

Radiological Survey Sheet

Job Location PRICEE (GROTON) CT 118w/w309 Page 1 of 18

Survey Purpose LAB DECON Date 11/2/04

Performed by P. KEEFE (Print)  (Sign)

Instrument (Model/S/N)	Packard Tri-Carb S/N 431521	Packard Tri-Carb S/N 431520	Ludlum 2241-2 163603	
Det. (Model/SN)	Internal	Internal	Ludlum 43-68 PR 149613	
Type Rad.	β	β	β	
Cal. Due:	10/12/05	10/12/05	03/07/05	
Check Instruments Used		X	X	

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
1.	0810	BACKGROUND	
2.	↓	OFFICE DOOR - LOWER	
3.		DESKTOP SWIPE - LEFT	
4.		-Right	
5.		Keyborden Holder	
6.		DESK DRAWERS LEFT SIDE -TOP -OUT	
7.		-IN	
8.		-Bottom -OUT	
9.		-IN	
10.		DESK DRAWERS Right Side -TOP -out / in	
11.		-mid -out / in	
12.		-Bottom -OUT / IN	
13.		ALCOVE UNDER DESK - LEFT	
14.		-Right	
15.		Shelves Above DESK - LEFT (3)	
16.		- Right (3)	
17.		↓ SUPPORTS	
18.		0910	Wall to the left of Glass Doors

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LAB DECON 118W W30A

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
19	0910	Window Swipes - LEFT	
20		-RIGHT	
21		OFFICE WALL RIGHT - UPPER	
22		- LOWER	
23		OFFICE FLOOR	
24		CHAIRS - BLACK	
25		- BLUE	
26		- RED	
27		OUTSIDE WALL OF OFFICE w/ Extinguisher - UPPER	
28		- LOWER	
29		LAB DOOR TO W311 - UPPER	
30		- LOWER	
31		OVERHEAD CABINET - DOORS - LEFT - OUT / IN	
32		- RIGHT - OUT / IN	
33		OUTSIDE CABINET - LEFT / BOTTOM	
34		INSIDE CABINET - LEFT / RIGHT / REAR	
35		- shelves	
36		BACKSLASH OF BENCHTOP	
37		FAUCETS / FLOW VALVES	
38		SM BASIN	
39		BENCHTOP - LEFT	
40		- RIGHT	
41		DRAWS - TOP - OUT / IN	
42		- UPPER MID ↓ ↓	
43		- LOWER MID ↓ ↓	
44	✓	- BOTTOM - OUT / IN	
45	0920	CABINET DOORS - LEFT - OUT / IN	

Radiological Survey Continuation Sheet

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LAB DECON 118W W309

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
46	1000	CABINET - DOORS - Right - OUT/IN	
47		INSIDE CABINET - LEFT / RIGHT	
48		- REAR / BOTTOM	
49		- TRAY	
50		OUTSIDE OF HOOD - LEFT SIDE - UPPER	
51		- LOWER	
52		HOOD CONTROLS - UPPER	
53		- LOWER	
54		SHROOD TOP OF HOOD	
55		TOP LEFT DRAW - OUT/IN	
56		MID (2) MED DRAWS - OUT/IN	
57		UPPER BOTTOM - OUT/IN	
58		LOWER BOTTOM - OUT/IN	
59		GLASS SASH - OUT	
60		- IN	
61		INSIDE HOOD - LEFT WALL - UPPER	
62		- LOWER	
63		REAR - UPPER	
64		- MID	
65		- LOWER	
66		Flow Valves	
67		METAL RACK	
68		BENCHTOP	
69		SHROOD ABOVE HOOD	
70		GLASS SASH - OUT	
71		- IN	
72	1020	CABINET UNDER HOOD - DOORS - LEFT - OUT/IN	

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LAB DECON 118W W309

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
73	1021	CABINET UNDER HOOD - DOOR - RIGHT - OUT / IN	
74		INSIDE CABINET - LEFT / RIGHT	
75		- REAR / BOTTOM	
76		- TRAY	
77		INSIDE HOOD - REAR - UPPER	
78		- MID	
79		- LOWER	
80		Flow Values	
81		METAL RACK	
82		SM BASIN	
83		BENCHTOP	
84		SHROUD ABOVE HOOD	
85		GLASS SASH - OUT / IN	
86		- IN	
87		CABINET UNDER HOOD - DOOR - OUT / IN	
88		INSIDE CABINET - LEFT / RIGHT	
89		- BOTTOM / REAR	
90		INSIDE HOOD - REAR - UPPER	
91		- MID	
92		- LOWER	
93		Flow Values	
94		METAL RACK	
95		BENCHTOP	
96		SHROUD ABOVE HOOD	
97		GLASS SASH - OUT / IN	
98	↓	- IN	
99	1035	CABINET UNDER HOOD - DOOR - LEFT - OUT / IN	

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Date 11/02/04

LAB DECON 118W W304

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
100	1035	CABINET UNDER HOOD - DOOR - Right - OUT/IN	
101		INSIDE CABINET - LEFT RIGHT	
102		- REAR BOTTOM	
103		INSIDE OF HOOD - REAR - UPPER	
104		- MIDDLE	
105		- BOTTOM	
106		Flow Values	
107		METAL RACK	
108		5m BASIN	
109		BENCHTOP	
110		SHROUD ABOVE HOOD	
111		GLASS SASH - OUT	
112		- IN	
113		ALCOVE UNDER HOOD - LEFT	
114		- Right	
115		INSIDE HOOD - REAR - UPPER	
116		- MID	
117		- LOWER	
118		Flow Values	
119		METAL RACK	
120		5m BASIN	
121		BENCHTOP	
122		SHROUD ABOVE HOOD	
123		HOOD CONTROLS - UPPER	
124		- LOWER	
125	↓	GLASS SASH - OUT	
126	1045	- IN	

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LAB DACON 118W W309

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
127	1046	CABINET UNDER HOOD - DOOR - OUT / IN	
128		INSIDE CABINET - LEFT / RIGHT	
129		- REAR / BOTTOM	
130		INSIDE HOOD - LEFT RIGHT WALL - UPPER	
131		- LOWER	
132		- REAR - UPPER	
133		- MIDDLE	
134		- LOWER	
135		Flow Valves	
136		METAL RACK	
137		SINK BASIN - LEFT / RIGHT	
138		- REAR / BOTTOM	
139		BENCHTOP	
140		Wall to the right of HOOD - UPPER	
141		- LOWER	
142		OVERHEAD CABINET - DOORS - OUT	
143		- IN	
144		OUTSIDE CABINET - BOTTOM	
145		INSIDE CABINET - LEFT / RIGHT	
146		- REAR / BOTTOM	
147		- shelves	
148		WINDOW UNDER CABINET	
149		Wall UNDER WINDOW	
150		Wall Adjacent to window - UPPER	
151		- LOWER	
152	↓	CABINET DOORS - OUT	
153	1107	- IN	

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LAB DEWON 118W W309

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
154	1108	INSIDE CABINET - LEFT / RIGHT	
155		- REAR / BOTTOM	
156		OUTSIDE CABINET LEFT SIDE	
157		OVERHEAD CABINET DOORS - LEFT - OUT / IN	
158		- RIGHT - OUT / IN	
159		OUTSIDE - BOTTOM / RIGHT	
160		BENCHTOP shelf	
161		BENCHTOP	
162		OVERHEAD CABINET - DOORS - LEFT - OUT / IN	
163		- RIGHT - OUT / IN	
164		INSIDE CABINET - LEFT / RIGHT	
165		- REAR / BOTTOM	
166		- shelves	
167		BENCHTOP shelf	
168		BENCHTOP	
169		DRAW TOP LEFT (2) small - OUT / IN	
170		TOP Right (2) small - OUT / IN	
171		LEFT MEDIUM DRAW - OUT / IN	
172		Right MEDIUM DRAW - OUT / IN	
173		Large UPPER DRAW - OUT / IN	
174		Lower DRAW - OUT / IN	
175		OVERHEAD CABINET - DOORS - LEFT - OUT / IN	
176		- RIGHT - OUT / IN	
177		INSIDE CABINET - LEFT / RIGHT	
178		- REAR / BOTTOM	
179	↓	- shelves	
180	1120	BENCHTOP shelf	

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LAB DECON 118W W309

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
181	1124	BENCHTOP	
182		DRAWNS - LEFT - OUT / IN	
183		- Right - OUT / IN	
184		CABINET DOORS - LEFT - OUT / IN	
185		- Right - OUT / IN	
186		INSIDE CABINET - LEFT / RIGHT	
187		- REAR / BOTTOM	
188		OVERHEAD CABINET - DOORS - LEFT - OUT / IN	
189		- RIGHT - OUT / IN	
190		INSIDE CABINET - LEFT / RIGHT	
191		- REAR / BOTTOM	
192		- Shelves	
193		GLASS RACK	
194		FAUCETS	
195		EYEWASH	
196		SINK BASIN - LEFT / RIGHT	
197		- REAR / FRONT	
198		- BOTTOM / REAR	
199		TOP AROUND BASIN - FRONT	
200		- REAR	
201		CABINET DOORS - LEFT - OUT / IN	
202		- Right - OUT / IN	
203		INSIDE CABINET - LEFT / RIGHT	
204		- REAR / BOTTOM	
205		OUTSIDE CABINET	
206	↓	FLOW VALVES	
207	1200	Pipes	

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LAB DECON 118W W309

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
208	1230	Plexi-glass shield	
209		SIDE OF CABINET	
210		Flaw valves	
211		Pipes	
212		Plexi-glass shield	
213		OVERHEAD CABINET - OUTSIDE RIGHT / BOTTOM	
214		INSIDE CABINET - LEFT / RIGHT	
215		- REAR / BOTTOM	
216		- shelves	
217		GLASS RACK	
218		FAUCETS	
219		EYEWASH	
220		COUNTER AROUND BASIN	
221		BASIN - LEFT / RIGHT	
222		- FRONT / REAR	
223		- BOTTOM / DRAW	
224		CABINET - DOORS - LEFT - OUT / IN	
225		- RIGHT - OUT / IN	
226		INSIDE CABINET - LEFT / RIGHT	
227		- REAR / BOTTOM	
228		OVERHEAD CABINET - OUT	
229		INSIDE - LEFT / RIGHT	
230		- REAR / BOTTOM	
231		- shelves	
232		BENCHTOP SHELF	
233	↓	BENCHTOP	
234	1243	DRAW - LEFT - OUT / IN	

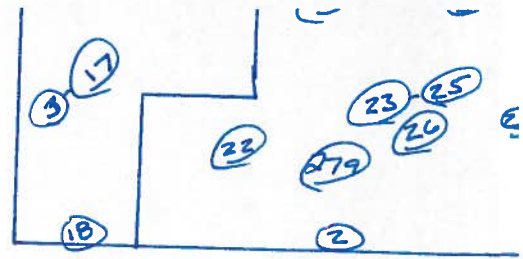
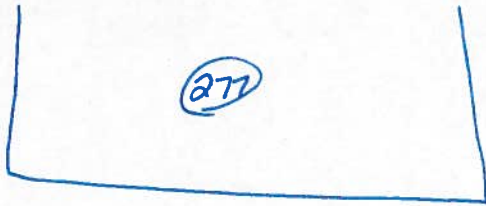
Radiological Survey Continuation Sheet

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Date 11/2/04

LAB DECON 118W W3D9

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm ²)
235	1245	DRAWS - Right -OUT /IN	
236		CABINET - DOORS - LEFT -OUT /IN	
237		-Right -OUT /IN	
238		INSIDE CABINET - LEFT /RIGHT	
239		- REAR /BOTTOM	
240		OVERHEAD CABINET DOORS - LEFT -OUT /IN	
241		- Right -OUT /IN	
242		INSIDE - LEFT /RIGHT	
243		- REAR /BOTTOM	
244		- SHELVES	
245		BENCHTOP SHELF	
246		BENCHTOP	
247		DRAWS TOP LEFT (2) -OUT	
248		- IN	
249		RIGHT (2) -OUT	
250		- IN	
251		LEFT MEDIUM DRAW -OUT /IN	
252		Right MEDIUM DRAW -OUT /IN	
253		UPPER LARGE DRAW -OUT /IN	
254		LOWER LARGE DRAW -OUT /IN	
255		OVERHEAD CABINET - DOORS - LEFT -OUT /IN	
256		-Right -OUT /IN	
257		INSIDE - LEFT /Right	
258		- REAR /BOTTOM	
259	BENCHTOP shelf		
260	↓	BENCHTOP	
261	1300	SIDE OF CABINET	



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Office Location

156

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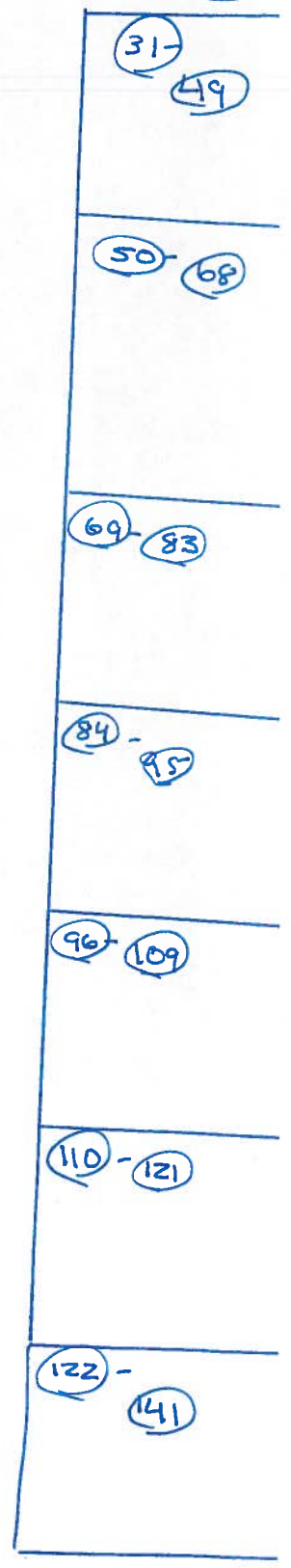
267

268

265

269

All sources surveyed with volume 2241 and found to be within limits.



Protocol# 9 - Room Decon.lsa

User: Peter Keefe

lab Decon 118W W309

Assay Definition-

Assay Description:
Rad Room Monthly Swipes

Assay Type: CPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Peter Keefe\Room Decon
Raw Results Path: C:\Packard\Tricarb\Results\Peter Keefe\Room Decon\20041102_1458.results
Assay File Name: C:\Packard\TriCarb\Assays\Room Decon.lsa

Count Conditions-

Nuclide: TRIPLE
Quench Indicator: tSIE/AEC
External Std Terminator (sec): 0.5 2s%
Pre-Count Delay (min): 0.00
Quench Set: n/a
Count Time (min): 1.00
Count Mode: Normal
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	18.6
B	18.6	156.0
C	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				
B				
C				

Cycle 1 Results

S#	CPMA	CPMB	CPMC	MESSAGES
1	14	8	27	<u>Background</u>
2	12	8	24	
3	21	5	39	
4	15	8	27	
5	17	10	32	
6	15	15	32	
7	14	6	24	
8	9	5	15	
9	17	8	31	
10	9	10	22	
11	16	5	27	
12	16	7	33	
13	23	9	39	

Protocol# 9 - Room Decon.lsa

User: Peter Keefe

lab Decon 118W W309

14	8	10	25
15	18	8	32
16	16	5	27
17	17	3	24
18	10	9	20
19	19	10	34
20	24	6	40
21	19	8	32
22	17	7	28
23	10	3	20
24	21	5	32
25	13	8	27
26	14	6	29
27	18	9	34
28	15	4	23
29	10	6	22
30	14	5	22
31	9	6	23
32	19	6	28
33	6	11	23
34	9	3	19
35	11	9	25
36	16	5	27
37	10	9	24
38	14	8	27
39	8	8	22
40	14	12	31
41	4	1	13
42	14	6	27
43	16	11	34
44	16	6	30
45	9	7	26
46	21	10	37
47	16	10	29
48	11	10	27
49	19	5	34
50	9	12	25
51	12	3	17
52	12	3	26
53	24	11	40
54	8	18	31
55	7	8	22
56	14	4	29
57	15	5	28
58	10	9	21
59	12	5	22
60	11	8	27
61	21	9	36
62	9	8	19
63	13	7	27
64	20	7	31
65	7	7	18
66	6	5	19
67	17	6	29
68	15	5	27
69	18	5	28
70	11	5	25
71	6	11	21
72	14	7	27
73	15	10	31
74	9	6	23
75	8	8	20
76	13	9	27

Protocol# 9 - Room Decon.lsa

User: Peter Keefe

lab Decon 118W W309

77	15	7	25
78	9	9	23
79	13	4	27
80	9	7	20
81	20	6	35
82	17	6	28
83	11	5	20
84	10	8	28
85	13	8	29
86	9	6	20
87	11	4	20
88	20	3	26
89	11	13	31
90	14	7	22
91	14	7	27
92	17	7	27
93	17	5	29
94	8	14	24
95	19	4	32
96	9	9	24
97	13	10	28
98	11	7	27
99	10	4	18
100	4	7	15
101	25	10	40
102	24	13	46
103	7	10	24
104	8	4	17
105	12	4	23
106	28	7	38
107	10	4	19
108	14	8	30
109	19	6	31
110	14	6	24
111	3	4	8
112	10	8	24
113	9	4	17
114	10	8	26
115	17	5	30
116	11	5	21
117	8	11	25
118	16	5	28
119	11	10	28
120	18	5	27
121	11	9	24
122	12	5	24
123	14	9	27
124	19	12	39
125	20	9	31
126	12	5	24
127	22	4	33
128	8	6	21
129	18	9	30
130	11	4	21
131	2	10	18
132	18	8	29
133	11	4	18
134	21	6	35
135	26	6	39
136	21	7	34
137	6	7	21
138	17	11	32
139	11	13	30

Protocol# 9 - Room Decon.lsa

User: Peter Keefe

lab Decon 118W W309

140	19	4	29
141	16	7	31
142	13	9	27
143	7	11	21
144	20	5	34
145	21	8	33
146	7	11	24
147	13	8	27
148	6	6	18
149	10	11	27
150	23	6	36
151	22	5	36
152	8	11	24
153	22	8	35
154	12	5	25
155	12	4	28
156	15	15	35
157	14	4	24
158	14	4	24
159	9	7	28
160	4	8	19
161	8	4	18
162	9	8	27
163	10	8	20
164	16	7	32
165	23	6	32
166	19	5	30
167	10	5	20
168	10	3	15
169	13	5	27
170	6	6	19
171	15	11	28
172	15	4	27
173	11	6	21
174	15	9	31
175	13	8	26
176	14	11	35
177	13	6	23
178	10	8	24
179	14	4	23
180	11	6	26
181	11	5	24
182	11	6	22
183	14	4	24
184	9	5	22
185	13	9	27
186	9	7	24
187	9	10	23
188	12	8	25
189	6	14	24
190	13	8	31
191	8	8	25
192	13	9	26
193	13	5	22
194	19	8	31
195	19	7	29
196	13	5	25
197	17	11	34
198	19	7	33
199	10	9	26
200	7	11	23
201	13	5	21
202	14	6	25

Protocol# 9 - Room Decon.lsa

User: Peter Keefe

lab Decon 118W W309

203	9	8	22
204	14	4	24
205	17	10	30
206	13	5	21
207	10	5	20
208	17	6	28
209	16	7	31
210	13	8	26
211	13	9	30
212	4	3	11
213	9	8	22
214	19	8	32
215	11	9	25
216	16	10	35
217	9	6	19
218	15	8	30
219	9	7	20
220	11	12	27
221	11	7	22
222	9	4	23
223	15	5	27
224	13	7	26
225	10	11	33
226	9	4	18
227	12	6	27
228	13	9	28
229	10	10	27
230	16	3	29
231	22	7	35
232	8	8	19
233	7	7	22
234	18	3	24
235	14	7	25
236	22	5	29
237	19	5	32
238	21	7	35
239	15	9	31
240	8	10	24
241	20	7	36
242	11	6	23
243	12	7	25
244	11	8	23
245	17	8	33
246	14	8	25
247	22	6	31
248	11	5	20
249	13	12	32
250	9	9	22
251	23	6	36
252	18	6	26
253	11	3	18
254	14	8	24
255	20	6	34
256	21	7	34
257	9	10	28
258	7	6	14
259	17	3	28
260	5	8	17
261	20	5	31
262	12	7	23
263	22	9	38
264	15	2	19
265	14	10	30

Protocol# 9 - Room Decon.lsa

User: Peter Keefe

lab Decon 118W W309

266	11	10	29
267	12	10	25
268	13	11	32
269	4	14	21
270	12	4	22
271	11	6	28
272	12	11	31
273	13	10	30
274	15	6	26
275	12	8	26
276	12	8	28
277	4	6	17
278	18	11	37
279	14	9	28
280	11	13	30