


## Radiological Survey Sheet

Job Location PIZIER GROTON Page 1 of 11  
 Survey Purpose LAB DECON 118 238 Date 4/16/06  
 Performed by D. Keefe (Print)  (Sign)

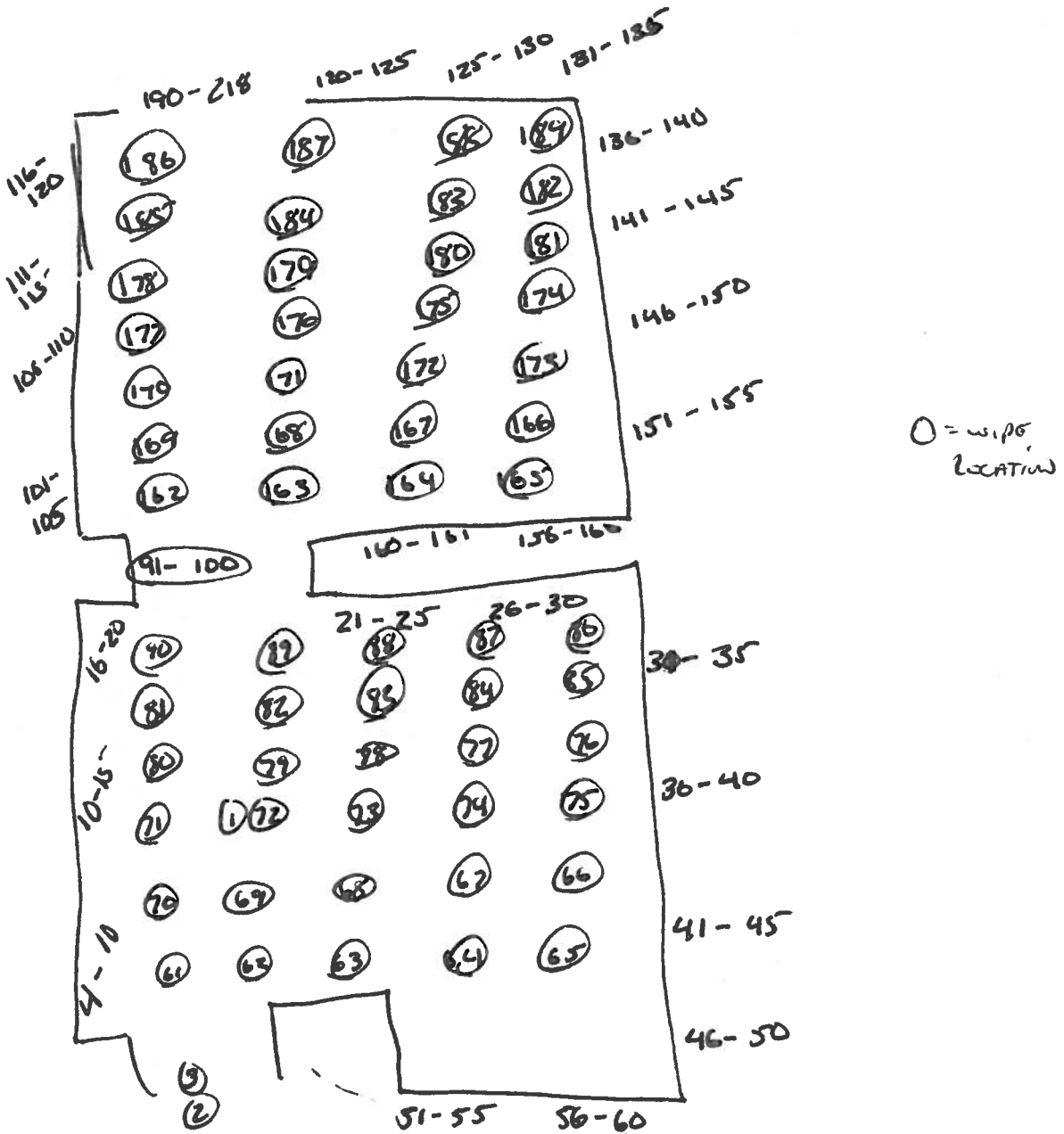
<b>Instrument (Model/S/N)</b>	Packard Tri-Carb S/N 431521	Packard Tri-Carb S/N 431520	Ludlum 2241-2 163603	Wallac Model 1409 S/N 4061042
<b>Det. (Model/SN)</b>	Internal	Internal	Ludlum 43-68 PR 149613	Internal
<b>Type Rad.</b>	β	β	β	β
<b>Cal. Due:</b>	10/12/06	10/12/06	04/14/06 4/14/07	12/01/06
<b>Check Instruments Used</b>			X	X

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
1.	1300	BACKGROUND	
2.		(LAB ENTRANCE DOOR -OUT	
3.		-IN	
4.		Wall swipes	
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.		↓	
18.	1305	Wall Swipes	



4/16-17/06

LAB DECON 118 238



All SURFACES surveyed with Ludlum 2241-2  
 AND found to be within limits (pa)

P88AS001.DAT

PROTOCOL : 88 Lab Decon 118 238  
 DATE : 2006/04/18  
 TIME : 11:36  
 ID : P88AS001

118 238

Wallac 1400 DSA ver 2.50 S/N 4091042

Counting mode : CPM  
 Isotope(s) : H3,C14,K40  
 H3 = 5- 350,12.43 y  
 C14 = 5- 660,5730.00 y  
 K40 = 5-1010,1260000000.00 y  
 Protocol name : Lab Decon 118 238  
 Counting time : 60  
 Repeats : 1  
 Cycles : 1  
 Replicates : 1  
 2 sigma % : 0.01  
 Minimum cpm : 0.00 Checking time: 10  
 Output to Display :  
 POS,RACK,CTIME,DATE,CPM1,CPM2,CPMw1,RACKPOS,CPM,SQPI,CPM3  
 Additions to Display : Header,Listing,Spectrum  
 Header : 118 238  
 Spectrum : Beta  
 Window 1 : 1-1024 /Beta  
 Window 2 : 1-1024 /Beta  
 Window 3 : 1-1024 /Beta  
 Window 4 : 1-1024 /Beta  
 Window 5 : 1-1024 /Beta  
 Window 6 : 1-1024 /Beta  
 FNCT1 = FNCT1 :  
 FNCT2 = FNCT2 :  
 FNCT3 = FNCT3 :  
 FNCT4 = FNCT4 :

Total count rate:

H3 4640.9 CPM  
 C14 6132.4 CPM  
 K40 7172.8 CPM

POS	RACK	CTIME	DATE	CPM1	CPM2	CPMW1
1	0	60	4/18/2006	31.20	40.50	44.70

## P88AS001.DAT

POS	RACK	CTIME	DATE	CPM1	CPM2	CPMW1
2	0	60	4/18/2006	18.70	20.80	23.90
3	0	60	4/18/2006	23.90	31.20	36.40
4	0	60	4/18/2006	27.10	37.50	41.70
5	0	60	4/18/2006	17.70	26.00	36.30
6	0	60	4/18/2006	17.60	21.80	23.90
7	0	60	4/18/2006	20.80	28.10	35.40
8	0	60	4/18/2006	19.70	28.00	31.20
9	0	60	4/18/2006	22.90	25.00	29.20
10	0	60	4/18/2006	17.70	30.10	37.40
11	0	61	4/18/2006	21.50	30.70	35.80
12	0	60	4/18/2006	20.80	24.00	26.00
13	0	60	4/18/2006	16.60	21.80	27.00
14	0	60	4/18/2006	31.20	39.50	45.70
15	0	60	4/18/2006	19.70	24.90	30.10
16	0	60	4/18/2006	17.70	24.90	32.20
17	0	60	4/18/2006	21.90	28.10	36.50
18	0	60	4/18/2006	24.90	30.10	33.20
19	0	60	4/18/2006	24.90	35.30	39.50
20	0	60	4/18/2006	25.00	30.20	33.30
21	0	60	4/18/2006	27.00	33.20	35.30
22	0	60	4/18/2006	24.00	31.30	38.60
23	0	60	4/18/2006	34.40	41.60	46.80
24	0	60	4/18/2006	21.90	29.20	35.50
25	0	60	4/18/2006	20.80	28.10	33.20
26	0	60	4/18/2006	20.80	29.10	34.30
27	0	60	4/18/2006	21.90	24.00	32.30
28	0	60	4/18/2006	18.80	25.00	26.00
29	0	60	4/18/2006	22.90	29.10	34.30
30	0	60	4/18/2006	17.70	21.80	27.00
31	0	60	4/18/2006	23.90	35.40	39.50
32	0	60	4/18/2006	23.90	30.10	34.30

## P88AS001.DAT

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POS	RACK	CTIME	DATE	CPM1	CPM2	CPMW1
33	0	60	4/18/2006	28.00	32.20	38.40
34	0	60	4/18/2006	29.10	31.20	34.30
35	0	60	4/18/2006	29.10	36.30	40.50
36	0	60	4/18/2006	19.80	23.90	30.20
37	0	60	4/18/2006	25.00	39.60	43.80
38	0	60	4/18/2006	27.00	30.10	36.40
39	0	60	4/18/2006	24.00	28.20	33.40
40	0	60	4/18/2006	20.80	27.00	29.10
41	0	60	4/18/2006	16.70	22.90	31.30
42	0	60	4/18/2006	28.10	34.30	38.50
43	0	60	4/18/2006	18.70	21.80	24.90
44	0	60	4/18/2006	20.80	24.90	29.10
45	0	60	4/18/2006	18.70	24.90	32.20
46	0	61	4/18/2006	18.50	24.60	33.80
47	0	60	4/18/2006	18.70	26.00	31.20
48	0	60	4/18/2006	16.60	23.90	32.20
49	0	60	4/18/2006	26.00	38.40	46.70
50	0	60	4/18/2006	14.60	19.80	28.10
51	0	60	4/18/2006	17.70	27.00	29.10
52	0	60	4/18/2006	18.70	22.90	32.20
53	0	60	4/18/2006	24.90	30.10	34.30
54	0	60	4/18/2006	19.70	23.90	26.00
55	0	60	4/18/2006	22.90	29.10	34.30
56	0	60	4/18/2006	19.70	29.10	33.20
57	0	60	4/18/2006	16.70	22.90	28.10
58	0	60	4/18/2006	17.70	22.80	28.00
59	0	60	4/18/2006	19.70	23.90	27.00
60	0	60	4/18/2006	27.00	33.30	33.30
61	0	60	4/18/2006	8.30	13.50	16.60
62	0	60	4/18/2006	22.90	28.10	36.50
63	0	60	4/18/2006	16.60	23.90	29.10

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## P88AS001.DAT

POS	RACK	CTIME	DATE	CPM1	CPM2	CPMW1
64	0	60	4/18/2006	18.80	25.00	28.10
65	0	60	4/18/2006	34.30	40.50	43.60
66	0	60	4/18/2006	28.10	32.20	33.30
67	0	60	4/18/2006	26.00	33.30	39.50
68	0	60	4/18/2006	27.00	38.50	41.60
69	0	60	4/18/2006	22.80	27.00	33.20
70	0	60	4/18/2006	21.80	26.00	31.20
71	0	61	4/18/2006	23.60	30.80	36.90
72	0	60	4/18/2006	14.50	21.80	30.10
73	0	60	4/18/2006	12.50	19.80	25.00
74	0	60	4/18/2006	26.00	32.20	38.50
75	0	60	4/18/2006	23.90	29.10	30.20
76	0	60	4/18/2006	22.90	29.10	34.30
77	0	60	4/18/2006	19.70	27.00	36.30
78	0	60	4/18/2006	20.80	30.10	30.10
79	0	60	4/18/2006	20.80	30.10	33.20
80	0	60	4/18/2006	21.80	24.90	30.10
81	0	60	4/18/2006	17.70	25.00	29.20
82	0	60	4/18/2006	16.60	22.90	28.10
83	0	60	4/18/2006	15.60	22.90	29.20
84	0	60	4/18/2006	12.50	24.00	27.10
85	0	60	4/18/2006	24.90	28.00	31.20
86	0	60	4/18/2006	22.90	28.10	32.20
87	0	60	4/18/2006	16.60	23.90	28.10
88	0	60	4/18/2006	15.60	23.90	34.30
89	0	60	4/18/2006	19.70	31.20	32.20
90	0	60	4/18/2006	23.90	31.20	38.50
91	0	60	4/18/2006	18.70	29.20	34.40
92	0	60	4/18/2006	28.10	35.30	40.50
93	0	60	4/18/2006	18.70	26.00	30.10
94	0	60	4/18/2006	11.40	15.60	20.80

## P88AS001.DAT

POS	RACK	CTIME	DATE	CPM1	CPM2	CPMW1
95	0	60	4/18/2006	20.80	32.20	38.40
96	0	60	4/18/2006	21.80	29.10	36.40
97	0	60	4/18/2006	22.80	32.20	35.30
98	0	60	4/18/2006	21.80	30.10	37.40
99	0	60	4/18/2006	29.10	39.50	47.80
100	0	60	4/18/2006	18.70	27.00	32.20
101	0	60	4/18/2006	17.70	19.70	24.90
102	0	60	4/18/2006	23.90	30.10	32.20
103	0	60	4/18/2006	21.90	25.00	26.00
104	0	60	4/18/2006	17.70	22.90	26.00
105	0	60	4/18/2006	12.50	22.90	27.10
106	0	60	4/18/2006	26.00	35.30	39.50
107	0	60	4/18/2006	23.90	29.10	33.20
108	0	60	4/18/2006	20.80	22.90	29.10
109	0	60	4/18/2006	22.90	30.20	36.50
110	0	60	4/18/2006	15.60	28.10	31.30
111	0	60	4/18/2006	15.60	19.70	31.10
112	0	60	4/18/2006	21.80	30.10	38.50
113	0	60	4/18/2006	14.60	22.90	24.00
114	0	60	4/18/2006	30.10	38.50	47.80
115	0	60	4/18/2006	24.90	29.10	33.20
116	0	60	4/18/2006	21.80	27.00	32.20
117	0	60	4/18/2006	17.70	19.70	23.90
118	0	60	4/18/2006	24.90	34.30	40.50
119	0	60	4/18/2006	15.60	22.80	26.00
120	0	60	4/18/2006	21.80	22.90	31.20
121	0	60	4/18/2006	19.70	28.10	32.20
122	0	60	4/18/2006	23.90	37.40	41.60
123	0	60	4/18/2006	20.80	27.00	30.20
124	0	60	4/18/2006	32.30	37.50	41.70
125	0	60	4/18/2006	26.00	33.20	40.50



## P88AS001.DAT

POS	RACK	CTIME	DATE	CPM1	CPM2	CPMW1
126	0	60	4/18/2006	21.80	29.10	30.10
127	0	60	4/18/2006	36.40	44.70	50.90
128	0	60	4/18/2006	19.70	26.00	32.20
129	0	60	4/18/2006	20.80	32.30	37.50
130	0	60	4/18/2006	16.60	29.10	33.30
131	0	60	4/18/2006	19.80	24.00	32.30
132	0	60	4/18/2006	27.00	29.10	34.30
133	0	60	4/18/2006	25.00	32.30	40.60
134	0	60	4/18/2006	23.90	35.40	37.40
135	0	60	4/18/2006	21.80	29.10	33.30
136	0	60	4/18/2006	26.00	33.20	37.40
137	0	60	4/18/2006	15.60	23.90	28.10
138	0	60	4/18/2006	28.00	34.30	42.60
139	0	60	4/18/2006	28.10	33.30	38.60
140	0	60	4/18/2006	20.80	27.00	34.30
141	0	60	4/18/2006	17.70	23.90	33.30
142	0	60	4/18/2006	20.80	27.00	34.30
143	0	60	4/18/2006	20.80	27.00	32.20
144	0	60	4/18/2006	13.50	19.70	23.90
145	0	60	4/18/2006	13.50	28.10	32.30
146	0	60	4/18/2006	24.90	26.00	30.10
147	0	60	4/18/2006	30.10	39.50	43.60
148	0	60	4/18/2006	20.80	31.20	36.50
149	0	60	4/18/2006	20.80	29.20	37.50
150	0	60	4/18/2006	15.60	21.80	24.90
151	0	60	4/18/2006	22.80	24.90	28.00
152	0	60	4/18/2006	19.70	23.90	28.00
153	0	60	4/18/2006	21.80	29.10	32.20
154	0	60	4/18/2006	25.00	32.30	41.70
155	0	60	4/18/2006	19.80	27.10	34.40
156	0	60	4/18/2006	21.80	30.10	39.50

## P88AS001.DAT

POS	RACK	CTIME	DATE	CPM1	CPM2	CPMW1
157	0	60	4/18/2006	34.30	39.50	40.50
158	0	60	4/18/2006	17.70	24.00	29.20
159	0	60	4/18/2006	15.60	27.00	27.00
160	0	60	4/18/2006	22.90	29.10	35.40
161	0	60	4/18/2006	24.00	29.20	32.30
162	0	60	4/18/2006	15.60	19.80	21.80
163	0	60	4/18/2006	16.60	26.00	32.20
164	0	60	4/18/2006	18.80	25.00	28.10
165	0	60	4/18/2006	23.90	32.20	37.40
166	0	60	4/18/2006	20.80	30.10	38.40
167	0	60	4/18/2006	28.10	38.50	42.60
168	0	60	4/18/2006	17.70	24.90	29.10
169	0	60	4/18/2006	21.80	29.10	35.30
170	0	60	4/18/2006	23.90	24.90	27.00
171	0	60	4/18/2006	27.00	31.10	35.30
172	0	60	4/18/2006	19.70	27.00	30.10
173	0	60	4/18/2006	19.70	26.00	34.30
174	0	60	4/18/2006	24.90	31.20	33.20
175	0	60	4/18/2006	22.90	32.30	38.50
176	0	60	4/18/2006	21.80	26.00	33.20
177	0	60	4/18/2006	26.00	29.10	35.30
178	0	60	4/18/2006	21.80	26.00	28.10
179	0	60	4/18/2006	24.00	29.20	36.50
180	0	60	4/18/2006	15.60	24.90	30.10
181	0	60	4/18/2006	16.60	22.80	26.00
182	0	60	4/18/2006	26.00	30.10	39.50
183	0	60	4/18/2006	21.80	29.10	33.20
184	0	60	4/18/2006	17.70	24.00	34.40
185	0	60	4/18/2006	14.50	20.80	22.80
186	0	60	4/18/2006	16.60	20.80	26.00
187	0	60	4/18/2006	20.80	28.10	32.20

## P88AS001.DAT

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POS	RACK	CTIME	DATE	CPM1	CPM2	CPMW1
188	0	60	4/18/2006	26.00	34.30	35.30
189	0	60	4/18/2006	21.80	28.00	34.30
190	0	60	4/18/2006	12.50	19.70	20.80
191	0	60	4/18/2006	21.90	29.20	36.50
192	0	60	4/18/2006	22.80	33.20	36.30
193	0	60	4/18/2006	19.70	28.00	32.20
194	0	60	4/18/2006	22.90	31.20	35.30
195	0	60	4/18/2006	17.70	26.00	35.30
196	0	60	4/18/2006	10.40	18.70	23.90
197	0	60	4/18/2006	14.50	19.70	23.90
198	0	60	4/18/2006	13.50	19.80	24.00
199	0	60	4/18/2006	19.70	27.00	34.20
200	0	60	4/18/2006	21.90	25.00	30.20
201	0	60	4/18/2006	17.60	33.20	36.30
202	0	60	4/18/2006	17.70	24.90	31.20
203	0	60	4/18/2006	16.60	21.80	29.10
204	0	60	4/18/2006	18.70	28.00	31.20
205	0	60	4/18/2006	19.70	27.00	31.20
206	0	60	4/18/2006	26.00	30.10	31.20
207	0	60	4/18/2006	24.00	31.30	33.30
208	0	60	4/18/2006	22.80	31.20	36.30
209	0	60	4/18/2006	27.00	33.20	39.50
210	0	60	4/18/2006	18.80	29.20	38.50
211	0	60	4/18/2006	15.60	24.90	27.00
212	0	60	4/18/2006	15.60	19.70	29.10
213	0	60	4/18/2006	26.00	36.40	42.70
214	0	60	4/18/2006	28.10	39.50	44.70
215	0	60	4/18/2006	21.80	28.00	34.30
216	0	60	4/18/2006	19.80	24.00	30.20
217	0	60	4/18/2006	16.60	20.80	21.80
218	0	60	4/18/2006	13.50	19.70	24.90

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