

## Radiological Survey Sheet

Job Location Pfizer Inc. Grafton CT Page 1 of 20

Survey Purpose Decommissioning B211 Date 5/12/00

Performed By DAVID DURICEG   
(Print) (Sign)

Inst.(1) Packard 2500 TR (Model/SN) #405100	Inst.(2) Ludlum 2241-2 (Model/SN) # 137757	Inst.(3) (Model/SN)
Det. Internal (Model/SN)	Det. Ludlum 43-68 (Model/SN) # 140899	Det. (Model/SN)
Eff. H-3 (27% - 47%) C-14/P-32 (78% - 83%)	Eff. <u>~8%</u>	Eff.
Type rad. $\beta$	Type rad. $\beta$	Type rad.
Bkgd. See #1 below LSC printout	Bkgd. <u>300 cpm</u>	Bkgd.
Cal. Due: 12/2000	Cal. Due <u>4/28/01</u>	Cal. due

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments
1.	<u>0600</u>	<u>Door</u>	1	<u>see attached LSC printout</u>	
2.		<u>wall</u>	1		
3.		<u>Desktop</u>	1		
4.		<u>wall</u>	1		
5.		<u>upper wall</u>	1		
6.		<u>lower wall</u>	1		
7.		<u>upper side of head</u>	1		
8.		<u>lower side of head</u>	1		
9.		<u>Front of drawers</u>	1		
10.		<u>Top drawer</u>	1		
11.		<u>drawer</u>	1		
12.		<u>Bottom drawer</u>	1		
13.		<u>Drawer</u>	1		
14.		<u>Front of drawers</u>	1		
15.		<u>Top drawer</u>	1		
16.		<u>Bottom drawer</u>	1		
17.		<u>Floor</u>	1		
18.		<u>Floor</u>	1		

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments	
19		Floor	1	See attached LSC printout		
20		Floor	1			
21		outer (1) Hood	1			
22		outer (2) Hood	1			
23		outer Hood Top	1			
24		(1) Side Hood	1			
25		(2) Side Hood	1			
26		Back upper wall	1			
27		Back Lower wall	1			
28		(1) counter	1		✓	(see # 321)
29		(2) Counter	1			
30		Lip	1			
31		Top of Hood	1			
32		inner sash	1			
33		outer sash	1			
34		outer (1) Cabinet	1			
35		inner (1) cabinet	1			
36		outer (2) cabinet	1			
37		inner outer (2) cabinet	1			
38		FLOOR	1			
39		Upper wall	1			
40		Lower wall	1			
41		Chair	1			
42		WALL UNIT	1			
43		TOP shelf	1			
44		shelf	1			
45		shelf	1			
46		Bottom shelf	1			

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments
47		WALL UNIT	1	see attached LSC printout	
48		Top Shelf	1		
49		Shelf	1		
50		Shelf	1		
51		Bottom shelf	1		
52		Shelf	1		
53		WALL	1		
54		Chair	1		
55		Shelf	1		
56		desktop	1		
57		Front of drawers	1		
58		Top drawer	1		
59		drawer	1		
60		Bottom drawer	1		
61		drawer	1		
62		Chair	1		
63		Top Shelf	1		
64		<del>Count</del> Cup Sink	1		
65		Counter	1		
66		Top Shelf	1		
67		Cup Sink	1		
68		Counter	1		
69		Counter	1		
70		Cabinet End	1		
71		FLOOR	1		
72		FLOOR Mat	1		
73		FLOOR	1		
74	↓	Outside Detectors	1	↓	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments	
75		Top Drawer	1	See attached LSC printout		
76		Drawer	1			
77		"	1			
78		Bottom Drawer	1			
79		outer Drawers	1			
80		Top Drawer	1			
81		Drawer	1			
82		"	1			
83		Bottom Drawer	1			
84		Drawer	1			
85		outer Drawers	1			
86		Top Drawer	1			
87		Drawer	1			
88		"	1			
89		Bottom Drawer	1			
90		outer Drawer	1			
91		Top Drawer	1			
92		Drawer	1			
93		"	1			
94		Bottom Drawer	1			
95		Wall	1			
96		wall unit	1			
97		Top Shelf	1			
98		shelf	1			
99		shelf	1			
100		Bottom shelf	1			
101		wall Unit	1			
102	✓	Top Shelf	1		✓	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments
103		Shelf	1	See attached	Use printout
104		Shelf	1		
105		Bottom shelf	1		
106		Counter	1		
107		Counter	1		
108		Counter	1		
109		Cup Sink	1		
110		Wall	1		
111		Outer Drawers	1		
112		Top Drawers	1		
113		Drawer	1		
114		"	1		
115		Bottom Drawer	1		
116		Drawer	1		
117		Outer Drawer	1		
118		Top Drawer	1		
119		Drawer	1		
120		"	1		
121		Bottom Drawer	1		
122		Faucet	1		
123		Sink	1		
124		Sink Drain	1		
125		ⓐ Cabinet Door	1		
126		ⓑ Cabinet Door	1		
127		inner Cabinet	1		
128		Floor	1		
129		FLOOR	1		
130	↓	Floor	1		

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments
131		Floor	1	See attached USC printout	
132		"	1		
133		Floor	1		
134		Counter	1		
135		"	1		
136		Counter	1		
137		Outer Drawer	1		
138		Drawer	1		
139		Top shelf Cabinet	1		
140		shelf	1		
141		Drawer	1		
142		Outer Drawers	1		
143		Top Drawers	1		
144		Drawer	1		
145		Drawer	1		
146		Bottom Drawer	1		
147		Drawer	1		
148		Outer Drawers	1		
149		Top Drawer	1		
150		Drawer	1		
151		Drawer	1		
152		Bottom Drawer	1		
153		shelf	1		
154		Desk Top	1		
155		Chair	1		
156		Drawer	1		
157		Outer Drawers	1		
158		Top Drawer	1		

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments
159		Drawer	1	see attached	see printout
160		Bottom Drawer	1		
161		Shelf	1		
162		Wall	1		
163		Wall Unit	1		
164		Top Shelf	1		
165		Shelf	1		
166		Shelf	1		
167		Bottom Shelf	1		
168		Wall Unit	1		
169		Top Shelf	1		
170		Shelf	1		
171		"	1		
172		Bottom Shelf	1		
173		Wall Unit	1		
174		Top Shelf	1		
175		Shelf	1		
176		"	1		
177		Bottom Shelf	1		
178		Shelf	1		
179		Desk Top	1		
180		Outer Drawer	1		
181		Top Drawer	1		
182		Drawer	1		
183		Drawer	1		
184		Drawer	1		
185		Shelf	1		
186	↓	Shelf	1		↓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments
187		Cup Sink	1	See attached USC printout	
188		Cup Sink	1		
189		Counter	1		
190		Counter	1		
191		"	1		
192		Counter End	1		
193		Outer Drawers	1		
194		Top Drawers	1		
195		Drawer	1		
196		"	1		
197		Bottom Drawer	1		
198		Drawer	1		
199		Outer Drawers	1		
200		Top Shelf <sup>TOP</sup> Drawer	1		
201		Drawer	1		
202		"	1		
203		Bottom Drawer	1		
204		Drawer	1		
205		Outer Drawers	1		
206		Top Drawer	1		
207		Drawer	1		
208		Drawer	1		
209		Bottom Drawer	1		
210		Upper Wall	1		
211		Lower Wall	1		
212		Upper Wall	1		
213		Lower Wall	1		
214	↓	KIT Step	1	↓	



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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
215		Ⓛ Side Refrigerator	1	See attached LSC Printout
216		Ⓡ Side " "	1	
217		Front Refrigerator	1	
218		Freezer	1	
219		Freezer Door Top Shelf	1	
220		" " Shelf	1	
221		Refridge Top Shelf	1	
222		Shelf	1	
223		Shelf	1	
224		Ⓛ Drawer	1	
225		Ⓡ Drawer	1	
226		Egg Holder	1	
227		Dairy Holder	1	
228		Door Shelf	1	
229		Door Shelf	1	
230		Desk	1	
231		Desk	1	
232		Floor	1	
233		Door	1	
234		Chair	1	
235		Wall	1	
236		Wall	1	
237		Floor	1	
238		Floor	1	
239		Top of Shelves	1	
240		Top Shelf	1	
241		Shelf	1	
242		Shelf	1	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments
243		Bottom Shelf	1		see attached USC printout
244		Floor	1		
245		Door	1		
246		Desk	1		
247		Desk Shelves	1		
248		Wall Unit	1		
249		Chair	1		
250		Chair	1		
251		<del>Wall</del> Floor	1		
252		<del>Door</del> Floor	1		
253		<del>Floor</del> Wall	1		
254		<del>Wall</del> Unit Door	1		
255		<del>Computer</del> Cart Floor	1		
256		<del>Desk</del> Wall Unit	1		
257		Window Sill <del>Computer</del> Cart	1		
258		Desk	1		
259		Window Sill	1		
260		Chair	1		
261		Chair	1		
262		Floor	1		
263		Floor	1		
264		Outer Cabinet	1		
265		Top Drawer	1		
266		Drawer	1		
267		"	1		
268		Bottom Drawer	1		
269		Top of Shelves	1		
270		Top Shelf	1		

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments
271		Shelf	1	See attached USC printout	
272		Shelf	1		
273		Bottom Shelf	1		
274		Wall Unit	1		
275		Top Shelf	1		
276		Shelf	1		
277		"	1		
278		Bottom Shelf	1		
279		Chair	1		
280		Shelf	1		
281		Desk	1		
282		Drawer	1		
283		outer Drawers	1		
284		Top Drawer	1		
285		Drawer	1		
286		Bottom Drawer	1		
287		Counter	1		
288		"	1		
289		Counter	1		
290		outer Drawers	1		
291		Top Drawer	1		
292		Drawer	1		
293		"	1		
294		Bottom Drawer	1		
295		Drawer	1		
296		outer Drawers	1		
297		Top Drawer	1		
298		Drawer	1		

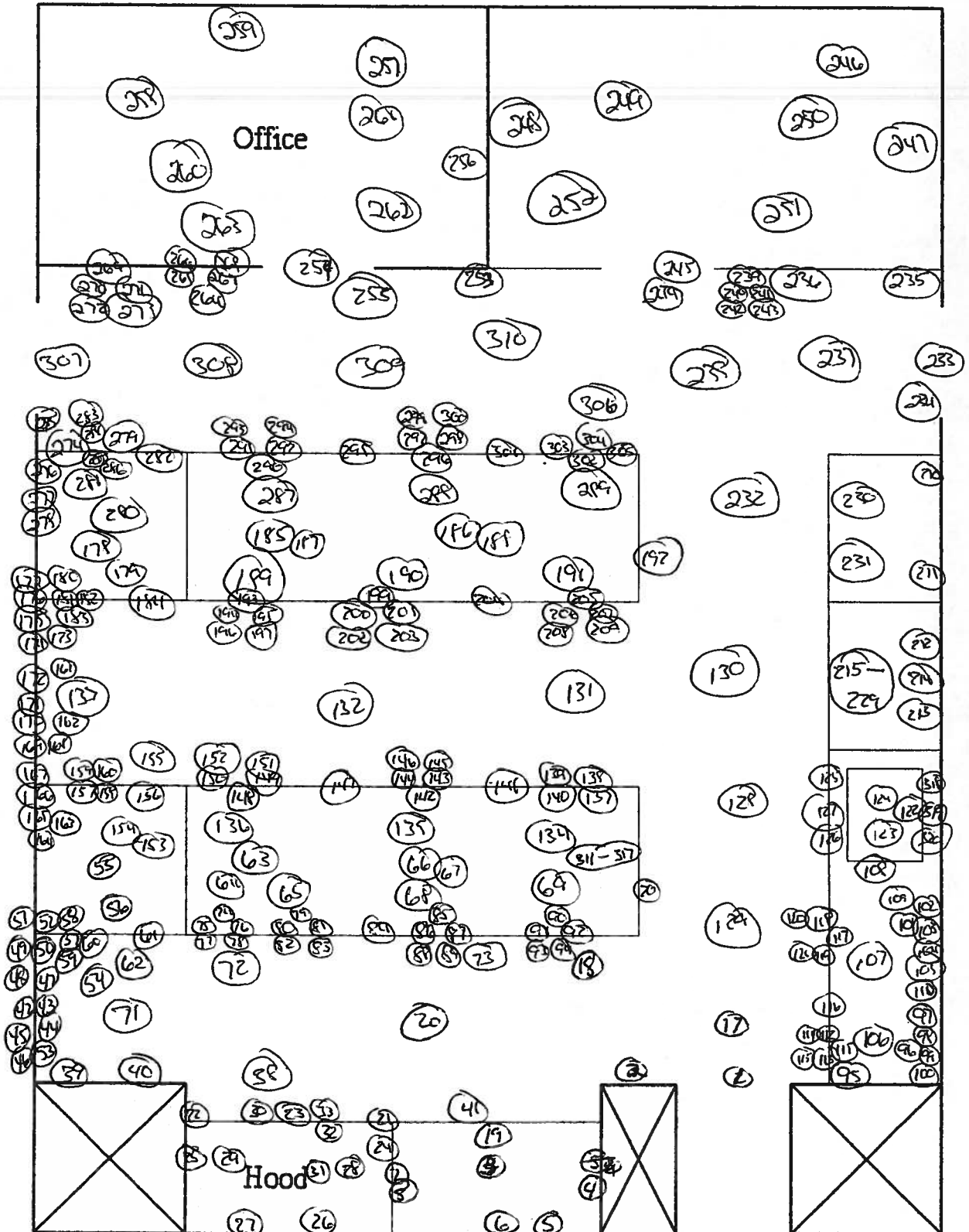
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Date 5/14/00

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )	Comments
299		Drawer	1	✓ See attached	LSC printout (see # 322)
300		Bottom	1		
301		<del>Bottom</del> Drawer	1		
302		Outer Cabinet	1		
303		Drawer	1		
304		Top Shelf cabinet	1		
305		shelf	1		
306		Floor	1		
307		"	1		
308		"	1		
309		Floor	1		
310		Floor	1		
311		metal Rack (Big)	1		
312		" " (Little)	1		
313		Green Rack	1		
314		Pan lid	1		
315		Pan	1		
316		holder	1		
317		utensils	1		
318		shelf Top	1		
319		shelf	1		
320		shelf	1		
321		Post Decan #28	1		✓
322	✓	Post Decan #299	1		
			1		
			1		
			1		
			1		

O = WIPF LOCATION



Surveyed 100% of lower surfaces using inst. #2. All surfaces surveyed were noted to be at normal background levels.

ID: EQUIPMENT SURVY  
USER: 3 COMMENT:

12 MAY 2000 06:05

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 ADC : 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: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 2.756 High: 314.54

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
B1	67.8	28.00	8.00	54.00	48.44	10.39	4.61
1	71.5	17.00	10.00	36.00	-21.00	2.83	4.65
2	75.7	24.00	9.00	43.00	-6.50	1.43	4.10
3	114.5	18.00	15.00	44.00	-15.10	9.95	8.66
4	73.4	21.00	16.00	52.00	-16.02	10.85	3.54
5	75.8	9.00	12.00	37.00	-36.90	5.63	4.54
6	73.8	16.00	13.00	40.00	-24.09	6.88	4.58
7	83.6	16.00	12.00	35.00	-22.49	5.61	12.39
8	76.6	20.00	6.00	33.00	-12.61	-2.56	6.98
9	72.9	13.00	10.00	34.00	-28.46	2.88	4.64
10	73.9	30.00	12.00	53.00	3.20	5.38	4.35
11	76.2	15.00	10.00	33.00	-24.30	2.88	8.42
12	76.6	18.00	8.00	37.00	-17.47	0.16	4.93
13	78.1	26.00	9.00	56.00	-2.14	1.42	4.83
14	73.7	17.00	7.00	37.00	-19.30	-1.19	6.49
15	78.7	16.00	4.00	29.00	-19.10	-5.20	7.08
16	79.0	16.00	9.00	45.00	-21.55	1.54	7.19
17	85.0	16.00	10.00	36.00	-21.29	2.92	7.00
18	80.4	24.00	9.00	48.00	-5.60	1.45	4.77
19	85.2	18.00	7.00	30.00	-15.70	-1.15	8.19
20	78.7	17.00	8.00	35.00	-19.14	0.18	4.42
21	81.2	15.00	8.00	33.00	-22.75	0.21	9.20
22	75.7	21.00	11.00	50.00	-13.26	4.15	7.75
23	79.2	16.00	10.00	36.00	-22.02	2.88	18.54
24	79.6	23.00	8.00	45.00	-7.23	0.11	9.63
25	80.2	26.00	8.00	46.00	-1.19	0.08	8.93
26	80.5	12.00	10.00	32.00	-29.75	2.94	21.30
27	89.0	13.00	9.00	35.00	-26.42	1.63	17.31
28	92.4	387.00	15.00	413.00	753.65	5.10	2.14
29	83.9	17.00	7.00	34.00	-17.90	-1.15	17.71
30	78.7	21.00	9.00	40.00	-11.79	1.48	17.72
31	77.1	28.00	5.00	44.00	3.50	-3.99	17.40
32	79.6	23.00	10.00	45.00	-8.21	2.81	8.71
33	78.1	21.00	11.00	39.00	-12.88	4.17	13.41
34	80.5	23.00	12.00	47.00	-9.04	5.51	23.25
35	82.1	23.00	15.00	52.00	-10.27	9.56	8.99
36	82.6	17.00	7.00	37.00	-18.09	-1.15	9.73
37	94.4	21.00	9.00	42.00	-8.92	1.56	17.83
38	81.1	8.00	14.00	37.00	-39.63	8.38	11.53

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
39	76.3	18.00	9.00	37.00	-18.00	1.50	15.37
40	79.5	18.00	7.00	42.00	-16.56	-1.18	8.11
41	75.7	20.00	15.00	41.00	-17.14	9.54	12.68
42	83.9	27.00	11.00	52.00	0.13	4.13	11.85
43	84.2	15.00	6.00	39.00	-21.37	-2.47	8.64
44	81.5	15.00	11.00	37.00	-24.22	4.26	9.93
45	77.0	21.00	11.00	46.00	-13.07	4.16	13.67
46	80.7	14.00	11.00	37.00	-26.29	4.27	15.09
47	84.9	23.00	7.00	46.00	-5.66	-1.22	8.38
48	83.5	9.00	10.00	34.00	-35.50	3.00	7.50
49	79.9	25.00	9.00	50.00	-3.73	1.44	5.63
50	81.3	17.00	6.00	34.00	-17.78	-2.51	9.57
51	92.4	15.00	11.00	33.00	-22.93	4.34	15.36
52	83.4	22.00	13.00	50.00	-11.02	6.89	8.91
53	78.4	20.00	8.00	36.00	-13.31	0.14	10.87
54	80.6	25.00	12.00	55.00	-5.07	5.48	7.21
55	89.1	18.00	18.00	50.00	-20.85	13.75	12.04
56	87.4	17.00	11.00	35.00	-19.47	4.28	18.23
57	85.0	14.00	10.00	34.00	-25.34	2.95	5.75
58	85.5	10.00	14.00	34.00	-35.42	8.40	10.81
59	81.5	21.00	9.00	38.00	-11.33	1.49	14.44
60	80.0	23.00	8.00	43.00	-7.14	0.11	12.79
61	83.2	18.00	5.00	32.00	-14.99	-3.86	11.99
62	79.3	21.00	9.00	40.00	-11.69	1.48	10.41
63	94.3	16.00	4.00	26.00	-16.79	-5.16	26.40
64	87.1	31.00	8.00	49.00	10.57	0.05	12.06
65	82.0	15.00	9.00	35.00	-23.16	1.57	18.95
66	100.8	17.00	9.00	41.00	-16.33	1.65	25.81
67	83.8	25.00	2.00	33.00	0.66	-7.99	17.09
68	105.0	37.00	11.00	58.00	28.06	4.13	27.23
69	87.1	15.00	9.00	33.00	-22.55	1.60	4.21
70	81.2	25.00	9.00	44.00	-3.44	1.44	12.22
71	81.3	21.00	6.00	33.00	-9.84	-2.55	13.01
72	84.7	20.00	8.00	36.00	-12.26	0.17	12.01
73	87.1	19.00	8.00	38.00	-13.88	0.19	18.19
74	85.9	16.00	7.00	31.00	-19.63	-1.13	4.79
75	86.6	19.00	15.00	47.00	-17.58	9.66	10.41
76	80.5	25.00	10.00	46.00	-4.09	2.79	11.23
77	79.4	21.00	6.00	33.00	-10.19	-2.56	12.59
78	80.1	22.00	6.00	46.00	-8.09	-2.57	9.04
79	79.2	27.00	8.00	53.00	0.54	0.06	7.69
80	77.1	25.00	14.00	48.00	-6.75	8.15	6.16
81	81.3	26.00	9.00	44.00	-1.45	1.43	13.52
82	84.2	36.00	14.00	64.00	16.75	8.08	12.49
83	94.7	15.00	9.00	34.00	-21.56	1.64	11.32
84	83.3	20.00	8.00	40.00	-12.49	0.16	8.50
85	83.5	20.00	4.00	40.00	-10.42	-5.23	7.63
86	83.1	23.00	13.00	47.00	-9.07	6.87	9.45
87	82.9	16.00	7.00	29.00	-20.04	-1.14	21.04
88	85.3	20.00	7.00	42.00	-11.63	-1.18	12.27
89	91.8	4.00	9.00	30.00	-44.90	1.76	27.30
90	80.9	19.00	8.00	39.00	-14.88	0.16	7.89
91	84.3	15.00	13.00	40.00	-24.94	6.98	8.98
92	84.6	11.00	10.00	35.00	-31.42	2.98	17.01
93	84.5	17.00	15.00	44.00	-21.91	9.66	14.56
94	91.3	23.00	8.00	43.00	-4.82	0.16	15.11
95	79.2	10.00	13.00	32.00	-35.28	7.00	15.07
96	80.3	12.00	15.00	43.00	-32.27	9.68	7.66

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
97	84.3	27.00	5.00	40.00	3.27	-3.97	14.54
98	87.5	6.00	7.00	21.00	-39.83	-1.00	18.82
99	84.3	21.00	12.00	46.00	-12.36	5.56	11.20
100	90.6	9.00	11.00	28.00	-35.60	4.40	13.88
101	85.0	20.00	11.00	50.00	-13.75	4.22	9.75
102	91.7	13.00	6.00	29.00	-24.53	-2.42	3.81
103	84.5	18.00	10.00	30.00	-17.34	2.89	12.15
104	85.5	21.00	7.00	36.00	-9.59	-1.19	14.48
105	92.3	19.00	11.00	43.00	-14.59	4.29	17.56
106	107.3	9.00	9.00	33.00	-33.32	1.79	20.90
107	90.8	19.00	13.00	42.00	-15.89	6.99	7.04
108	84.0	25.00	12.00	47.00	-4.39	5.51	11.79
109	84.5	14.00	5.00	29.00	-22.83	-3.81	10.69
110	83.1	22.00	11.00	42.00	-10.06	4.19	5.43
111	90.8	24.00	10.00	44.00	-3.92	2.86	5.30
112	85.1	9.00	6.00	29.00	-33.35	-2.40	6.16
113	87.5	25.00	16.00	48.00	-5.73	10.94	6.87
114	85.0	25.00	15.00	51.00	-5.71	9.57	4.75
115	92.3	17.00	7.00	43.00	-16.62	-1.11	9.49
116	104.1	20.00	5.00	46.00	-6.75	-3.84	13.97
117	86.7	25.00	11.00	49.00	-3.30	4.18	4.32
118	82.9	20.00	10.00	40.00	-13.58	2.86	8.02
119	84.1	20.00	13.00	47.00	-14.92	6.92	6.53
120	89.9	18.00	7.00	33.00	-14.93	-1.13	7.01
121	88.0	15.00	8.00	36.00	-21.91	0.25	9.56
122	79.0	19.00	12.00	50.00	-17.15	5.54	5.52
123	93.1	15.00	16.00	41.00	-25.55	11.13	23.25
124	96.6	8.00	13.00	36.00	-38.47	7.18	10.73
125	79.9	16.00	10.00	39.00	-21.93	2.89	6.92
126	82.6	21.00	5.00	37.00	-9.10	-3.90	7.53
127	102.3	9.00	11.00	38.00	-34.85	4.49	25.19
128	81.1	15.00	10.00	34.00	-23.77	2.91	6.78
129	81.5	16.00	12.00	38.00	-22.74	5.60	6.89
130	83.5	15.00	13.00	37.00	-25.02	6.97	5.79
131	81.6	14.00	9.00	31.00	-25.19	1.58	8.99
132	87.9	12.00	9.00	35.00	-28.59	1.64	4.33
133	95.0	23.00	9.00	43.00	-4.54	1.54	2.98
134	84.9	19.00	11.00	41.00	-15.78	4.24	8.49
135	82.8	24.00	12.00	43.00	-6.62	5.51	7.82
136	87.0	25.00	13.00	44.00	-4.27	6.88	4.71
137	81.9	22.00	10.00	40.00	-9.77	2.83	4.67
138	90.2	11.00	14.00	30.00	-33.08	8.44	7.60
139	80.6	24.00	9.00	43.00	-5.54	1.45	3.22
140	84.9	7.00	7.00	20.00	-37.92	-1.02	16.93
141	89.4	26.00	12.00	50.00	-1.15	5.54	6.63
142	79.8	19.00	5.00	31.00	-13.55	-3.88	6.65
143	85.4	14.00	13.00	37.00	-26.83	7.00	7.27
144	85.1	17.00	6.00	36.00	-17.22	-2.49	8.29
145	87.7	14.00	7.00	37.00	-23.47	-1.09	6.76
146	88.0	17.00	9.00	37.00	-18.34	1.58	14.24
147	88.3	15.00	13.00	46.00	-24.49	7.01	3.17
148	77.8	17.00	11.00	38.00	-20.72	4.21	7.01
149	80.0	17.00	14.00	39.00	-21.95	8.27	7.30
150	80.1	23.00	8.00	36.00	-7.13	0.11	5.96
151	87.4	19.00	5.00	39.00	-12.27	-3.86	11.57
152	83.1	20.00	14.00	46.00	-15.57	8.26	7.21
153	99.4	15.00	9.00	36.00	-20.91	1.67	11.06
154	84.4	22.00	12.00	44.00	-10.34	5.55	5.11



SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
155	83.7	22.00	6.00	45.00	-7.41	-2.56	4.21
156	82.1	11.00	10.00	31.00	-31.61	2.96	8.06
157	82.8	23.00	8.00	53.00	-6.60	0.13	2.93
158	82.9	19.00	11.00	43.00	-16.08	4.22	6.86
159	87.9	16.00	4.00	28.00	-17.78	-5.18	10.38
160	85.6	15.00	17.00	42.00	-26.85	12.40	6.87
161	129.8	19.00	15.00	41.00	-9.26	10.10	12.94
162	85.9	13.00	14.00	35.00	-29.32	8.37	10.64
163	84.8	29.00	7.00	48.00	6.41	-1.29	11.01
164	90.4	25.00	12.00	48.00	-3.01	5.55	3.32
165	86.7	20.00	13.00	49.00	-14.50	6.94	7.82
166	85.5	25.00	14.00	55.00	-5.09	8.22	5.97
167	97.4	21.00	7.00	41.00	-7.18	-1.14	15.40
168	81.3	27.00	7.00	50.00	1.54	-1.28	4.05
169	86.4	18.00	13.00	41.00	-18.61	6.96	8.15
170	85.7	20.00	10.00	41.00	-13.11	2.88	5.03
171	82.1	22.00	9.00	43.00	-9.23	1.48	5.15
172	87.2	15.00	7.00	35.00	-21.50	-1.11	7.54
173	87.4	8.00	16.00	32.00	-40.44	11.15	11.17
174	86.9	22.00	6.00	41.00	-6.77	-2.55	8.47
175	84.2	11.00	12.00	34.00	-32.47	5.68	5.49
176	87.7	11.00	12.00	39.00	-32.21	5.71	7.75
177	92.0	12.00	9.00	30.00	-28.19	1.66	6.84
178	94.1	25.00	8.00	48.00	0.01	0.15	12.95
179	91.0	18.00	11.00	47.00	-16.87	4.29	6.27
180	87.0	18.00	9.00	31.00	-16.45	1.56	26.75
181	96.4	11.00	12.00	37.00	-31.52	5.78	7.14
182	90.9	19.00	14.00	39.00	-16.41	8.34	9.11
183	89.0	10.00	9.00	29.00	-32.59	1.67	20.24
184	94.3	29.00	16.00	60.00	4.17	10.96	5.39
185	94.3	17.00	10.00	36.00	-17.93	2.97	5.41
186	98.4	18.00	12.00	38.00	-16.24	5.70	9.96
187	111.9	17.00	13.00	48.00	-16.72	7.20	15.64
188	91.3	16.00	13.00	40.00	-22.06	7.03	16.99
189	100.3	13.00	6.00	31.00	-23.45	-2.39	17.95
190	119.9	10.00	12.00	32.00	-31.67	6.00	31.70
191	85.2	22.00	8.00	39.00	-8.14	0.15	10.46
192	89.5	20.00	12.00	38.00	-13.51	5.61	5.97
193	85.2	20.00	13.00	43.00	-14.74	6.93	4.41
194	83.5	22.00	10.00	47.00	-9.47	2.84	10.15
195	93.3	22.00	12.00	49.00	-8.65	5.61	3.30
196	95.1	20.00	9.00	48.00	-10.89	1.58	4.39
197	96.9	17.00	14.00	42.00	-19.72	8.42	8.42
198	94.0	12.00	11.00	32.00	-29.07	4.39	5.36
199	84.6	13.00	12.00	32.00	-28.41	5.66	8.74
200	89.4	12.00	12.00	29.00	-30.02	5.71	11.69
201	87.9	15.00	7.00	31.00	-21.41	-1.11	6.41
202	80.8	7.00	5.00	31.00	-37.11	-3.74	9.56
203	87.4	16.00	10.00	32.00	-20.99	2.94	11.35
204	81.8	19.00	6.00	40.00	-13.72	-2.53	5.05
205	85.2	12.00	13.00	33.00	-30.89	7.02	13.09
206	82.4	15.00	12.00	38.00	-24.63	5.62	7.18
207	87.4	15.00	11.00	32.00	-23.55	4.30	14.40
208	82.1	22.00	5.00	37.00	-7.21	-3.91	5.22
209	83.9	22.00	8.00	41.00	-8.38	0.14	5.76
210	77.9	18.00	8.00	38.00	-17.29	0.16	5.12
211	82.6	16.00	8.00	36.00	-20.59	0.21	8.90
212	78.4	18.00	6.00	34.00	-16.23	-2.53	8.62

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
213	82.7	18.00	10.00	38.00	-17.60	2.88	5.75
214	85.0	22.00	5.00	40.00	-6.63	-3.90	6.69
215	79.4	20.00	11.00	44.00	-14.63	4.19	7.34
216	79.2	16.00	9.00	38.00	-21.52	1.54	8.01
217	79.3	18.00	12.00	43.00	-19.07	5.56	6.13
218	76.7	30.00	3.00	48.00	8.27	-6.71	3.44
219	80.5	19.00	8.00	40.00	-14.94	0.16	4.27
220	77.5	10.00	11.00	30.00	-34.38	4.29	5.28
221	77.4	15.00	5.00	27.00	-21.72	-3.84	4.47
222	77.1	10.00	14.00	34.00	-35.88	8.32	4.16
223	80.1	26.00	11.00	50.00	-2.70	4.12	6.78
224	76.4	21.00	10.00	38.00	-12.66	2.81	5.37
225	76.0	18.00	9.00	33.00	-18.04	1.50	4.67
226	80.2	17.00	8.00	32.00	-18.92	0.19	6.62
227	83.4	15.00	6.00	33.00	-21.47	-2.47	7.37
228	82.9	20.00	9.00	42.00	-13.07	1.51	5.00
229	84.1	18.00	7.00	35.00	-15.86	-1.16	2.99
230	95.3	22.00	18.00	53.00	-11.50	13.78	8.76
231	92.0	12.00	7.00	25.00	-27.12	-1.05	13.38
232	87.2	11.00	10.00	29.00	-31.21	3.00	5.13
233	76.8	21.00	5.00	38.00	-10.16	-3.91	3.36
234	81.4	18.00	8.00	40.00	-16.78	0.18	3.92
235	77.3	15.00	16.00	46.00	-27.13	10.96	4.59
236	82.7	19.00	7.00	42.00	-14.08	-1.18	5.44
237	83.9	26.00	5.00	41.00	1.17	-3.95	4.98
238	85.1	23.00	6.00	45.00	-5.11	-2.57	4.44
239	86.4	14.00	10.00	33.00	-25.18	2.96	10.07
240	79.7	15.00	11.00	38.00	-24.42	4.25	4.12
241	86.7	20.00	9.00	41.00	-12.43	1.53	4.90
242	85.4	18.00	15.00	47.00	-19.78	9.66	11.59
243	81.3	16.00	8.00	30.00	-20.76	0.20	6.18
244	92.2	12.00	10.00	32.00	-28.70	3.02	8.62
245	79.2	24.00	9.00	47.00	-5.84	1.44	4.59
246	77.9	14.00	7.00	32.00	-24.59	-1.14	6.41
247	80.1	20.00	14.00	48.00	-16.02	8.23	4.53
248	82.7	12.00	16.00	38.00	-32.61	11.05	5.27
249	79.4	16.00	16.00	44.00	-24.98	10.97	4.92
250	80.2	18.00	12.00	38.00	-18.95	5.56	6.29
251	86.7	15.00	5.00	28.00	-20.52	-3.82	6.85
252	93.5	15.00	4.00	30.00	-19.02	-5.15	4.37
253	78.9	14.00	10.00	36.00	-25.97	2.91	8.98
254	82.5	19.00	8.00	44.00	-14.62	0.17	2.32
255	87.5	16.00	6.00	35.00	-18.89	-2.47	2.38
256	80.0	22.00	6.00	33.00	-8.11	-2.57	7.00
257	80.4	16.00	12.00	39.00	-22.88	5.59	5.68
258	79.3	20.00	19.00	48.00	-18.62	14.96	3.89
259	85.1	14.00	14.00	37.00	-27.37	8.35	7.95
260	82.2	17.00	11.00	39.00	-20.17	4.24	4.62
261	77.1	16.00	9.00	33.00	-21.77	1.53	3.92
262	87.0	19.00	9.00	38.00	-14.42	1.55	5.95
263	102.4	16.00	8.00	33.00	-17.67	0.31	5.90
264	81.2	24.00	11.00	43.00	-6.44	4.15	5.12
265	86.9	24.00	10.00	47.00	-4.76	2.84	2.74
266	84.8	13.00	17.00	41.00	-30.96	12.41	5.17
267	84.6	22.00	6.00	39.00	-7.22	-2.55	6.90
268	85.7	21.00	12.00	42.00	-12.12	5.57	5.21
269	88.7	19.00	9.00	39.00	-14.14	1.56	7.61
270	87.2	12.00	13.00	37.00	-30.73	7.04	7.33

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
271	86.9	25.00	7.00	45.00	-1.18	-1.23	4.81
272	108.4	13.00	7.00	29.00	-22.91	-0.99	15.70
273	100.3	15.00	10.00	35.00	-21.32	3.03	6.61
274	86.2	15.00	15.00	38.00	-25.76	9.70	7.62
275	95.5	11.00	13.00	40.00	-32.14	7.13	8.30
276	86.3	10.00	15.00	35.00	-35.89	9.76	5.46
277	85.4	18.00	8.00	32.00	-16.18	0.20	11.67
278	85.4	16.00	9.00	32.00	-20.73	1.57	8.61
279	79.5	19.00	10.00	41.00	-16.08	2.85	5.43
280	84.1	24.00	13.00	49.00	-6.87	6.87	6.41
281	93.7	13.00	7.00	31.00	-24.83	-1.06	5.29
282	87.1	12.00	8.00	29.00	-28.14	0.28	12.06
283	81.7	12.00	11.00	34.00	-30.16	4.30	6.80
284	85.0	10.00	5.00	32.00	-30.83	-3.76	6.85
285	84.3	11.00	13.00	37.00	-32.97	7.03	8.28
286	81.3	23.00	5.00	43.00	-5.38	-3.93	4.68
287	96.2	8.00	8.00	24.00	-35.74	0.38	6.02
288	97.2	12.00	9.00	33.00	-27.65	1.69	8.36
289	85.2	21.00	8.00	44.00	-10.14	0.16	4.29
290	83.4	18.00	5.00	35.00	-14.96	-3.86	7.13
291	86.1	16.00	12.00	37.00	-22.19	5.63	2.40
292	87.9	25.00	12.00	47.00	-3.55	5.54	3.70
293	83.7	22.00	9.00	49.00	-8.93	1.49	3.51
294	90.2	16.00	9.00	37.00	-20.09	1.60	6.99
295	81.8	10.00	7.00	24.00	-32.11	-1.07	8.73
296	85.6	21.00	5.00	37.00	-8.54	-3.89	9.97
297	85.9	19.00	8.00	42.00	-14.07	0.19	6.38
298	86.8	19.00	8.00	34.00	-13.92	0.19	5.17
299	86.9	104.00	8.00	124.00	159.10	-0.84	3.59
300	86.3	21.00	10.00	39.00	-10.98	2.87	6.69
301	84.6	19.00	8.00	37.00	-14.29	0.18	5.26
302	84.4	15.00	7.00	30.00	-21.85	-1.12	2.14
303	83.8	23.00	9.00	42.00	-6.90	1.48	3.09
304	90.2	13.00	3.00	25.00	-23.12	-6.49	5.83
305	93.8	18.00	12.00	44.00	-16.97	5.67	4.02
306	96.5	15.00	13.00	38.00	-23.51	7.09	3.04
307	85.5	18.00	7.00	32.00	-15.65	-1.15	6.08
308	89.7	22.00	8.00	45.00	-7.23	0.17	2.45
309	86.2	23.00	11.00	44.00	-7.47	4.20	3.24
310	87.8	15.00	9.00	34.00	-22.45	1.60	5.12
311	79.2	18.00	14.00	46.00	-20.07	8.25	6.68
312	86.9	23.00	9.00	43.00	-6.29	1.50	3.78
313	87.6	25.00	8.00	50.00	-1.54	0.12	3.09
314	86.3	24.00	11.00	51.00	-5.41	4.18	3.74
315	85.1	19.00	8.00	35.00	-14.21	0.18	2.40
316	87.6	15.00	8.00	30.00	-21.96	0.25	3.94
317	80.6	17.00	11.00	45.00	-20.37	4.23	3.33
318	90.0	20.00	12.00	48.00	-13.42	5.61	5.82
319	124.7	6.00	8.00	19.00	-38.61	0.57	28.90
320	87.3	10.00	10.00	30.00	-33.24	3.01	8.38

16 MAY 2000 08:29

ID# EQUIPMENT SURVY  
USER: 1 COMMENT:

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 ACC : 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: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 2.756 High: 314.54

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
B1	75.2	18.00	8.00	33.00	30.77	10.54	23.54
321	74.8	19.00	10.00	38.00	0.91	2.67	13.56
322	73.7	24.00	13.00	46.00	8.87	6.64	10.53