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Eli Lilly and Company
Lilly Corporate Center
Indianapolis, IN 46285
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Phone 317 276 2000

November 12, 2010

Toye Simmons
Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Re: **RADIOACTIVE MATERIALS LICENSE NUMBER: 13-01133-02**
Request for Amendment 63
Response to November 10, 2010 questions

Dear Ms. Simmons:

Per your verbal request via our telephone conversation of 11/10/2010, enclosed please find our close-out surveys for the four labs (64, 110A, 163, and 164) referenced in our request for amendment 63. As we discussed, these were the only labs at the 2001 W. Main St. address where radioactive material was used during the time Lilly leased buildings from Covance.

After the sale of the Lilly Greenfield Laboratories facility to Covance in January 2009, Lilly leased Buildings 295 and 418 until construction of new facilities for Lilly's Elanco Animal Health Division was completed. When construction was complete, the new facilities were added to our license with amendment 60. Only small quantities of C-14 were used and/or stored in the leased rooms in Buildings 295 and 418. Close-out surveys were conducted with hand-held pancake GM surveys meters, a Ludlum gas flow proportional floor monitor, and wipe surveys counted by liquid scintillation.

Please contact me with any questions.

Sincerely,

ELI LILLY AND COMPANY

Stanley D. Hampton, M.S.
Corporate Radiation Safety Officer
Telephone: 317-276-7862
E-mail: hampton_stanley_d@Lilly.com

Close-out

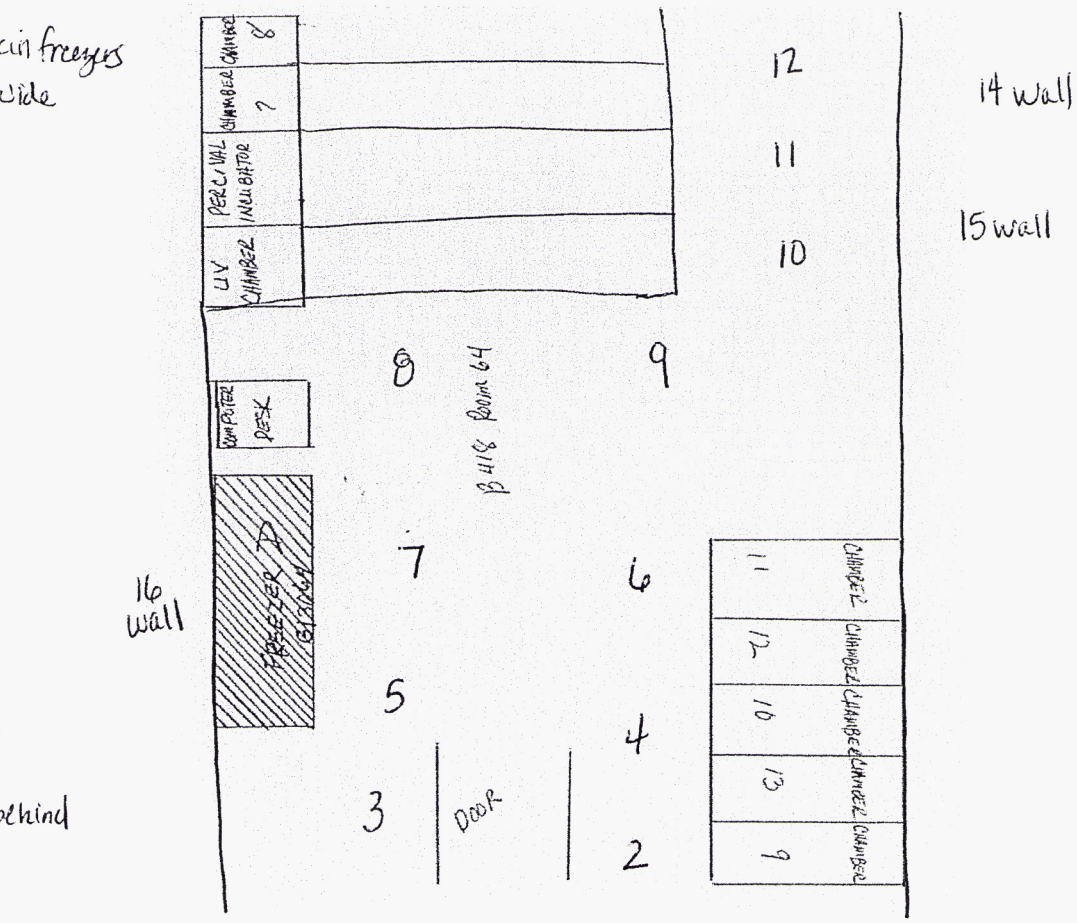
GL/4/18/64

3/26/10

Alisha Makin
Stan Hampton
Beth Kay
floor monitor
SEI 08076

room 34x14w

20l to walkin freezers
Wall 4ft wide



Protocol# 3 - Direct Assay.lsa User: Julia Klingler

Wipe Tests

Assay Definition-

Assay Description:
Direct DPM Assay

Assay Type: Direct DPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Julia Klingler\Direct Assay
Raw Results Path: C:\Packard\Tricarb\Results\Julia Klingler\Direct Assay\20100330_0701.results
Assay File Name: C:\Packard\TriCarb\Assays\Direct Assay.lsa

Count Conditions-

Nuclide: Direct DPM 3H
  Quench Indicator: tSIE/AEC
  External Std Terminator (sec): 0.5 2s%
  Pre-Count Delay (min): 0.00
Quench Set:
  Low Energy: 3H
Count Time (min): 1.00
Count Mode: Normal — Normalization Std DPM: 127500
Assay Count Cycles: 1 — Repeat Sample Count: 1
#Vials/Sample: 1 — Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	0.0	2000.0

Count Corrections-

Static Controller: On — Luminescence Correction: On
Colored Samples: n/a — Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 — Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				

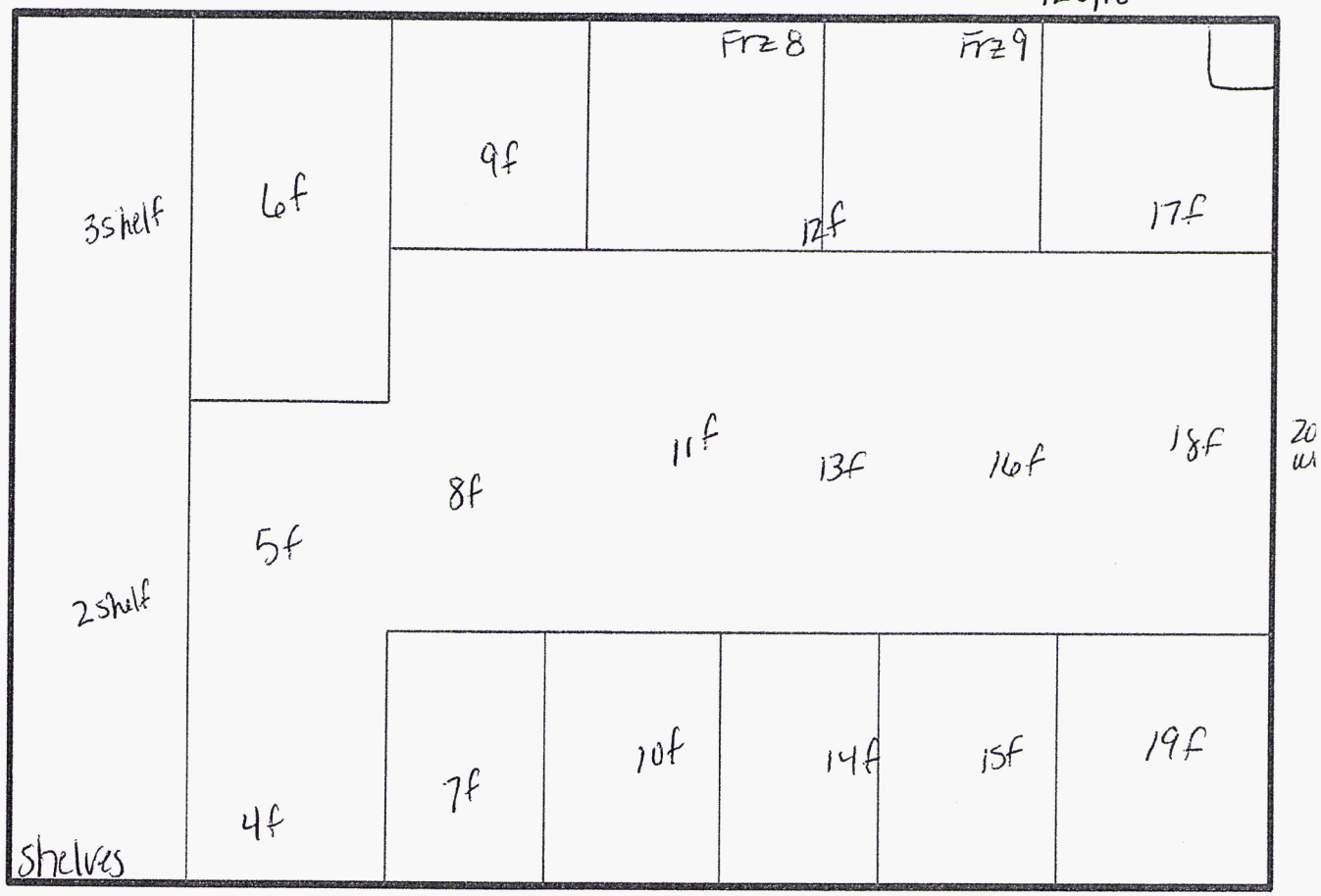
Cycle 1 Results

S#	DPM1	CPMA	tSIE	MESSAGES
1	46	40	566.67	
2	89	61	536.27	
3	38	29	533.12	
4	47	32	481.23	
5	86	61	525.69	
6	37	28	454.80	
7	59	44	550.89	
8	70	48	523.02	
9	37	25	519.09	

Wipe Tests

10	16	18	538.26
11	49	39	529.43
12	53	38	534.98
13	68	48	544.78
14	46	38	520.84
15	64	48	483.38
16	66	52	540.92
17	59	44	535.93
18	42	30	572.93
19	73	57	560.71
20	39	32	561.06
21	53	40	562.54
22	14	13	570.54

Closeout
GL/295/110A
3/26/10



all equipment removed
except as noted

room 23 x 8.
areas surveyed > 100 cm²

Floor monitor
→ SET 08076
Alisha Mahin
→ Beth Kay

Protocol# 3 - Direct Assay.lsa User: Julia Klingler

Wipe Tests

Assay Definition-

Assay Description:
Direct DPM Assay

Assay Type: Direct DPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Julia Klingler\Direct Assay
Raw Results Path: C:\Packard\Tricarb\Results\Julia Klingler\Direct Assay\20100330_0740.results
Assay File Name: C:\Packard\TriCarb\Assays\Direct Assay.lsa

Count Conditions-

Nuclide: Direct DPM 3H
  Quench Indicator: tSIE/AEC
  External Std Terminator (sec): 0.5 2s%
  Pre-Count Delay (min): 0.00
Quench Set:
  Low Energy: 3H
Count Time (min): 1.00
Count Mode: Normal — Normalization Std DPM: 127500
Assay Count Cycles: 1 — Repeat Sample Count: 1
#Vials/Sample: 1 — Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	0.0	2000.0

Count Corrections-

Static Controller: On — Luminescence Correction: On
Colored Samples: n/a — Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 — Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				

Cycle 1 Results

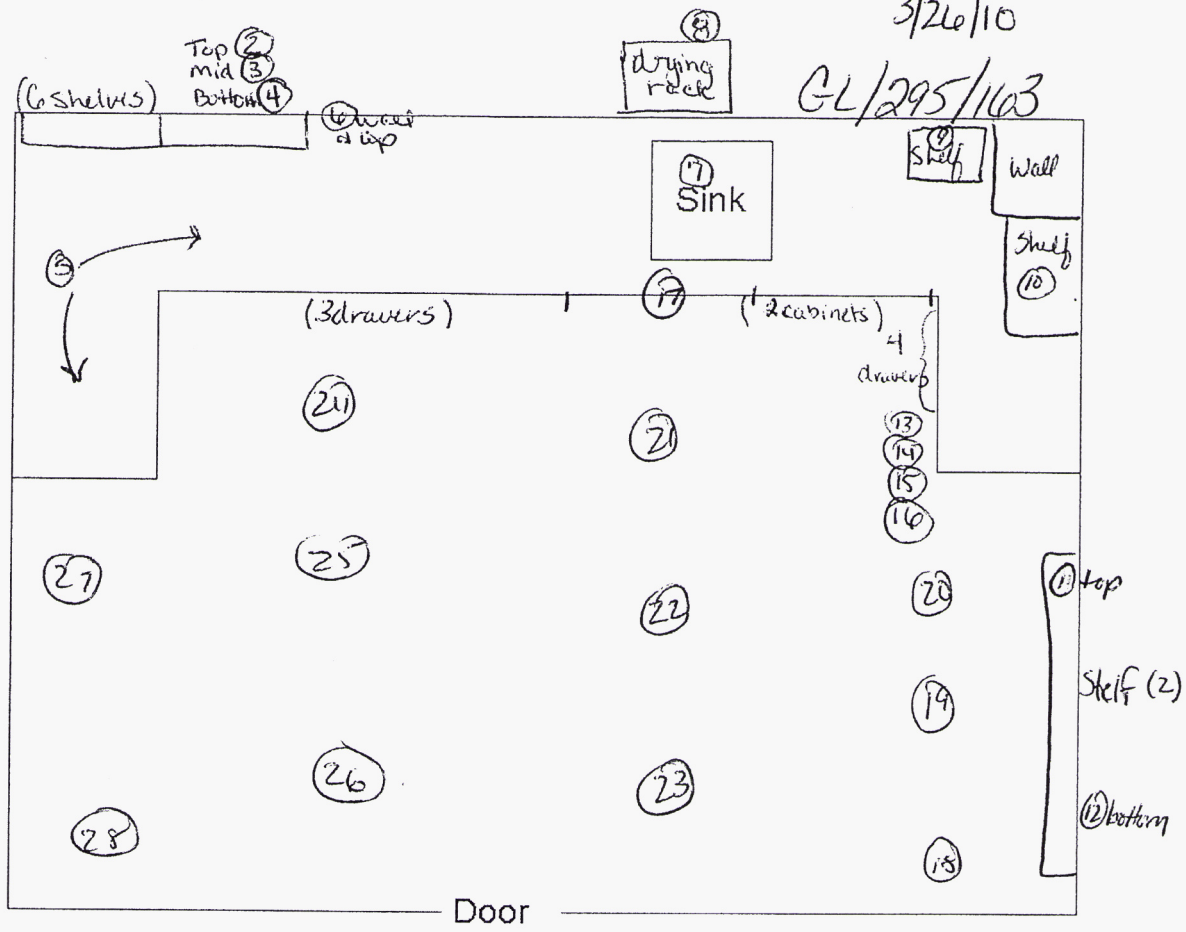
S#	DPM1	CPMA	tSIE	MESSAGES
1	45	37	570.27	
2	67	49	496.82	
3	61	45	542.09	
4	49	36	556.42	
5	56	41	559.08	
6	48	37	526.49	
7	44	36	541.61	
8	43	32	541.92	
9	63	44	553.89	

295/110A

Wipe Tests

10	70	54	560.75
11	48	39	538.17
12	42	33	542.66
13	68	51	556.05
14	61	44	564.06
15	59	45	564.53
16	69	52	493.73
17	44	31	575.62
18	29	23	565.95
19	29	25	565.93
20	62	47	561.71
21	70	49	450.39

Close out
3/26/10
GL/295/163



15 x 11 w

areas surveyed
7100 cm²
≥ 1000 cm²

floor monitor
→ SEI 08076 used

Alisha Mahin
Sara Beth Kay
Stan Hampton

Protocol# 3 - Direct Assay.lsa User: Julia Klingler

Wipe Tests

Assay Definition-

Assay Description:
Direct DPM Assay

Assay Type: Direct DPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Julia Klingler\Direct Assay
Raw Results Path: C:\Packard\Tricarb\Results\Julia Klingler\Direct Assay\20100330_0904.results
Assay File Name: C:\Packard\TriCarb\Assays\Direct Assay.lsa

Count Conditions-

Nuclide: Direct DPM 3H
  Quench Indicator: tSIE/AEC
  External Std Terminator (sec): 0.5 2s%
  Pre-Count Delay (min): 0.00
Quench Set:
  Low Energy: 3H
Count Time (min): 1.00
Count Mode: Normal — Normalization Std DPM: 127500
Assay Count Cycles: 1 — Repeat Sample Count: 1
#Vials/Sample: 1 — Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	0.0	2000.0

Count Corrections-

Static Controller: On — Luminescence Correction: On
Colored Samples: n/a — Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 — Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				

Cycle 1 Results

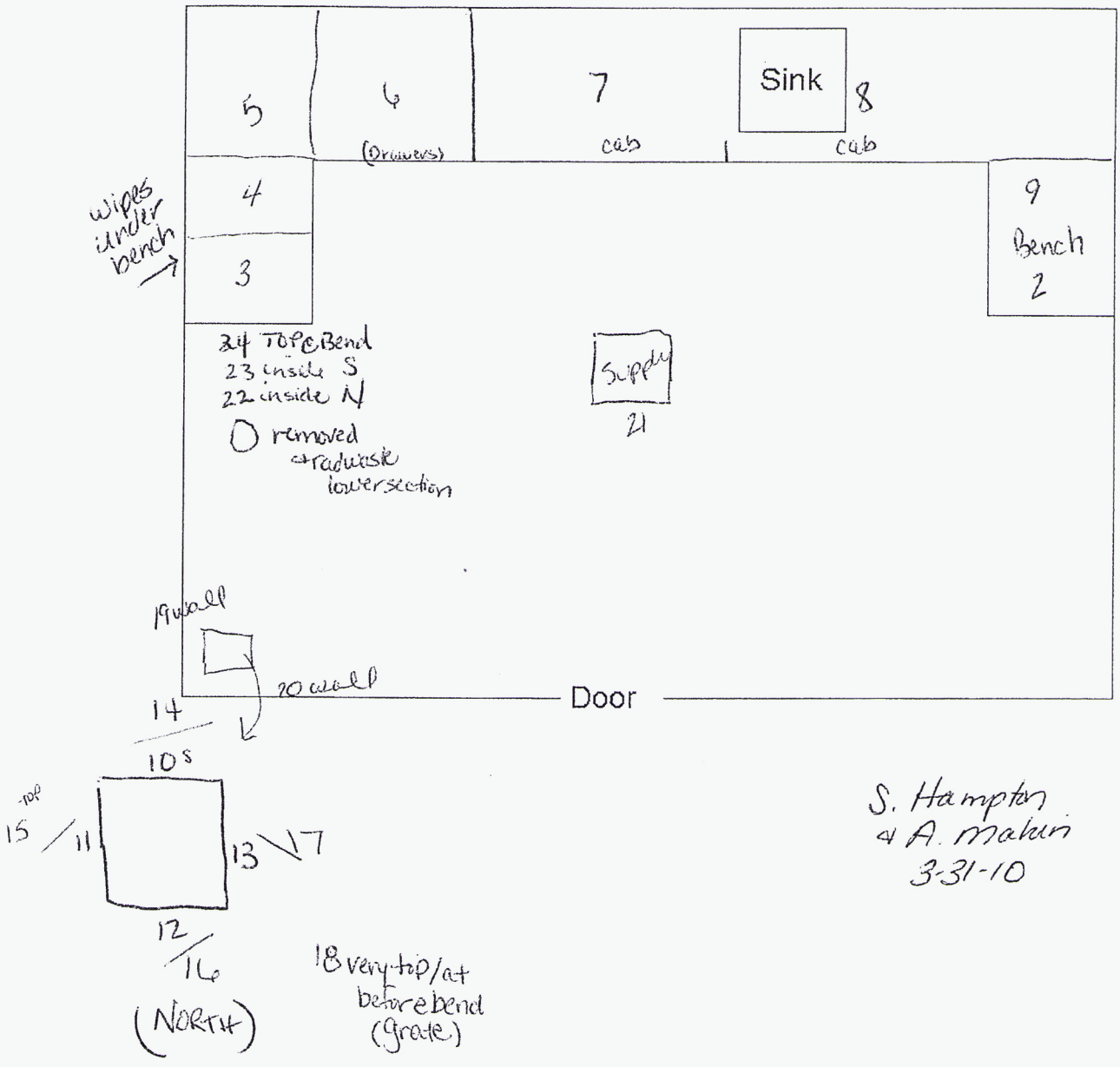
S#	DPM1	CPMA	tSIE	MESSAGES
1	51	37	566.21	
2	44	36	500.63	
3	71	48	510.06	
4	44	32	530.40	
5	60	43	554.78	
6	40	29	539.45	
7	35	26	552.11	
8	28	19	418.50	
9	40	32	543.05	
10	23	17	554.32	

Wipe Tests

11	38	29	545.25
12	62	55	535.12
13	100	71	560.86
14	94	65	541.57
15	66	47	562.77
16	45	34	566.65
17	71	56	507.11
18	72	54	542.11
19	92	64	552.72
20	49	41	556.83
21	96	77	536.53
22	35	27	536.05
23	72	56	546.20
24	68	50	551.32
25	72	57	535.01
26	22	18	538.72
27	55	43	547.27
28	78	54	528.61

GL/295/164

Decon & removal
rewipes



S. Hampton
& A. Makin
3-31-10

Wipe Tests

Assay Definition-

Assay Description:
Direct DPM Assay

Assay Type: Direct DPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Julia Klingler\Direct Assay
Raw Results Path: C:\Packard\Tricarb\Results\Julia Klingler\Direct Assay\20100331_1435.results
Assay File Name: C:\Packard\TriCarb\Assays\Direct Assay.lsa

Count Conditions-

Nuclide: Direct DPM 3H
  Quench Indicator: tSIE/AEC
  External Std Terminator (sec): 0.5 2s%
  Pre-Count Delay (min): 0.00
Quench Set:
  Low Energy: 3H
Count Time (min): 1.00
Count Mode: Normal — Normalization Std DPM: 127500
Assay Count Cycles: 1 — Repeat Sample Count: 1
#Vials/Sample: 1 — Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	0.0	2000.0

Count Corrections-

Static Controller: On — Luminescence Correction: On
Colored Samples: n/a — Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 — Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				

Cycle 1 Results

S#	DPM1	CPMA	tSIE	MESSAGES
1 Bkg	36	29	567.95	
2	50	38	576.77	
3	46	37	566.32	
4	46	34	568.49	
5	62	49	553.90	
6	53	43	551.33	
7	68	53	562.67	
8	61	51	551.97	
9	69	55	544.21	

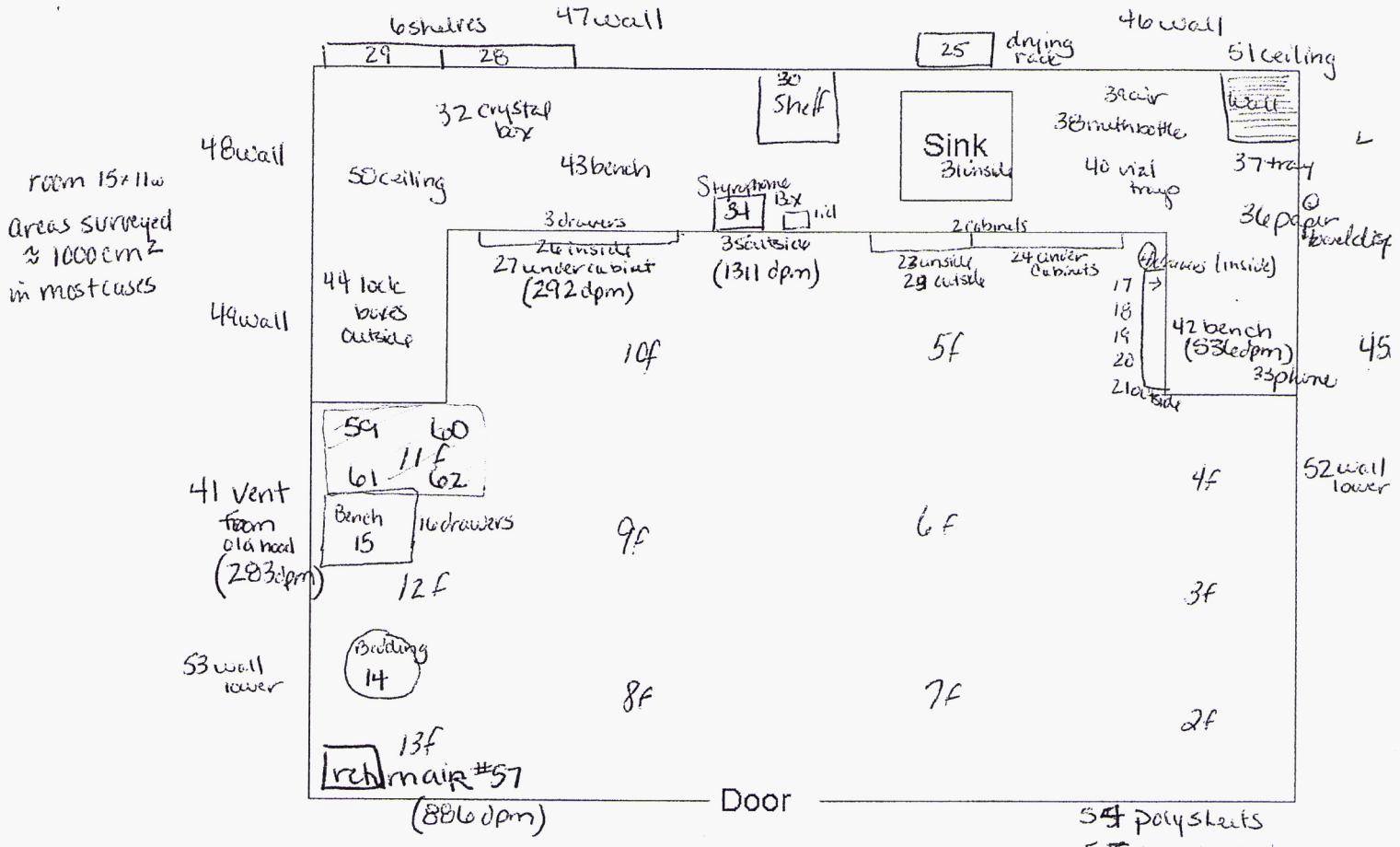
295/164(B)

Wipe Tests

10	43	36	538.94
11	66	43	560.51
12	40	33	549.03
13	69	45	550.67
14	58	51	511.69
15	40	31	549.28
16	80	61	515.61
17	71	56	510.62
18	124	102	494.00
19	57	40	566.94
20	57	45	561.66
21	76	55	532.95
22	58	41	567.84
23	51	42	553.32
24	68	52	539.29

Closeout

GL 295/164 3/26/10



floor monitor

≈ 2000 cpm w/ bkg 800-1000 cpm

Cleaned + rewipes (4) taken

floor monitor
+ SET 08076

Alisha Makin
Beth Kay
Stan Hampton

Wipe Test

Assay Definition-

Assay Description:
Direct DPM Assay

Assay Type: Direct DPM
Report Name: Report 1
Output Data Path: C:\Packard\Tricarb\Results\Julia Myer\DirectAssay
Raw Results Path: C:\Packard\Tricarb\Results\Julia Myer\DirectAssay\20100330_0556.results
Assay File Name: C:\Packard\Tricarb\Assays\DirectAssay.lsa

Count Conditions-

Nuclide: Direct DPM 3H
  Quench Indicator: tSIE/AEC
  External Std Terminator (sec): 0.5 2s%
  Pre-Count Delay (min): 0.00
Quench Set:
  Low Energy: 3H
Count Time (min): 1.00
Count Mode: Normal — Normalization Std DPM: 289100
Assay Count Cycles: 1 — Repeat Sample Count: 1
#Vials/Sample: 1 — Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	0.0	2000.0

Count Corrections-

Static Controller: On — Luminescence Correction: On
Colored Samples: n/a — Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 — Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				

Cycle 1 Results

S#	DPM1	CPMA	tSIE	MESSAGES
1	34	28	581.90	
2	47	28	566.10	
3	59	49	563.61	
4	160	134	558.60	
5	65	45	575.70	
6	56	37	576.62	
7	55	38	576.84	
8	62	43	577.05	
9	46	31	585.89	
10	53	45	570.20	

(a)
9/15/16

Wipe Test

11	215	188	543.82
12	56	44	579.32
13	94	79	576.69
14	34	24	566.05
15	47	30	560.90
16	139	118	566.88
17	51	36	579.92
18	40	26	576.25
19	35	23	564.54
20	57	38	578.75
21	47	31	584.99
22	54	43	580.20
23	56	38	482.98
24	160	143	558.57
25	47	38	488.32
26	44	31	582.94
27	292	249	537.95
28	60	42	570.60
29	56	38	583.52
30	110	82	546.19
31	66	43	582.65
32	91	72	585.87
33	49	38	573.86
34	1311	1215	572.38
35	183	163	569.17
36	40	35	560.86
37	57	45	575.00
38	201	164	548.92
39	63	51	577.32
40	110	87	556.00
41	283	257	507.37
42	536	490	460.56
43	63	49	573.63
44	56	48	569.14
45	84	66	554.43
46	51	39	557.83
47	39	28	578.05
48	83	58	558.57
49	135	105	541.55
50	42	35	566.57
51	48	34	566.58
52	232	201	576.85
53	65	51	565.70
54	171	147	526.75
55	57	47	564.17
56	196	165	561.52
57	886	777	383.35
Missing vial 58.			
59	50	41	569.04
60	38	34	543.15
61	97	79	561.38
62	88	62	575.41

295/164(a)