DEPARTMENT OF THE ARMY
WOMACK ARMY MEDICAL CENTER
FORT BRAGG, NORTH CAROLINA 28310-5000

14 July 2009

REPLY TO
ATTENTION OF:

Department of Preventive Medicine, Health Physics Service
License No: 32-04054-04
Docket No: 030-02631

9-4

U.S. NRC Region 1
Attention: Licensing Department
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Sir or Madam:

1. Womack Army Medical Center (WAMC) requests to file an addition to amendmend dated 4 May 2009 for its byproduct material license, Control No 143704.

2. Due to not performing research and development as well as animal studies at WAMC under section 9 E.–I. under the material license 32-04054-04, we would like to remove these materials for research and development from the license. To my knowledge, no research and development matierials, P-32, S-35 and I-125, have ever been used since this facility was licensed in July 1998. I know these materials have not been used since I have been the WAMC RSO since May 2007 to present. Only H-3 and C-14 quenched standards were used for calibrating the Liquid Scintillation Counter (LSC), the counter was disposed in 2008 and the standards were placed in the decay-in-storage area. The contents of these standards are exempt from the NRC or Agreement State licensing requirements (Encl 1).

3. We would like to request to delete COL Thomas D. Bresley from the list of authorized users for our license due to him leaving WAMC.

4. We would like to request the removal of rooms B20638 and B20640 from the license. IAW the letter to the NRC dated 24 July 1998, these rooms were requested to be designated as radiation areas. Please note that rooms B20638 and B20640 are no longer occupied by the Radiation Protection Office, see attached closed out surveys (Encl 2).

143704
NMSS/RGN1 MATERIALS-002

MCXC-DPM-RP
SUBJECT: License Amendment dated 14 July 2009, Control No 143704

5. If you have any questions concerning this action please contact the RSO for WAMC at (910) 907-8364 or by e-mail at ioulia.m.melomed@amedd.army.mil

Sincerely,

BRIAN S. BURLINGAME
LTC, MC
Deputy Commander for Clinical Services

Copies Furnished
CDR, WRAMC, ATTN: MCHL-HP, Washington, D.C. 20307-5001

SEALED STANDARDS FOR LIQUID SCINTILLATION COUNTERS

Packard Instrument Company, Inc. manufactures the following types of sealed standards for liquid scintillation counters:

PART #	TYPE	RADIONUCLIDE	VIAL SIZE	VOL	# of VIALS
6008401	Quenched Series	Tritiated Toluene	7 ml	5 ml	10
6008402	Quenched Series	Carbon–14 Toluene	7 ml	5 ml	10
6008411	Unquenched Std.–argon purged	None	7 ml	5 ml	1
6008412	Unquenched Std.–argon purged	Tritiated Toluene	7 ml	5 ml	1
6008413	Unquenched Std.–argon purged	Carbon–14 Toluene	7 ml	5 ml	1
6008501	Quenched Series	Tritiated Toluene	20 ml	15 ml	10
6008502	Quenched Series	Carbon–14 Toluene	20 ml	15 ml	10
6008511	Unquenched Std.–argon purged	None	20 ml	15 ml	1
6008512	Unquenched Std.–argon purged	Tritiated Toluene	20 ml	15 ml	1
6008513	Unquenched Std.–argon purged	Carbon–14 Toluene	20 ml	15 ml	1
6018551	Quenched Series–Ext. Range	Tritiated Toluene	7 ml	5 ml	10
6018552	Quenched Series–Ext. Range	Carbon–14 Toluene	7 ml	5 ml	10
6018594	Quenched Series–Ext. Range	Tritiated Toluene	20 ml	15 ml	10
6018595	Quenched Series–Ext. Range	Carbon–14 Toluene	20 ml	15 ml	10
6018911	Low Level non–purged	Tritiated Toluene	20ml	10 ml	1
6018912	Low Level non–purged	Carbon–14 Toluene	20 ml	10 ml	1
6018913	Low Level non–purged	None	20 ml	10 ml	1
6018917	Low Level Quenched Series	Tritiated Toluene	20 ml	15 ml	10
6018918	Low Level Quenched Series	Carbon–14 Toluene	20 ml	15 ml	10
6007600	U.G. Quenched Series	Tritiated Toluene	20 ml	15 ml	10
6007601	U.G. Quenched Series	Carbon–14 Toluene	20 ml	15 ml	10
6007603	U.G. Quenched Series	Tritiated Toluene	7 ml	5 ml	10
6007604	U.G. Quenched Series	Carbon–14 Toluene	7 ml	5 ml	10

The scintillator solution in these standards contain 4 grams of PPO and 0.25 grams of Dimethyl–POPOP per liter of toluene, except for the Ultima Gold (U.G.) Quenched Series which contains alkylnaphthalene, PPO, and bis–MSB. The solution is flame–sealed in low activity borosilicate glass ampoules. Nitromethane is used as the quenching agent in the quenched standards sets.

Packard
A Packard BioScience Company

Packard Instrument Company, 800 Research Parkway, Meriden, CT 06450 U.S.A.
Tel: 203–238–2351 Toll Free: 1–800–323–1891 TX: 643251 FAX: 203–639–2172

Packard International Offices:

Australia, Mt. Waverley 61–3–543–4266; **Austria**, Vienna 43–1–302504–0; **Belgium**, Brussels 32–2–4668210; **Canada**, Ontario 1–800–387–9559; **Denmark**, Greve 45–42909023; **France**, Rungis (33) 1 46.86.27.75; **Germany**, Frankfurt (49–69) 683010; **Italy**, Milano 39–2–33910796/7/8; **Japan**, Tokyo 81–3–3866–5850; **Netherlands**, Groningen 31–50–413360; Tilburg (013) 423900; **Russia**, Moscow, 7–095–238–7335; **Switzerland**, Zurich (01) 481 69 44; **United Kingdom**, Pangbourne, Berks (44) 0734 844981.

Fig. 1

CALIBRATION OF STANDARDS

Packard's standards for liquid scintillation counters are prepared from stock solutions that are calibrated against National Institute of Standards and Technology (NIST) Reference Materials. The following table provides information regarding the reference materials used:

	Tritium	Carbon–14
NIST Reference Material	Toluene	n–Hexadecane
NIST Reference Number	4947C*	4222C**
NIST Concentration Uncertainty	±1.2%	±0.81%

The uncertainty for Packard Standards relative to the NIST Reference Material is computed as a percentage error (99% confidence level), using the following equation:

$$\text{Uncertainty (\%)} = \sqrt{e_1^2 + e_2^2}\ , \text{ where}$$

e_1 = Uncertainty of assay of stock solution relative to NIST material
e_2 = Uncertainty of dispensing of stock solution into ampoules
e_1 = 0.8% maximum (99% confidence level)
e_2 = 0.6% maximum (99% confidence level)

Using these values, the maximum uncertainty relative to NIST materials is ± 1%.

The total uncertainty in disintegration rate of the radionuclide in Packard standards is computed as a percentage error (99% confidence level) using the following equation:

$$\text{Total Uncertainty (\%)} = \sqrt{e_1^2 + e_2^2 + e_3^2}\ , \text{ where}$$

e_1 and e_2 are as listed above
e_3 = Uncertainty in concentration of NIST reference material (%).

The maximum total uncertainty in the disintegration rate of the radionuclide is:

for Tritium Standards, ± 1.6%
for Carbon–14 Standards, ± 1.3%

* Assayed by NIST, 4 March 1987 ** Assayed by NIST, 3 September 1990.

USES OF STANDARDS

Unquenched standards are used for verification of instrument performance. Performance is verified by making routine measurements of the appropriate standards. These data should be kept in a log for the instrument; the log provides convenient comparisons of data over an extended period of time.

A. The Unquenched Tritium Standard is used to verify the Tritium counting region of interest for efficiency and reproducibility.

B. The Unquenched Carbon–14 Standard is used to verify the Carbon–14 counting region of interest for efficiency and reproducibility. It is also used in some instruments to calibrate the quench indicating parameter. See your Operation Manual for details.

C. The Background Standard is used to verify the instrument background, which could be affected by radioactive contamination, changes in environmental radiation, and electrical noise entering the counting channels. For certain instruments equipped for manual normalization, it is the normalization standard. It can be used in combination with the Tritium and Carbon–14 Unquenched Standards to establish Figures of Merit.

D. The LOW LEVEL STANDARDS are specifically designed to verify the LOW LEVEL performance of Packard Tri–Carb Liquid Scintillation Analyzers operating in the LOW LEVEL COUNT MODE or the HIGH SENSITIVITY COUNT MODE. These standards should not be used during System Normalization and Calibration (SNC), since the instrument is calibrated using argon purged unquenched standards. The LOW LEVEL STANDARDS are for use only in the performance monitoring of the LOW LEVEL COUNT MODE or the HIGH SENSITIVITY COUNT MODE. Packard warrantees LOW LEVEL STANDARDS for 14 months from the date of manufacture.

E. The Ultima Gold Quenched Series are designed for use when counting samples in Ultima Gold cocktail. Packard warrantees the performance of these standards for 2 years from the date of manufacture. For optimum life, the recommended storage temperature is 4°C.

A series of quenched standards is used to establish a correlation between the counting efficiency in a region of interest and a quench indicating parameter (QIP). The QIP can be Sample Channels Ratio (SCR), Sample Count Ratio (SCR), Spectral Index of Sample (SIS) or a parameter based on an external standard measurement. External standard parameters include External Standard Channels Ratio (ESR), the Spectral Index of External Standard (SIE), or the Transformed Spectral Index of External Standard (tSIE). Efficiency correlation curves determined with these standards will apply to a wide variety of scintillation solutions. Applicability of the efficiency correlation to any specific scintillator solution should be determined in the laboratory. This is accomplished by comparing the correlation curves of the standards and the scintillator solution containing a known amount of the same radionuclide. Use of the sealed standards simplifies routine checking of the efficiency correlation curves since sample preparation is eliminated.

For instrument settings and procedures for establishing efficiency correlation curves, refer to the operation manual for the instrument or contact the instrument manufacturer.

The following are signs which may indicate that the standards are not suitable for the uses as described above.

1. An obvious difference in the height of the scintillation solution in one or more of a set of standards may indicate a break in the seal, and leakage of the standard.
2. Readings on one standard which are obviously out of line with other standards in the set.
   a. Unquenched standards in a set should all have essentially the same external standard readings.
   b. Quenched standards in a series are marked in alphabetical sequence relative to their external standard values. ("A" represents the least quenched sample.)
3. Obviously discolored scintillator solution in one or more standards. CAUTION: Standards should not be exposed to sunlight or UV light as this can cause solution to turn yellow.
4. Obviously scratched or dirty ampoules.

The assayed value of a standard should be corrected for decay if the standard is used after 0.5% of the half-life of the radionuclide has elapsed since calibration. At this interval, the required correction will exceed one standard deviation of the assayed value. See the last page of this booklet for a Tritium decay table listing the fraction of the activity remaining after date of calibration. Carbon-14 Standards should not need to be corrected for decay.

Standards should be handled by their tops to minimize accumulation of dirt on the ampoule surface. All fingerprints and dirt should be wiped from each standard with a soft tissue (such as Kimwipe®*). Standards should be stored in the cabinet of the TRI-CARB Liquid Scintillation Counter to ensure temperature equilibration and to prevent photolytic decomposition by ambient light.

USEFUL LIFE OF A STANDARD

A sealed standard should not be used beyond its "useful life" as defined in ANSI Standard N42.15-1980: " 'useful life' is a period not to exceed five years."

Additional Radiation Safety Precautions and Instructions Relating to the Handling, Use, Storage, and Disposal of the Radioactive Material in Packard Instrument Company Products.

(Per Title 10 Code of Federal Regulations (CFR) 32.19(d) (3))

1. **Handling**
   Although the amount of radioactive material in Packard Instrument Co. sealed source standards is extremely small (fractions of a microcurie), the user should still exercise the basic radiation safety principles of time, distance, and shielding. That is, a) do not handle the radiation source longer than needed to do the task, and b) recognize that distance from the radiation source and c) shielding (such as lead foil) are effective methods of minimizing exposure.

   Use should be only by responsible persons in authorized areas.

   Eating, drinking, smoking and the application of cosmetics should be prohibited in areas of use.

2. **Use**
   Even low activity, exempt quantity licensed products containing radioactive material are to be used only as intended by the manufacturer and in accordance with the instructions provided with the products. Any other usage is likely to be in noncompliance with regulations.

*Registered trademark of Kimberly Clark Co.

3. **Storage**
   Any product labeled as "Radioactive Material" is to be secured in safe storage when not in use. Even when actual hazard does not exist, the general public has an apprehension against seeing such labeled items in noncontrolled environments. In addition, there is always danger of loss or theft when sources are unsecured.

4. **Disposal**
   These license–exempt quantity radioactive standards may be disposed of without regard to their radioactive content provided all radiation symbols have been removed or defaced; however, these products must be disposed of according to applicable Federal, State and Local regulations governing the toxic and hazardous properties of the products.

The user instructions with this product are very specific for nuclear detection equipment quality control purposes. It is therefore reasonable to assume that the user has already been trained in radiation safety precautions or is operating under the supervision of a person with such training. In the event there are any questions relating to the handling, use, storage, and disposal of the license–exempt quantities contained in this product, please feel free to call the Regulatory Affairs Specialist at Packard Instrument Company, Downers Grove, Illinois. Phone (800) 323–5891 or (708) 969–6000. You may call the Nuclear Regulatory Commission, Agreement State (Health Department), or Licensing State for assistance in unusual cases.

CERTIFICATION

Packard Instrument Company, Inc. certifies that the standards it produces are at the activity stated on the label at the time of calibration, within the limits of uncertainty stated in this booklet.

TRITIUM DECAY TABLE (FRACTION REMAINING)
Half–life 12.43 Years[1]

YEARS[2]	MONTHS[3] 0	1	2	3	4	5	6	7	8	9	10	11
0	1.0000	.9954	.9908	.9862	.9816	.9770	.9725	.9680	.9635	.9590	.9546	.9502
1	.9458	.9414	.9370	.9327	.9284	.9241	.9198	.9155	.9113	.9070	.9028	.8986
2	.8945	.8903	.8862	.8821	.8780	.8739	.8699	.8659	.8618	.8578	.8539	.8499
3	.8460	.8420	.8381	.8343	.8304	.8265	.8227	.8189	.8151	.8113	.8076	.8038
4	.8001	.7964	.7927	.7890	.7854	.7817	.7781	.7745	.7709	.7673	.7638	.7602
5	.7567	.7532	.7497	.7462	.7428	.7393	.7359	.7325	.7291	.7257	.7223	.7190
6	.7157	.7123	.7090	.7958	.7025	.6992	.6960	.6928	.6896	.6864	.6832	.6800
7	.6769	.6737	.6706	.6675	.6644	.6613	.6582	.6552	.6522	.6491	.6461	.6431
8	.6401	.6372	.6342	.6313	.6284	.6254	.6225	.6197	.6168	.6139	.6111	.6083
9	.6054	.6026	.5998	.5971	.5943	.5915	.5888	.5861	.5833	.5806	.5779	.5753
10	.5726	.5699	.5673	.5647	.5621	.5595	.5569	.5543	.5517	.5491	.5466	.5441
11	.5415	.5390	.5365	.5341	.5316	.5291	.5267	.5242	.5218	.5194	.5170	.5146
12	.5122	.5098	.5074	.5051	.5027	.5004	.4981	.4958	.4935	.4912	.4889	.4867

[1] Unterweger, M.P., B.M. Coursey, F.J. Schima and W.B. Mann, Int. J. Appl. Radiat. and Isot. 31, 611 (1980)
[2] 1 year = 365.25 days
[3] 1 month = 365/12 = 30.44 days

LICENSING AND LABELING INFORMATION

Packard Instrument Company is authorized to distribute these sealed standards to persons exempt from licensing and licensing requirements as provided in 30.18 of 10 CFR Part 30.

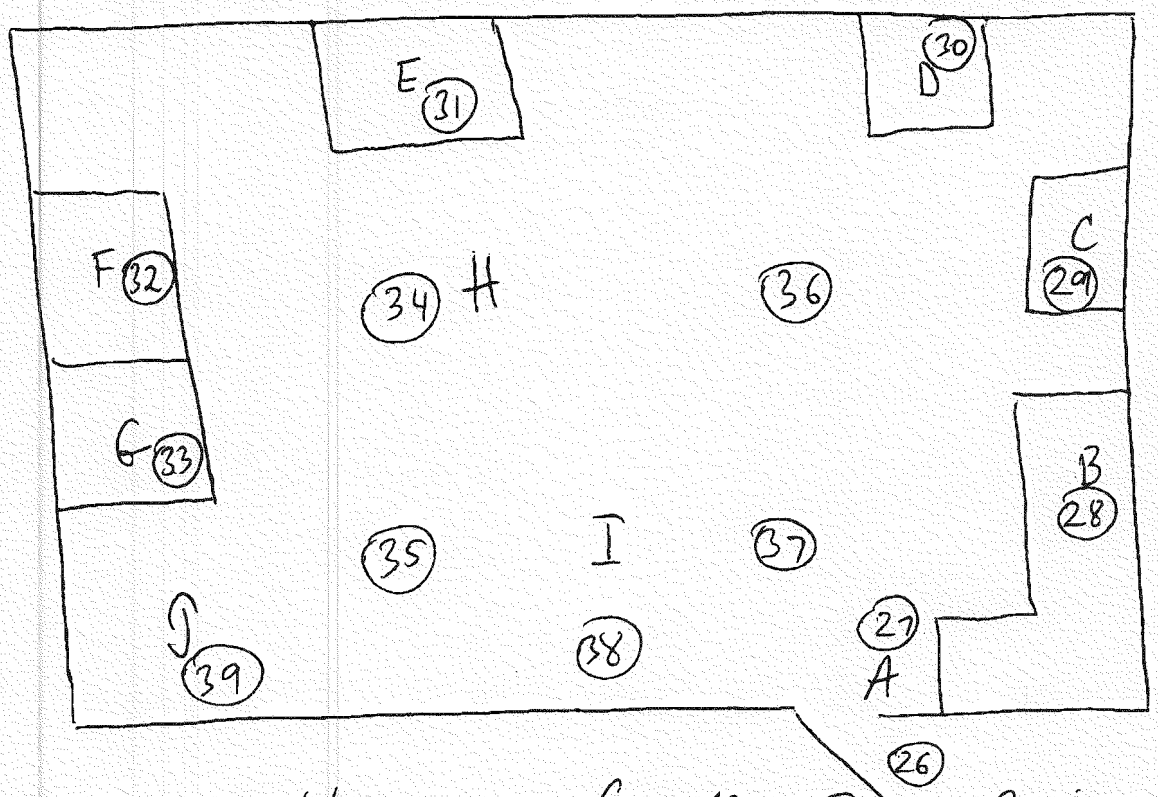
The contents of these standards are exempt from NRC or Agreement State licensing requirements. "Radioactive Material" – Not for Human Use – Introduction Into Foods, Beverages, Cosmetics, Drugs or Medicinals, or Into Products Manufactured for Commercial Distribution is Prohibited. Exempt Quantities Should Not be Combined."

Closed out surveys for rooms B20638 and B 20640.

Meter used for surveys: Ludlum, ECN 021673
Cal due 7 Jul 2010

Bckg 0.009 mR/hr.

Rm. B20638



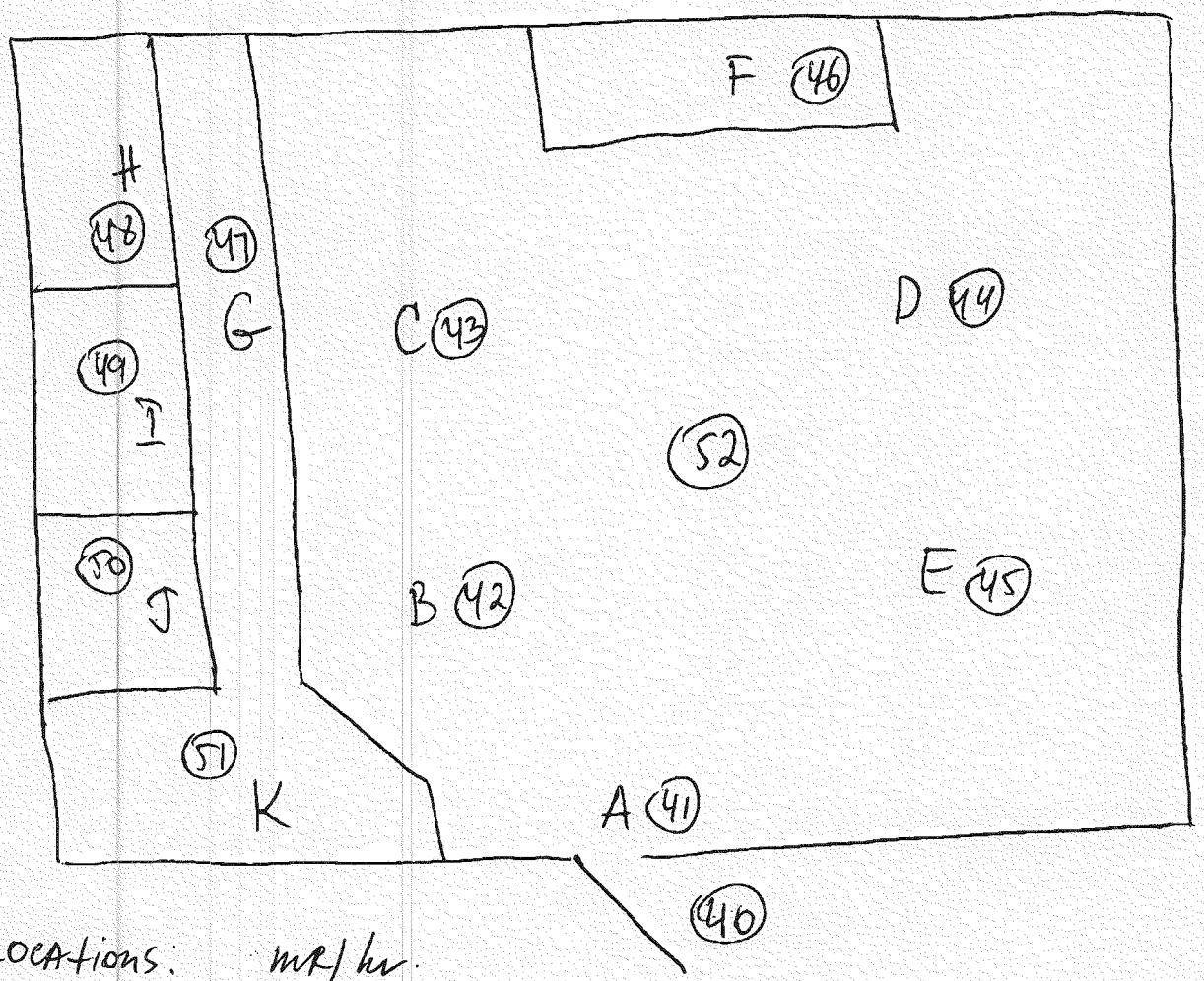
Locations:	mR/hr.
A	0.010
B	0.009
C	0.009
D	0.011
E	0.008
F	0.009
G	0.010
H	0.011
I	0.009

Counting Time 2 min.
Swipes taken: 14 (#26-39)
MDA: 47.6

Encl. 2

Rm. B20640

Bckg 0.009 mR/hr.



Locations:	mR/hr.
A	0.009
B	0.008
C	0.010
D	0.009
E	0.009
F	0.008
G	0.010
H	0.010
I	0.009
J	0.011
K	0.010

Counting Time: 2 min

Swipes Taken: 13 (#40-52)

MDA : 47.6

COUNTING

1470, RiaCalc WIZ, program 3.6, serial #4702381

4 WEEKLY 20 09-JUL-14

SEQ	CODE	TIME	CPM
1	BLANK	120	181.0
2	BLANK	120	186.0
3	BLANK	120	191.5
AVG.	**BLANK**		**186.2**

4 WEEKLY 20 09-JUL-14

SEQ	PAT	CODE	TIME	CPM	CCPM
4 26	1		120	208.0	21.8
5 27	2		120	197.5	11.3
6 28	3		120	189.0	2.8
7 29	4		120	192.5	6.3
8 30	5		120	177.5	-8.7
9 31	6		120	196.0	9.8
10 32	7		120	180.5	-5.7
11 33	8		120	188.5	2.3
12 34	9		120	206.5	20.3
13 35	10		120	175.0	-11.2
14 36	11		120	210.5	24.3
15 37	12		120	191.5	5.3
16 38	13		120	191.0	4.8
17 39	14		120	181.5	-4.7
18 40	15		120	172.5	-13.7
19 41	16		120	180.0	-6.2
20 42	17		120	181.0	-5.2
21 43	18		120	175.0	-11.2
22 44	19		120	184.0	-2.2
23 45	20		120	182.5	-3.7
24 46	21		120	181.0	-5.2
25 47	22		120	191.5	5.3
26 48	23		120	171.0	-15.2
27 49	24		120	183.5	-2.7
28 50	25		120	189.0	2.8
29 51	26		120	188.5	2.3
30 52	27		120	176.5	-9.7

END OF COUNTING

Protocol #1 Weekly/Monthly Survey 7/14/2009

Window A (keV): 75 - 165 Window B (keV): 15 - 1000
Window A Multiplier: 1.4

[redacted]
208
197.5
189
192.5
177.5
196
180.5
188.5
206.5
175
210.5
191.5
191
181.5
172.5
180
181
175
184
182.5
181
191.5
171
183.5
189
188.5
176.5

Performed By:

Performed by: Weekly/Monthly Survey 7/14/2009

Gamma Counter-- Packard Cobra II s/n 401113			dpm factor: 1.34			
Sample ID	Window A 75-165 keV cpm	Window B 15-1000 keV cpm				
Detector 1 1	181	0		186.2 Detector 1 Avg Bkgd Window A		1A LLD + 1A Bkgd = 233.7
Detector 1 2	186	0	1 Bkgd	0.0 Detector 1 Avg Bkgd Window B		1B LLD + 1B Bkgd = 2.7
Detector 1 3	191.5	0	1 Bkgd	47.6 1A LLD	2.7 1B LLD	

AREA	Action Levels
For: Cr-51,Co-57,Ga-67,Tc-99m,Hg-197 & Tl-201	
Unrestricted	>2,000dpm/100cm2
Restricted	>20,000dpm/100cm2
All Other Isotopes	
Unrestricted	>200 dpm/100cm2
Restricted	>2,000dpm/100cm2
Reg Guide 10.8 App. N	

$$MDA = 2.71 + 4.65\sqrt{\frac{BKG(cpm)}{Countime}}$$

Sample ID	Location	Restricted or Unrestricted	Gross cpm/100 cm^2	DETECTOR	Avg bkgd cpm	Net cpm/100 cm^2 (Gross cpm - Avg bkgd cpm)	LLD	> or < LLD	dpm factor	dpm/100 cm2 above Avg Bkgd	> or < resurvey level	uCi	below .005 uCi?
1			208.00	1	186.17	21.83	47.57	<	1.34	29.26	<	1.32E-05	YES
2			197.50	1	186.17	11.33	47.57	<	1.34	15.19	<	6.84E-06	YES
3			189.00	1	186.17	2.83	47.57	<	1.34	3.80	<	1.71E-06	YES
4			192.50	1	186.17	6.33	47.57	<	1.34	8.49	<	3.82E-06	YES
5			177.50	1	186.17	-8.67	47.57	<	1.34	-11.61	<	-5.2E-06	YES
6			196.00	1	186.17	9.83	47.57	<	1.34	13.18	<	5.94E-06	YES
7			180.50	1	186.17	-5.67	47.57	<	1.34	-7.59	<	-3.4E-06	YES
8			188.50	1	186.17	2.33	47.57	<	1.34	3.13	<	1.41E-06	YES
9			206.50	1	186.17	20.33	47.57	<	1.34	27.25	<	1.23E-05	YES
10			175.00	1	186.17	-11.17	47.57	<	1.34	-14.96	<	-6.7E-06	YES
11			210.50	1	186.17	24.33	47.57	<	1.34	32.61	<	1.47E-05	YES
12			191.50	1	186.17	5.33	47.57	<	1.34	7.15	<	3.22E-06	YES
13			191.00	1	186.17	4.83	47.57	<	1.34	6.48	<	2.92E-06	YES
14			181.50	1	186.17	-4.67	47.57	<	1.34	-6.25	<	-2.8E-06	YES
15			172.50	1	186.17	-13.67	47.57	<	1.34	-18.31	<	-8.2E-06	YES
16			180.00	1	186.17	-6.17	47.57	<	1.34	-8.26	<	-3.7E-06	YES
17			181.00	1	186.17	-5.17	47.57	<	1.34	-6.92	<	-3.1E-06	YES
18			175.00	1	186.17	-11.17	47.57	<	1.34	-14.96	<	-6.7E-06	YES
19			184.00	1	186.17	-2.17	47.57	<	1.34	-2.90	<	-1.3E-06	YES
20			182.50	1	186.17	-3.67	47.57	<	1.34	-4.91	<	-2.2E-06	YES
21			181.00	1	186.17	-5.17	47.57	<	1.34	-6.92	<	-3.1E-06	YES
22			191.50	1	186.17	5.33	47.57	<	1.34	7.15	<	3.22E-06	YES
23			171.00	1	186.17	-15.17	47.57	<	1.34	-20.32	<	-9.2E-06	YES
24			183.50	1	186.17	-2.67	47.57	<	1.34	-3.57	<	-1.6E-06	YES
25			189.00	1	186.17	2.83	47.57	<	1.34	3.80	<	1.71E-06	YES
26			188.50	1	186.17	2.33	47.57	<	1.34	3.13	<	1.41E-06	YES
27			176.50	1	186.17	-9.67	47.57	<	1.34	-12.95	<	-5.8E-06	YES
28			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
29			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
30			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
31			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
32			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
33			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
34			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
35			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
36			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
37			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
38			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
39			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
40			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
41			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
42			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
43			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
44			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
45			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
46			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
47			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
48			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
49			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES
50			0.00	1	186.17	-186.17	47.57	<	1.34	-249.46	<	-0.00011	YES