
54 Inside fume hood	8 <b>,</b> 575*	0
55 Workbench left of sink	15,570**	0
56 Workbench across fume hood	4,718*	0
57 Inside Consul 230 freezer top	4,731*	0
58 Inside Consul 230 refrigerator bottom	76,686**	0
59 Deck inside door	53,998**	0
60 Deck left of workbench	11,455**	0
61 Deck in front of fume hood	36,119**	1
62 Workbench right of sink	2,587*	0
63 Drawer/basket inside Consul 230	1,044,151***	
64 Final Bucket blank C.O. #2	24	0

## COMMENTS

All areas test free of 14C contamination. The ship, warehouse freezers and Van #7 were clean of tritium contamination. Tritium contamination was found in Van #1, at levels that require cleanup before any use. We suggest that Van #1 be decontaminated using the enclosed procedure because there are areas in Van #1 above 10,000 dpm/m2 and there appears to be widespread tritium throughout the van, including deck areas. The heaviest contamination is in the Consul 230 refrigerator/freezer, we recommend thorough cleaning of the Consul 230 refrigerator/freezer and disposal of the drawer/basket at the bottom.