

### Radiological Survey Sheet

Job Location Pfizer Central Research Groton 118/213 Page 1 of 9  
 Survey Purpose Radiological Assessment Date 6/17/02  
 Performed By Pam Jones (Print) Pam Jones (Sign)

Inst.(1) Beckman LS 6000 (Model/SN) #7060743	Inst.(2) Ludlum 2241-2 (Model/SN) #163603	Inst.(3) (Model/SN)
Det. Internal (Model/SN)	Det. Ludlum 43-68 (Model/SN) #PR149613	Det. (Model/SN)
Eff. See LSC Printout	Eff. ≈ 8% C14	Eff.
Type rad. β	Type rad. β	Type rad.
Bkgd. See LSC Printout	Bkgd. 300 cpm	Bkgd.
Cal. Due: 4/26/03	Cal. Due: 4/5/03	Cal. due

No.	Time	Location	Inst. Used	Total Activity (cpm/100 cm <sup>2</sup> )
1.	1000	wall	1	See attached LSC Printout
2.		↓	1	
3.		top shelf	1	
4.		shelf	1	
5.		↓	1	
6.		bot. shelf	1	
7.		wall	1	
8.		↓	1	
9.		desktop	1	
10.		↓	1	
11.		multi-tube vortexer	1	
12.		desk drawer	1	
13.		outside drawers	1	
14.		wall	1	
15.		↓	1	
16.			1	
17.		↓	1	
18.		counter	1	

Radiological Survey Continuation Sheet

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No.	Time	Location	Inst. Used	Total Activity (cpm/100 cm <sup>2</sup> )
19		counter	1	See attached LSC Printout
20		↓	1	√ (see # 71)
21		sides of sink	1	
22		bottom	1	
23		drain	1	
24		outside cabinet	1	
25		left	1	
26		bottom	1	
27		right	1	
28		out. drawers	1	
29		top drawer	1	
30		drawer	1	
31		↓	1	
32		bot. drawer	1	
33		out. drawers	1	
34		top drawer	1	
35		drawer	1	
36		↓	1	
37		bot. drawer	1	
38		outside hood top	1	
39		↓ top	1	
40		↓ window + handles	1	
41		inside hood top left	1	
42		↓ bottom left	1	
43		↓ top back	1	
44		↓ back	1	
45		↓	1	
46		↓	1	↓

Radiological Survey Continuation Sheet

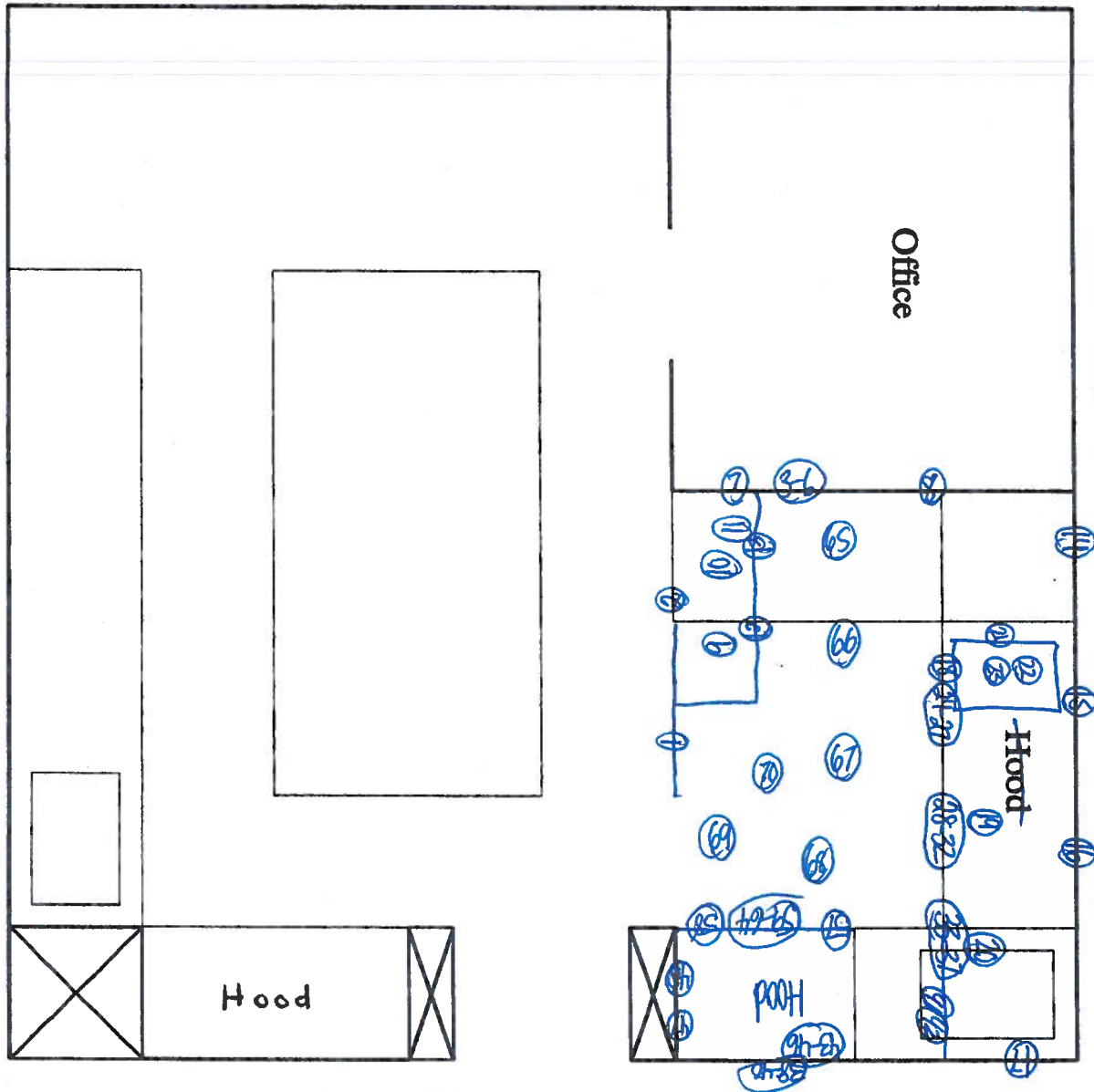
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Date 6/17/02

No.	Time	Location	Inst. Used	Total Activity (cpm/100 cm <sup>2</sup> )
47		top right inside hood	1	See attached LSC Printout
48		bottom right ↓	1	
49		inside window ↓	1	
50		inside hood left counter	1	
51		right counter	1	
52		shielding covers	1	✓ (see #'s 72-87)
53		shielding	1	✓ (see #88)
54		old sink	1	
55		matnet	1	
56		ledge	1	
57		out. left cabinet door	1	
58		out. right cabinet door	1	
59		left inside cabinet	1	
60		left back	1	
61		left bottom	1	
62		right back	1	
63		right bottom	1	
64		right side	1	
65		floor	1	
66			1	
67			1	
68			1	
69		↓	1	
70		chair	1	
71		post decon #20	1	
72		post decon #52	1	
73			1	
74	↓	↓	1	↓







○ = wipe location

Surveyed 100% of all lower surfaces using instrument #2. All areas were found to be at a level of normal background.

17 JUN 2002 11:11

ID: WIPES

USER: S COMMENT: WIPES

PRESET TIME : 1.00  
 DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : EDIT  
 COUNT BLANK : YES IC# : NO REPLICATES : 1 RS232 : EDIT  
 TWO PHASE : NO AGC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: YES LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.0000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 13.688 High: 306.34

SAM NO	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM		
B1	12.00	10.00	30.00	26.30	13.48		
	Blank Average		DPM for	3H :	26.30	COEF. OF VAR:	0.000
	Blank Average		DPM for	14C :	13.48	COEF. OF VAR:	0.000

1	13.00	12.00	36.00	-2.60	2.52
2	11.00	11.00	33.00	-8.42	1.08
3	12.00	10.00	32.00	-5.89	-0.29
4	11.00	13.00	29.00	-9.59	3.74
5	16.00	10.00	35.00	2.24	-0.37
6	11.00	10.00	32.00	-8.07	-0.28
7	11.00	8.00	27.00	-7.05	-2.95
8	20.00	9.00	35.00	11.52	-1.76
9	15.00	11.00	33.00	-0.23	0.99
10	8.00	7.00	26.00	-13.35	-4.27
11	11.00	8.00	32.00	-6.73	-2.94
12	14.00	4.00	31.00	0.36	-8.37
13	13.00	9.00	34.00	-3.75	-1.67
14	6.00	12.00	30.00	-19.76	2.47
15	18.00	7.00	38.00	7.99	-4.41
16	11.00	11.00	31.00	-8.44	1.07
17	10.00	11.00	30.00	-10.97	1.05
18	7.00	8.00	23.00	-15.72	-2.91
19	17.00	10.00	36.00	3.80	-0.41
20	28.00	56.00	101.00	3.70	60.78
21	12.00	11.00	28.00	-6.97	1.01
22	9.00	8.00	25.00	-11.30	-2.92
23	16.00	19.00	47.00	-1.54	11.74
24	9.00	12.00	34.00	-13.68	2.39
25	9.00	6.00	25.00	-10.51	-5.61
26	17.00	15.00	40.00	2.71	6.36
27	17.00	8.00	38.00	5.14	-3.07
28	6.00	5.00	22.00	-16.36	-6.90
29	14.00	7.00	32.00	-0.97	-4.37
30	11.00	9.00	29.00	-7.97	-1.64
31	13.00	9.00	36.00	-4.01	-1.68
32	12.00	16.00	40.00	-9.19	7.71
33	16.00	9.00	37.00	2.44	-1.72
34	10.00	10.00	28.00	-10.34	-0.27
35	17.00	8.00	33.00	5.14	-3.07
36	9.00	10.00	32.00	-12.69	-0.28

SAM NO	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM
37	9.00	7.00	25.00	-11.00	-4.27
	14.00	14.00	37.00	-3.63	5.04
	12.00	15.00	34.00	-5.00	6.75
40	13.00	9.00	31.00	-3.67	-1.67
41	11.00	8.00	28.00	-5.95	-2.90
42	10.00	4.00	27.00	-7.08	-8.29
43	11.00	12.00	30.00	-8.58	2.45
44	9.00	8.00	24.00	-10.99	-2.90
45	15.00	6.00	25.00	4.12	-5.66
46	12.00	15.00	36.00	-7.80	6.48
47	15.00	14.00	37.00	0.13	4.97
48	12.00	15.00	41.00	-8.30	6.42
49	7.00	11.00	38.00	-17.12	1.12
50	8.00	11.00	28.00	-14.93	1.11
51	15.00	8.00	36.00	1.43	-3.02
52	135.00	185.00	324.00	170.43	232.56
53	1263.00	2517.00	3791.00	1370.11	3335.78
54	10.00	9.00	37.00	-8.65	-1.53
55	10.00	10.00	31.00	-10.24	-0.26
56	15.00	11.00	38.00	-0.09	1.00
57	12.00	12.00	35.00	-6.75	2.40
58	10.00	10.00	29.00	-9.51	-0.21
59	15.00	12.00	37.00	0.23	2.38
60	11.00	9.00	30.00	-6.56	-1.56
61	13.00	11.00	38.00	-1.65	1.18
62	14.00	7.00	37.00	2.71	-4.27
	13.00	10.00	31.00	-2.30	-0.23
	10.00	9.00	26.00	-8.87	-1.54
65	11.00	10.00	26.00	-8.04	-0.27
66	12.00	10.00	37.00	-5.47	-0.26
67	10.00	6.00	28.00	-8.13	-5.61
68	16.00	9.00	37.00	3.10	-1.70
69	20.00	9.00	45.00	11.27	-1.77
70	15.00	6.00	39.00	2.54	-5.69

18 JUN 2002 10:18

ID: WIPES

USER: 5 COMMENT: WIPES

PRESET TIME : 1.00  
 DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : EDIT  
 DL DPM IC# : NO REPLICATES : 1 RS232 : EDIT  
 YES AQC : YES CYCLE REPEATS : 1  
 NO LUMEX: YES LOW SAMPLE REJ: 0  
 LIQUID HALF LIFE CORRECTION DATE: none  
 NO

ISOTOPE 1: 3H %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.0000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 13.688 High: 306.34

SAM NO	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM		
B1	6.00	6.00	20.00	9.67	7.93		
	Blank Average		DPM for	3H :	9.67	COEF. OF VAR:	0.000
	Blank Average		DPM for	14C :	7.93	COEF. OF VAR:	0.000

<i>7</i>	13.00	9.00	29.00	12.32	3.85
<i>8</i>	16.00	10.00	34.00	18.30	5.15
<i>9</i>	15.00	8.00	29.00	17.04	2.49
<i>10</i>	14.00	9.00	37.00	14.51	3.84
<i>11</i>	11.00	17.00	34.00	4.66	14.58
<i>12</i>	12.00	5.00	26.00	13.05	-1.44
<i>13</i>	17.00	5.00	32.00	23.01	-1.53
<i>14</i>	13.00	15.00	36.00	9.92	11.89
<i>15</i>	10.00	13.00	30.00	4.49	9.25
<i>16</i>	19.00	12.00	39.00	23.43	7.77
<i>17</i>	10.00	15.00	32.00	3.64	11.94
<i>18</i>	10.00	8.00	31.00	7.31	2.60
<i>19</i>	13.00	15.00	39.00	9.84	11.89
<i>20</i>	12.00	6.00	25.00	12.27	-0.11
<i>21</i>	14.00	11.00	36.00	13.87	6.53
<i>22</i>	7.00	11.00	27.00	-0.66	6.64
<i>23</i>	13.00	22.00	46.00	6.22	21.20
<i>24</i>	30.00	47.00	85.00	29.41	54.38



ID: WIPES

18 JUN 2002 12:19

USER: 5 COMMENT: WIPES

PRESET TIME : 1.00

DATA CALC :	DL DPM	H#	: YES	SAMPLE REPEATS:	1	PRINTER	: EDIT
COUNT BLANK :	YES	IC#	: NO	REPLICATES :	1	RS232	: EDIT
TWO PHASE :	NO	AQC	: YES	CYCLE REPEATS :	1		
SCINTILLATOR:	LIQUID	LUMEX:	YES	LOW SAMPLE REJ:	0		
LOW LEVEL :	NO	HALF LIFE CORRECTION DATE:				none	

ISOTOPE 1: 3H %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0

ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0

WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.0000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 13.688 High: 306.34

SAM NO	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM		
B1	16.00	14.00	39.00	25.55	18.38		
	Blank Average		DPM for	3H :	25.55	COEF. OF VAR:	0.000
	Blank Average		DPM for	14C :	18.38	COEF. OF VAR:	0.000
8A	16.00	48.00	72.00	-16.46	45.22		
90	11.00	16.00	34.00	-11.04	2.74		