Tritium Laboratory October 4, 2014

## SWAB REPORT #255

SWAB DATE: 1 - 2 October 1999

R/V Laurence M Gould,
Radioisotope Vans: #1, 2, NSF#4582, Tennessee #1
 Antarctic Support Associates

Dr. James D. Happell

Research Associate Professor

Distribution: SWAB Committee Robert Kluckhohn

## REPORT FOR SWAB # 255

LOCATION: Punta Arenas, Chile
TECHNICIAN: Cecilia Roig, Univ. of Miami
VESSEL/LAB: R/V Laurence M. Gould, Vans DATE : 1-2 October 1999 STATUS: The ship is free of radioisotope contamination, all vans had

minor to moderate tritium contamination.

SAMP #	LE SAMPLE IDENTIFICATION	NET ACTIVIT  3H dpm/m <sup>2</sup>	Y EXTRACTED  14C dpm/m <sup>2</sup>		
1	Machine Blank	_	_		
2	Initial Bucket blank	0	0		
Hvdr	o Lab (See Figure 1)				
3	Deck in front of nanopure H2O system	17	0		
4	Inside freezer, bottom	0	0		
5	Deck in front of freezer	24	0		
6	Deck in front of fwd sink	0	0		
7	Bench next to port workbench	6	0		
8	Bench next to fwd sink	0	0		
9	Inside fume hood	17	0		
	1.10140 14.110 1.004		Ŭ		
	Lab (See Figure 1)				
10	Inside fume hood	18	0		
11	Inside refrigerator next to stbd aft entrance	58	38		
12	Inside freezer, bottom	46	49		
13	Benchtop opposite of freezer/refrigerator	0	0		
14	Benchtop port of aft sink	0	0		
15	Deck in front of fume hood and fwd sink	11	43		
16	Deck in front of aft sink	0	0		
Dru	Lab (See Figure 1)				
$\frac{D1y}{17}$	Inside aft refrigerator, bottom	69	13		
18	Deck in front of freezers fwd of Change Room	27	24		
19	Deck in front of fume hood	49	35		
20	Deck infront of entrance to CTD Room	57	59		
21	Deck in front of port sink	0	24		
21	beck in from or pore sink	O	24		
	Passageways (See Figure 1)				
22	Deck outside port entrance to Dry Lab	19	0		
23	Deck outside aft entrance to Hydro Lab	0	0		
24	Deck outside port entrance to Electronics Room	0	13		
25	Deck outside port entrance to Laundry Room	58	0		
26	Deck outside port entrance to Head	0	0		
27	Deck outside port entrance to Enviro Room	0	41		
28	Final bucket sample of C.O. #1	0	0		
Dod!	eigetone Van #1 (See Figure 2)				
29	oisotope Van #1 (See Figure 2) Initial bucket blank C.O. #2	1.6	0		
-		16	0		
30	Inside fume hood	1,152	31		
31	Deck in front of sink	1,994	58		
32	Deck inside entrance to van	531	0		

SAMPLE SAMPLE IDENTIFICATION		NET ACTIVITY EXTRACTED	
#		$^{3}$ H dpm/m $^{2}$	$^{14}$ C dpm/m $^{2}$
Radioisot	ope Van #2 (See Figure 2)		
	de fume hood	1,297	7
	in front of sink	9,105*	33
35 Deck	inside entrance to van	539	35
NSF Van #	4582 (See Figure 3)		
36 Insi	de fume hood	855	631
37 Insi	de refrigerator, bottom	21,689**	571
	in front of sink	6 <b>,</b> 195	302
	in front of fume hood	10,533**	221
40 Benc	htop right of sink	2,068*	0
41 Benc	htop left of sink	1,001	0
42 Benc	htop opposite of sink	1,040	857
43 Benc	htop right of LSC counter	1,014	36
44 Deck	inside entrance to van	2,623*	77
45 Fina	l bucket blank of C.O. #2	0	0
_			
	Rad Van (See Figure 3)	0	110
	ial bucket blank of C.O. #3	0	113
	h under fan	2,003*	12
	htop across from LSC	492	29
	htop right of sink	2,205*	17
	htop opposite of sink	475	0
	in front of fan	897	0
	in front of sink	4,976*	0
53 Deck	inside entrance to van	830	0
Storage (	No Figure)		
	de small "Itaier" freezer, bottom	926	45
	de NSF 11549 freezer, top	0	0
	de GE freezer, top	0	0
	de GE refrigerator, bottom	4,618*	50
	de refrigerator, bottom de refrigerator, top	4,010	0
	de refrigerator, top de refrigerator, bottom	100	0
	l Bucket blank of C.O. #3	0	0
oo rina	L DUCKEE DIAMA OF C.O. #3	O	O