



FOX CHASE
CANCER CENTER

To: Willie Lee, NRC

From: Karen Sheehan

Date: 2/2/06

Fax No.:

Subject: M 144 wipes + SURVEYS

Number of Pages, Including Cover Page: ~~2~~ 3

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137974

NMCC/RCMI MATERIALS-002

RADIOACTIVE MATERIAL ROOM CLOSE-OUT CHECKLIST

Licensee: Karen Sheehan

Bldg: MRI

Room : M144

Date: 10/04/05

Item

Initials

1. ALL radioactive material removed from room (i.e., stock, work in progress, waste)
2. Room surveyed by Radiation Safety Staff and released for unrestricted use (see results below)
3. Room properly deposited (i.e., all entrances, hoods, sinks, refrigerators, etc.)
4. Final Quarterly Inventory Report on file YES NO

KS
KS
KS
N/A

Comments: Lab used for prep + disposal of animal carcasses - H-3 and sewer disposal of some LSC waste contents all H-3

Survey results (see reverse and/or attached results)

Area Monitoring

Instrument used: Lydium 3, Probe 44-9/44-3, S/N 168293

Calibration Date: 9/1/2005

44-3 probe S/N: 078270, 44-9 probe S/N: 172979

Probe type: GM NaI Background (Bkgd): 0.02 mR/hr 140 cpm

Area(s)*	Results	Area(s)*	Results
Benchtop left	<=0.02mR/hr/<=140cpm	Floor between bench top	<=0.02mR/hr/<=140cpm
Inside fume hood	<=0.02mR/hr/<=140cpm	Floor front of sink	<=0.02mR/hr/<=140cpm
Hot sink	<=0.02mR/hr/<=140cpm	Floor front of fume hood	<=0.02mR/hr/<=140cpm
Benchtop right	<=0.02mR/hr/<=140cpm	Equipment	<=0.02mR/hr/<=140cpm
Desk	<=0.02mR/hr/<=140cpm		

Comments: All areas surveyed were found to be at or below background. See attached map.

Smear Survey

Instrument used: Beckman LSC

Background (Bkgd): 15 cpm - C-14
33 cpm - H-3

**See attached map

Areas*	Results H-3		Results C-14		Areas*	Results H-3		Results C-14	
	Gross Cpm	Net Dpm	Gross Cpm	Net Dpm		Gross Cpm	Net Dpm	Gross Cpm	Net Dpm
1	24	0	11	0	7	18	0	11	0
2	22	0	19	5.13	8	9	0	14	0
3	14	0	14	0	9	193	273	15	0
4	11	0	14	0					
5	14	0	12	0					
6	12	0	14	0					

* At least 300 cm² per smear

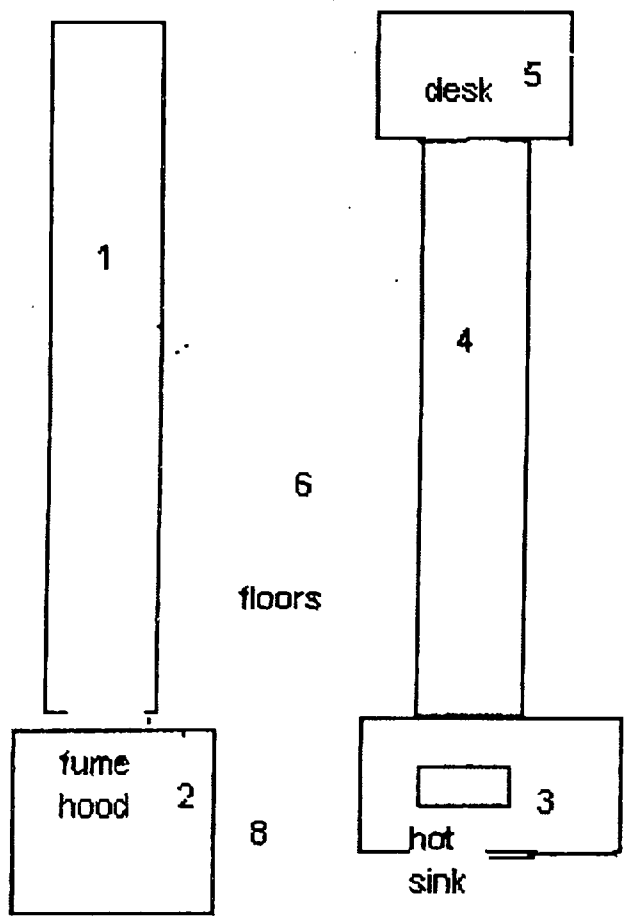
* At least 100 cm² per smear

Comments: H-3 and C-14 efficiencies are approximately 58.5% and 77.9%. See attached wipes.

Prepared by: Thomas Orlando

Date: 10/4/05

Radiation Safety Lab M144



1. Benchtop left
2. Inside fume hood
3. Hot sink
4. Benchtop right
5. Desk
6. Floors between benchtops
7. Floor in front of sink
8. Floor in front of fume hood
9. Equipment

BKg 140cpm
 44-8 Probe
 SN # C7827
 Ludlum model
 SN 168293
 Calibrated -
 9/1/05

SN# PR 172979 44-9 Probe
 BKg 0.02 nR/hr

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110-450 SWIPES 11

USER: 112 COMMENT:
 PRESET TIME : 1.00
 DATA CALC : CPM MH : NO SAMPLE REPEATS : 1 PRINTER : STD
 COUNT BLANK : NO IC# : YES REPLICATES : 1 RG232 : OFF
 TWO PHASE : NO ACC : NO CYCLE REPEATS : 1
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE RET: 0
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 59 ZERROR: 0.00 FACTOR: 1.0000 BKG. SUB: 0
 ISOTOPE 2: 140 ZERROR: 0.00 FACTOR: 1.0000 BKG. SUB: 0

SAM NO	POS	TIME MIN	IC#	59		140		LUMEX %	ELAPSED TIME
				CPM	ZERROR	CPM	ZERROR		
BKg	**-1	1.00	7.751	33.00	34.82	15.00	51.64	3.50	1.26
Benchtop	**-2	1.00	111.5	24.00	40.82	11.00	60.30	1.22	2.61
Inside fume hood	**-3	1.00	124.3	22.00	42.64	19.00	45.88	1.50	3.96
Benchtop	**-4	1.00	173.4	14.00	53.45	14.00	53.45	0.75	5.31
Desk	**-5	1.00	166.7	11.00	60.30	14.00	53.45	0.81	6.64
Floor	**-6	1.00	352.7	14.00	53.45	12.00	57.74	0.87	8.01
Floor	**-7	1.00	152.1	12.00	57.74	14.00	53.45	0.74	9.34
Floor-Sink	**-8	1.00	162.4	18.00	47.14	11.00	60.30	0.60	10.69
Floor	**-9	1.00	263.4	9.00	66.67	14.00	53.45	0.81	12.06
= equip	**-10	1.00	4.508	193.00	14.40	15.00	51.64	0.40	13.41

equipment meter #3 waste storage 10/5/05