



Neurogen Corporation

Br. 2

35 Northeast Industrial Road
Branford, Connecticut 06505
Telephone 203 488-8201
Fax 203-483-8651

September 1, 2008

Licensing Assistant Section
Nuclear Materials Safety Branford
U.S. Nuclear Regulatory Commissions, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

RECEIVED
REGION I
2008 SEP -8 AM 10:34

Re License Termination (License No. 06-28473-01) 03031474

To Whom It May Concern;

I am writing to request that the NRC radioactive materials license for Neurogen Corporation (No. 06-28473-01) be terminated. We have ceased working with licensed radioactive materials and have no intention of working with these materials in the near future.

Enclosed please find a decommissioning report from Radcor, LLC of Salem, Connecticut indicating that our Branford, Connecticut, facility is free of radioactive contamination and that the facility meets the requirements to be released for unrestricted use.

Radioactive waste generated during the decommissioning process was disposed of through Radiac Research Corporation of Brooklyn, New York on August 11, 2008. No licensed radioactive material remains at the facility.

If you have any questions or require any additional information, please contact me at 203.315.3046.

Sincerely,

Thomas A. Pitler
Senior Vice President and Chief Business Financial Officer

Enclosure

142782
NRC/RGNI MATER. ALS-002

CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS

Neurogen Corporation
35 Northeast Industrial Road
Branford, CT 06405

LICENSE NUMBER

06-28473-01

DOCKET NUMBER

03031474

LICENSE EXPIRATION DATE

June 30, 2015

A. LICENSE STATUS (Check the appropriate box)

- This license has expired. This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

1. No radioactive materials have ever been procured or possessed by the licensee under this license.
2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
- a. Transfer of radioactive materials to the licensee listed below:
- b. Disposal of radioactive materials:
1. Directly by the licensee:
2. By licensed disposal site:
3. By waste contractor: Radiac Environmental Services
261 Kent Avenue
Brooklyn, NY 11211
800-640-7511
- c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

1. A radiation survey was conducted by the licensee. The survey confirms:
- a. the absence of licensed radioactive materials
- b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
2. A copy of the radiation survey results:
- a. is attached; or b. is not attached (Provide explanation); or c. was forwarded to NRC on: _____ Date _____
3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
- a. The results of the latest leak test are attached; and/or b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME <i>Thomas A. Pitler</i>	TITLE <i>SVP, CBO & CFO</i>	TELEPHONE (Include Area Code) <i>203-315-3096</i>	E-MAIL ADDRESS <i>tpitler@nrcn.com</i>
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Mail all future correspondence regarding this license to:
35 NE Industrial Rd, Branford, CT 06405

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE <i>Thomas A. Pitler, SVP</i>	SIGNATURE <i>[Signature]</i>	DATE <i>9/03/08</i>
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WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

RADIOLOGICAL ASSESSMENT REPORT

Neurogen Corporation
Northeast Industrial Road
Branford, CT 06405

August 26, 2008

Performed by
Radcor, LLC
345 Laurelwood Drive
Salem, CT 06420
(860) 887-1538

EXECUTIVE SUMMARY

Between March 28, 2008 and August 11, 2008, a radiological assessment for the purpose of decommissioning was performed of the Neurogen Corporation facility located on Northeast Industrial Road in Branford, Connecticut. This assessment was conducted by Radcor, LLC of Salem, Connecticut.

After performing a radiological assessment and decontamination of the use and storage areas designated by the licensee, it is the opinion of Radcor, LLC that the areas assessed do not present any significant radiological hazard to facility personnel, the public, or the environment, and that these areas may be released for unrestricted use.

SCOPE

Radcor, LLC of Salem, Connecticut was contracted to perform a radiological assessment of selected areas of the Neurogen Corporation (hereinafter referred to as Neurogen) facility located on Northeast Industrial Road in Branford, Connecticut. This facility is licensed by the Nuclear Regulatory Commission (NRC) for the possession and use of radioactive materials for research and development under license No. 06-28473-01.

FACILITY DESCRIPTION

Neurogen's Branford Connecticut facility consists of four (4) one- and two-story buildings consisting of a total of approximately 132,200 square feet located at 15, 35, and 45 Northeast Industrial Road. The use and storage of licensed materials was limited to 15 areas of the facility.

Floor plans of the facility are provided in Appendix A to this report.

Around March of 2008, Neurogen decided to downsize the facility and limit the number of areas where licensed materials were used and stored. Decommissioning of certain areas was commenced. Later during this process it was decided that research activities involving radioactive materials would be terminated at Neurogen. The decommissioning of the remainder of the use and storage areas continued with the intention of terminating the radioactive materials license.

Site Conditions at Time of Final Survey

The areas that were assessed had been mostly vacated prior to the radiological assessment.

One (1) area, Lab 215, had been surveyed and decommissioned in December of 2006. The documentation from this assessment is included with this report.

Identity of Potential Contaminants

Neurogen is licensed for the possession and use of hydrogen-3, carbon-14, phosphorus-32, phosphorus-33, sulphur-35, chlorine-36, Rubidium-86, and Iodine-125. The dates that these isotopes were last used at the facility are provided in Table 1 below.

Table 1: Isotopes and Dates of Last Use

Isotope	Last use	Isotope	Last use
Hydrogen-3	Dec 2007	Sulfur-35	Jan 2008
Carbon-14	May 2007	Chlorine-36	Never used
Phosphorus-32	Jan 2006	Rubidium-86	May 2003
Phosphorus-33	Aug 2003	Iodine-125	Jan 2008

Based upon the dates of last use, there was no need to assess areas for P-32, P-33, Cl-36, and Rb-86.

All licensed radioactive materials were collected, packaged and shipped off-site for processing and disposal through Radiac Environmental Services of Brooklyn, New York.

RELEASE CRITERIA

The applicable release criteria were based upon Appendix Q of NUREG-1556, Vol. 7, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance About Academic, Research and Development, and Other Licenses of Limited Scope." The criteria used are presented in Table 2 below.

Table 2. Screening Values for Building Surface Contamination¹

NUCLIDES	MAXIMUM (dpm/100 cm ²)
Hydrogen-3	1.2 x 10 ⁸
Carbon-14	3.7 x 10 ⁶
Sulfur-35	1.3 x 10 ⁷
Iodine-125	3.5 x 10 ⁴

¹Screening values are based upon the assumption that the fraction of removable surface contamination is equal to 0.1.

These chosen "maximum" values will ensure that the annual total effective dose equivalent (TEDE) to any individual after the site is released for unrestricted use will not exceed 25 millirem above background, in accordance with 10 CFR 20.1402. To the extent practicable, areas would be decontaminated to levels as low as reasonably achievable.

ASSESSMENT PERSONNEL

A professional health physicist, Mr. David J. Durkee, performed the radiological assessment. Mr. Durkee's resume is included as Appendix B to this report.

INSTRUMENTATION

Table 3 lists the instruments used in the performance of the surveys, along with other parameters and detection sensitivities for the instrumentation, and survey techniques. All instruments used had been calibrated using NIST-traceable standards. The calibration isotopes used for these instruments included Hydrogen-3, Carbon-14, and/or mock Iodine-125.

Minimum detectable activities (MDAs) were calculated in accordance with the *Manual for Conducting Radiological Surveys in Support of License Termination*, NUREG/CR-5849 and the *Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)*, NUREG-1575. These calculations are included as Appendix C.

Operational and background checks were performed at least once each day of instrument use.

Table 3. Instrumentation for Radiological Surveys

Type of Measurement	Instrumentation		Bkgd. ^a	2 π ^a Eff & Cal Isotope	Detection Sensitivity
	Detector	Meter			
Surface scans - β	Gas Prop. Det. Ludlum model 43-68	Count-rate meter ^b Ludlum mod. 2241-2	300 cpm	7.4% C-14	4,022 dpm/100 cm ²
			570 cpm Ph III	7.4% C-14	7,642 dpm/100 cm ²
Integrated meas. of surfaces - β	Gas Prop. Det. Ludlum model 43-68	Count-rate meter ^b Ludlum mod. 2241-2	300 cpm	7.4% C-14	893 dpm/100 cm ²
			570 cpm Ph III	7.4% C-14	1,220 dpm/100 cm ²
Integrated meas. of surfaces - γ	Low energy γ scint. Ludlum model 44-21	Count-rate meter ^c Ludlum model 3	300 cpm	14% I-125	19,345 dpm/100 cm ²
Smears, β/γ	Packard 1600TR (2 units utilized)	(same as detector)	21 cpm	40% H-3	60 dpm/100 cm ²
			46 cpm (wide)	75% (wide)	46 dpm/100 cm ²

^aNominal Values

^bMonitoring audible signal

^cInstrument on slow response, positioned until steady reading obtained

SURVEY PROCEDURES

Survey planning and procedures were based upon the *Manual for Conducting Radiological Surveys in Support of License Termination, NUREG/CR-5849* and the *Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), NUREG-1575*. Actual procedures are described below.

Area Classification

Areas in which licensed materials were used and/or stored, as determined by Neurogen personnel, were designated as Affected Areas for the purpose of this assessment. These Affected Areas are outlined below.

1. Phase I, Lab 055, Behavior
2. Phase I, Lab 071, Pharmacology Equipment Room
3. Phase I, Lab 073, Pharmacology
4. Phase II, Room 134, LLRW Storage Area
5. Phase II, Lab 215, Instrument Room
6. Phase III, Lab 313, Molecular Biology 1
7. Phase III, Lab 314, Molecular Biology 2
8. Phase III, Lab 315, Molecular Biology 3
9. Phase III, Lab 316, Molecular Biology 4
10. Phase III, Lab 320, High-Throughput Pharmacology
11. Phase III, Lab 322, High-Throughput Pharmacology
12. Phase III, Lab 335, Cold Room
13. Phase III, Lab 362, High-Throughput Pharmacology
14. Phase III, Room 361, LLRW Storage Area
15. Phase V, Lab 662, Workroom

All other areas were designated Unaffected Areas.

Facility floor plans clearly identifying the above referenced areas have been included as Appendix A to this report.

Reference Grids

The Affected Areas were gridded at approximately 1-meter intervals, up to a height of 2 meters. Unaffected Areas were not gridded.

Surface Activity Measurements

Removable Contamination Measurements

In the Affected Areas, wipe samples for removable contamination were taken in each grid area (every 1 m² of lower surfaces and walls up to a height of 2 meters). Samples were also obtained from areas where activity would have been likely to collect (i.e., sink drain, horizontal surfaces, inside cabinets, etc.).

Samples were not obtained from Unaffected Areas.

Surface Scans for Total Contamination

Scanning is an initial evaluation technique performed by moving the detection device over a surface at a constant speed and at a fixed distance above the surface to identify areas having elevated radiation levels. Areas thus identified are followed up by integrated measurements.

Instrumentation used for scanning is listed in Table 3. Scanning speeds did not exceed 1 detector-width per second. Audible indicators were used to help identify locations having elevated (>1.25 times ambient) levels of direct radiation.

Scanning of surfaces to identify locations of residual surface and near-surface activity was performed according to the following schedule:

- Affected Area Surfaces: 100% of accessible lower surfaces (all floors, countertops, cabinets and walls up to 2 meters above the floor);
- Unaffected Area Surfaces: Spot check of lower surfaces just outside Affected Areas.

Background Level Determinations

Background count rates were determined initially for the building interior by taking measurements in different unaffected locations near the Affected Areas.

Sample Analysis

Wipe samples for removable contamination were analyzed for beta/gamma activity using the Liquid Scintillation Counter (LSC) specified in Table 3. The wide channel was used so that any potential radioactive contamination would be identified.

Data Interpretation

Measurement data were converted to units of dpm/100 cm² (surface activity) for comparison with guidelines. Average values for survey levels were determined and compared with established release criteria.

Waste

Radioactive waste generated during the decommissioning process was shipped offsite for processing and disposal through Radiac Environmental Services of Brooklyn, New York.

Records

A copy of the survey documentation is enclosed as Appendix D to this report.

SURVEY FINDINGS AND RESULTS

Background Levels

Background count rates for the instrumentation used are listed in Table 3. Background count-rates were found to be higher in Phase III, especially near the rear wall of the facility. It was determined that these higher readings were caused by the natural radioactivity present in the building materials. Due to this, two (2) different MDA calculations were provided in Table 3; one for Phase III, and one for the other buildings assessed.

Surface Activity Measurements

Removable Contamination Measurements

A total of 2,390 wipes samples were obtained and analyzed. Only 21 samples indicated removable activity in excess of 60 dpm/100 cm². The maximum level of removable activity identified was 513 dpm/100 cm².

All 21 locations identified as having removable contamination were decontaminated to levels below the MDA.

Surface Scans and Integrated Measurements

Surface scans of the Affected Areas identified three (3) areas of fixed contamination in excess of normal background levels. The areas identified are outline below:

1. The front of a cabinet in Lab 322 was found to be contaminated over an area of approximately 500 cm². The maximum activity identified was 103,432 dpm/100 cm² (suspected C-14).
2. The floor under the contaminated cabinet in Lab 322 was found to be contaminated over an area of approximately 300 cm² to a maximum activity of 12,432 dpm/100 cm² (suspected C-14).
3. A small spot, approximately 100 cm², on the floor in the Phase III waste storage room was found to be contaminated to a level of 7,581 dpm/100 cm² (suspected C-14).

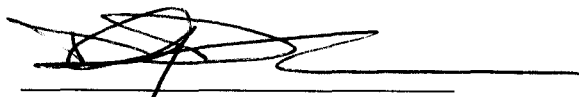
Each of the areas identified above was decontaminated to a level indistinguishable from normal background.

No areas in excess of normal background levels were identified in Unaffected Areas.

SUMMARY

Between March 28, 2008 and August 11, 2008, a radiological assessment for the purpose of decommissioning was performed of the Neurogen Corporation facility located on Northeast Industrial Road in Branford, Connecticut. This assessment was conducted by Radcor, LLC of Salem, Connecticut.

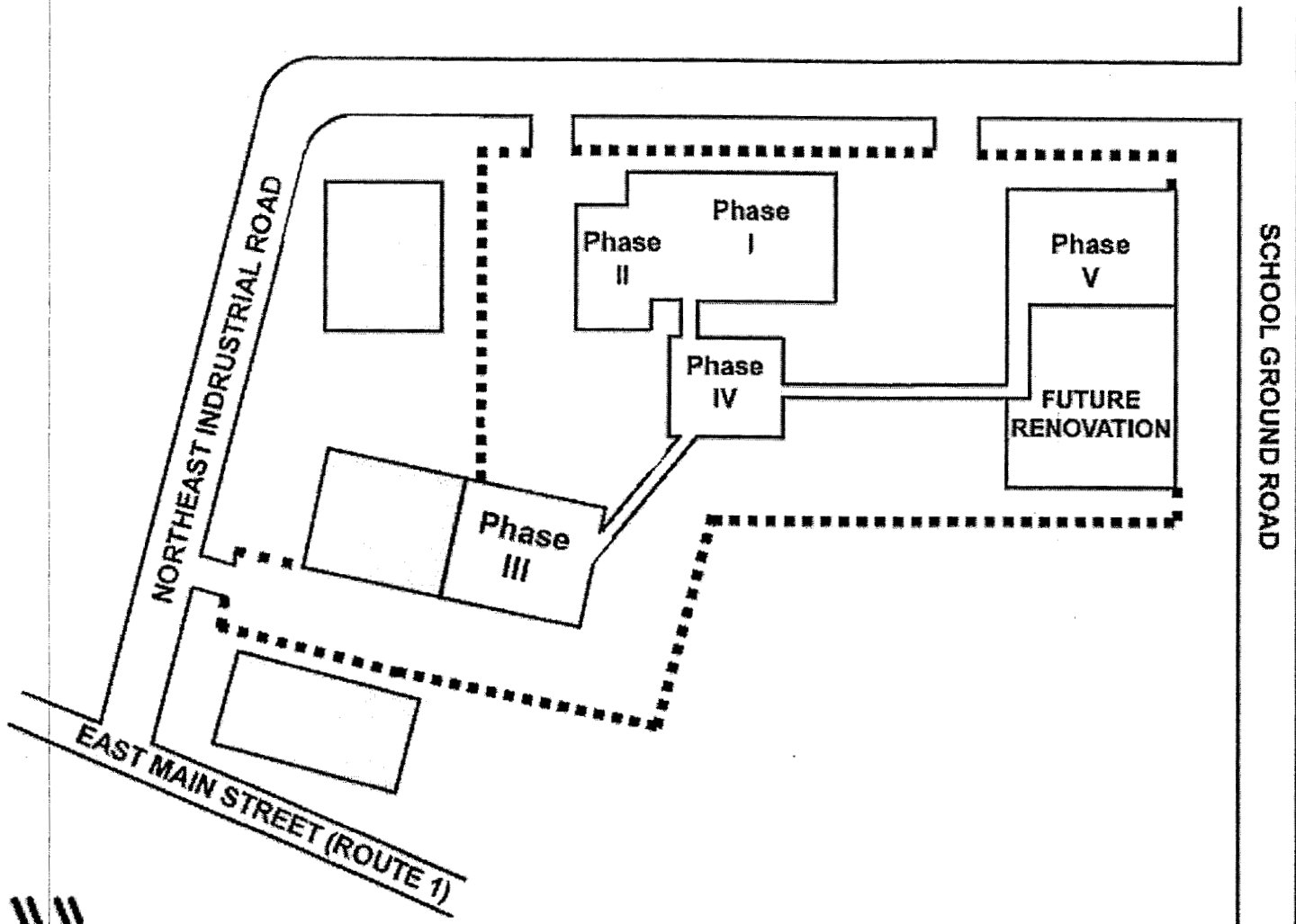
After performing a radiological assessment and decontamination of the use and storage areas designated by the licensee, it is the opinion of Radcor, LLC that the areas assessed do not present any significant radiological hazard to facility personnel, the public, or the environment, and that these areas may be released for unrestricted use.



David J. Durkee
Health Physicist, RRPT

Appendix A

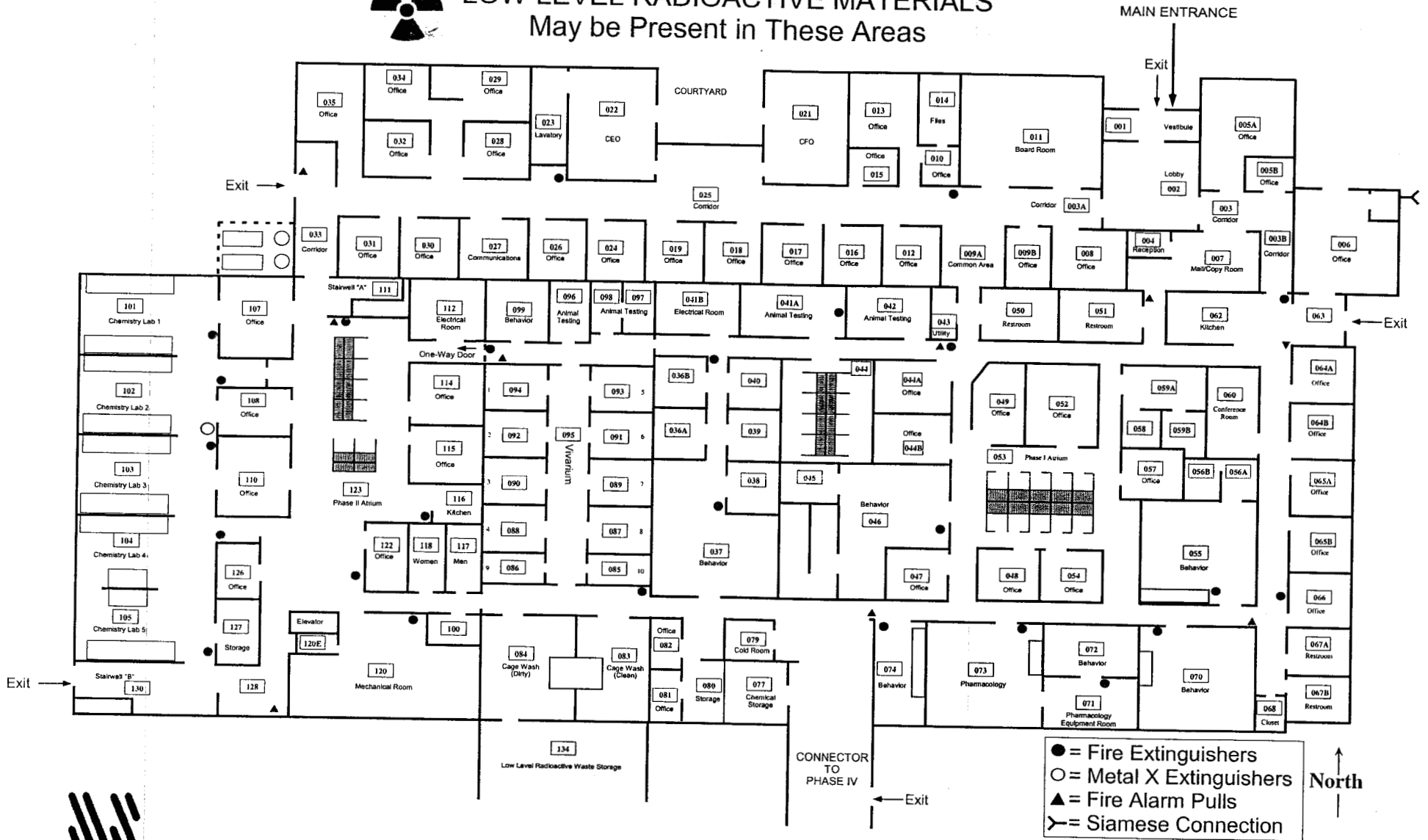
Floor Plans



CAMPUS OVERVIEW



LOW LEVEL RADIOACTIVE MATERIALS May be Present in These Areas



PHASE I/PHASE II - 1st FLOOR

35 Northeast Industrial Rd

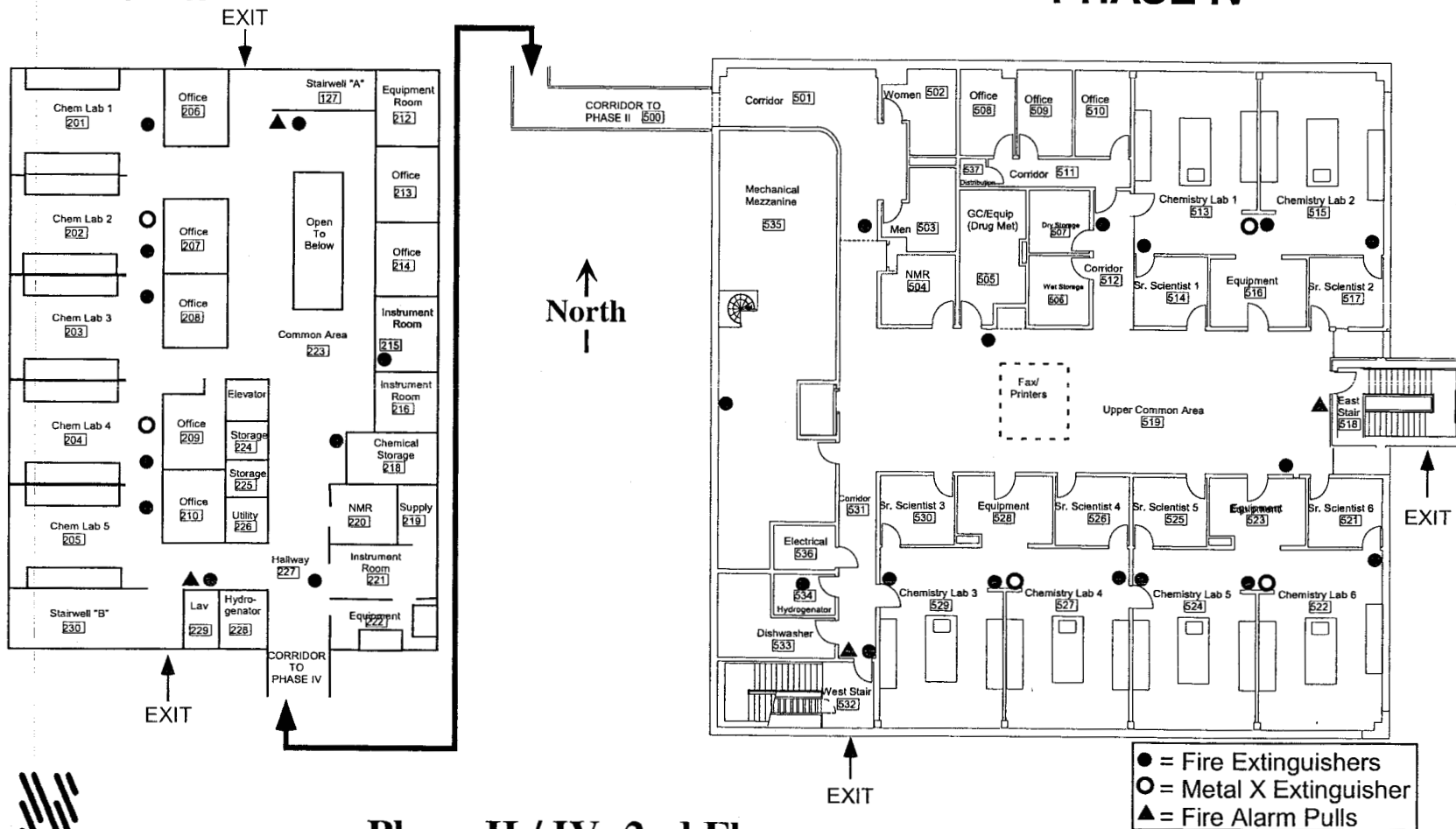


Low Level Radioactive Materials

May be Present in These Areas

PHASE II

PHASE IV

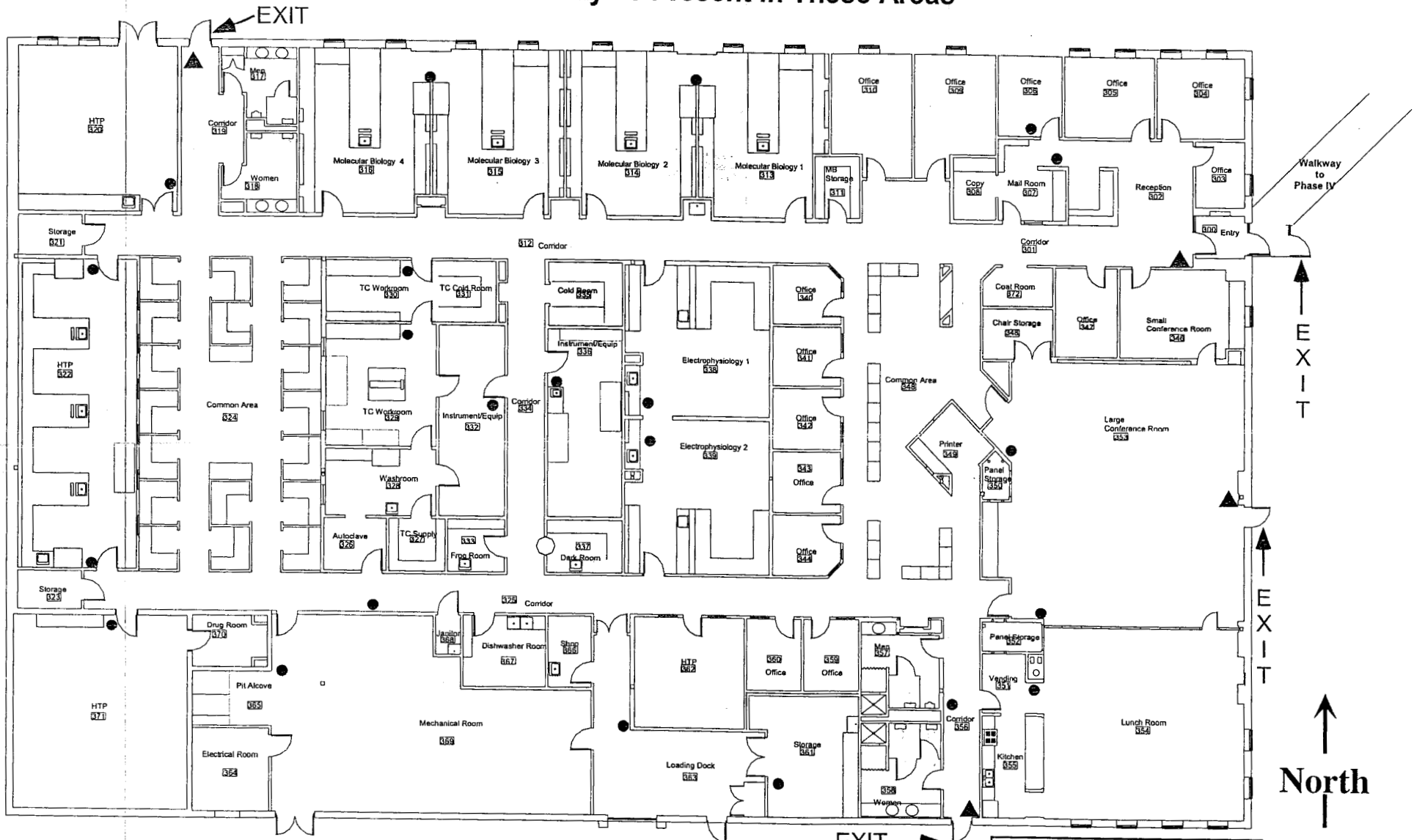


Phase II / IV- 2nd Floor



LOW LEVEL RADIOACTIVE MATERIALS

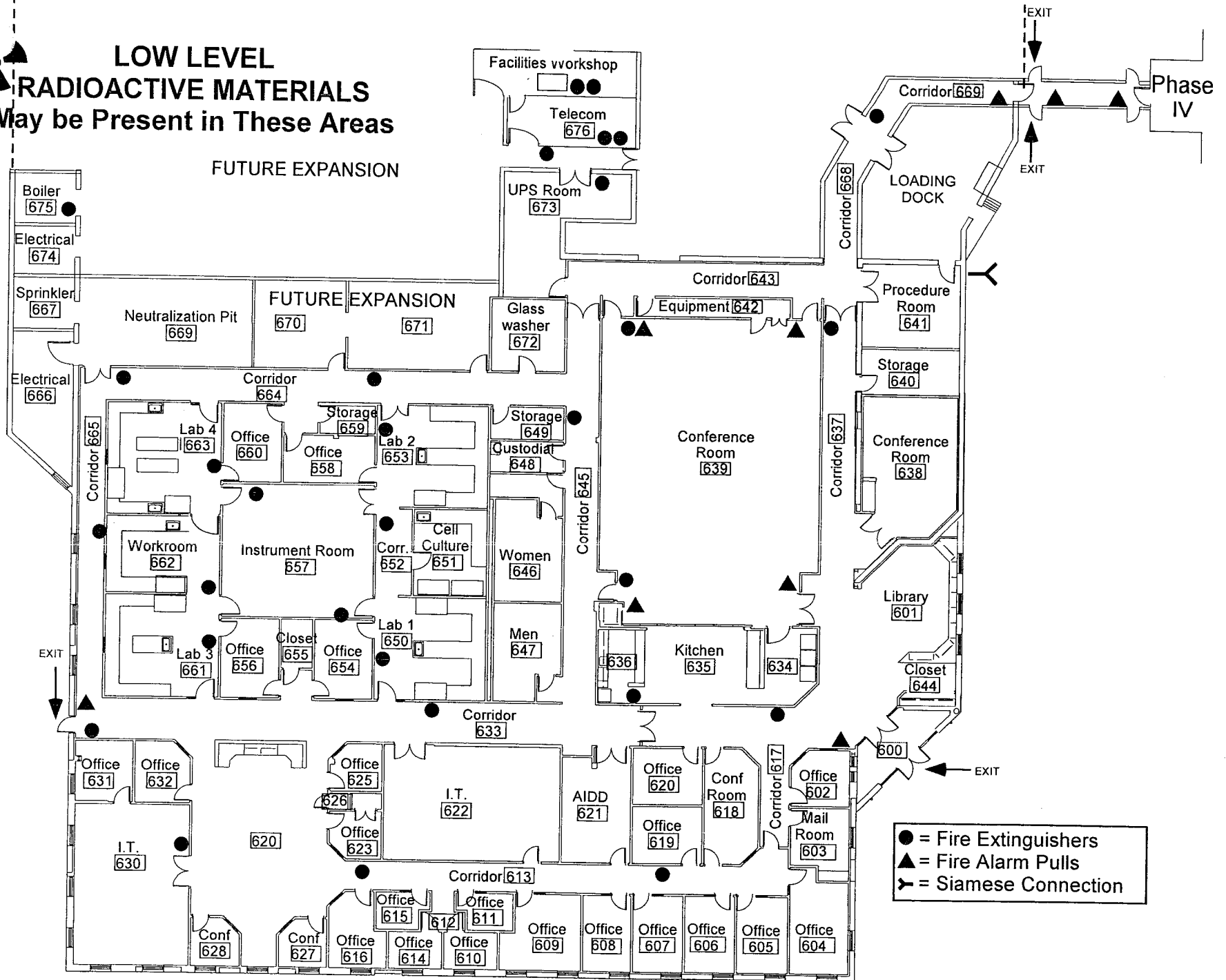
May be Present in These Areas



- = Fire Extinguishers
- ▲ = Fire Alarm Pulls
- = Siamese Connection



**LOW LEVEL
RADIOACTIVE MATERIALS
May be Present in These Areas**



- = Fire Extinguishers
- ▲ = Fire Alarm Pulls
- = Siamese Connection

Appendix B

Resume

RADCOR, LLC
345 Laurelwood Drive
Salem, CT 06420
(860) 887-1538

David J. Durkee

EDUCATION:

Regents College, NY. - B.S. Technology (Nuclear/Health Physics)
University of Phoenix, AZ. - A.A. Nuclear Technology
Health Physics Technician Level I Basic - Radiation Safety Associates, Inc.
Health Physics Technician Level II - Radiation Safety Associates, Inc.
Respiratory Protection at Nuclear Facilities - Radiation Safety Associates, Inc.
Environmental Monitoring for Radioactivity - Oak Ridge Associated Universities.
Liquid Scintillation and Gamma Spectrum Analysis - Rutgers University
Health Physics Audits - Radiation Safety Associates, Inc.

Navy

Naval Nuclear Power School (24 wks)	Diesel Operator/Maint. School
Nuclear Prototype Training Unit (26 wks)	Scuba Diver School
Engineering Laboratory Technician School	Advanced Auxiliary Package Course
Machinist Mate "A" School	Quality Assurance Inspector School

EXPERIENCE:

December 1996 to Present

Radcor, LLC, Salem, Connecticut

Health Physicist/Owner. Responsible for providing radiological consulting services to general industry, academic institutions, and companies involved in research and development. These services include: development and presentation of professional training; performance of program audits; performance of radiological surveys, decontamination and decommissioning; development of license applications, amendments and safety procedures; radiation protection program oversight; and, regulatory compliance. Served as the Radiation Safety Officer for ExxonMobil Research and Eng. Co., Paulsboro, New Jersey.

March 1994 to December 1996

Radiation Safety Associates, Inc., Hebron Connecticut

Vice President-Technical Services. Responsible for the preparation of job proposals and operating budgets; making technical and manpower recommendations; supervising workers at job sites; performing technical evaluations as required; writing, editing, and developing course materials, working procedures and technical articles; and, performed duties as a health physicist.

Responsible for oversight of various site decontamination/decommissioning projects. These involved: the development of decommissioning plans; hiring and oversight of workers; hands-on performance of radiological surveys and site decontamination efforts; and the development and submittal of final reports.

Instructor for the following professional training courses: Fundamentals of Radiological Protection; Health Physics Technician Level I and II; Radiation Safety Officer; Radiation Safety Officer Refresher; and, Basic Radiation Worker.

Assistant Editor of *Radiation Protection Management*, the Journal of Applied Health Physics. Assistant RSO and Quality Control Officer for a radioanalytical laboratory.

October 1991 to March 1994

Radiation Safety Associates, Inc., Hebron, Connecticut

Health Physicist. Responsible for providing consulting services to the nuclear industry; general industry; local, state, and federal governments; and academic institutions. These services included performing audits, radiological surveys, instrument calibrations, site decontamination services, writing license applications and amendments, maintaining radiological safety programs, providing technical advice and performing training.

September 1983 to October 1991

United States Navy, Submarine Qualified. Served on-board two nuclear-powered submarines. Qualified as Leading Engineering Laboratory Technician, Engineeroom Supervisor, Quality Assurance Inspector, Duty Section Leading Mechanic and Ship's Diver.

Supervised and performed chemistry and radiological controls on reactor plant primary and secondary systems. Sampled primary coolant and secondary water chemistry and analyzed results to detect abnormal trends and out of specification conditions. Established and certified radiologically controlled areas, conducted radiation and contamination surveys, evaluated man-rem exposure and processed radioactive waste. Calibrated and operated radiation detectors and chemistry analytical equipment.

Directed the day-to-day efforts of five junior Laboratory Technicians. Awarded a Navy Achievement Medal for being "the driving force behind a dramatic turnaround in the professionalism of the (Reactor Laboratory) division." Instituted a training program that significantly upgraded the level of knowledge of the division.

Drafted detailed work procedures and quality assurance work packages for nuclear and non-nuclear maintenance efforts. Performed in-process inspections to verify that materials and procedures met required specifications.

PROFESSIONAL ACTIVITIES:

Registered Radiation Protection Technologist (NRRPT)

Plenary Member, Health Physics Society

PUBLICATIONS

"NRC License Application, Renewal, or Amendment for Byproduct Material" *RSO Magazine*, 1:6: pp. 25-30; Nov/Dec, 1996.

"Personal Whole-Body Dosimetry" *RSO Magazine*, 1:4: pp. 26-28; Jul/Aug, 1996.

"Prenatal Radiation Exposure," *RSO Magazine*, 1:2: pp. 12-13; Mar/Apr, 1996.

"Loose Contamination Survey Methods," *RSO Magazine*, 1:1: pp. 19-20; Jan/Feb, 1996.

Steinmeyer, K. Paul, David J. Durkee and Paul R. Steinmeyer. *Mathematics Review for Health Physics Technicians*. Hebron, CT: RSA Publications, 1994. (393 pages).

Appendix C

Minimum Detectable Activity Calculations and Calibration Information

The equations used for determining the MDAs are as follows:

Variables: MDA = Minimum Detectable Activity in dpm/100 cm²
R_b = Background count rate in cpm
t = Counting time when t_b = t_s
τ = Detector time constant in minutes
E = Detector efficiency in cpm/dpm
A = Active detector area in cm²
X = Multiple of background audibly discernable to tech. as increase

MDA for surface scans using Ludlum Model 43-68:

$$\text{MDA} = (X)(R_b) \div (E)(A/100)$$

$$\text{Ph I, II, V: MDA} = (1.25)(300 \text{ cpm}) \div (0.074)(126/100) = 4,022 \text{ dpm}/100 \text{ cm}^2$$

$$\text{Ph III: MDA} = (1.25)(570 \text{ cpm}) \div (0.074)(126/100) = 7,642 \text{ dpm}/100 \text{ cm}^2$$

MDA for integrated measurement using Ludlum Model 43-68:

$$\text{MDA} = [2.71 + 4.65\{(R_b)(t)\}^{1/2}] \div (t)(E)(A/100)$$

$$\text{Ph I, II, V: MDA} = [2.71 + 4.65\{(300 \text{ cpm})(1 \text{ min.})\}^{1/2}] \div (1 \text{ min.})(0.074)(126/100) = 893 \text{ dpm}/100 \text{ cm}^2$$

$$\text{Ph III: MDA} = [2.71 + 4.65\{(570 \text{ cpm})(1 \text{ min.})\}^{1/2}] \div (1 \text{ min.})(0.074)(126/100) = 1,220 \text{ dpm}/100 \text{ cm}^2$$

MDA for integrated measurement using Ludlum Model 44-21:

$$\text{MDA} = 4.65\{(R_b)/(2\tau)\}^{1/2} \div (E)(A/100)$$

$$\text{MDA} = 4.65\{(300 \text{ cpm})/(2(.17))\}^{1/2} \div (0.14)(5.1/100) = 19,345 \text{ dpm}/100 \text{ cm}^2$$

MDA for counting 100 cm² wipe samples on LSC:

$$\text{MDA} = [2.71 + 4.65\{(R_b)(t)\}^{1/2}] \div (t)(E)$$

$$\text{MDA (For H-3)} = [2.71 + 4.65\{(21 \text{ cpm})(1 \text{ min.})\}^{1/2}] \div (1 \text{ min.})(0.4) = 60 \text{ dpm}/100 \text{ cm}^2$$

$$\text{MDA (Wide)} = [2.71 + 4.65\{(46 \text{ cpm})(1 \text{ min.})\}^{1/2}] \div (1 \text{ min.})(0.75) = 46 \text{ dpm}/100 \text{ cm}^2$$

Instrument Calibration Information

Ludlum Model 2241-2 with 43-68. Calibrated by RSCS (CTI) of Stratham, NH on 9/10/07.

Ludlum Model 3 with 44-21: Calibrated by RSCS (CTI) of Stratham, NH on 5/20/08.

Packard 1600TRs. Calibrated using manufacturer's standards on 12/3/07.



A Division of RSCS, Inc.

Customer: David J Durkee
 Radcor, LLC.
 345 Laurelwood Drive
 Salem, CT 06420-

Calibration Certificate
 ID Number: 13775114443-0

Instrument
 Ludlum Model 2241-2

Serial Number
 137751

Probe Model
 Ludlum 43-68

Serial Number
 140899

Precision Check				
Test 1	Test 2	Test 3	Mean	Results
16.00 cpm	16.00 cpm	16.10 cpm	16.03 cpm	Satisfactory

Accuracy Check				
Range	Target Value	As Found		As Left
X100	640 Kcpm	650 Kcpm #		650 Kcpm #
X100	160 Kcpm	163 Kcpm #		163 Kcpm #
X10	64 Kcpm	64.5 Kcpm #		64.5 Kcpm #
X10	16 Kcpm	16 Kcpm #		16 Kcpm #
X1	6.4 Kcpm	6.36 Kcpm #		6.36 Kcpm #
X1	1.6 Kcpm	1.6 Kcpm #		1.6 Kcpm #

Readings with * indicate ranges where As-Found readings are >20% of Target value. Readings with # indicate As-left readings are >10% of Target value
 Readings with # indicate ranges where pulser was used.

Probe Model & SN	Isotope	Efficiency	NIST Source ID	Geometry
43-68 140899	C-14	0.0742 C/D	C-14 (SN: 488-10-9)	On Flat Surface
43-68 140899	CI-36	0.2265 C/D	CI-36 (SN: 8933)	On Flat Surface

MTE Instrument Type	Model	CalDueDate
Pulser	Ludlum 500-4 SN: 6615	01/15/2008

Outer Physical Check: Pass
 Internal Check: Pass
 Tap Test: Pass

Electronics Checks	As Found	As Left
High Voltage	1200 Volts	1200 Volts

Calibrated by: *[Signature]* QA Review: *[Signature]*

Calibration Date: 09/10/2007
 Expires: 09/10/2008

Atmospheric Conditions - Temperature: 77°F Humidity: 34% Barometric Pressure: 29.87"hg
 This calibration was performed by RSCS Inc. 91 Portsmouth ave, Stratham NH 03885 using a NIST Traceable radiation source, in conformance to the following standards: ANSI N323A (1997), RSCS New Hampshire Radioactive Material License Number: 381R. RSCS calibration services are performed in accordance with the RSCS Radiation Protection Program Manual and Standard Operating Procedure 2.4. This calibration certificate shall not be reproduced except in full without the express written consent of RSCS, Inc



A Division of RSCS, Inc.

Customer: David J Durkee
Radcor, LLC.
 345 Laurelwood Drive
 Salem, CT 06420-

Calibration Certificate

ID Number: 11420811885-0

Instrument
 Ludlum Model 3

Serial Number
 114208

Probe Model
 Ludlum 44-9
 Ludlum 44-2

Serial Number
 114780
 156898

Precision Check				
Test 1	Test 2	Test 3	Mean	Results
4.00 mR/hr	4.00 mR/hr	4.00 mR/hr	4.00 mR/hr	Satisfactory

Accuracy Check				
Range	Target Value	As Found		As Left
X100	160 mR/hr	150 mR/hr		150 mR/hr
X100	40 mR/hr	40 mR/hr		40 mR/hr
X10	16 mR/hr	15 mR/hr		15 mR/hr
X10	4 mR/hr	4 mR/hr		4 mR/hr
X1	1.6 mR/hr	1.5 mR/hr		1.5 mR/hr
X1	0.4 mR/hr	0.4 mR/hr		0.40 mR/hr
X0.1	0.16 mR/hr	0.155 mR/hr #		0.155 mR/hr #
X0.1	0.04 mR/hr	0.04 mR/hr #		0.04 mR/hr #

Readings with * indicate ranges where As-Found readings are >20% of Target value. Readings with # indicate As-left readings are >10% of Target value
 Readings with # indicate ranges where pulser was used.

Probe Model & SN	Isotope	Efficiency	NIST Source ID	Geometry
44-21 156898	I-125	0.1400 C/D	129 (SN: NES-186S)	@1cm
44-9 114780	C-14	0.0242 C/D	C-14 (SN: 488-10-9)	@1cm
44-9 114780	P-33	0.0913 C/D	Td-99 (SN: 63963 (Beta))	@1cm

MTE Instrument Type	Model	CalDueDate
Pulser	Ludlum 500-4 SN: 6615	01/15/2008

Outer Physical Check: <i>Pass</i>	Mechanical Zero: <i>Pass</i>
Internal Check: <i>Pass</i>	Tap Test: <i>Pass</i>
Geotropism Check: <i>Pass</i>	

Electronics Checks	As Found	As Left
High Voltage	900 Volts	900 Volts

Comments: 44-21 Probe is NOT calibrated in mR/Hr!!

Calibrated by: *[Signature]* QA Review: *[Signature]*

Calibration Date: 05/17/2007
 Expires: 05/17/2008

Atmospheric Conditions - Temperature: 76°F Humidity: 32% Barometric Pressure: 29.78"hg
 This calibration was performed by RSCS Inc. 91 Portsmouth ave, Stratham NH 03885 using a NIST Traceable radiation source, in conformance to the following standards: ANSI N323A (1997). RSCS New Hampshire Radioactive Material License Number: 381R. RSCS calibration services are performed in accordance with the RSCS Radiation Protection Program Manual and Standard Operating Procedure 2.4. This calibration certificate shall not be reproduced except in full without the express written consent of RSCS, Inc

Appendix D

Survey Documentation

Job Location: newtown corp Bethford CT Page: 1 of 7

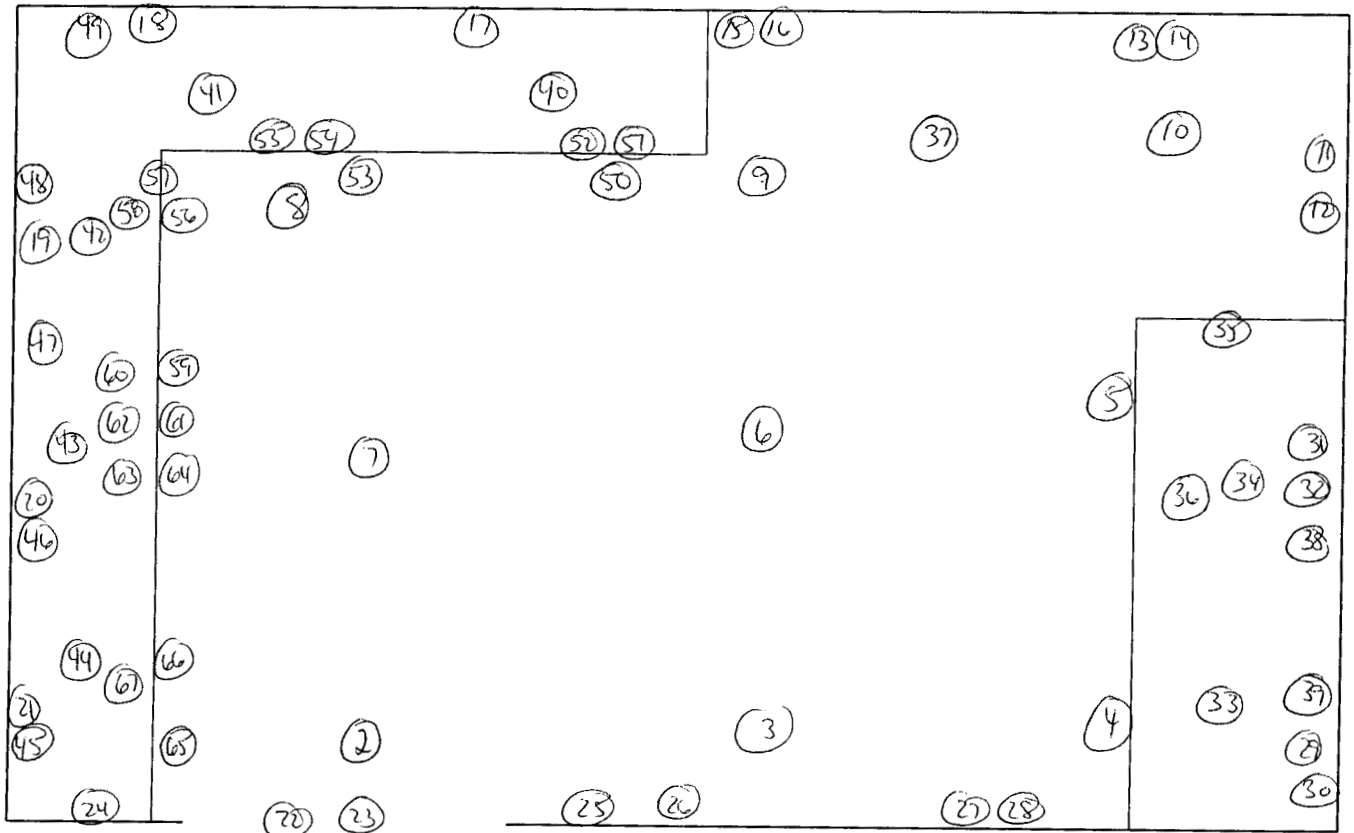
Survey Purpose: Decommissioning LMS 215 Date: 12/26/06

Performed By: DAVID BURKE 

Inst. No. 1 (Model/SN) Packard 1600TR #10325	Inst. No. 2 (Model/SN) Bicron μ rem LE #B466Y	Inst. No. 3 (Model/SN) Ludlum 2241-2 # 137751
Detector (Model/SN) Internal	Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-68 # 140899
Efficiency: See Printout	Efficiency: 100 % <u>MA</u>	Efficiency: <u>8% C-14</u>
Type Rad.: β	Type Rad.: γ	Type Rad.: <u>β</u>
Bkgd.: See #1 Below	Bkgd.: μ rem/hour	Bkgd.: <u>280 cpm</u>
Cal. Due: <u>1/9/07</u>	Cal. Due:	Cal. Due: <u>9/13/07</u>

Number	Time	Location	Inst. Used	H-3 (dpm/100 cm ²)	C-14 (dpm/100 cm ²)	P-32 (dpm/100 cm ²)
1	<u>0627</u>	Background	1	<u>26 cpm</u>	<u>10 cpm</u>	<u>5 cpm</u>
2		<u>Floor</u>	1	<u>8</u>	<u>0</u>	<u>10</u>
3		<u>Floor</u>	1	<u>0</u>	<u>0</u>	<u>0</u>
4		<u>Floor</u>	1	<u>0</u>	<u>0</u>	<u>0</u>
5		<u>Floor</u>	1	<u>0</u>	<u>5</u>	<u>0</u>
6		<u>Floor</u>	1	<u>928 21</u>	<u>9021 3</u>	<u>3</u>
7		<u>Floor</u>	1	<u>0</u>	<u>0</u>	<u>0</u>
8		<u>Floor</u>	1	<u>8</u>	<u>928 0</u>	<u>0</u>
9		<u>Floor</u>	1	<u>0</u>	<u>0</u>	<u>900 D</u>
10		<u>Floor</u>	1	<u>0</u>	<u>0</u>	<u>900 1</u>
11		<u>UPPER WALL</u>	1	<u>0</u>	<u>0</u>	<u>0</u>
12		<u>Lower WALL</u>	1	<u>902 1</u>	<u>2</u>	<u>0</u>
13		<u>UPPER WALL</u>	1	<u>0</u>	<u>0</u>	<u>0</u>
14		<u>Lower WALL</u>	1	<u>10</u>	<u>7</u>	<u>7</u>
15		<u>UPPER WALL</u>	1	<u>0</u>	<u>0</u>	<u>0</u>
16		<u>Lower WALL / SIDE CABINET</u>	1	<u>0</u>	<u>0</u>	<u>0</u>
17		<u>UPPER WALL</u>	1	<u>0</u>	<u>0</u>	<u>2</u>
18		<u>UPPER WALL</u>	1	<u>0</u>	<u>0</u>	<u>0</u>
19		<u>UPPER WALL</u>	1	<u>0</u>	<u>0</u>	<u>1</u>
20		<u>UPPER WALL</u>	1	<u>0</u>	<u>0</u>	<u>0</u>

Number	Time	Location	Inst. Used	H-3 (dpm/100 cm ²)	C-14 (dpm/100 cm ²)	P-32 (dpm/100 cm ²)
21		UPPER WALL	1	12	5	10
22		UPPER DOOR	1	15	9	2
23		LOWER DOOR	1	0	12	4
24		UPPER WALL	1	0	0	1
25		UPPER WALL LOWER WALL	1	0	0	0
26		LOWER WALL	1	0	0	0
27		UPPER WALL	1	0	9	8
28		LOWER WALL	1	5	18	11
29		UPPER WALL	1	0	0	1
30		LOWER WALL	1	0	2	11
31		UPPER WALL	1	4	0	4
32		LOWER WALL	1	0	1	0
33		Desk	1	1	5	1
34		TABLE	1	4	0	0
35		EQUIPMENT	1	6	0	4
36		EQUIPMENT	1	7	0	0
37		EQUIPMENT	1	0	0	0
38		WALL UNIT	1	0	0	0
39		WALL UNIT	1	0	0	0
40		COUNTER	1	0	0	0
41		COUNTER	1	0	0	0
42		COUNTER	1	0	0	7
43		COUNTER	1	0	0	0
44		COUNTER	1	0	0	0
45		WALL UNIT	1	0	0	1
46		WALL UNIT	1	0	0	0
47		WALL UNIT	1	0	0	1
48		WALL UNIT	1	0	0	0
49		WALL UNIT	1	0	0	3
50		FRONT OF CABINET	1	0	0	0
51	✓	DRINKER	1	0	0	0



60

O = WIPE LOCATION

Protocol #:11 Name:RAD DEPT 26-Dec-2006 08:54
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count

Conventional DPM

Nuclide 1 = 230269 Nuclide 2 = 117000

Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	10.00	26	10.49	4.80			67.153	996.	B
2	1.00	5	0.00	10.20	7.85	0.00	0.000	779.	E
3	1.00	0	0.00	0.00	0.00	0.00	0.000	903.	E
4	1.00	0	0.00	0.20	0.00	0.00	0.000	859.	E
5	1.00	0	0.00	0.00	0.00	0.00	0.000	000.	-

1st = 6 -

7	1.00	0	0.00	1.20	0.00	0.00	0.000	804.	E
8	1.00	5	0.09	0.00	8.17	0.00	38.524	862.	E
9	1.00	0	0.00	0.20	0.00	0.00	0.000	798.	E
10	1.00	0	0.00	1.20	0.00	0.00	0.000	852.	E
11	1.00	0	0.00	0.00	0.00	0.00	0.000	717.	E
12	1.00	1	1.51	0.00	0.50	1.85	0.000	804.	E
13	1.00	0	0.00	0.20	0.00	0.00	0.000	804.	E
14	1.00	7	5.94	7.20	10.12	6.97	69.929	839.	E
15	1.00	0	0.00	0.00	0.00	0.00	0.000	817.	E
16	1.00	0	0.00	0.00	0.00	0.00	0.000	837.	E
17	1.00	0	0.00	2.20	0.00	0.00	0.000	823.	E
18	1.00	0	0.00	0.20	0.00	0.00	0.000	883.	E
19	1.00	0	0.00	1.20	0.00	0.00	0.000	800.	E
20	1.00	0	0.00	0.00	0.00	0.00	0.000	1096	E
21	1.00	8	4.41	10.20	11.59	5.23	19.749	799.	E
22	1.00	11	8.51	2.20	14.63	9.19	132.04	973.	E
23	1.00	0	10.14	4.20	0.00	11.59	191.61	975.	E
24	1.00	0	0.00	1.20	0.00	0.00	0.000	950.	E
25	1.00	0	0.00	0.00	0.00	0.00	0.000	871.	E
26	1.00	0	0.00	0.00	0.00	0.00	0.000	839.	E
27	1.00	0	7.24	8.21	0.00	8.63	0.000	884.	E
28	1.00	6	14.51	11.20	4.80	17.74	90.936	808.	E
29	1.00	0	0.00	1.20	0.00	0.00	0.000	851.	E
30	1.00	0	1.73	11.20	0.00	1.97	1454.5	988.	E
31	1.00	3	0.00	4.20	4.05	0.00	0.000	945.	E
32	1.00	0	0.51	0.00	0.00	0.60	0.000	938.	E
33	1.00	1	4.72	1.20	1.11	5.44	64.492	928.	E
34	1.00	2	0.00	0.00	3.68	0.00	0.000	927.	E
35	1.00	4	0.00	4.20	6.31	0.00	0.000	948.	E
36	1.00	5	0.51	0.00	6.99	0.35	7.926	969.	E
37	1.00	0	0.00	0.00	0.00	0.00	0.000	905.	E
38	1.00	0	0.00	0.20	0.00	0.00	0.000	719.	E
39	1.00	0	0.00	0.20	0.00	0.00	0.000	848.	E
40	1.00	0	0.00	0.00	0.00	0.00	0.000	816.	E
41	1.00	0	0.00	0.00	0.00	0.00	0.000	839.	E
42	1.00	0	0.00	7.20	0.00	0.00	0.000	861.	E
43	1.00	0	0.00	0.00	0.00	0.00	0.000	741.	E
44	1.00	0	0.00	0.20	0.00	0.00	0.000	862.	E
45	1.00	0	0.00	1.20	0.00	0.00	0.000	781.	E
46	1.00	0	0.00	0.00	0.00	0.00	0.000	715.	E
47	1.00	0	0.00	1.20	0.00	0.00	0.000	784.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DFM2	SIS	tsIE	FLAG
48	1.00	0	0.00	0.00	0.00	0.00	0.000	845.	E
49	1.00	0	0.00	3.20	0.00	0.00	0.000	774.	E
50	1.00	0	0.00	0.00	0.00	0.00	0.000	927.	E
51	1.00	0	0.00	0.00	0.00	0.00	0.000	927.	E
52	1.00	0	0.00	0.00	0.00	0.00	0.000	846.	E
53	1.00	0	0.00	1.20	0.00	0.00	0.000	931.	E
54	1.00	0	0.00	0.20	0.00	0.00	0.000	885.	E
55	1.00	0	1.51	0.00	0.00	1.83	0.000	856.	E
56	1.00	0	0.00	0.00	0.00	0.00	0.000	931.	E
57	1.00	0	0.00	0.00	0.00	0.00	0.000	909.	E
58	1.00	0	0.00	0.00	0.00	0.00	0.000	863.	E
59	1.00	0	0.00	3.20	0.00	0.00	0.000	826.	E
60	1.00	0	0.00	0.20	0.00	0.00	0.000	961.	E
61	1.00	0	0.00	0.00	0.00	0.00	0.000	804.	E

63	1.00	0	0.00	0.00	0.00	0.00	0.000	843.	E
64	1.00	0	0.00	0.20	0.00	0.00	0.000	905.	E
65	1.00	0	0.00	0.00	0.00	0.00	0.000	893.	E
66	1.00	0	0.00	2.20	0.00	0.00	0.000	893.	E
67	1.00	0	0.00	2.20	0.00	0.00	0.000	854.	E
68	1.00	0	0.00	4.20	0.00	0.00	0.000	940.	E

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SURVEY FORM

Job Location: NEUTRON CORP BRANFORD CT Page: 1 of 12
 Survey Purpose: DECOMMISSIONING LAB OSS Date: 3-28-08
 Performed By: E. GALLER / DAVID DURICE *E. Galler*
Print Signature

Inst. No. 1 (Model/SN) <u>PACKARD 1600 TR # 901915</u>	Inst. No. 2 (Model/SN) <u>Ludlum 241-2 # 137757</u>	Inst. No. 3 (Model/SN) <u>Ludlum 3 # 114208</u>
Detector (Model/SN) <u>INTERNAL</u>	Detector (Model/SN) <u>Ludlum 43-68 # 146899</u>	Detector (Model/SN) <u>Ludlum⁴⁴⁻² 156898</u>
Efficiency: <u>40% 11-3/75% OTHERS</u>	Efficiency: <u>7.4% C-14</u>	Efficiency: <u>14% I-125</u>
Type Rad.: <u>B/B</u>	Type Rad.: <u>B</u>	Type Rad.: <u>B</u>
Bkgd.: <u>SEE # 18000</u>	Bkgd.: <u>280 cpm</u>	Bkgd.: <u>300 cpm</u>
Cal. Due: <u>12/3/08</u>	Cal. Due: <u>9/10/08</u>	Cal. Due: <u>5/11/08</u>

Number	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
1	0800	BACK GROUND	1	29 cpm	
2		DOOR & HANDLE	1	21	
3		FLOOR	1	35	
4		TOP SHELF	1	15	
5		BOTTOM SHELF	1	0	
6		TOP SHELF	1	11	
7		BOTTOM SHELF	1	24	
8		TOP SHELF	1	0	
9		BOTTOM SHELF	1	1	
10		TOP SHELF	1	3	
11		BOTTOM SHELF	1	15	
12		WALL	1	19	
13		WALL	1	24	
14		WALL	1	17	
15		WALL	1	16	
16		UPPER WALL	1	11	
17		LOWER WALL	1	0	
18		UPPER WALL	1	5	
19		LOWER WALL	1	11	
20	↓	BENCH	1	24	

Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
21	0800	BENCH	1	0	
22		BENCH	1	0	
23		BENCH	1	1	
24		OUTSIDE DRAWERS	1	0	
25		INSIDE TOP DRAWER	1	0	
26		INSIDE 2ND DRAWER	1	0	
27		INSIDE 3RD DRAWER	1	0	
28		INSIDE 4TH DRAWER	1	0	
29		OUTSIDE DRAWERS	1	0	
30		INSIDE TOP DRAWER	1	0	
31		INSIDE 2ND DRAWER	1	0	
32		INSIDE 3RD DRAWER	1	3	
33		INSIDE 4TH DRAWER	1	15	
34		OUTSIDE DRAWERS	1	3	
35		INSIDE TOP DRAWER	1	0	
36		INSIDE 2ND DRAWER	1	1	
37		INSIDE 3RD DRAWER	1	0	
38		INSIDE 4TH DRAWER	1	12	
39		OUTSIDE DRAWERS	1	0	
40		INSIDE TOP DRAWER	1	0	
41		INSIDE 2ND DRAWER	1	0	
42		INSIDE 3RD DRAWER	1	0	
43		INSIDE 4TH DRAWER	1	0	
44		OUTSIDE DRAWERS	1	0	
45		INSIDE TOP DRAWER	1	0	
46		INSIDE 2ND DRAWER	1	0	
47		INSIDE 3RD DRAWER	1	0	
48		INSIDE 4TH DRAWER	1	0	

Radiological Survey Continuation Sheet

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
49	0800	INSIDE 5TH DRAWER	1	0	
50		FLOOR	1	0	
51		FLOOR	1	0	
52		FLOOR	1	0	
53		FLOOR	1	0	
54		TOP SHELF OF CART	1	0	
55		BOTTOM SHELF OF CART	1	0	
56		LEFT SIDE OF HOOD	1	0	
57		BACK OF HOOD	1	0	
58		BACK OF HOOD	1	0	
59		BACK OF HOOD	1	0	
60		RIGHT SIDE OF HOOD	1	0	
61		HOOD	1	11	
62		HOOD	1	1	
63		HOOD	1	1	
64		HOOD LIP	1	0	
65		HOOD SASH	1	0	
66		HOOD LIP	1	0	
67		HOOD SASH	1	0	
68		OUTSIDE DOOR	1	11	
69		INSIDE CABINET	1	0	
70		OUTSIDE DOOR	1	7	
71		INSIDE CABINET	1	0	
72		OUTSIDE DOOR	1	8	
73		INSIDE CABINET	1	0	
74		OUTSIDE DOOR	1	1	
75		INSIDE CABINET	1	0	
76	✓	SHELF	1	4	

Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
77	0800	BENCH	1	0	
78		SHELF	1	0	
79		BENCH	1	1	
80		BENCH	1	0	
81		SHELF	1	0	
82		SHELF	1	0	
83		BENCH	1	0	
84		BENCH	1	0	
85		BENCH	1	0	
86		OUTSIDE DRAWERS	1	0	
87		INSIDE TOP DRAWER	1	0	
88		INSIDE 2ND DRAWER	1	0	
89		INSIDE 3RD DRAWER	1	0	
90		INSIDE 4TH DRAWER	1	0	
91		OUTSIDE DRAWERS	1	0	
92		INSIDE TOP DRAWER	1	0	
93		INSIDE 2ND DRAWER	1	0	
94		INSIDE 3RD DRAWER	1	1	
95		OUTSIDE DRAWERS	1	0	
96		INSIDE TOP DRAWER	1	0	
97		INSIDE 2ND DRAWER	1	0	
98		INSIDE 3RD DRAWER	1	0	
99		INSIDE 4TH DRAWER	1	0	
100		OUTSIDE DRAWERS	1	0	
101		INSIDE TOP DRAWER	1	0	
102		INSIDE 2ND DRAWER	1	0	
103		INSIDE 3RD DRAWER	1	0	
104		INSIDE 4TH DRAWER	1	3	

Radiological Survey Continuation Sheet

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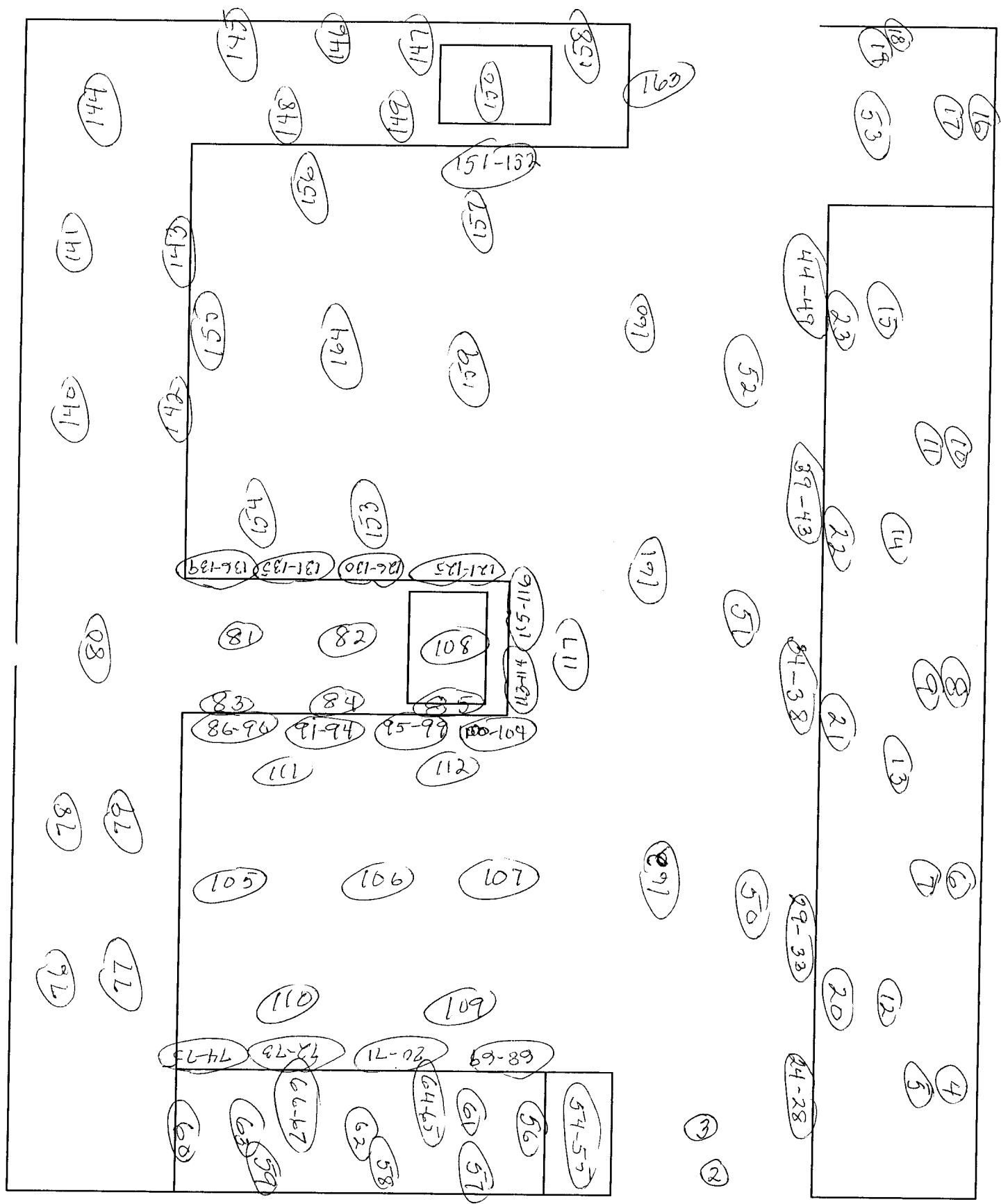
No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
105	0800	FLOOR	1	0	
106		FLOOR	1	0	
107		FLOOR	1	0	
108		INSIDE SINK	1	0	
109		FLOOR	1	0	
110		FLOOR	1	0	
111		FLOOR	1	0	
112		FLOOR	1	0	
113		CABINET door	1	0	
114		INSIDE CABINET	1	0	
115		CABINET door	1	0	
116		INSIDE CABINET	1	0	
117		FLOOR	1	0	
118		BENCH	1	0	
119		BENCH	1	0	
120		BENCH	1	0	
121		OUTSIDE DRAWERS	1	0	
122		INSIDE TOP DRAWER	1	0	
123		INSIDE 2ND DRAWER	1	0	
124		INSIDE 3RD DRAWER	1	0	
125		INSIDE 4TH DRAWER	1	0	
126		OUTSIDE DRAWERS	1	0	
127		INSIDE TOP DRAWER	1	0	
128		INSIDE 2ND DRAWER	1	11	
129		INSIDE 3RD DRAWER	1	0	
130		INSIDE 4TH DRAWER	1	0	
131		OUTSIDE DRAWERS	1	0	
132	↓	INSIDE TOP DRAWER	1	0	

Radiological Survey Continuation Sheet

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Date 3-28-08

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
133	0800	INSIDE 2ND DRAWER	1	0	
134		INSIDE 3RD DRAWER	1	0	
135		INSIDE 4TH DRAWER	1	0	
136		OUTSIDE DRAWERS	1	0	
137		INSIDE TOP DRAWER	1	0	
138		INSIDE 2ND DRAWER	1	0	
139		INSIDE 3RD DRAWER	1	0	
140		SHELF	1	0	
141		SHELF	1	0	
142		BENCH	1	0	
143		BENCH	1	0	
144		WALL	1	4	
145		WALL	1	0	
146		WALL	1	0	
147		WALL	1	0	
148		BENCH	1	0	
149		BENCH	1	0	
150		SINK AREA	1	0	
151		CABINET door	1	0	
152		INSIDE CABINET	1	0	
153		FLOOR	1	0	
154		FLOOR	1	0	
155		FLOOR	1	0	
156		FLOOR	1	0	
157		FLOOR	1	0	
158		WALL	1	0	
159		FLOOR	1	0	
160	↓	FLOOR	1	0	



BEHAVIOR
 Lab
 Room 055, Phi

Protocol #:11 Name:RAD DEPT 28-Mar-2008 09:40
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count

Conventional DPM

№ ide 1 = 230269 Nuclide 2 = 117000

Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	17	6.00	29.00	24.72	5.83	69.922	1004	E
2	1.00	33	6.89	45.00	49.16	5.98	41.931	997.	E
3	1.00	37	13.00	55.00	54.44	12.92	62.788	975.	E
4	1.00	32	5.00	40.00	48.27	4.02	29.107	977.	E
5	1.00	19	6.00	28.00	28.65	6.11	43.592	927.	E
6	1.00	21	6.00	37.00	31.67	5.95	55.878	937.	E
7	1.00	33	8.00	47.00	49.18	7.38	52.652	979.	E
8	1.00	16	7.00	29.00	23.13	7.08	44.800	992.	E
9	1.00	21	2.00	30.00	32.39	1.27	21.563	948.	E
10	1.00	23	3.00	31.00	34.79	2.20	32.841	979.	E
11	1.00	20	13.00	40.00	28.27	13.85	62.887	971.	E
12	1.00	24	9.00	43.00	36.06	9.48	57.731	913.	E
13	1.00	27	10.00	47.00	40.41	10.42	51.924	924.	E
14	1.00	27	8.00	42.00	39.55	7.54	57.276	1003	E
15	1.00	29	6.83	41.00	45.99	7.12	33.125	855.	E
16	1.00	26	7.00	37.00	38.87	6.70	43.481	964.	E
17	1.00	13	6.00	24.00	19.08	6.33	59.723	940.	E
18	1.00	22	5.00	33.00	32.77	4.51	46.783	984.	E
19	1.00	25	5.00	37.00	37.63	4.44	48.685	966.	E
20	1.00	30	11.89	47.00	43.68	11.80	56.213	997.	E
21	1.00	15	1.00	22.00	23.04	0.37	30.997	964.	E
22	1.00	7	8.00	23.00	9.24	9.17	86.349	897.	E
23	1.00	20	4.00	30.00	31.09	3.85	43.803	899.	E
24	1.00	14	5.00	25.00	20.83	5.10	59.638	945.	E
25	1.00	13	3.48	20.00	18.56	3.31	47.749	980.	E
26	1.00	16	1.00	21.00	24.60	0.32	21.266	963.	E
27	1.00	13	5.00	25.00	19.08	5.05	48.239	969.	E
28	1.00	18	8.00	29.00	26.71	8.56	70.743	917.	E

31	1.00	15	6.00	27.00	22.06	6.14	74.059	959.	E
32	1.00	17	7.00	31.00	25.06	7.26	83.326	948.	E
33	1.00	27	6.00	40.00	39.96	5.29	62.887	1001	E
34	1.00	19	9.00	32.00	27.81	9.50	77.327	943.	E
35	1.00	11	6.00	22.00	16.03	6.50	67.221	923.	E
36	1.00	12	13.00	30.00	16.05	15.15	76.013	864.	E
37	1.00	10	6.00	24.00	14.38	6.49	95.899	937.	E
38	1.00	21	9.00	38.00	30.83	9.34	63.237	952.	E
39	1.00	8	9.00	20.00	10.56	10.01	128.40	949.	E
40	1.00	11	4.00	21.00	16.27	4.05	56.175	957.	E
41	1.00	17	7.00	29.00	24.97	7.20	49.621	957.	E
42	1.00	9	4.00	18.00	13.17	4.16	38.520	956.	E
43	1.00	17	2.00	23.00	26.19	1.48	25.849	944.	E
44	1.00	5	5.00	18.00	6.80	5.78	69.336	873.	E
45	1.00	17	5.00	29.00	25.26	4.84	49.463	970.	E
46	1.00	12	4.00	17.00	17.76	3.97	39.824	967.	E
47	1.00	11	5.69	23.00	16.47	6.05	51.360	943.	E

S#	TIME	CPMA	CPMB	CPMC	DFM1	DFM2	SIS	tsIE	FLAG
48	1.00	12	5.00	21.00	17.52	5.10	49.189	972.	E
49	1.00	12	2.00	19.00	18.26	1.70	39.437	955.	E
50	1.00	19	4.63	28.00	29.31	4.41	42.064	945.	E
51	1.00	15	8.00	28.00	21.59	8.41	63.363	966.	E
52	1.00	13	3.00	21.00	19.64	2.81	77.140	951.	E
53	1.00	10	9.70	27.00	14.31	11.80	71.423	785.	E
54	1.00	15	8.00	24.00	21.98	8.73	80.948	912.	E
55	1.00	4	7.00	11.00	1.02	11.42	52.965	381.	
56	1.00	12	3.00	19.00	19.31	3.33	31.565	803.	E
57	1.00	7	4.00	13.00	10.36	4.55	123.29	859.	E
58	1.00	10	3.00	17.00	15.67	3.28	42.471	841.	E
59	1.00	13	4.00	21.00	20.38	4.39	39.275	837.	E
60	1.00	10	6.00	22.00	15.01	7.15	54.971	794.	E
61	1.00	23	10.00	37.00	34.19	10.68	69.216	916.	E
62	1.00	19	6.00	30.00	29.17	6.34	56.817	884.	E
63	1.00	23	5.00	30.00	34.61	4.55	72.798	965.	E
64	1.00	18	5.00	28.00	27.05	4.89	30.007	948.	E
65	1.00	14	4.00	19.00	21.50	4.13	71.244	895.	E
66	1.00	11	6.00	20.00	15.93	6.42	85.159	942.	E
67	1.00	12	7.00	28.00	17.45	7.70	72.225	910.	E
68	1.00	22	7.00	37.00	32.90	7.01	50.156	946.	E
69	1.00	16	4.00	25.00	27.06	4.98	24.717	688.	
70	1.00	19	11.00	34.00	27.11	11.59	107.16	974.	E
71	1.00	11	9.00	27.00	15.63	10.65	73.349	823.	E
72	1.00	25	6.00	35.00	37.68	5.66	52.706	954.	E
73	1.00	15	4.00	24.00	24.38	4.61	45.193	773.	E
74	1.00	16	9.00	30.00	23.13	9.68	54.570	939.	E
75	1.00	11	1.00	14.00	17.78	0.78	20.999	856.	E
76	1.00	20	8.00	32.00	29.40	8.19	61.678	960.	E
77	1.00	14	5.00	23.00	20.58	4.98	51.191	975.	E
78	1.00	18	3.00	26.00	28.12	2.75	42.800	899.	E
79	1.00	14	9.00	30.00	19.96	9.74	72.365	945.	E
80	1.00	15	6.00	27.00	22.45	6.37	62.977	913.	E
81	1.00	15	0.00	16.00	25.20	0.00	17.013	813.	E
82	1.00	9	5.00	18.00	13.17	5.50	94.695	905.	E
83	1.00	13	9.00	29.00	18.61	10.07	72.531	900.	E
84	1.00	12	5.00	20.00	17.90	5.32	64.955	914.	E

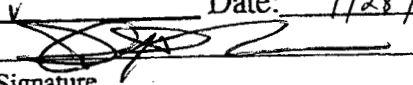
87	1.00	9	5.00	20.00	12.89	5.26	58.583	971.	E
88	1.00	17	3.00	21.00	25.84	2.60	35.069	955.	E
89	1.00	12	4.00	21.00	18.23	4.19	63.899	902.	E
90	1.00	15	2.00	22.00	23.41	1.66	27.285	913.	E
91	1.00	11	3.00	17.00	16.52	2.91	58.239	952.	E
92	1.00	9	4.00	17.00	13.28	4.23	81.361	931.	E
93	1.00	14	4.00	22.00	21.10	3.96	66.073	939.	E
94	1.00	14	10.00	30.00	19.87	11.07	93.558	920.	E
95	1.00	11	3.00	19.00	16.52	2.91	47.233	952.	E
96	1.00	10	4.00	18.00	14.77	4.13	68.442	948.	E
97	1.00	13	5.00	21.00	19.27	5.15	89.791	944.	E
98	1.00	8	6.00	19.00	11.23	6.57	66.607	941.	E
99	1.00	10	5.00	20.00	14.76	5.44	57.138	907.	E
100	1.00	17	7.00	29.00	24.87	7.14	81.721	969.	E
101	1.00	17	3.00	23.00	25.85	2.60	41.569	954.	E
102	1.00	10	7.00	20.00	14.11	7.59	90.730	952.	E
103	1.00	10	8.00	25.00	13.90	8.76	99.153	949.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
104	1.00	14	11.00	31.00	19.63	12.24	68.245	920.	E
105	1.00	10	3.85	20.00	15.04	4.09	40.742	907.	E
106	1.00	13	8.00	27.00	18.52	8.54	47.921	961.	E
107	1.00	16	2.00	25.00	24.59	1.52	24.343	947.	E
108	1.00	19	1.00	25.00	29.34	0.18	40.632	958.	E
109	1.00	16	2.00	25.00	25.12	1.64	42.176	903.	E
110	1.00	13	3.00	18.00	19.96	2.92	35.410	915.	E
111	1.00	12	4.00	19.00	18.01	4.09	38.841	931.	E
112	1.00	12	3.00	21.00	18.34	2.96	52.537	919.	E
113	1.00	16	6.00	28.00	23.53	6.05	60.260	968.	E
114	1.00	10	6.00	19.00	14.70	6.81	60.990	864.	E
115	1.00	4	5.00	13.00	5.18	5.63	123.76	934.	E
116	1.00	12	3.13	21.00	18.24	3.18	41.302	900.	E
117	1.00	7	4.00	14.00	10.64	4.83	73.684	772.	E
118	1.00	13	2.79	24.00	19.93	2.65	50.718	924.	E
119	1.00	16	6.00	24.00	23.84	6.21	56.394	934.	E
120	1.00	16	2.06	24.00	24.30	1.55	27.196	962.	E
121	1.00	12	4.00	22.00	17.90	4.03	61.492	947.	E
122	1.00	14	3.00	22.00	21.62	2.90	27.474	909.	E
123	1.00	13	3.00	21.00	19.64	2.81	46.645	952.	E
124	1.00	10	9.57	26.00	14.38	10.92	59.465	889.	E
125	1.00	12	2.00	16.00	18.32	1.71	28.890	949.	E
126	1.00	11	3.00	18.00	16.46	2.89	53.080	960.	E
127	1.00	8	4.00	19.00	11.63	4.22	76.505	951.	E
128	1.00	21	9.06	37.00	30.95	9.55	65.805	933.	E
129	1.00	15	2.00	24.00	23.20	1.61	20.015	931.	E
130	1.00	14	5.00	23.00	20.99	5.18	62.173	925.	E
131	1.00	8	3.00	18.00	12.05	3.17	82.876	907.	E
132	1.00	13	1.00	19.00	20.11	0.51	38.979	948.	E
133	1.00	14	5.00	21.00	20.99	5.18	58.033	926.	E
134	1.00	18	1.00	23.00	28.05	0.28	26.187	938.	E
135	1.00	6	5.00	17.00	8.36	5.60	76.456	915.	E
136	1.00	5	4.00	9.00	6.95	4.38	67.053	948.	E
137	1.00	16	5.00	24.00	24.11	5.07	49.755	930.	E
138	1.00	11	4.97	19.00	16.24	5.26	41.529	935.	E
139	1.00	14	3.00	22.00	21.60	2.89	32.855	910.	E
140	1.00	13	5.00	22.00	19.65	5.37	73.295	893.	E

S#	TIME	CPMA	CPMB	CPMC	DFM1	DFM2	SIS	tSIE	FLAG
143	1.00	12	5.00	19.00	18.07	5.43	54.570	889.	E
144	1.00	13	11.00	32.00	18.01	12.20	81.253	932.	E
145	1.00	13	4.00	22.00	19.46	3.98	32.383	947.	E
146	1.00	11	9.00	24.00	15.32	9.99	81.775	927.	E
147	1.00	10	12.00	29.00	13.05	13.51	103.01	932.	E
148	1.00	9	4.00	17.00	13.29	4.23	60.867	931.	E
149	1.00	11	4.35	17.00	15.85	4.59	56.068	924.	E
150	1.00	16	7.00	25.00	24.46	7.93	41.521	839.	E
151	1.00	13	4.00	22.00	19.86	4.16	50.321	898.	E
152	1.00	16	4.00	24.00	25.46	4.33	39.483	828.	E
153	1.00	9	2.00	16.00	14.21	2.06	38.082	857.	E
154	1.00	10	3.00	17.00	15.08	3.02	39.755	932.	E
155	1.00	13	2.00	18.00	20.19	1.74	42.051	916.	E
156	1.00	13	1.40	20.00	19.36	0.98	40.125	952.	E
157	1.00	14	3.00	20.00	22.86	3.33	30.023	787.	E
158	1.00	12	3.00	19.00	18.25	2.93	43.335	930.	E
159	1.00	9	5.00	16.00	13.78	6.08	55.258	761.	E

S#	TIME	CPMA	CPMB	CPMC	DFM1	DFM2	SIS	tSIE	FLAG
160	1.00	11	8.00	21.00	15.67	9.01	76.280	894.	E
161	1.00	17	7.00	25.00	25.52	7.53	53.232	899.	E
162	1.00	10	6.00	20.00	14.67	6.78	70.520	872.	E
163	1.00	10	6.00	20.00	14.55	6.66	91.886	899.	E
164	1.00	12	6.00	23.00	17.63	6.47	64.289	920.	E

SURVEY FORM

Job Location: NOVAGEN Corp Birmfild, CT Page: 1 of 10
 Survey Purpose: Decontamination LAB 662 / Phase V Date: 4/28/08
 Performed By: DAVID DURKEE 
Print Signature

Inst. No. 1 (Model/SN) #401915 <u>PACKARD 600 TR #163250p</u>	Inst. No. 2 (Model/SN) <u>Ludlum 2241-2 #137757</u>	Inst. No. 3 (Model/SN) <u>Ludlum 3 #114208</u>
Detector (Model/SN) <u>INTERNAL</u>	Detector (Model/SN) <u>Ludlum 43-68 #140899</u>	Detector (Model/SN) <u>Ludlum 24-21 #156898</u>
Efficiency: <u>40% H-3 / 75% OTHERS</u>	Efficiency: <u>7.4% C-14</u>	Efficiency: <u>14% I-125</u>
Type Rad.: <u>β</u>	Type Rad.: <u>β</u>	Type Rad.: <u>γ</u>
Bkgd.: <u>SEE #1 Below</u>	Bkgd.: <u>280 cpm</u>	Bkgd.: <u>300 cpm</u>
Cal. Due: <u>12/3/08</u>	Cal. Due: <u>9/10/08</u>	Cal. Due: <u>02/26/09 5/17/08</u>

Number	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
1	1230	Background	1	23 cpm	
2	↓	Sink	1	0	
3		Counter	1	0	
4		Counter	1	0	
5		Counter	1	5	
6		Counter	1	0	
7		Counter	1	0	
8		Counter	1	1	
9		Counter	1	0	
10		Front of Hood	1	0	
11		Hood Sash Out	1	0	
12		Hood Base	1	0	
13		Hood Sash In	1	0	
14		Inside Hood Rt	1	0	
15		" Back	1	0	
16		" Left	1	0	
17		" Top	1	0	
18		Hood Counter Rt	1	5	
19		Hood Counter Left	1	0	
20		Faucet	1	11	

Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
21		Upper Door	1	11	
22		Lower Door	1	4	
23		Upper Wall	1	0	
24		Lower wall	1	0	
25		Upper wall	1	0	
26		Lower wall	1	0	
27		Upper Wall	1	0	
28		Lower wall	1	0	
29		Upper wall	1	0	
30		Lower Wall	1	0	
31		Upper wall	1	0	
32		Lower Wall	1	0	
33		Upper wall	1	0	
34		Lower Wall	1	0	
35		Upper wall	1	0	
36		Lower wall	1	0	
37		Lower Wall	1	0	
38		Upper wall	1	0	
39		Upper Wall	1	0	
40		Upper Wall	1	0	
41		Upper Wall	1	0	
42		Upper Wall	1	112	✓ SEE # 118
43		Upper Wall	1	5	
44		Upper Wall	1	0	
45		Upper Wall	1	5	
46		Upper Wall	1	0	
47		Upper wall	1	0	
48	↓	Lower Wall	1	0	

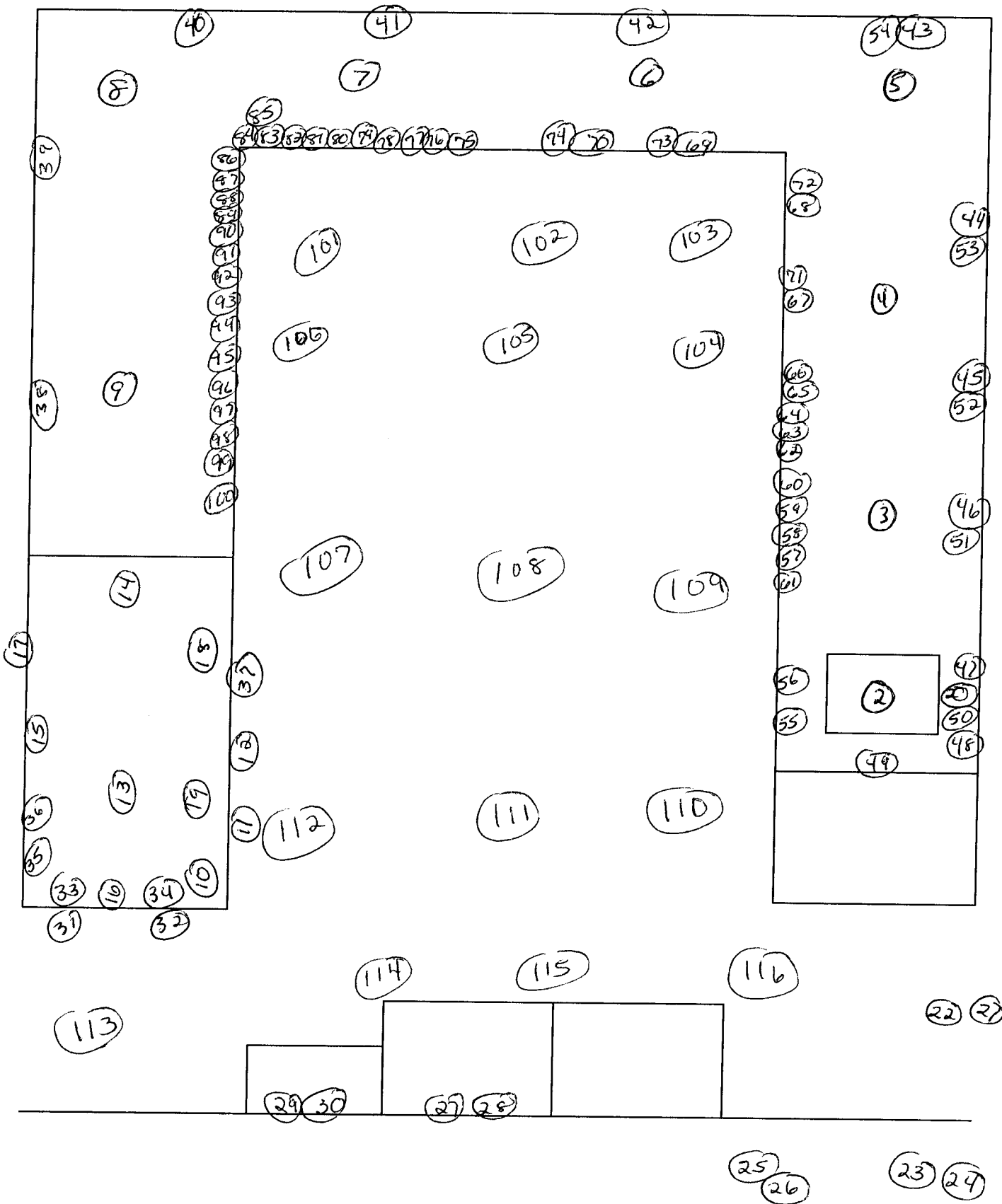
Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
49		Side of Cabinet	1	0	
50		Wall Unit	1	0	
51		Wall Unit	1	0	
52		Wall Unit	1	3	
53		Wall Unit	1	0	
54		Wall Unit	1	0	
55		Outside Cabinet	1	0	
56		Inside Cabinet	1	0	
57		Outside Drawers	1	8	
58		Top Drawer	1	0	
59		Drawer	1	0	
60		Drawer	1	0	
61		Bottom Drawer	1	0	
62		Front of Drawers	1	0	
63		Top Drawer	1	0	
64		Drawer	1	5	
65		Drawer	1	0	
66		Bottom Drawer	1	0	
67		Drawer	1	1	
68		Drawer	1	0	
69		Drawer	1	0	
70		Drawer	1	5	
71		Cubby	1	0	
72		Cubby	1	0	
73		Cubby	1	0	
74		Cubby	1	0	
75		Front of Drawers	1	3	
76	↓	Top Drawer	1	0	

Radiological Survey Continuation Sheet

Page 4 of 10Date 4/28/09

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
77		Bottom Drawer	1	0	
78		Front of Drawers	1	7	
79		Top Drawer	1	24	
80		Drawer Drawer	1	0	
81		Bottom Drawer	1	3	
82		Front of Drawers	1	0	
83		Top Drawer	1	1	
84		Drawer	1	0	
85		Bottom Drawer	1	0	
86		Front of Drawers	1	0	
87		Top Drawer	1	0	
88		Drawer	1	0	
89		Drawer	1	0	
90		Bottom Drawer	1	0	
91		Front of Drawers	1	0	
92		Top Drawer	1	0	
93		Drawer	1	0	
94		Drawer	1	0	
95		Bottom Drawer	1	0	
96		Front of Drawers	1	0	
97		Top Drawer	1	0	
98		Drawer	1	0	
99		Drawer	1	0	
100		Bottom Drawer	1	0	
101		Floor	1	0	
102		Floor	1	0	
103		Floor	1	3	
104		Floor	1	0	



DRUG METABOLISM
Workroom
Room 662, PhV

Region A: LL-UL= 0.0-18.6 Ler= 0 Bkg= 0.00 %2 Sigma=0.00

Region B: LL-UL=18.6-156. Ler= 0 Bkg= 0.00 %2 Sigma=0.00

Region C: LL-UL= 0.0-2000 Ler= 0 Bkg= 0.00 %2 Sigma=0.00

Time = 1.00 QIP = tSIE/AEC ES Terminator = Count

Conventional DPM

Nuclide 1 = 230269 Nuclide 2 = 117000

Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	11	7.00	23.00	17.04	9.19	56.086	632.	
2	1.00	8	4.66	16.00	13.41	6.22	38.386	597.	
3	1.00	6	3.00	12.00	9.86	4.01	52.073	592.	
4	1.00	9	7.00	23.00	13.35	9.24	80.952	622.	
5	1.00	11	9.00	27.00	16.36	12.33	45.582	560.	
6	1.00	4	7.75	16.00	2.73	11.51	60.188	459.	
7	1.00	10	6.00	22.00	16.51	8.46	48.652	517.	
8	1.00	7	11.00	24.00	6.96	15.55	76.474	517.	
9	1.00	11	4.00	15.00	19.72	5.58	36.915	530.	
10	1.00	7	1.00	12.00	12.88	1.31	32.702	587.	
11	1.00	3	6.00	13.00	2.39	8.24	65.092	559.	
12	1.00	3	6.00	12.00	1.27	9.02	62.238	446.	
13	1.00	9	2.00	15.00	16.00	2.62	43.481	603.	
14	1.00	6	6.00	15.00	8.25	7.94	60.188	622.	
15	1.00	8	2.00	17.00	14.04	2.62	29.853	610.	
16	1.00	2	8.00	10.00	0.00	10.72	85.547	603.	
17	1.00	8	2.00	12.00	14.02	2.61	26.964	612.	
18	1.00	13	7.00	27.00	21.33	9.50	64.280	570.	
19	1.00	6	5.00	14.00	8.82	6.76	38.666	580.	
20	1.00	17	7.48	31.00	27.41	9.93	46.946	602.	
21	1.00	13	10.00	31.00	19.47	13.36	54.430	598.	
22	1.00	11	9.00	26.00	16.06	11.81	77.682	637.	
23	1.00	9	5.00	19.00	14.51	6.68	48.494	594.	
24	1.00	11	7.00	22.00	17.26	9.36	49.042	595.	
25	1.00	6	11.00	19.00	4.62	15.77	59.574	499.	
26	1.00	5	5.00	13.00	6.91	6.95	55.694	539.	
27	1.00	9	5.00	19.00	14.33	6.58	44.825	624.	
28	1.00	5	8.00	15.00	5.33	10.71	57.286	601.	
29	1.00	8	8.00	22.00	11.02	10.71	72.827	598.	
30	1.00	7	11.00	20.00	7.62	14.65	94.695	612.	
31	1.00	8	1.00	13.00	14.40	1.26	28.890	626.	
32	1.00	5	4.00	17.00	7.40	5.34	54.927	600.	
33	1.00	4	10.00	16.00	2.34	13.46	72.340	593.	
34	1.00	10	6.00	20.00	15.70	7.89	31.398	625.	
35	1.00	12	6.20	20.00	19.06	8.20	50.557	610.	
36	1.00	10	9.00	22.00	14.24	11.92	53.134	618.	
37	1.00	13	3.90	22.00	22.97	5.20	39.747	589.	
38	1.00	6	5.00	16.00	8.84	6.79	52.235	573.	
39	1.00	4	4.00	13.00	5.52	5.66	80.250	515.	
40	1.00	7	6.45	18.00	9.10	9.21	33.705	503.	
41	1.00	11	5.88	22.00	18.83	8.27	42.485	522.	
42	1.00	32	70.20	107.00	17.78	99.34	80.376	516.	
43	1.00	15	6.00	27.00	26.36	8.31	47.462	539.	
44	1.00	8	8.00	18.00	11.05	11.14	47.548	537.	
45	1.00	15	7.61	27.00	25.24	10.14	45.777	598.	
46	1.00	4	4.00	12.00	5.51	5.38	72.225	591.	
47	1.00	7	6.00	17.00	10.23	8.18	40.619	567.	

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
48	1.00	9	3.00	21.00	15.51	3.97	54.169	600.	
49	1.00	10	5.00	20.00	16.35	6.64	66.233	602.	
50	1.00	6	7.55	17.00	8.08	10.81	66.378	500.	
51	1.00	6	2.00	12.00	11.25	2.88	23.072	491.	
52	1.00	12	6.00	25.00	21.06	8.68	44.851	486.	
53	1.00	9	4.00	16.00	15.47	5.51	42.100	548.	
54	1.00	8	5.76	17.00	13.16	8.30	50.214	492.	
55	1.00	10	6.00	21.00	15.82	7.98	41.128	604.	
56	1.00	9	5.00	17.00	14.71	6.80	66.493	567.	
57	1.00	13	10.00	29.00	19.59	13.53	67.131	578.	
58	1.00	10	4.12	18.00	16.77	5.54	60.073	581.	
59	1.00	11	8.00	23.00	16.63	10.60	65.214	613.	
60	1.00	6	4.00	16.00	9.21	5.26	69.496	628.	
61	1.00	7	5.00	17.00	10.64	6.64	26.349	610.	
62	1.00	11	5.72	21.00	18.52	7.65	34.555	590.	
63	1.00	6	6.00	20.00	8.26	8.03	82.122	599.	
64	1.00	12	10.00	27.00	17.53	13.30	47.712	608.	
65	1.00	5	6.00	15.00	6.36	8.06	55.591	593.	
66	1.00	10	2.00	19.00	17.87	2.61	44.004	604.	
67	1.00	12	9.85	24.00	17.97	13.23	55.591	590.	
68	1.00	9	5.64	19.00	14.85	7.52	50.504	598.	
69	1.00	7	4.00	13.00	11.32	5.41	31.662	577.	
70	1.00	8	13.00	27.00	5.85	19.75	80.479	436.	
71	1.00	10	3.00	16.00	17.52	3.99	29.384	590.	
72	1.00	13	3.00	21.00	23.15	3.96	35.912	596.	
73	1.00	6	8.00	15.00	7.16	10.89	80.709	572.	
74	1.00	8	6.00	15.00	12.06	8.01	65.117	600.	
75	1.00	15	3.00	25.00	26.60	3.89	35.488	616.	
76	1.00	7	3.00	12.00	11.75	4.00	56.175	595.	
77	1.00	6	5.00	20.00	8.93	6.98	49.171	533.	
78	1.00	19	5.00	28.00	33.33	6.57	28.756	605.	
79	1.00	24	13.00	41.00	39.12	17.51	46.285	581.	
80	1.00	7	5.00	17.00	10.72	6.72	49.086	588.	
81	1.00	12	5.59	25.00	20.91	7.55	31.565	575.	
82	1.00	5	6.00	14.00	6.36	8.07	89.150	591.	
83	1.00	5	12.00	24.00	3.19	16.15	67.410	594.	
84	1.00	11	9.00	22.00	16.11	11.90	43.255	620.	
85	1.00	3	6.00	13.00	2.41	8.22	63.308	563.	
86	1.00	9	2.00	16.00	16.18	2.65	47.858	587.	
87	1.00	3	8.00	17.00	1.48	10.78	91.339	592.	
88	1.00	7	4.00	18.00	11.20	5.33	45.815	600.	
89	1.00	8	5.00	16.00	12.85	6.88	38.520	552.	
90	1.00	13	6.00	21.00	21.91	8.14	35.934	569.	
91	1.00	11	5.00	20.00	18.70	6.83	41.830	559.	
92	1.00	7	6.00	13.00	10.16	8.03	52.718	598.	
93	1.00	8	7.00	19.00	11.51	9.31	65.270	609.	
94	1.00	6	6.00	22.00	8.27	8.05	63.531	594.	
95	1.00	8	6.00	21.00	12.19	8.18	58.124	566.	
96	1.00	6	9.00	16.00	6.72	12.03	58.208	603.	
97	1.00	11	5.66	22.00	18.59	7.55	44.185	597.	
98	1.00	2	6.00	13.00	0.51	8.18	87.473	572.	
99	1.00	9	12.00	23.00	10.65	16.52	59.844	555.	
100	1.00	6	3.00	14.00	9.92	4.04	35.845	581.	
101	1.00	11	9.00	23.00	16.44	12.49	40.045	541.	
102	1.00	8	10.96	19.82	9.52	14.78	67.832	587.	
103	1.00	14	7.00	25.00	23.22	9.46	48.761	575.	

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S#	TIME	CPMA	CPMB	CPMC	DFM1	DPM2	SIS	tSIE	FLAG
104	1.00	5	7.00	15.00	5.76	9.57	56.710	565.	
105	1.00	6	7.00	19.00	7.72	9.50	73.583	576.	
106	1.00	14	6.20	23.00	23.72	8.55	47.267	545.	
107	1.00	5	3.00	10.00	8.17	4.17	44.940	537.	
108	1.00	8	9.00	22.00	10.48	12.23	51.926	574.	
109	1.00	8	8.00	21.00	11.03	10.82	63.899	581.	
110	1.00	10	8.00	22.00	14.84	10.73	52.252	593.	
111	1.00	9	3.00	18.00	15.87	4.07	30.629	565.	
112	1.00	3	1.00	8.00	5.28	1.35	50.156	568.	
113	1.00	4	11.00	21.00	1.18	15.29	92.020	541.	
114	1.00	9	5.00	19.00	14.73	6.82	27.285	564.	
115	1.00	8	4.50	19.00	15.18	6.85	36.174	434.	
116	1.00	32	5.00	40.00	62.14	6.96	22.383	522.	
(1 missing vial)									
118	1.00	50	6.00	59.00	92.43	7.81	20.550	589.	
119	1.00	70	8.29	82.00	127.16	10.59	28.952	608.	
120	1.00	255	12.00	272.00	491.32	15.26	15.377	566.	
121	1.00	16	8.00	28.00	26.41	10.76	34.106	583.	
122	1.00	12	3.00	19.00	21.19	3.95	30.067	601.	
123	1.00	7	8.00	16.00	9.14	10.56	58.422	630.	
124	1.00	4	6.00	14.00	4.45	8.07	93.411	594.	
125	1.00	11	5.00	18.00	18.28	6.64	46.244	600.	
126	1.00	10	7.00	19.00	15.28	9.30	32.194	608.	
127	1.00	5	6.00	19.00	6.32	8.22	54.424	560.	
128	1.00	13	6.00	25.00	22.00	8.18	49.839	563.	
129	1.00	16	5.00	24.00	27.79	6.62	31.565	597.	
130	1.00	7	7.00	16.00	9.67	9.62	62.022	556.	
131	1.00	14	9.00	26.00	22.12	12.20	58.897	574.	
132	1.00	4	3.00	15.00	6.28	4.41	50.672	468.	
133	1.00	11	5.00	20.00	18.46	6.73	36.714	580.	
134	1.00	8	2.77	15.00	14.94	3.87	28.160	526.	
135	1.00	18	32.61	59.00	17.52	44.24	72.131	578.	
136	1.00	68	6.21	82.00	124.40	7.81	23.294	610.	
137	1.00	8	4.00	17.00	13.10	5.33	44.405	599.	
138	1.00	14	4.65	22.00	24.84	6.17	30.833	597.	
139	1.00	5	4.00	9.00	7.42	5.37	64.378	590.	
140	1.00	8	5.00	14.00	12.73	6.78	56.916	572.	
141	1.00	5	13.00	21.00	3.03	17.20	79.269	632.	
142	1.00	9	10.00	19.00	11.87	13.51	43.926	583.	
143	1.00	12	4.00	19.00	20.74	5.31	47.749	595.	
144	1.00	11	7.00	22.00	17.25	9.35	42.533	596.	

Nuclide 1 = 230269 Nuclide 2 = 117000

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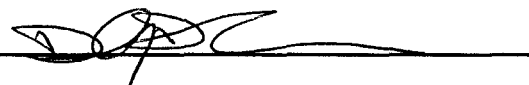
Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
117 1	1.00	35	11.00	51.00	60.69	14.56	35.031	599.	
118 2	1.00	9	4.00	17.00	15.40	5.48	70.867	555.	

Job Location: Neurogen Corp. Branford, CT Page: 1 of 7

Survey Purpose: Decommissioning Cold Room Room 335 / PH III Date: 6/13/08

Performed By: David J. Durkee



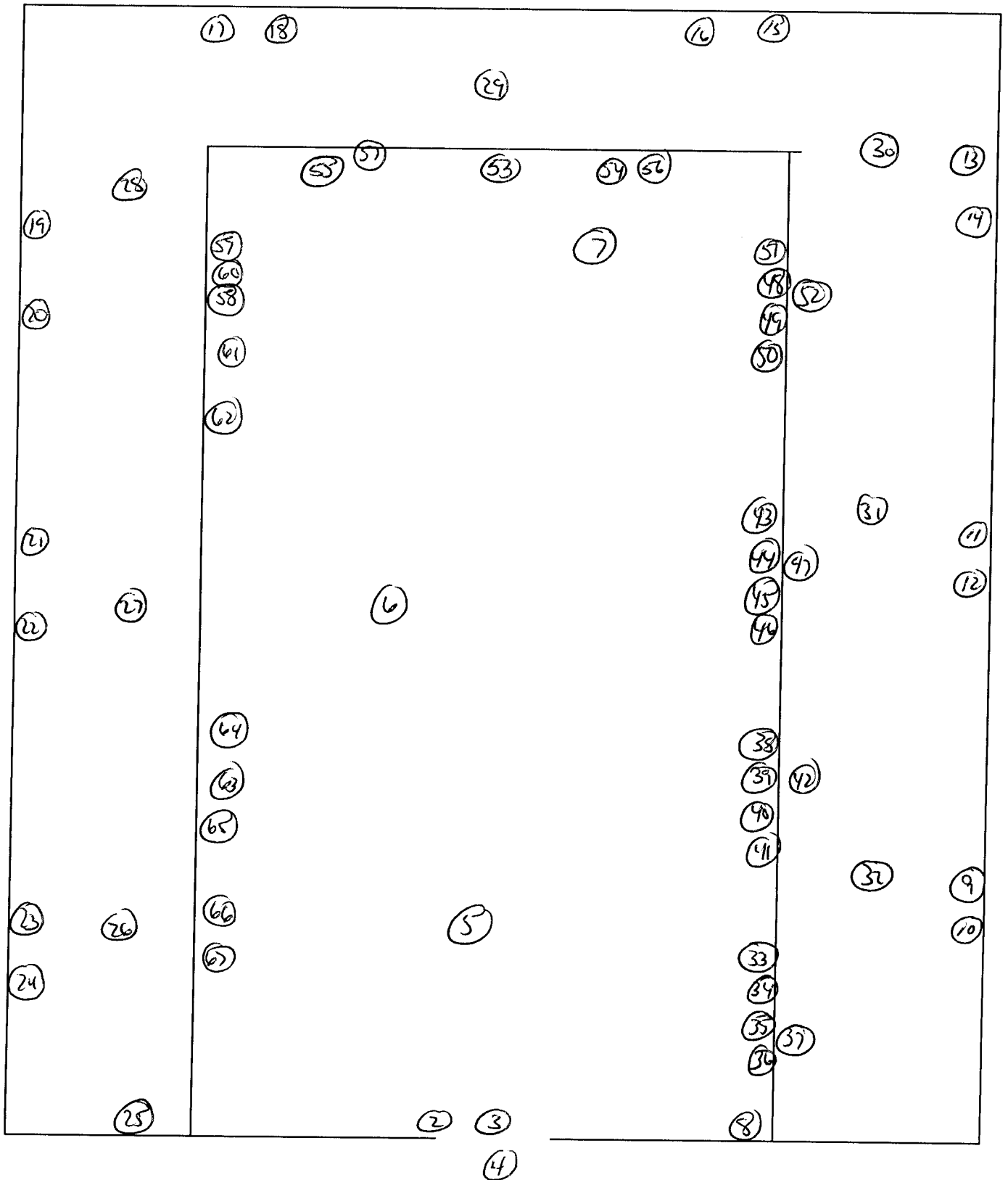
Inst. No. 1 (Model/SN) # Packard 1600TR #10325 401915	Inst. No. 2 (Model/SN) Ludlum 2241-2 # 137751	Inst. No. 3 (Model/SN) Ludlum 3 # 114208
Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-63 # 140899	Detector (Model/SN) Ludlum 44-21 # 156898
Efficiency: ^{40% H-3} See Printout / 75% gamma	Efficiency: 7.4 % C-14	Efficiency: 16% I-125
Type Rad.: β	Type Rad.: β	Type Rad.: γ
Bkgd.: See #1 Below	Bkgd.: 300 cpm	Bkgd.: 300 cpm
Cal. Due: 12/3/08	Cal. Due: 9/10/08	Cal. Due: 5/20/09

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	0950	Background	1	29 Cpm	
2		UPPER DOOR	1	9	
3		LOWER DOOR	1	11	
4		DOOR HANDLE	1	0	
5		FLOOR	1	0	
6		FLOOR	1	0	
7		FLOOR	1	15	
8		UPPER WALL	1	1	
9		UPPER WALL	1	0	
10		SHELVES	1	5	
11		SHELVES	1	27	
12		UPPER WALL	1	0	
13		UPPER WALL	1	0	
14		SHELVES	1	0	
15		UPPER WALL	1	13	
16		SHELVES	1	0	
17		SHELVES	1	0	
18		UPPER WALL	1	0	
19		UPPER WALL	1	51	
20	✓	SHELVES	1	57	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		SHERES	1	8	
22		UPPER WALL	1	9	
23		UPPER WALL	1	4	
24		SHERES	1	91	✓ SEE # 69
25		UPPER WALL	1	23	
26		COUNTER	1	44	
27		COUNTER	1	0	
28		COUNTER	1	1	
29		COUNTER	1	13	
30		COUNTER	1	4	
31		COUNTER	1	0	
32		COUNTER	1	12	
33		FRONT OF DRAWERS	1	8	
34		TOP DRAWER	1	4	
35		DRAWER	1	15	
36		DRAWER	1	0	
37		BOTTOM DRAWER	1	19	
38		FRONT OF DRAWERS	1	19	
39		TOP DRAWER	1	0	
40		DRAWER	1 1	0	
41		DRAWER	1	0	
42		BOTTOM DRAWER	1	8	
43		FRONT OF DRAWERS	1	5	
44		TOP DRAWER	1	3	
45		DRAWER	1	9	
46		DRAWER	1	5	
47		BOTTOM DRAWER	1	0	
48		FRONT OF DRAWERS	1	0	
49		TOP DRAWER	1	0	
50		DRAWER	1	0	
51	✓	DRAWER	1	3	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		Bottom Drawer	1	0	
53		Front of Cabinet	1	0	
54		Right Drawer	1	0	
55		Left Drawer	1	0	
56		Right Cabinet	1	4	
57		Left Cabinet	1	0	
58		Front of Cabinet	1	4	
59		Right Drawer	1	0	
60		Cabinet	1	16	
61		Left Drawer	1	0	
62		Cabinet	1	1	
63		Front of Cabinet	1	3	
64		Right Drawer	1	0	
65		Cabinet	1	0	
66		Left Drawer	1	0	
67		Cabinet	1	5	
68	0900 1230p	Background	1	28.68cpm	
69		Post Area # 24	1	98 33	
70			1		
71			1		
72			1		
73			1		
74			1		
75			1		
76			1		
77			1		
78			1		
79			1		
80			1		
81			1		
82			1		

7/28/08



COLD ROOM
Room 335, PhIII

Protocol #:11 Name:RAD DEPT 13-Jun-2008 10:09
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 T_{1/2} = 1.00 QIP = tSIE/AEC ES Terminator = Count

Conventional DPM
 Nuclide 1 = 230269 Nuclide 2 = 117000
 Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	45	20.00	75.00	46.03	20.91	70.250	940.	E
2	1.00	17	6.00	36.00	26.38	6.66	57.012	841.	E
3	1.00	19	6.00	37.00	28.71	6.13	53.800	922.	E
4	1.00	22	6.00	29.00	33.96	6.19	33.762	888.	E
5	1.00	16	8.00	29.00	24.02	9.03	59.251	857.	E
6	1.00	10	4.00	23.00	15.53	4.58	78.989	817.	E
7	1.00	23	7.00	40.00	35.45	7.40	45.796	879.	E
8	1.00	11	6.00	30.00	16.02	6.50	93.373	925.	E
9	1.00	17	5.00	28.00	26.34	5.30	43.992	871.	E
10	1.00	14	11.00	33.00	19.78	12.50	80.122	886.	E
11	1.00	28	3.85	49.00	46.12	3.82	30.846	812.	E
12	1.00	14	5.00	26.00	21.52	5.46	69.944	863.	E
13	1.00	8	6.00	19.00	11.38	6.81	80.479	884.	E
14	1.00	15	4.12	28.00	22.82	4.21	61.074	901.	E
15	1.00	22	6.40	39.00	33.51	6.82	41.157	866.	E
16	1.00	17	5.00	28.00	25.76	5.05	70.693	923.	E
17	1.00	9	3.00	19.00	13.57	3.09	85.199	921.	E
18	1.00	12	3.00	23.00	18.53	3.03	60.134	896.	E
19	1.00	41	8.81	67.00	64.36	8.76	49.427	882.	E
20	1.00	32	22.00	72.00	46.00	24.80	77.486	888.	E
21	1.00	20	11.00	35.00	29.90	12.63	67.151	840.	E
22	1.00	25	3.03	36.00	39.20	2.46	40.698	903.	E
23	1.00	22	3.01	32.00	34.90	2.68	27.734	877.	E
24	1.00	40	28.14	97.00	57.32	32.05	73.783	873.	E
25	1.00	28	9.00	46.00	42.62	9.38	66.109	902.	E
26	1.00	44	9.00	62.00	69.48	9.07	49.149	863.	E
27	1.00	16	4.00	26.00	24.63	4.01	44.940	902.	E
28	1.00	19	8.00	30.00	28.39	8.57	60.871	908.	E
29	1.00	24	10.00	39.00	36.06	10.80	58.205	895.	E
30	1.00	26	4.00	32.00	40.36	3.48	31.726	917.	E
31	1.00	10	1.00	15.00	15.76	0.73	31.954	903.	E
32	1.00	22	7.00	38.00	33.24	7.17	55.677	921.	E
33	1.00	22	6.54	35.00	34.55	6.80	48.316	890.	E
34	1.00	17	8.00	32.00	25.92	9.18	66.896	828.	E
35	1.00	19	11.00	40.00	28.04	12.47	74.740	864.	E
36	1.00	12	4.00	23.00	18.27	4.21	67.109	896.	E
37	1.00	24	8.00	43.00	36.94	8.61	61.341	870.	E
38	1.00	19	14.23	43.00	26.90	16.57	71.787	844.	E
39	1.00	18	5.00	26.00	28.63	5.54	66.922	817.	E
40	1.00	16	5.00	28.00	24.55	5.27	41.348	886.	E
41	1.00	14	5.60	24.00	22.02	6.18	82.337	861.	E
42	1.00	19	10.00	35.00	28.69	11.59	76.487	824.	E
43	1.00	13	7.00	33.00	19.45	8.00	93.893	845.	E
44	1.00	20	7.00	31.00	31.30	7.90	54.570	822.	E
45	1.00	28	5.00	36.00	44.75	5.01	31.662	846.	E
46	1.00	16	11.94	33.00	22.90	13.59	79.734	879.	E
47	1.00	10	5.53	20.00	15.56	6.21	45.040	870.	E

Return Background

S#	TIME	CPMA	CPMB	CPMC	DFM1	DFM2	SIS	tSIE	FLAG
48	1.00	20	4.00	27.00	30.71	3.73	49.621	925.	E
49	1.00	11	7.92	23.00	16.51	10.09	43.842	702.	E
50	1.00	14	6.00	27.00	21.11	6.57	55.694	880.	E
51	1.00	18	9.00	31.00	26.82	10.00	56.234	878.	E
52	1.00	15	3.00	22.00	23.39	2.91	36.023	892.	E
53	1.00	15	5.00	25.00	22.72	5.21	49.514	909.	E
54	1.00	14	6.00	22.00	21.48	6.82	47.588	833.	E
55	1.00	18	5.00	28.00	28.31	5.40	47.592	842.	E
56	1.00	21	6.00	32.00	33.04	6.53	30.852	838.	E
57	1.00	18	7.63	29.00	27.97	8.47	48.027	860.	E
58	1.00	23	4.32	32.00	35.29	4.10	35.964	900.	E
59	1.00	11	6.85	27.00	16.65	8.13	71.957	801.	E
60	1.00	19	7.00	41.00	29.03	7.60	53.479	873.	E
61	1.00	13	5.00	24.00	19.75	5.42	51.092	881.	E
62	1.00	18	7.00	30.00	27.29	7.57	36.145	884.	E
63	1.00	20	7.00	31.00	30.70	7.58	33.408	870.	E
64	1.00	18	1.00	25.00	29.63	0.57	27.623	832.	E
65	1.00	19	6.18	29.00	29.29	6.79	30.110	845.	E
66	1.00	10	5.00	19.00	15.21	5.80	81.748	819.	E
67	1.00	18	9.00	33.00	27.10	10.22	52.252	848.	E

(1 missing vial)

1	49	1.00	21	4.45	29.00	31.54	4.25	57.074	921.	E	<i>Background Res</i>
H3	70	1.00	****	621.20	129085.	196952.	0.00	20.158	984.	E	
[14	71	1.00	****	103101.	130820.	22622.2	115263.	160.05	997.	E	
Blank	72	1.00	8	5.00	19.00	11.32	5.28	79.262	980.	E	

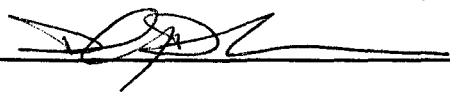
Protocol #:11 Name:swipe 28-Jul-08 09:11
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE ES Terminator = Count
 Conventional DPM
 Nuclide 1 = 235953 Nuclide 2 = 123200
 Luminescence Correction On

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	LUM
68 1	1.00	11.00	5.00	28.00	15.20	6.50	80.752	992.	0
2	1.00	5.00	8.00	21.00	4.51	18.60	115.45	968.	8
3	1.00	12.00	5.00	30.00	16.79	6.51	73.652	986.	6
4	1.00	15.00	10.00	31.00	18.56	13.24	92.534	957.	4
5	1.00	21.00	8.00	36.00	29.72	10.43	61.846	983.	4
6	1.00	17.00	10.00	35.00	22.61	13.84	79.121	989.	4
7	1.00	18.00	8.00	29.00	12.46	10.40	80.155	898.	6
69 8	1.00	31.00	13.00	53.00	43.50	17.03	62.381	975.	2
(1 missing vial)									
3H 10	1.00	51510.0	445.00	51967.0	78987.1	373.80	21.608	1022	0
4C 11	1.00	23479.0	90142.0	114349.0	1634.49	117441.	161.96	999.	0
69 12	1.00	11.00	6.00	29.00	14.68	7.66	95.709	1033	16

RONT PIN JAM FWD

Job Location: Neurogen Corp. Branford, CT Page: 1 of 7

Survey Purpose: Decommissioning phase III WASTE ROOM Date: 6/13/08

Performed By: David J. Durkee 

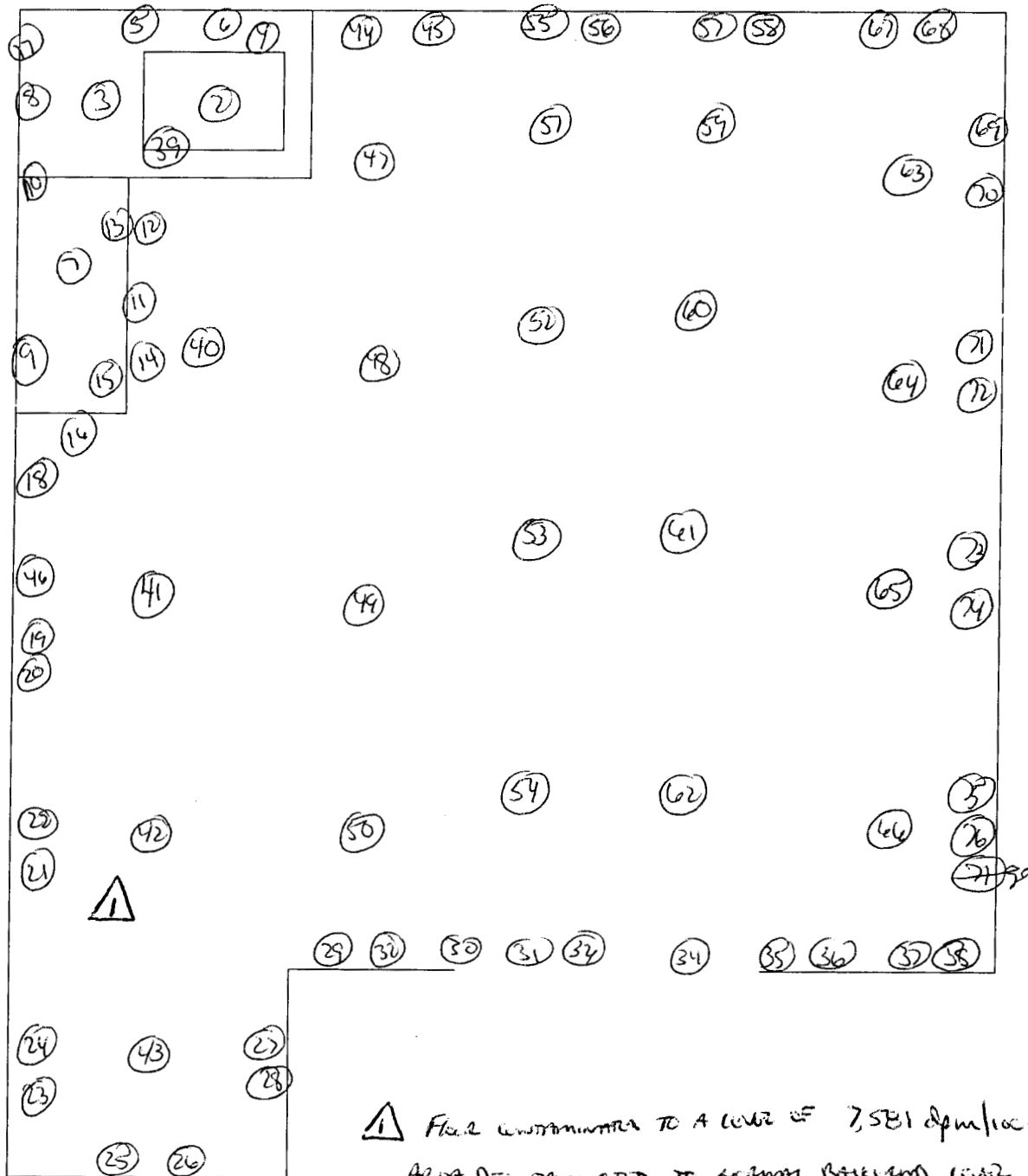
Inst. No. 1 (Model/SN) Packard 1600TR #10325 #401915	Inst. No. 2 (Model/SN) Ludlum 2241-2 # 137757	Inst. No. 3 (Model/SN) Ludlum 3 # 114200
Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-62 # 140899	Detector (Model/SN) Ludlum 44-21 # 156898
Efficiency: <u>40% H-3 / 75% OTHERS</u> <u>See Printout</u>	Efficiency: <u>7.4% C-14</u>	Efficiency: <u>16% I-125</u>
Type Rad.: β	Type Rad.: β	Type Rad.: γ
Bkgd.: See #1 Below	Bkgd.: <u>350 cpm WALLS / 570 cpm FLOORS</u>	Bkgd.: <u>500 cpm</u>
Cal. Due: <u>12/3/08</u>	Cal. Due: <u>9/10/08</u>	Cal. Due: <u>5/24/09</u>

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	1100	Background	1	20 207 Cpm	
2		SINK	1	33	
3		SINK SHELF	1	33	
4		FAUCET	1	1	
5		WALL (UPPER)	1	0	
6		LOWER WALL	1	7	
7		COUNTER	1	8	
8		UPPER WALL	1	0	
9		UPPER WALL	1	0	
10		SINK	1	8	
11		FRONT OF CABINET	1	8	
12		RIGHT DRAWER	1	0	
13		CABINET	1	3	
14		LEFT DRAWER	1	5	
15		CABINET	1	5	
16		SIDE OF CABINET	1	0	
17		LOWER WALL	1	44	
18		LOWER WALL	1	5	
19		UPPER WALL	1	12	
20		LOWER WALL	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		UPPER WALL	1	0	
22		LOWER WALL	1	0	
23		UPPER WALL	1	7	
24		LOWER WALL	1	13	
25		UPPER WALL	1	0	
26		LOWER WALL	1	12	
27		UPPER WALL	1	0	
28		LOWER WALL	1	20	
29		WALL (UP)	1	1	
30		UPPER DOOR	1	4	
31		LOWER DOOR	1	1	
32		LOWER WALL	1	8	
33		UPPER DOOR	1	0	
34		LOWER DOOR	1	4	
35		UPPER WALL	1	0	
36		LOWER WALL	1	0	
37		UPPER WALL	1	7	
38		LOWER WALL	1	0	
39		FLOOR	1	13	
40		FLOOR	1 1	8	
41		FLOOR	1	13	
42		FLOOR	1	4	
43		FLOOR	1	4	
44		UPPER WALL	1	0	
45		LOWER WALL	1	8	
46		SHRUF	1	0	
47		FLOOR	1	128	✓ SEE # 78
48		FLOOR	1	0	
49		FLOOR	1	0	
50		FLOOR	1	12	
51	↓	FLOOR	1	29	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		Floor	1	1	
53		Floor	1	4	
54		Floor	1	0	
55		up Floor UPPER wall	1	0	
56		LOWER wall	1	0	
57		UPPER wall	1	0	
58		Lower wall	1	1	
59		Floor	1	8	
60		Floor	1	0	
61		Floor	1	19	
62		FLOOR	1	0	
63		Floor	1	117	✓ SEE # 79
64		Floor	1	7	
65		Floor	1	16	
66		Floor	1	0	
67		UPPER wall	1	9	
68		Lower wall	1	0	
69		UPPER wall	1	3	
70		Lower wall	1	93	✓ SEE # 80
71		UPPER wall	1	0	
72		Lower wall	1	0	
73		UPPER wall	1	8	
74		Lower wall electric strip UPPER wall 90 90	1	0	
75		Lower wall	1	0	
76	↓	UPPER wall	1	3	
77	1055	BACKGROUND	1	25cpm	
78	↓	POST DECON # 47	1	5	
79	↓	POST DECON # 63	1	11	
80	↓	POST DECON # 70	1	12	
81	1230	BACKGROUND	1	68cpm	
82	↓	POST DECON Floor	1	8	

6/1/08



Protocol #: 7 Name: RAD DEPT 13-Jun-2008 13:10
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count

Conventional DPM
 Nuclide 1 = 230269 Nuclide 2 = 117000
 Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	7	6.00	17.00	9.61	6.52	119.63	967.	E
2	1.00	29	9.00	45.00	46.45	10.39	47.897	785.	E
3	1.00	36	4.01	45.00	62.64	4.64	30.455	701.	
4	1.00	10	7.78	21.00	14.69	9.14	83.192	829.	E
5	1.00	11	3.00	18.00	17.85	3.46	34.851	774.	E
6	1.00	14	7.00	25.00	21.94	8.70	57.016	729.	
7	1.00	12	6.00	26.00	18.47	7.15	64.200	782.	E
8	1.00	9	7.00	20.00	13.11	8.72	87.071	744.	
9	1.00	12	2.00	19.00	18.74	1.83	40.240	900.	E
10	1.00	14	4.00	26.00	21.51	4.13	51.360	894.	E
11	1.00	12	7.00	26.00	17.87	8.12	69.184	832.	E
12	1.00	9	4.00	17.00	13.60	4.44	66.669	867.	E
13	1.00	15	4.00	22.00	24.80	4.81	42.997	735.	
14	1.00	11	7.00	24.00	16.14	8.07	69.015	847.	E
15	1.00	17	5.00	24.00	28.59	6.32	44.721	674.	
16	1.00	4	8.00	15.00	4.35	9.45	112.35	866.	E
17	1.00	22	15.00	53.00	32.74	18.46	89.316	755.	
18	1.00	10	4.00	19.00	16.04	4.92	44.596	733.	
19	1.00	14	7.00	24.00	21.37	8.19	75.916	807.	E
20	1.00	16	5.00	29.00	26.98	6.40	42.953	655.	
21	1.00	11	2.47	18.00	16.93	2.71	58.644	811.	E
22	1.00	10	6.00	17.00	14.89	7.02	75.134	822.	E
23	1.00	5	12.00	25.00	0.00	18.91	54.570	406.	
24	1.00	8	10.00	30.00	9.96	13.45	67.945	591.	
25	1.00	8	7.00	20.00	11.03	7.77	81.855	933.	E
26	1.00	6	14.00	29.00	1.00	20.90	72.867	453.	
27	1.00	8	2.00	13.00	12.80	2.19	61.953	815.	E
28	1.00	15	8.00	35.00	24.98	11.03	51.360	547.	
29	1.00	8	3.00	21.00	11.93	3.11	38.812	932.	E
30	1.00	9	6.00	23.00	13.02	6.79	83.032	879.	E
31	1.00	8	6.00	21.00	11.50	7.01	83.575	838.	E
32	1.00	11	6.00	26.00	16.77	7.19	81.005	781.	E
33	1.00	10	3.00	17.00	15.27	3.10	48.767	902.	E
34	1.00	15	4.00	23.00	24.65	4.74	36.239	749.	
35	1.00	13	1.98	18.00	19.76	1.60	40.981	965.	E
36	1.00	10	4.00	19.00	15.26	4.42	39.208	861.	E
37	1.00	10	7.00	25.00	14.33	7.95	65.427	878.	E
38	1.00	10	7.00	19.00	14.61	8.30	63.445	812.	E
39	1.00	9	13.00	30.00	9.35	18.76	62.084	490.	
40	1.00	8	9.00	26.00	10.50	12.03	90.541	602.	
41	1.00	11	10.27	30.00	15.05	13.93	93.931	576.	
42	1.00	8	10.59	23.00	10.64	13.64	64.284	693.	
43	1.00	13	5.00	23.00	22.62	6.82	36.469	560.	
44	1.00	9	3.30	15.00	12.85	3.37	83.995	955.	E
	1.00	12	8.27	26.00	16.77	9.28	83.540	897.	E
46	1.00	14	3.00	20.00	22.48	3.19	35.971	823.	E
47	1.00	27	48.57	116.00	21.84	70.03	82.763	492.	

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
48	1.00	8	6.00	19.00	11.72	7.44	74.174	748.	
49	1.00	10	3.00	14.00	15.67	3.27	49.755	842.	E
50	1.00	11	9.00	29.00	15.97	11.62	76.960	676.	
51	1.00	14	14.00	42.00	19.17	17.00	89.821	790.	E
52	1.00	7	9.00	21.00	8.93	10.95	66.808	797.	E
53	1.00	12	7.00	23.00	18.54	8.90	57.780	700.	
54	1.00	4	12.00	18.00	1.66	15.88	79.448	632.	
55	1.00	7	5.00	16.00	9.89	5.48	71.155	937.	E
56	1.00	4	1.00	8.00	6.14	1.00	67.410	909.	E
57	1.00	11	1.00	16.00	17.03	0.62	24.878	942.	E
58	1.00	12	4.00	21.00	18.37	4.26	43.736	883.	E
59	1.00	11	7.61	26.00	16.91	9.22	44.316	777.	E
60	1.00	7	8.00	19.00	9.19	10.30	91.913	693.	
61	1.00	17	13.39	34.00	22.87	23.63	38.787	337.	
62	1.00	12	5.00	20.00	19.38	6.31	46.073	698.	
63	1.00	33	59.00	108.00	17.69	90.37	74.720	429.	
64	1.00	7	9.64	25.00	9.18	12.33	56.930	712.	
65	1.00	15	15.00	32.00	20.60	19.50	71.262	664.	
66	1.00	10	4.00	18.00	16.67	5.23	42.303	625.	
67	1.00	16	5.40	27.00	24.00	5.85	40.660	866.	E
68	1.00	10	7.00	20.00	14.47	8.08	92.429	853.	E
69	1.00	13	6.00	22.00	19.79	6.83	54.232	838.	E
70	1.00	25	43.00	90.00	20.46	62.31	78.079	486.	
71	1.00	8	6.00	14.00	11.65	7.28	88.734	779.	E
72	1.00	6	3.00	13.00	8.93	3.33	108.96	881.	E
73	1.00	8	11.00	26.00	9.84	13.88	103.65	738.	
74	1.00	6	4.00	19.00	8.90	4.82	46.706	782.	E
75	1.00	3	8.00	16.00	2.37	9.96	77.332	772.	E
76	1.00	8	7.00	22.00	11.25	8.36	86.563	812.	E

(1 missing vial)

1 78	1.00	10	9.00	20.00	13.71	9.97	71.887	939.	E
3H 79	1.00	****	665.12	129161.	196705.	0.00	20.184	987.	E
14c 80	1.00	****	103646.	131253.	22303.1	115910.	159.73	997.	E
Blank 80	1.00	13	1.00	19.00	19.72	0.44	42.762	986.	E

(1 missing vial)

83	1.00	28	59.64	110.00	13.86	87.06	93.728	477.	Rem 47
84	1.00	31	45.40	100.00	23.64	70.87	75.118	413.	Rem 63

Protocol #: 7 Name: RAD DEPT 27-Jun-2008 13:46
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count

Conventional DPM
 Slide 1 = 230269 Nuclide 2 = 117000
 Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
77	1.00	9	6.00	25.00	12.88	6.63	77.789	917.	E
78	1.00	11	0.00	16.00	17.52	0.00	24.367	912.	E
79	1.00	11	5.00	24.00	16.83	5.73	74.733	827.	E
78	1.00	10	8.61	29.00	14.62	9.97	91.738	861.	E
79	1.00	17	5.02	33.00	26.54	5.43	55.518	850.	E
80	1.00	19	6.00	34.00	29.49	6.49	44.940	857.	E
81	1.00	10	6.00	20.00	14.44	6.55	50.181	724.	E
82	1.00	14	3.80	23.00	22.00	3.92	61.971	887.	E
83	1.00	15	7.28	25.00	21.82	7.97	72.955	897.	E
10	1.00	31	10.01	49.00	48.73	11.19	52.065	823.	E
11	1.00	13	10.00	34.00	18.58	11.58	111.37	853.	E
12	1.00	16	6.64	26.00	24.70	7.21	84.437	887.	E
13	1.00	12	7.00	27.00	17.54	7.78	69.099	894.	E
14	1.00	11	5.00	27.00	16.56	5.54	73.328	872.	E
15	1.00	51	9.02	79.00	79.35	8.35	44.512	904.	E
1 missing vial)									
17	1.00	14	3.00	30.00	22.62	3.24	62.754	810.	E
18	1.00	12	5.00	28.00	18.82	5.91	64.766	781.	E

Protocol #: 11 Name: swipe 01-Aug-08 12:36
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE ES Terminator = Count

Conventional DPM
 Slide 1 = 235953 Nuclide 2 = 23200
 Fluorescence Correction On

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	LUM
81	1.00	44.00	12.00	68.00	63.58	15.42	60.371	1008	4
82	1.00	55.00	52.00	152.00	65.48	67.27	73.757	1010	5
83	1.00	43.00	10.00	66.00	63.49	12.99	49.785	981.	0
84	1.00	39.00	16.00	74.00	54.74	20.88	82.876	983.	0

CON PIN JAM FWD

Job Location: Neurogen Corp. Branford, CT Page: 1 of 11

Survey Purpose: Decommissioning Room 326 / Phase II Date: 6/13/08

Performed By: David J. Durkee 

Inst. No. 1 (Model/SN) Packard 1600TR #10325 #401915	Inst. No. 2 (Model/SN) Ludlum 2241-2 #137757	Inst. No. 3 (Model/SN) Ludlum 3 #114208
Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-68 #140899	Detector (Model/SN) Ludlum 44-2 #156898
Efficiency: See Printout <small>40% H-3 / 75% OTHERS</small>	Efficiency: 7.4% C-14	Efficiency: 16% I-125
Type Rad.: β	Type Rad.: β	Type Rad.: γ
Bkgd.: See #1 Below	Bkgd.: 310 ^{CBS.} cpm / 400 cpm floor	Bkgd.: 350 cpm
Cal. Due: 12/3/08	Cal. Due: 9/10/08	Cal. Due: 5/20/09

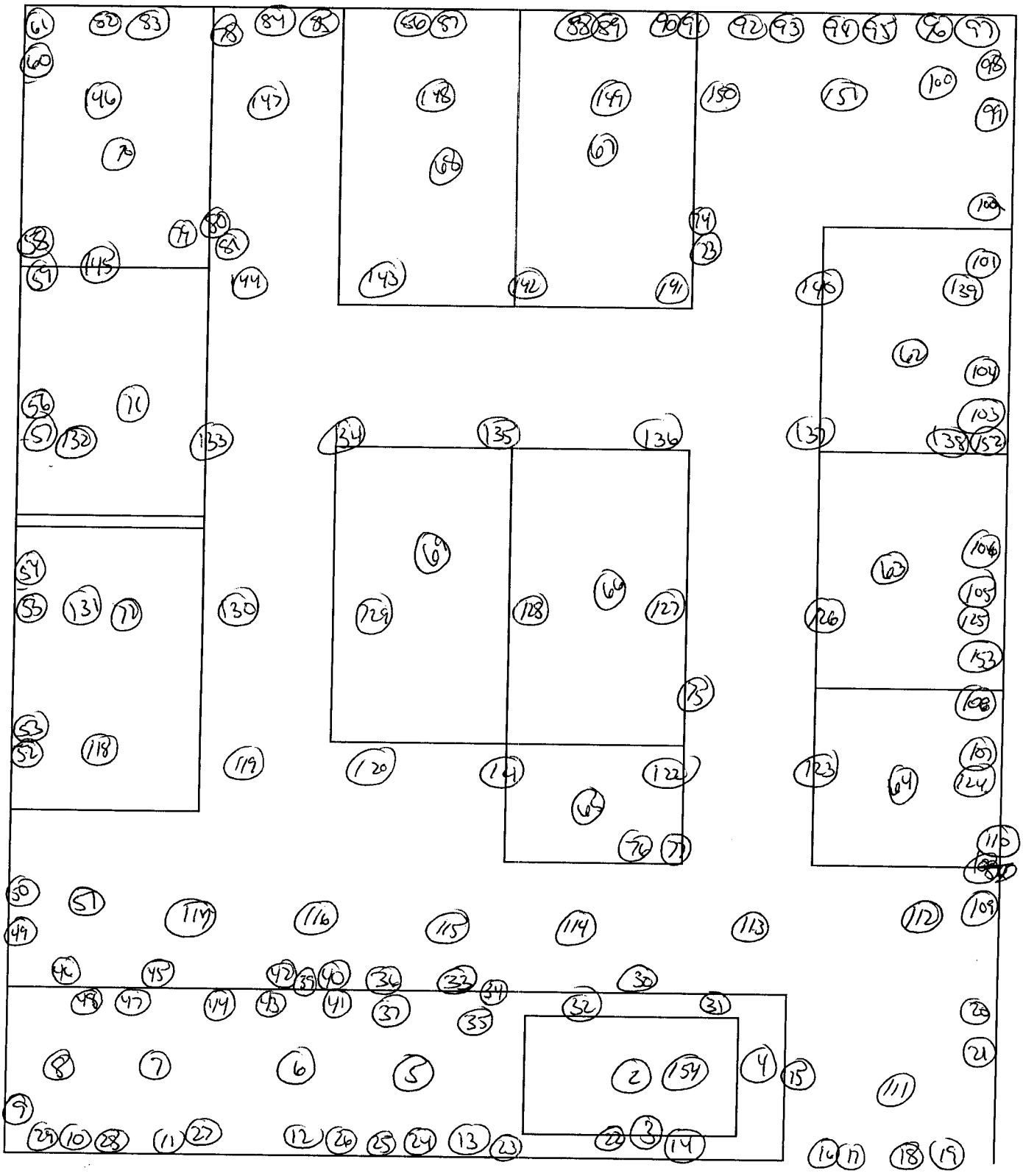
Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	1452	Background	1	22 Cpm	
2		SINK	1	130	✓ See # 156
3		Faucet	1	4	
4		COUNTER	1	0	
5		COUNTER	1	0	
6		COUNTER	1	3	
7		COUNTER	1	0	
8		COUNTER	1	0	
9		UPPER WALL	1	0	
10		UPPER WALL	1	4	
11		UPPER WALL	1	7	
12		UPPER WALL	1	0	
13		UPPER WALL	1	0	
14		UPPER WALL	1	6	
15		UPPER DECK SIDE of CABINET	1	0	
16		Lower Door	1	0	
17		UPPER DOOR	1	0	
18		Lower Door	1	0	
19		UPPER DOOR	1	8	
20		UPPER WALL	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		Lower wall	1	6	
22		SHelf	1	0	
23		LOWER SHelf	1	0	
24		SHelf	1	0	
25		SHelf	1	0	
26		TOP SHelf	1	0	
27		TOP SHelf	1	0	
28		SHelf	1	0	
29		Bottom Shelf	1	0	
30		FRONT OF CABINET	1	0	
31		INSIDE LEFT	1	0	
32		INSIDE RIGHT	1	0	
33		FRONT OF CABINET	1	0	
34		LEFT DRAWER	1	0	
35		CABINET	1	0	
36		RIGHT DRAWER	1	0	
37		CABINET	1	3	
38		Cubby	1	0	
39		FRONT OF CABINET	1	0	
40		LEFT DRAWER	1	0	
41		CABINET	1	0	
42		RIGHT DRAWER	1	0	
43		CABINET	1	0	
44		Cubby	1	0	
45		LEFT DRAWER	1	19	
46		RIGHT DRAWER	1	1	
47		TOP SHelf	1	0	
48		LEFT SIDE	1	0	
49		UPPER WALL	1	0	
50		LOWER WALL	1	0	
51	✓	FLOOR	1	6	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		UPPER WALL	1	0	
53		LOWER WALL	1	0	
54		UPPER WALL	1	0	
55		LOWER WALL	1	4	
56		UPPER WALL	1	8	
57		LOWER WALL	1	0	
58		UPPER WALL	1	7	
59		LOWER WALL	1	0	
60		UPPER WALL	1	0	
61		LOWER WALL	1	0	
62		TABLE	1	0	
63		TABLE	1	0	
64		TABLE	1	0	
65		TABLE	1	0	
66		TABLE	1	0	
67		TABLE	1	0	
68		TABLE	1	12	
69		TABLE	1	0	
70		TABLE	1	7	
71		TABLE	1	0	
72		TABLE	1	0	
73		TOP DRAINAGE	1	7	
74		BOTTOM DRAINAGE	1	0	
75		DRAINAGE	1	0	
76		TOP DRAINAGE	1	0	
77		BOTTOM DRAINAGE	1	0	
78		DRAINAGE	1	0	
79		TOP DRAINAGE	1	3	
80		DRAINAGE	1	4	
81		BOTTOM DRAINAGE	1	4	
82	✓	UPPER WALL	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
83		Lower wall	1	4	
84		Upper wall	1	0	
85		Lower wall	1	0	
86		Upper wall	1	1	
87		Lower wall	1	0	
88		Lower wall	1	0	
89		Upper wall	1	0	
90		Upper wall	1	1	
91		Lower wall	1	0	
92		Upper door	1	6	
93		Lower door	1	0	
94		Upper door	1	7	
95		Lower door	1	0	
96		Upper wall	1	0	
97		Lower wall	1	0	
98		Upper wall	1	0	
99		Lower wall	1	0	
100		Floor	1	0	
101		Upper wall	1	0	
102		Lower wall	1	0	
103		Upper wall	1	0	
104		Lower wall	1	0	
105		Upper wall	1	0	
106		Lower wall	1	0	
107		Upper wall	1	0	
108		Upper Lower wall	1	0	
109		Upper wall	1	9	
110		Lower wall	1	0	
111		Floor	1	0	
112		Floor	1	6	
113	↓	Floor	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
114		Floor	1	0	
115		Floor	1	0	
116		Floor	1	0	
117		Floor	1	0	
118		Floor	1	1	
119		Floor	1	0	
120		Floor	1	0	
121		Floor	1	8	
122		Floor	1	0	
123		Floor	1	1	
124		Floor	1	0	
125		Floor	1	11	
126		Floor	1	0	
127		Floor	1	0	
128		Floor	1	0	
129		Floor	1	0	
130		Floor	1	5	
131		Floor	1	0	
132		Floor	1	1	
133		Floor	1	0	
134		Floor	1	0	
135		Floor	1	0	
136		Floor	1	0	
137		Floor	1	0	
138		Floor	1	8	
139		Floor	1	0	
140		Floor	1	0	
141		Floor	1	0	
142		Floor	1	0	
143		Floor	1	9	
144		Floor	1	0	



HTP
Lab 1
Room 320, PhIII

Protocol #:11 Name:RAD DEPT 13-Jun-2008 16:06
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count

Conventional DPM
 Nuclide 1 = 230269 Nuclide 2 = 117000
 Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	10	7.00	22.00	14.07	7.53	82.894	963.	E
2	1.00	58	12.22	74.00	89.68	11.90	40.423	898.	E
3	1.00	15	6.00	25.00	21.99	6.11	87.358	967.	E
4	1.00	9	7.00	22.00	12.57	7.68	99.911	942.	E
5	1.00	14	3.00	21.00	21.92	3.00	40.125	878.	E
6	1.00	15	6.33	24.00	24.13	8.25	48.685	635.	
7	1.00	10	3.00	20.00	16.53	3.69	21.853	718.	
8	1.00	8	7.00	18.00	11.15	8.07	78.324	870.	E
9	1.00	6	4.00	15.00	8.65	4.49	101.44	891.	E
10	1.00	15	6.00	25.00	23.58	7.05	59.614	785.	E
11	1.00	12	9.00	27.00	17.17	10.38	68.556	858.	E
12	1.00	10	5.00	21.00	14.67	5.38	76.505	924.	E
13	1.00	9	3.00	16.00	13.60	3.11	32.769	916.	E
14	1.00	16	3.43	26.00	23.88	3.29	44.687	921.	E
15	1.00	10	7.00	21.00	14.09	7.56	83.554	957.	E
16	1.00	15	2.00	20.00	22.96	1.55	32.572	953.	E
17	1.00	8	6.99	18.00	11.03	7.76	96.086	934.	E
18	1.00	13	3.00	21.00	19.75	2.85	53.166	939.	E
19	1.00	14	11.00	28.00	19.92	12.76	66.704	852.	E
20	1.00	10	6.00	20.00	14.30	6.41	49.655	956.	E
21	1.00	9	4.00	17.00	13.79	4.57	100.75	828.	E
22	1.00	8	1.22	15.00	12.02	1.05	41.908	928.	E
23	1.00	10	7.00	21.00	14.23	7.74	87.992	919.	E
24	1.00	5	5.00	14.00	6.74	5.57	118.13	940.	E
25	1.00	12	4.00	20.00	18.17	4.16	60.890	910.	E
26	1.00	9	3.22	15.00	14.86	4.24	40.393	613.	
27	1.00	5	4.00	12.00	7.19	4.86	79.358	779.	E
28	1.00	11	4.00	21.00	16.59	4.21	50.076	909.	E
29	1.00	11	3.00	17.00	17.13	3.16	50.214	868.	E
30	1.00	12	7.00	21.00	17.43	7.68	77.716	913.	E
31	1.00	11	5.00	18.00	16.59	5.56	42.131	868.	E
32	1.00	10	3.00	18.00	15.97	3.41	59.632	797.	E
33	1.00	9	6.00	17.00	12.78	6.50	99.617	947.	E
34	1.00	5	3.00	13.00	7.19	3.24	56.376	938.	E
35	1.00	7	7.00	21.00	9.55	8.26	94.466	840.	E
36	1.00	17	2.10	22.00	26.91	1.81	33.789	875.	E
37	1.00	12	6.00	24.00	18.06	6.81	72.582	849.	E
38	1.00	8	3.00	12.00	11.98	3.14	44.065	921.	E
39	1.00	6	3.00	14.00	8.71	3.16	77.575	954.	E
40	1.00	7	5.00	16.00	9.94	5.54	70.620	917.	E
41	1.00	12	4.51	22.00	18.31	4.90	36.012	873.	E
42	1.00	13	7.00	22.00	19.02	7.63	59.546	914.	E
43	1.00	14	3.00	17.00	22.66	3.26	31.628	806.	E
44	1.00	8	7.00	16.00	11.12	8.00	103.68	884.	E
45	1.00	32	2.00	36.00	50.56	0.90	27.568	909.	E
46	1.00	14	5.00	23.00	20.66	5.02	60.906	966.	E
47	1.00	7	6.00	16.00	9.78	6.89	96.670	876.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
48	1.00	7	3.00	11.00	10.63	3.33	57.459	862.	E
49	1.00	10	4.62	16.00	15.88	5.26	66.637	834.	E
50	1.00	12	3.00	22.00	17.80	2.76	55.105	987.	E
51	1.00	8	9.92	26.00	10.19	13.17	64.200	617.	E
52	1.00	7	3.00	15.00	10.41	3.20	47.668	917.	E
53	1.00	8	3.00	12.00	11.90	3.09	52.673	939.	E
54	1.00	10	6.00	19.00	14.45	6.56	76.238	921.	E
55	1.00	14	3.00	25.00	21.26	2.78	53.437	945.	E
56	1.00	17	5.00	28.00	25.32	4.87	35.967	965.	E
57	1.00	10	4.56	22.00	15.51	4.86	36.059	918.	E
58	1.00	13	4.00	27.00	19.78	4.12	30.967	908.	E
59	1.00	10	7.00	21.00	14.09	7.56	84.782	957.	E
60	1.00	6	2.00	14.00	8.97	2.03	62.394	942.	E
61	1.00	8	4.00	18.00	11.57	4.18	59.385	966.	E
62	1.00	10	3.00	17.00	14.98	2.97	57.410	949.	E
63	1.00	13	2.00	20.00	20.18	1.74	33.919	917.	E
64	1.00	13	5.00	21.00	19.77	5.55	61.614	852.	E
65	1.00	10	2.00	15.00	15.44	1.95	46.010	886.	E
66	1.00	12	4.00	20.00	18.42	4.28	45.542	877.	E
67	1.00	11	4.00	18.00	17.02	4.44	33.304	844.	E
68	1.00	16	9.00	31.00	23.49	10.00	65.430	891.	E
69	1.00	10	3.00	17.00	15.75	3.51	32.545	829.	E
70	1.00	12	9.00	27.00	15.80	9.88	106.62	938.	E
71	1.00	12	5.00	20.00	18.03	5.39	65.616	898.	E
72	1.00	11	5.00	17.00	17.39	0.00	17.655	926.	E
73	1.00	14	4.00	27.00	20.69	6.31	45.903	935.	E
74	1.00	9	9.00	22.00	12.13	9.98	82.568	946.	E
75	1.00	9	1.00	16.00	14.01	0.74	45.743	925.	E
76	1.00	6	3.00	12.00	8.74	3.18	84.352	944.	E
77	1.00	7	3.00	13.00	10.43	3.20	54.891	913.	E
78	1.00	9	2.00	17.00	13.94	1.97	83.314	899.	E
79	1.00	16	5.00	24.00	24.16	5.09	52.506	924.	E
80	1.00	9	10.00	25.00	11.97	11.64	73.239	869.	E
81	1.00	12	7.00	25.00	17.31	7.56	63.355	936.	E
82	1.00	9	5.00	18.00	12.95	5.31	74.289	957.	E
83	1.00	11	9.00	25.00	15.69	10.77	64.601	805.	E
84	1.00	6	3.00	17.00	9.15	3.50	67.945	811.	E
85	1.00	11	6.00	21.00	16.17	6.63	73.830	895.	E
86	1.00	9	6.00	23.00	12.70	6.41	87.526	930.	E
87	1.00	13	3.00	21.00	20.18	3.00	55.200	840.	E
88	1.00	4	4.00	10.00	5.44	4.64	55.200	840.	E
89	1.00	13	2.00	16.00	21.73	2.00	55.200	840.	E
90	1.00	13	7.00	23.00	18.80	5.00	55.200	840.	E
91	1.00	8	3.00	15.00	10.63	3.33	57.459	862.	E
92	1.00	11	2.00	17.00	14.98	2.97	57.410	949.	E
93	1.00	11	5.00	17.00	17.39	0.00	17.655	926.	E
94	1.00	9	9.00	22.00	12.13	9.98	82.568	946.	E
95	1.00	6	3.00	12.00	8.74	3.18	84.352	944.	E
96	1.00	7	3.00	13.00	10.43	3.20	54.891	913.	E
97	1.00	9	2.00	17.00	13.94	1.97	83.314	899.	E
98	1.00	16	5.00	24.00	24.16	5.09	52.506	924.	E
99	1.00	9	10.00	25.00	11.97	11.64	73.239	869.	E
100	1.00	12	7.00	25.00	17.31	7.56	63.355	936.	E
101	1.00	9	5.00	18.00	12.95	5.31	74.289	957.	E
102	1.00	11	9.00	25.00	15.69	10.77	64.601	805.	E
103	1.00	6	3.00	17.00	9.15	3.50	67.945	811.	E
104	1.00	11	6.00	21.00	16.17	6.63	73.830	895.	E
105	1.00	9	6.00	23.00	12.70	6.41	87.526	930.	E
106	1.00	13	3.00	21.00	20.18	3.00	55.200	840.	E
107	1.00	4	4.00	10.00	5.44	4.64	55.200	840.	E
108	1.00	13	2.00	16.00	21.73	2.00	55.200	840.	E
109	1.00	13	7.00	23.00	18.80	5.00	55.200	840.	E
110	1.00	8	3.00	15.00	10.63	3.33	57.459	862.	E
111	1.00	11	2.00	17.00	14.98	2.97	57.410	949.	E
112	1.00	11	5.00	17.00	17.39	0.00	17.655	926.	E
113	1.00	9	9.00	22.00	12.13	9.98	82.568	946.	E
114	1.00	6	3.00	12.00	8.74	3.18	84.352	944.	E
115	1.00	7	3.00	13.00	10.43	3.20	54.891	913.	E
116	1.00	9	2.00	17.00	13.94	1.97	83.314	899.	E
117	1.00	16	5.00	24.00	24.16	5.09	52.506	924.	E
118	1.00	9	10.00	25.00	11.97	11.64	73.239	869.	E
119	1.00	12	7.00	25.00	17.31	7.56	63.355	936.	E
120	1.00	9	5.00	18.00	12.95	5.31	74.289	957.	E
121	1.00	11	9.00	25.00	15.69	10.77	64.601	805.	E
122	1.00	6	3.00	17.00	9.15	3.50	67.945	811.	E
123	1.00	11	6.00	21.00	16.17	6.63	73.830	895.	E
124	1.00	9	6.00	23.00	12.70	6.41	87.526	930.	E
125	1.00	13	3.00	21.00	20.18	3.00	55.200	840.	E
126	1.00	4	4.00	10.00	5.44	4.64	55.200	840.	E
127	1.00	13	2.00	16.00	21.73	2.00	55.200	840.	E
128	1.00	13	7.00	23.00	18.80	5.00	55.200	840.	E
129	1.00	8	3.00	15.00	10.63	3.33	57.459	862.	E
130	1.00	11	2.00	17.00	14.98	2.97	57.410	949.	E
131	1.00	11	5.00	17.00	17.39	0.00	17.655	926.	E
132	1.00	9	9.00	22.00	12.13	9.98	82.568	946.	E
133	1.00	6	3.00	12.00	8.74	3.18	84.352	944.	E
134	1.00	7	3.00	13.00	10.43	3.20	54.891	913.	E
135	1.00	9	2.00	17.00	13.94	1.97	83.314	899.	E
136	1.00	16	5.00	24.00	24.16	5.09	52.506	924.	E
137	1.00	9	10.00	25.00	11.97	11.64	73.239	869.	E
138	1.00	12	7.00	25.00	17.31	7.56	63.355	936.	E
139	1.00	9	5.00	18.00	12.95	5.31	74.289	957.	E
140	1.00	11	9.00	25.00	15.69	10.77	64.601	805.	E
141	1.00	6	3.00	17.00	9.15	3.50	67.945	811.	E
142	1.00	11	6.00	21.00	16.17	6.63	73.830	895.	E
143	1.00	9	6.00	23.00	12.70	6.41	87.526	930.	E
144	1.00	13	3.00	21.00	20.18	3.00	55.200	840.	E
145	1.00	4	4.00	10.00	5.44	4.64	55.200	840.	E
146	1.00	13	2.00	16.00	21.73	2.00	55.200	840.	E
147	1.00	13	7.00	23.00	18.80	5.00	55.200	840.	E
148	1.00	8	3.00	15.00	10.63	3.33	57.459	862.	E
149	1.00	11	2.00	17.00	14.98	2.97	57.410	949.	E
150	1.00	11	5.00	17.00	17.39	0.00	17.655	926.	E
151	1.00	9	9.00	22.00	12.13	9.98	82.568	946.	E
152	1.00	6	3.00	12.00	8.74	3.18	84.352	944.	E
153	1.00	7	3.00	13.00	10.43	3.20	54.891	913.	E
154	1.00	9	2.00	17.00	13.94	1.97	83.314	899.	E
155	1.00	16	5.00	24.00	24.16	5.09	52.506	924.	E
156	1.00	9	10.00	25.00	11.97	11.64	73.239	869.	E
157	1.00	12	7.00	25.00	17.31	7.56	63.355	936.	E
158	1.00	9	5.00	18.00	12.95	5.31	74.289	957.	E
159	1.00	11	9.00	25.00	15.69	10.77	64.601	805.	E
160	1.00	6	3.00	17.00	9.15	3.50	67.945	811.	E
161	1.00	11	6.00	21.00	16.17	6.63	73.830	895.	E
162	1.00	9	6.00	23.00	12.70	6.41	87.526	930.	E
163	1.00	13	3.00	21.00	20.18	3.00	55.200	840.	E
164	1.00	4	4.00	10.00	5.44	4.64	55.200	840.	E
165	1.00	13	2.00	16.00	21.73	2.00	55.200	840.	E
166	1.00	13	7.00	23.00	18.80	5.00	55.200	840.	E
167	1.00	8	3.00	15.00	10.63	3.33	57.459	862.	E
168	1.00	11	2.00	17.00	14.98	2.97	57.410	949.	E
169	1.00	11	5.00	17.00	17.39	0.00	17.655	926.	E
170	1.00	9	9.00	22.00	12.13	9.98	82.568	946.	E
171	1.00	6	3.00	12.00	8.74	3.18	84.352	944.	E
172	1.00	7	3.00	13.00	10.43	3.20	54.891	913.	E
173	1.00	9	2.00	17.00	13.94	1.97	83.314	899.	E
174	1.00	16	5.00	24.00	24.16	5.09	52.506	924.	E
175	1.00	9	10.00	25.00	11.97	11.64	73.239	869.	E
176	1.00	12	7.00	25.00	17.31	7.56	63.355	936.	E
177	1.00	9	5.00	18.00	12.95	5.31	74.289	957.	E
178	1.00	11	9.00	25.00	15.69	10.77	64.601	805.	E
179	1.00	6	3.00	17.00	9.15	3.50	67.945	811.	E
180	1.00	11	6.00	21.00	16.17	6.63	73.830	895.	E
181	1.00	9	6.00	23.00	12.70	6.41	87.526	930.	E
182	1.00	13	3.00	21.00	20.18	3.00	55.200	840.	E
183	1.00	4	4.00	10.00					

Protocol #: 7 Name: RAD DEPT 27-Jun-2008 13:46
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count

ventional DPM
 Nuclide 1 = 230269 Nuclide 2 = 117000
 Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
155 1	1.00	9	6.00	25.00	12.88	6.63	77.789	917.	E
2	1.00	11	0.00	14.00	17.52	0.00	24.367	912.	E
3	1.00	11	5.00	24.00	16.83	5.73	74.733	827.	E
4	1.00	10	8.61	29.00	14.62	9.97	91.738	861.	E
5	1.00	17	5.02	33.00	26.54	5.43	55.518	850.	E
6	1.00	19	6.00	34.00	29.49	4.49	44.940	857.	E
7	1.00	10	6.00	20.00	14.44	6.55	58.181	924.	E
8	1.00	14	3.80	23.00	22.00	3.92	61.971	883.	E
9	1.00	15	7.28	25.00	21.02	7.77	72.955	897.	E
156 10	1.00	31	10.01	49.00	48.73	11.19	52.065	823.	E
11	1.00	13	10.00	34.00	18.55	11.58	111.37	853.	E
12	1.00	16	6.64	26.00	24.70	7.21	84.437	887.	E
13	1.00	12	7.00	27.00	17.54	7.78	69.099	894.	E
14	1.00	11	5.00	27.00	16.56	5.54	73.328	872.	E
15	1.00	51	9.02	79.00	79.35	8.35	44.512	904.	E
(1 missing vial)									
17	1.00	14	3.00	30.00	22.62	3.24	62.784	810.	E
18	1.00	12	5.00	29.00	18.92	5.91	64.766	881.	E

Job Location: Neurogen Corp. Branford, CT Page: 1 of 9

Survey Purpose: Decommissioning Room 362 / Phase III Date: 6/20/08

Performed By: David J. Durkee 

Inst. No. 1 (Model/SN) Packard 1600TR #10325 # 401915	Inst. No. 2 (Model/SN) Ludlum 2241-2 # 137757	Inst. No. 3 (Model/SN) Ludlum 3 # 114208
Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-68 # M0599	Detector (Model/SN) Ludlum 44-21 # 152898
Efficiency: ^{40% H-3 / 75% OTHERS} See Printout #30	Efficiency: 7.4% C-14	Efficiency: 16% I-125
Type Rad.: β	Type Rad.: β	Type Rad.: γ
Bkgd.: See #1 Below	Bkgd.: ^{CTES} 320cpm / ⁴⁰⁰ cpm Floor	Bkgd.: 350 cpm
Cal. Due: 12/3/08	Cal. Due: 9/10/08	Cal. Due: 5/20/09

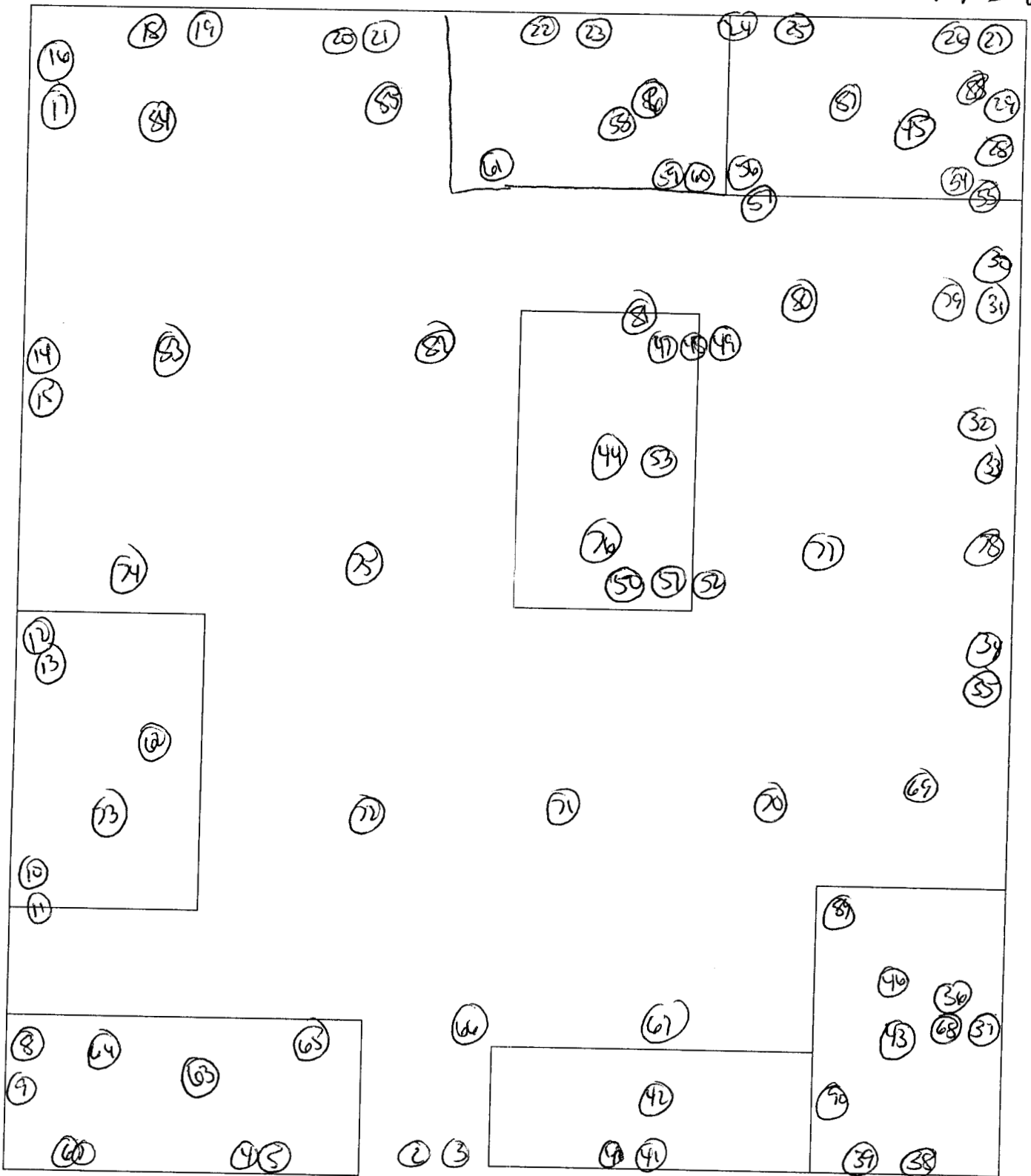
Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	0835	Background	1	31 Cpm	
2		UPPER DOOR	1	4	
3		LOWER DOOR	1	15	
4		UPPER WALL	1	33	
5		LOWER WALL	1	28	
6		UPPER WALL	1	51	
7		LOWER WALL	1	7	
8		UPPER WALL	1	12	
9		LOWER WALL	1	36	
10		UPPER WALL	1	17	
11		LOWER WALL	1	24	
12		UPPER WALL	1	19	
13		LOWER WALL	1	5	
14		UPPER WALL	1	0	
15		LOWER WALL	1	0	
16		UPPER WALL	1	5	
17		LOWER WALL	1	32	
18		UPPER WALL	1	13	
19		LOWER WALL	1	35	
20	↓	UPPER WALL	1	108	✓ SEE #92

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		Lower wall	1	80	✓ See # 93
22		Upper wall	1	24	
23		Lower wall	1	11	
24		Upper wall	1	35	
25		Lower wall	1	0	
26		Upper wall	1	23	
27		Lower wall	1	5	
28		Upper wall	1	0	
29		Lower wall	1	0	
30		Upper wall	1	0	
31		Lower wall	1	23	
32		Upper wall	1	1	
33		Lower wall	1	4	
34		Upper wall	1	0	
35		Lower wall	1	36	
36		Upper wall	1	0	
37		Lower wall	1	23	
38		Upper wall	1	23	
39		Lower wall	1	28	
40		Upper wall	1	27	
41		Lower wall	1	0	
42		TABLE	1	8	
43		TABLE	1	16	
44		TABLE	1	52	
45		TABLE	1	0	
46		Bottom shelf	1	0	
47		Drawer (top)	1	0	
48		Drawer	1	5	
49		Bottom drawer	1	16	
50		Top drawer	1	19	
51	↓	Drawer	1	40	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		Bottom Drawer	1	0	
53		Cubby	1	25	
54		TOP Drawer	1	52	
55		Drawer	1	43	
56		TOP DRAWER	1	88	✓ See #94
57		Drawer	1	5	
58		TABLE	1	23	
59		TOP DRAWER	1	5	
60		Drawer	1	0	
61		Drawer	1	11	
62		LSC CART	1	5	
63		TABLE	1	0	
64		Floor	1	1	
65		Floor	1	0	
66		Floor	1	3	
67		Floor	1	0	
68		Floor	1	4	
69		Floor	1	0	
70		Floor	1	41	
71		Floor	1	32	
72		Floor	1	11	
73		Floor	1	11	
74		Floor	1	0	
75		Floor	1	3	
76		Floor	1	16	
77		Floor	1	9	
78		Floor	1	39	
79		Floor	1	25	
80		Floor	1	0	
81		Floor	1	8	
82	↓	Floor	1	20	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
83		Floor	1	17	
84		Floor	1	0	
85		Floor	1	11	
86		Floor	1	13	
87		Floor	1	0	
88		Floor	1	0	
89		DRUM	1	1	
90		DRUM	1	0	
91	1113	BACKGROUND	1	25cpm	
92		POST DECON # 20	1	0	
93		POST DECON # 21	1	0	
94		POST DECON # 56	1	0	
95			1		
96			1		
97			1		
98			1		
99			1		
100			1		
101			1		
102			1		
103			1		
104			1		
105			1		
106			1		
107			1		
108			1		
109			1		
110			1		
111			1		
112			1		
113			1		

4/27/08



Protocol #: 7 Name: RAD DEPT 20-Jun-2008 08:48
Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
T1 = 0.000000 T2 = 0.000000 T3 = 0.000000 T4 = 0.000000

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
1	1.00	17	10.00	31.00	24.03	10.38	56.234	999.	E
2	1.00	18	8.00	34.00	28.48	9.81	47.780	742.	E
3	1.00	27	8.00	42.00	39.53	7.53	50.947	1004	E
4	1.00	29	14.00	56.00	44.86	16.70	68.082	779.	E
5	1.00	26	10.00	52.00	40.78	11.59	64.958	799.	E
6	1.00	40	17.21	69.00	58.27	17.81	64.059	958.	E
7	1.00	18	9.27	36.00	25.90	10.00	88.632	926.	E
8	1.00	15	8.00	40.00	21.60	8.41	72.355	966.	E
9	1.00	35	13.00	58.00	54.07	14.47	53.768	844.	E
10	1.00	17	11.00	44.00	24.15	11.83	77.900	955.	E
11	1.00	28	4.00	49.00	42.87	3.22	39.674	949.	E
12	1.00	15	17.00	45.00	19.75	18.69	131.96	971.	E
13	1.00	17	8.00	35.00	25.28	8.72	68.566	898.	E
14	1.00	20	3.80	30.00	31.29	3.54	44.673	911.	E
15	1.00	6	3.00	16.00	8.86	3.27	31.743	906.	E
16	1.00	16	9.00	35.00	23.89	10.38	77.297	836.	E
17	1.00	23	14.67	55.00	34.43	17.06	76.449	832.	E
18	1.00	18	11.00	41.00	26.28	12.37	82.962	881.	E
19	1.00	41	8.00	57.00	64.07	7.74	42.483	889.	E
20	1.00	57	38.00	112.00	80.84	41.08	93.969	950.	E -
21	1.00	40	40.00	95.00	54.62	46.49	115.28	865.	E -
22	1.00	21	10.00	49.00	30.51	10.42	75.746	963.	E
23	1.00	13	8.00	39.00	18.67	8.69	71.231	934.	E
24	1.00	37	10.07	57.00	55.22	9.68	66.454	962.	E
25	1.00	17	7.00	28.00	25.84	7.72	51.293	867.	E
26	1.00	30	6.61	48.00	46.11	6.15	51.534	946.	E
27	1.00	17	5.00	35.00	26.77	5.49	49.244	833.	E
28	1.00	11	2.00	28.00	16.74	1.76	36.051	951.	E
29	1.00	9	7.41	21.00	12.11	8.85	60.789	812.	E
30	1.00	16	4.00	31.00	24.01	3.78	67.009	961.	E
31	1.00	22	7.00	48.00	33.63	7.35	51.415	893.	E
32	1.00	14	7.00	32.00	20.47	7.47	67.716	934.	E
33	1.00	20	4.00	34.00	31.37	3.94	36.447	879.	E
34	1.00	10	8.00	30.00	13.56	8.85	69.283	931.	E
35	1.00	26	24.61	58.00	35.56	27.20	118.96	946.	E
36	1.00	14	5.95	29.00	21.01	6.38	63.879	906.	E
37	1.00	17	4.18	48.00	26.88	4.57	49.755	818.	E
38	1.00	23	12.60	48.00	33.55	13.17	73.161	976.	E
39	1.00	29	3.31	52.00	43.35	2.23	32.702	985.	E
40	1.00	24	12.00	51.00	36.56	13.97	65.270	814.	E
41	1.00	9	3.00	25.00	13.51	3.06	57.914	932.	E
42	1.00	24	5.00	37.00	37.47	4.92	44.481	886.	E
43	1.00	56	24.00	94.00	85.59	27.04	81.654	844.	E - Rev
44	1.00	38	12.83	70.00	64.12	16.52	38.992	649.	E
45	1.00	10	9.00	27.00	13.76	10.08	93.766	920.	E
46	1.00	11	9.12	28.00	15.61	11.49	63.959	729.	E
47	1.00	14	5.00	24.00	21.08	5.23	58.287	914.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
48	1.00	14	9.00	35.00	20.14	9.94	111.37	913.	E
49	1.00	24	9.00	43.00	36.44	9.69	51.457	886.	E
50	1.00	30	2.48	45.00	46.24	1.53	29.241	920.	E
51	1.00	48	18.00	105.00	107.77	18.11	71.645	817.	E

53	1.00	31	11.00	50.00	45.98	11.14	52.048	953.	E
54	1.00	42	17.32	70.00	62.64	18.70	49.008	895.	E
55	1.00	31	22.72	63.00	44.06	24.82	90.237	943.	E
56	1.00	55	30.00	97.00	79.62	32.09	92.863	943.	E
57	1.00	13	11.00	35.00	18.18	12.59	72.292	880.	E
58	1.00	72	50.00	129.00	107.84	63.59	79.772	706.	E
59	1.00	14	12.00	35.00	19.46	13.54	89.942	904.	E
60	1.00	14	5.38	23.00	20.55	5.79	77.800	894.	E
61	1.00	25	7.00	39.00	38.05	7.05	74.482	918.	E
62	1.00	12	11.00	35.00	16.87	13.87	93.439	730.	
63	1.00	16	6.00	28.00	26.00	7.47	46.326	714.	
64	1.00	16	8.09	32.00	24.52	9.81	89.345	761.	E
65	1.00	8	6.00	29.00	11.44	6.90	59.500	862.	E
66	1.00	16	3.00	33.00	24.94	2.85	41.983	897.	E
67	1.00	11	9.00	30.00	15.91	11.40	75.355	718.	
68	1.00	12	12.00	34.00	16.49	15.75	68.079	641.	
69	1.00	14	3.00	31.00	26.17	4.13	27.851	541.	
70	1.00	34	11.44	62.00	50.53	11.82	76.347	921.	E
71	1.00	25	23.00	55.00	34.26	25.75	106.10	923.	E
72	1.00	18	11.00	39.00	26.19	12.28	68.960	892.	E
73	1.00	17	11.71	39.00	26.01	14.85	53.795	710.	
74	1.00	14	10.00	31.00	20.92	12.82	41.998	688.	
75	1.00	11	6.00	33.00	16.22	6.67	54.759	886.	E
76	1.00	20	11.00	43.00	29.72	12.47	61.042	859.	E
77	1.00	20	10.00	38.00	30.42	11.61	55.854	818.	E
78	1.00	28	19.00	60.00	41.23	22.67	80.352	800.	E
79	1.00	19	20.00	50.00	25.71	25.02	92.720	746.	
80	1.00	20	7.00	30.00	30.58	7.52	44.583	879.	E
81	1.00	17	8.53	37.00	25.98	9.39	82.904	890.	E
82	1.00	25	7.00	46.00	38.27	7.14	52.764	904.	E
83	1.00	28	10.00	44.00	43.72	11.28	57.442	824.	E
84	1.00	6	6.00	20.00	8.20	7.18	76.238	815.	E
85	1.00	22	6.00	39.00	37.50	7.66	47.176	655.	
86	1.00	14	16.00	41.00	18.49	19.85	65.056	760.	E
87	1.00	16	5.00	29.00	25.67	5.80	50.443	781.	E
88	1.00	9	8.00	25.00	12.98	10.86	57.874	574.	
89	1.00	16	11.00	32.00	22.94	12.32	83.103	898.	E
90	1.00	18	7.00	31.00	27.06	7.45	73.094	906.	E

Redun

(1 missing vial)

3H	92	1.00	****	672.94	129136.	197157.	0.00	20.162	982.	E	
4C	93	1.00	****	102981.	130199.	21808.2	115257.	159.63	996.	E	
Bkul	94	1.00		14	9.00	29.00	19.81	9.58	80.669	971.	E

(1 missing vial)

43	96	1.00		19	15.00	43.00	26.80	17.00	70.148	891.	E
51	97	1.00		28	25.30	61.00	39.01	32.43	85.489	698.	
5B	98	1.00		18	18.00	48.00	24.60	21.55	72.359	814.	E

Protocol #: 7 Name: RAD DEPT 27-Jun-2008 13:46
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count

Conventional DPM

Slide 1 = 230269 Nuclide 2 = 117000

Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG	
91	1.00	9	6.00	25.00	12.88	6.63	77.789	917.	E	
2	1.00	11	0.00	16.00	17.52	0.00	24.367	912.	E	
3	1.00	11	5.00	24.00	16.83	5.73	74.733	827.	E	
4	1.00	10	8.61	29.00	14.62	9.97	91.738	861.	E	
5	1.00	17	5.02	33.00	26.54	5.43	55.518	850.	E	
6	1.00	19	6.00	34.00	29.49	6.42	44.940	857.	E	
92	7	1.00	10	6.00	20.00	14.44	6.55	58.191	924.	E
93	8	1.00	14	3.80	23.00	3.92	61.971	883.	E	
94	9	1.00	15	7.28	25.00	7.97	72.955	897.	E	
10	1.00	31	10.01	49.00	40.73	11.19	52.065	823.	E	
11	1.00	13	10.00	34.00	18.55	11.58	111.37	853.	E	
12	1.00	16	6.64	26.00	24.70	7.21	64.437	887.	E	
13	1.00	12	7.00	27.00	17.54	7.78	69.099	894.	E	
14	1.00	11	5.00	27.00	16.56	5.54	73.328	872.	E	
15	1.00	51	9.02	79.00	79.35	8.35	44.512	904.	E	
(1 missing vial)										
17	1.00	14	3.00	30.00	22.62	3.24	62.784	810.	E	
18	1.00	12	5.00	29.00	18.82	5.91	64.766	781.	E	

Job Location: Neurogen Corp. Branford, CT Page: 1 of 22

Survey Purpose: Decommissioning Room 322 / PHASE III Date: 6/20/08

Performed By: David J. Durkee 

Inst. No. 1 (Model/SN) Packard 1600TR #10325 #401915	Inst. No. 2 (Model/SN) Ludlum 2241-2 #137757	Inst. No. 3 (Model/SN) Ludlum 3#114208
Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-68 #140899	Detector (Model/SN) Ludlum 44-21 #152898
Efficiency: See Printout / 75% ^{40% H-3} ₃ OTHERS	Efficiency: 7.4 % C-14	Efficiency: 16 % I-125
Type Rad.: β	Type Rad.: β	Type Rad.: γ
Bkgd.: See #1 Below	Bkgd.: 310cpm /cpm Hood ^{CR2's} / 400	Bkgd.: 340 cpm
Cal. Due: 12/3/08	Cal. Due: 9/10/08	Cal. Due: 5/20/09

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	0930	Background	1	25 Cpm	
2		HOOD SASH	1	3	
3		HOOD LEDGE	1	0	
4		LEFT FRONT HOOD	1	9	
5		RIGHT FRONT HOOD	1	0	
6		INSIDE SASH	1	0	
7		INSIDE LEFT	1	4	
8		INSIDE BACK TOP	1	1	
9		INSIDE BACK BOTTOM	1	13	
10		INSIDE RIGHT	1	12	
11		HOOD COUNTER	1	0	
12		VENT PATH	1	5	
13		HOOD DUCT	1	24	
14		OUTSIDE CABINET	1	11	
15		TOP SHELF	1	0	
16		BOTTOM SHELF	1	11	
17		OUTSIDE CABINET	1	15	
18		TOP SHELF	1	1	
19		BOTTOM SHELF	1	0	
20		UPPER SIDE HOOD	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		Lower Side Hood	1	5	
22		Upper wall	1	13	
23		Lower wall	1	0	
24		Upper Door	1	28	
25		Lower Door	1	19	
26		Upper wall	1	0	
27		Lower wall	1	0	
28		Upper wall	1	0	
29		Lower wall	1	12	
30		Upper wall	1	0	
31		Lower wall	1	8	
32		Upper wall	1	11	
33		Lower wall	1	0	
34		Counter	1	7	
35		Side of Hood	1	17	
36		Counter	1	16	
37		Shelf	1	15	
38		Upper wall	1	0	
39		Upper wall	1	15	
40		Upper wall	1	7	
41		Shelf	1	0	
42		Counter	1	16	
43		Counter	1	29	
44		Counter	1	0	
45		Counter	1	31	
46		Counter	1	13	
47		Counter	1	7	
48		Side of Cabinet	1	9	
49		Front of Cabinet	1	4	
50		Drawer	1	8	
51	✓	Inside Cabinet	1	15	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		CUBBY	1	11	
53		FRONT OF CABINET	1	21	
54		DRAWER	1	20	
55		INSIDE CABINET	1	29	
56		FRONT OF CABINET	1	0	
57		DRAWER	1	0	
58		INSIDE CABINET	1	4	
59		CUBBY	1	9	
60		FRONT OF CABINET	1	0	
61		DRAWER	1	12	
62		INSIDE CABINET	1	19	
63		FRONT OF CABINET	1	1	
64		LEFT DRAWER	1	1	
65		LEFT SIDE CABINET	1	8	
66		RIGHT DRAWER	1	12	
67		RIGHT SIDE CABINET	1	15	
68		WAM UNIT	1	5	
69		WAM UNIT	1	7	
70		WAM UNIT	1	8	
71		WAM UNIT	1	4	
72		WAM UNIT	1	9	
73		STOVES	1	8	
74		STOVES	1	0	
75		CUP SINK	1	1	
76		WAM	1	0	
77		SINK	1	0	
78		FANUCOT	1	5	
79		COUNTER	1	3	
80		COUNTER	1	12	
81		COUNTER	1	9	
82	↓	COUNTER	1	8	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
83		Floor	1	0	
84		Floor	1	0	
85		Floor	1	7	
86		Floor	1	4	
87		Floor	1	8	
88		Floor	1	12	
89		Floor	1	0	
90		Floor	1	4	
91		Floor	1	8	
92		Floor	1	11	
93		Floor	1	7	
94		Floor	1	3	
95		Floor	1	0	
96		Floor	1	24	
97		Floor	1	12	
98		Floor	1	0	
99		Floor	1	0	
100		Floor	1	0	
101		Floor	1	7	
102		Floor	1	7	
103		Floor	1	8	
104		Floor	1	17	
105		UPPER WALL	1	28	
106		LOWER WALL	1	25	
107		UPPER WALL	1	11	
108		LOWER WALL	1	11	
109		UPPER WALL	1	13	
110		LOWER WALL	1	0	
111		SIDE OF CABINET	1	0	
112		FRONT OF CABINET	1	7	
113	↓	DRUM	1	7	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
114		INSIDE CABINET	1	5	
115		Cubby	1	16	
116		FRONT OF CABINET	1	23	
117		DRAWER	1	0	
118		IN CABINET	1	29	
119		FRONT OF CABINET	1	27	
120		DRAWER	1	7	
121		INSIDE CABINET	1	5	
122		Cubby	1	0	
123		COUNTER	1	425	✓ SEE # 315
124		COUNTER	1	68	✓ SEE # 316
125		COUNTER	1	13	
126		SHELF	1	12	
127		WASH UNIT	1	7	
128		WASH UNIT	1	0	
129		WASH UNIT	1	0	
130		SHELVES	1	0	
131		SHELVES	1	17	
132		COUNTER	1	17	
133		COUNTER	1	7	
134		COUNTER	1	0	
135		SIDE OF CABINET	1	12	
136		FRONT OF CABINET	1	9	
137		DRAWER	1	4	
138		INSIDE CABINET	1	5	
139		Cubby	1	19	
140		FRONT OF CABINET	1	13	
141		DRAWER	1	0	
142		INSIDE CABINET	1	11	
143		FRONT OF CABINET	1	20	
144	✓	DRAWER	1	17	

Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
145		INSIDE CABINET	1	0	
146		Cup Sink	1	203	J See # 317
147		Sink	1	11	
148		FAUCET	1	5	
149		UPPER WALL	1	16	
150		COUNTER	1	16	
151		FRONT OF CABINET	1	8	
152		INSIDE CABINET	1	0	
153		FRONT OF CABINET	1	4	
154		INSIDE CABINET	1	1	
155		FRONT OF CABINET	1	0	
156		INSIDE CABINET	1	31	
157		FRONT OF CABINET	1	29	
158		INSIDE CABINET	1	5	
159		FLOOR	1	12	
160		FLOOR	1	11	
161		FLOOR	1	5	
162		FLOOR	1	12	
163		FLOOR	1	15	
164		LOWER WALL	1	9	
165		COUNTER	1	0	
166		FLOOR	1	0	
167		FLOOR	1	4	
168		LOWER WALL	1	0	
169		UPPER WALL	1	11	
170		TABLE	1	12	
171		UPPER WALL	1	9	
172	✓	LOWER WALL	1	17	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
173		FLOOR	1	1	
174		FLOOR	1	7	
175		FLOOR	1	9	
176		FLOOR	1	11	
177		FLOOR	1	15	
178		SIDE OF CABINET	1	12	
179		FRONT OF CABINET	1	0	
180		DRAWER	1	0	
181		INSIDE CABINET	1	11	
182		CUBBY	1	0	
183		FRONT OF CABINET	1	1	
184		DRAWER	1	8	
185		INSIDE CABINET	1	13	
186		FRONT OF CABINET	1	5	
187		DRAWER	1	0	
188		INSIDE CABINET	1	0	
189		CUBBY	1	0	
190		FRONT OF CABINET	1	5	
191		DRAWER	1	0	
192		INSIDE CABINET	1	19	
193		FRONT OF CABINET	1	0	
194		DRAWER	1	0	
195		INSIDE CABINET	1	7	
196		CUBBY	1	0	
197		FRONT OF CABINET	1	5	
198		DRAWER	1	0	
199		INSIDE CABINET	1	16	
200	✓	SIDE OF CABINET	1	11	

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Date 6/20/08

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
201		COUNTER	1	5	
202		COUNTER	1	19	
203		COUNTER	1	21	
204		COUNTER	1	0	
205		COUNTER	1	0	
206		COUNTER	1	35	
207		COUNTER	1	0	
208		COUNTER	1	4	
209		Cup Sink	1	1	
210		COUNTER	1	0	
211		UPPER WASH	1	0	
212		UPPER WASH	1	21	
213		UPPER WASH	1	8	
214		SHELF	1	1	
215		UPPER WASH	1	1	
216		UPPER WASH	1	15	
217		UPPER WASH	1	23	
218		WASH UNIT	1	418	✓ see # 318
219		WASH UNIT	1	11	
220		WASH UNIT	1	1	
221		SHELVES	1	1	
222		SHELVES	1	9	
223		UPPER WASH	1	0	
224		FANLET	1	0	
225		SINK	1	13	
226		FLOOR	1	5	
227		FRONT OF CABINET	1	0	
228	↓	INSIDE CABINET	1	0	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
229		FRONT OF CABINET	1	1	
230		INSIDE CABINET	1	8	
231		INSIDE	1	0	
232		FLOOR	1	20	
233		LOWER WALL	1	1	
234		UPPER WALL	1	5	
235		UPPER WALL	1	0	
236		LOWER WALL	1	0	
237		FLOOR	1	0	
238		FLOOR	1	20	
239		FLOOR	1	0	
240		FLOOR	1	4	
241		FLOOR	1	9	
242		SIDE OF CABINET	1	4	
243		COUNTER	1	3	
244		COUNTER	1	5	
245		COUNTER	1	0	
246		COUNTER	1	15	
247		FRONT OF CABINET	1	13	
248		DRAWER	1	7	
249		INSIDE CABINET	1	0	
250		CUBBY	1	0	
251		FRONT OF CABINET	1	0	
252		DRAWER	1	0	
253		INSIDE CABINET	1	5	
254		FRONT OF CABINET	1	0	
255		DRAWER	1	0	
256		INSIDE CABINET	1	0	

Radiological Survey Continuation Sheet

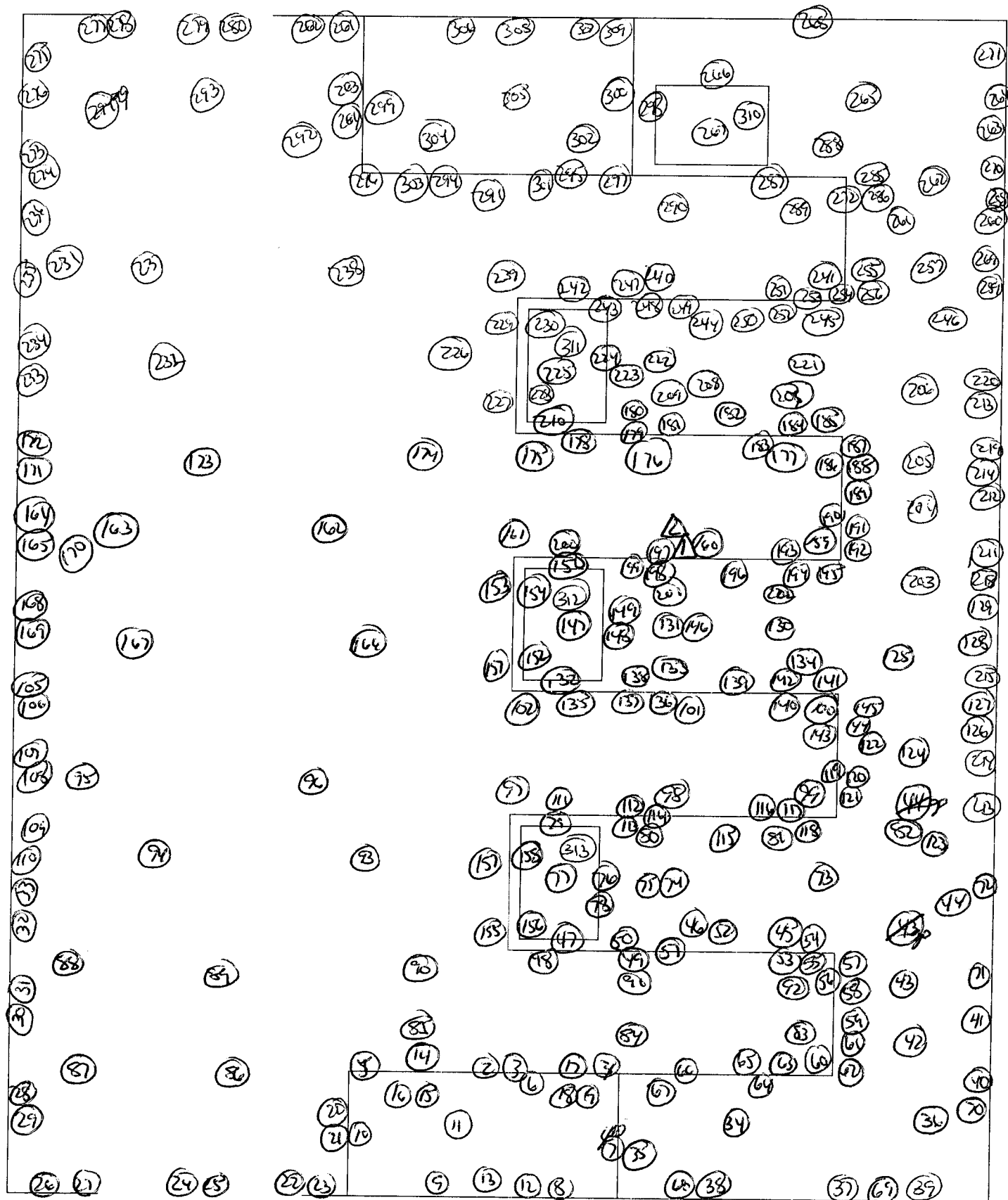
No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
257		COUNTER	1	0	
258		SHELF	1	5	
259		UPPER WALL	1	0	
260		UPPER WALL	1	0	
261		CUBBY	1	0	
262		COUNTER	1	0	
263		SHELF	1	6	
264		UPPER WALL	1	0	
265		COUNTER	1	0	
266		FAUCET	1	7	
267		WALL	1	6	
268		UPPER WALL	1	1	
269		WALL UNIT	1	0	
270		WALL UNIT	1	0	
271		WALL UNIT	1	0	
272		FRONT OF CABINET	1	0	
273		UPPER WALL	1	4	
274		LOWER WALL	1	0	
275		UPPER WALL	1	0	
276		LOWER WALL	1	0	
277		UPPER WALL	1	4	
278		LOWER WALL	1	0	
279		UPPER DOOR	1	0	
280		LOWER DOOR	1	0	
281		UPPER WALL	1	0	
282		LOWER WALL	1	9	
283		UPPER HOOD SIDE	1	8	
284	↓	LOWER HOOD SIDE	1	0	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
285		DRAINAGE	1	0	
286		INSIDE CABINET	1	0	
287		FRONT OF CABINET	1	0	
288		INSIDE CABINET	1	0	
289		FLOOR	1	0	
290		FLOOR	1	0	
291		FLOOR	1	0	
292		FLOOR	1	0	
293		FLOOR	1	0	
294		HOOD SASH	1	0	
295		HOOD LIP	1	0	
296		LEFT FRONT	1	0	
297		RIGHT FRONT	1	1	
298		RIGHT SIDE	1	0	
299		INSIDE HOOD LEFT SIDE	1	0	
300		INSIDE HOOD RIGHT SIDE	1	0	
301		FRONT OF CABINET	1	0	
302		INSIDE CABINET	1	0	
303		FRONT OF CABINET	1	0 15	
304		INSIDE CABINET	1	0	
305		HOOD CENTER	1	0 15 0	
306		TOP BACK HOOD	1	0	
307		BOTTOM BACK HOOD	1	0	
308		FLOW PATH	1	0 1	
309		HOOD DUCT	1	0 7	
310		SINK TRAP	1	0	
311		SINK TRAP	1	0	
312	✓	SINK TRAP	1	0	



HTP
Lab 3
Room 322, PhIII

- ▲ FLEET OF CABINET CONTAMINATED TO A LEVEL OF 103,432 dpm/100m². (C-14)
 - ▲ FLOOR UNDER CABINET CONTAMINATION FOUND TO BE CONTAMINATED TO A LEVEL OF 12,432 dpm/100m² (C-14).
- AREAS DISCONTAMINATED TO NORMAL BACKGROUND LEVELS.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
1	1.00	12	4.00	25.00	18.45	4.30	44.338	873.	E
2	1.00	9	8.00	27.00	12.45	9.65	80.061	796.	E
3	1.00	11	5.00	20.00	16.59	5.56	66.607	868.	E
4	1.00	18	6.31	32.00	27.42	7.01	44.271	842.	E
5	1.00	12	5.00	22.00	18.43	5.65	77.606	837.	E
6	1.00	15	4.00	25.00	24.09	4.49	41.392	800.	E
7	1.00	10	10.00	28.00	13.65	11.86	121.82	830.	E
8	1.00	8	8.00	26.00	10.92	9.51	58.683	826.	E
9	1.00	12	11.35	35.00	16.05	13.83	114.44	785.	E
10	1.00	9	10.00	34.00	11.99	12.06	107.96	807.	E
11	1.00	12	4.00	23.00	19.50	4.85	51.962	740.	
12	1.00	11	13.45	29.00	13.03	17.98	64.601	602.	
13	1.00	26	8.00	43.00	43.99	10.27	38.284	650.	
14	1.00	21	4.46	33.00	32.73	4.68	40.382	838.	E
15	1.00	7	5.00	22.00	10.13	5.83	128.80	838.	E
16	1.00	17	7.00	33.00	26.42	8.09	58.917	808.	E
17	1.00	20	3.95	36.00	32.27	4.14	38.721	825.	E
18	1.00	10	5.00	26.00	15.23	5.82	37.985	814.	E
19	1.00	15	4.00	23.00	24.32	4.59	40.547	779.	E
20	1.00	9	5.00	15.00	13.48	5.79	65.805	831.	E
21	1.00	12	7.91	29.00	17.90	9.44	62.113	797.	E
22	1.00	19	10.00	35.00	28.16	11.13	59.053	881.	E
23	1.00	7	3.00	21.00	11.16	3.71	82.658	731.	
24	1.00	24	9.00	46.00	36.99	9.99	54.910	848.	E
25	1.00	27	7.45	39.00	41.33	7.89	43.571	865.	E
26	1.00	11	3.00	23.00	17.13	3.16	44.138	867.	E
27	1.00	13	4.00	25.00	20.80	4.59	58.158	790.	E
28	1.00	8	3.00	19.00	12.26	3.29	81.563	862.	E
29	1.00	13	10.36	34.00	18.07	12.57	92.532	784.	E
30	1.00	10	7.00	25.00	14.69	8.42	53.248	790.	E
31	1.00	14	4.00	31.00	22.81	4.71	47.704	759.	
32	1.00	19	7.00	33.00	29.68	7.96	52.471	817.	E
33	1.00	12	4.00	24.00	18.98	4.56	36.614	804.	E
34	1.00	16	9.00	30.00	24.96	11.51	55.982	685.	
35	1.00	20	6.29	38.00	31.12	7.07	51.669	816.	E
36	1.00	15	8.00	37.00	22.72	9.38	69.852	810.	E
37	1.00	12	11.94	36.00	16.58	14.72	64.334	766.	E
38	1.00	12	4.78	23.00	18.52	5.19	65.711	883.	E
39	1.00	20	9.14	36.00	29.85	10.13	58.001	873.	E
40	1.00	18	5.52	30.00	29.37	6.21	39.991	809.	E
41	1.00	14	4.00	21.00	22.72	4.67	49.487	768.	E
42	1.00	15	5.00	36.50	24.58	6.17	33.063	719.	
43	1.00	31	7.59	47.00	50.52	8.36	48.562	807.	E
44	1.00	7	5.00	21.00	10.14	5.83	57.646	837.	E
45	1.00	32	8.56	48.00	54.16	10.48	34.605	715.	
46	1.00	16	6.00	35.00	24.98	6.84	50.339	815.	E
47	1.00	16	4.00	30.00	25.37	4.29	39.322	835.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
48	1.00	16	10.00	32.00	23.62	11.62	67.410	833.	E
49	1.00	18	3.58	28.00	29.90	3.83	41.657	808.	E
50	1.00	15	5.00	31.00	23.37	5.53	53.848	840.	E
51	1.00	25	5.00	31.00	23.37	5.53	53.848	840.	E

53	1.00	21	6.00	41.00	32.97	6.50	37.866	843.	E
54	1.00	22	9.00	40.00	33.99	10.25	60.628	825.	E
55	1.00	24	8.00	47.00	39.10	9.76	41.678	734.	
56	1.00	9	3.90	20.00	13.86	4.36	26.544	853.	E
57	1.00	9	4.22	19.00	13.41	4.89	71.855	817.	E
58	1.00	11	4.00	28.00	17.34	4.63	51.039	797.	E
59	1.00	14	8.75	32.00	21.45	10.60	63.153	772.	E
60	1.00	9	3.00	21.00	14.13	3.37	42.533	822.	E
61	1.00	9	12.96	34.00	11.09	15.80	78.864	797.	E
62	1.00	18	8.17	39.00	28.26	10.14	40.248	727.	
63	1.00	16	5.00	26.00	24.87	5.42	41.271	855.	E
64	1.00	13	6.00	26.00	19.98	6.97	61.074	810.	E
65	1.00	5	14.00	31.00	3.67	17.50	122.74	765.	E
66	1.00	14	3.00	34.00	22.18	3.09	55.703	852.	E
67	1.00	16	7.00	36.00	25.30	8.53	52.825	748.	
68	1.00	7	12.00	29.00	7.87	14.83	118.52	777.	E
69	1.00	7	9.00	30.00	8.90	11.12	77.842	770.	E
70	1.00	17	7.00	31.00	27.11	8.56	48.618	741.	
71	1.00	17	5.71	28.00	30.60	7.77	37.683	561.	
72	1.00	17	7.00	32.00	27.32	8.71	37.049	720.	
73	1.00	14	10.00	31.00	20.80	12.60	77.842	723.	
74	1.00	7	6.00	23.00	9.94	7.33	60.373	776.	E
75	1.00	14	5.00	26.00	22.76	6.16	38.182	725.	
76	1.00	9	7.00	25.00	13.08	8.65	61.090	755.	
77	1.00	15	5.33	24.00	22.97	6.06	52.002	815.	E
78	1.00	16	3.00	29.00	25.36	2.98	44.011	861.	E
79	1.00	8	6.00	27.00	11.53	7.06	54.111	826.	E
80	1.00	18	3.00	34.00	29.64	3.20	58.086	789.	E
81	1.00	17	10.00	32.00	25.58	11.91	55.402	794.	E
82	1.00	15	7.00	31.00	23.74	8.72	88.494	724.	
83	1.00	11	4.00	22.00	17.24	4.57	41.409	811.	E
84	1.00	7	7.00	24.00	9.54	8.21	94.695	849.	E
85	1.00	13	5.00	30.00	19.84	5.47	68.837	869.	E
86	1.00	16	4.00	28.00	25.53	4.35	33.063	822.	E
87	1.00	13	12.00	31.00	18.17	14.70	119.48	773.	E
88	1.00	17	7.00	34.00	28.90	9.40	49.057	582.	
89	1.00	7	8.50	23.00	9.93	10.42	82.958	780.	E
90	1.00	13	7.00	28.00	19.48	8.04	71.342	839.	E
91	1.00	10	5.00	31.00	15.13	5.74	45.368	833.	E
92	1.00	9	15.00	33.00	10.34	18.38	105.66	793.	E
93	1.00	15	6.00	30.00	23.29	6.87	48.074	817.	E
94	1.00	11	8.00	27.00	16.90	10.91	51.191	566.	
95	1.00	7	5.00	25.00	10.57	6.56	48.685	636.	
96	1.00	24	11.00	43.00	36.24	12.29	57.046	862.	E
97	1.00	15	9.00	34.00	22.41	10.61	63.197	810.	E
98	1.00	10	6.00	24.00	14.92	7.05	59.485	814.	E
99	1.00	6	3.00	24.00	9.05	3.42	73.117	844.	E
100	1.00	7	7.42	24.00	8.67	9.66	47.577	661.	
101	1.00	12	6.00	29.60	18.17	6.90	57.334	831.	E
102	1.00	14	11.00	30.00	20.45	14.04	74.921	704.	
103	1.00	14	6.00	31.00	21.30	6.70	65.163	856.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
104	1.00	13	15.00	38.00	17.12	18.49	102.20	771.	E
105	1.00	20	10.00	46.00	29.90	11.19	88.649	868.	E
106	1.00	19	10.00	44.00	28.88	11.76	68.960	804.	E
107	1.00	14	10.00	33.00	20.87	11.70	107.11	807.	E

109	1.00	10	9.00	35.00	14.41	12.38	53.556	554.	
110	1.00	4	4.00	11.00	5.47	4.84	79.648	796.	E
111	1.00	12	2.00	24.00	19.15	1.95	40.698	855.	E
112	1.00	18	3.00	30.00	29.07	3.03	39.131	830.	E
113	1.00	12	8.00	30.00	17.60	9.38	61.311	825.	E
114	1.00	9	7.62	29.00	13.58	9.69	66.466	713.	
115	1.00	16	8.00	37.00	25.02	9.89	54.904	736.	
116	1.00	14	13.00	42.00	19.35	15.18	89.523	852.	E
117	1.00	12	4.00	22.00	18.61	4.38	50.658	852.	E
118	1.00	30	11.00	47.00	47.56	12.89	57.232	781.	E
119	1.00	14	13.00	45.00	19.25	14.84	82.390	890.	E
120	1.00	11	6.00	30.00	16.54	6.96	84.026	825.	E
121	1.00	12	8.00	29.00	17.99	9.95	60.399	740.	
122	1.00	14	6.00	25.00	21.98	7.15	66.607	772.	E
123	1.00	164	13.64	192.00	290.33	15.57	20.658	683.	-
124	1.00	30	7.00	52.00	47.78	7.46	33.011	833.	E
125	1.00	14	7.00	35.00	22.22	8.94	60.761	683.	
126	1.00	16	9.00	34.00	24.75	11.30	68.309	720.	
127	1.00	14	9.00	30.00	21.85	11.98	50.662	603.	
128	1.00	10	3.00	17.00	16.16	3.51	79.139	770.	E
129	1.00	7	3.00	25.00	11.05	3.62	71.102	758.	
130	1.00	14	5.00	25.00	22.08	5.76	46.883	799.	E
131	1.00	16	9.00	38.00	24.61	11.14	46.031	741.	
132	1.00	14	8.00	38.00	20.87	9.24	73.027	835.	E
133	1.00	12	6.89	30.00	18.63	8.55	64.200	736.	
134	1.00	8	4.00	19.00	12.30	4.76	48.016	785.	E
135	1.00	16	8.00	34.00	24.53	9.45	65.872	795.	E
136	1.00	14	6.00	32.00	21.47	6.81	78.324	835.	E
137	1.00	16	5.52	28.00	26.00	6.27	40.125	809.	E
138	1.00	11	8.00	29.00	16.25	10.00	69.099	736.	
139	1.00	13	7.00	39.00	19.96	8.48	50.959	765.	E
140	1.00	17	5.00	35.00	26.87	5.54	47.233	824.	E
141	1.00	6	8.34	25.00	6.89	10.08	114.41	814.	E
142	1.00	11	6.00	33.00	17.28	7.70	73.075	676.	
143	1.00	19	9.00	40.00	28.76	10.19	50.443	847.	E
144	1.00	22	7.00	38.00	34.35	7.68	47.707	842.	E
145	1.00	7	6.00	22.00	9.98	7.47	96.794	747.	
146	1.00	89	5.01	106.00	159.01	5.45	19.448	672.	
147	1.00	15	9.00	33.00	22.77	11.04	77.842	755.	
148	1.00	11	8.00	29.00	16.06	9.64	77.209	789.	E
149	1.00	18	9.00	37.00	28.07	11.06	70.561	745.	
150	1.00	13	8.00	37.00	19.09	9.14	74.552	857.	E
151	1.00	5	8.71	31.00	6.13	10.60	71.996	804.	E
152	1.00	9	9.00	20.00	12.36	11.71	73.473	662.	
153	1.00	11	5.62	28.00	17.09	6.31	59.668	861.	E
154	1.00	11	8.00	26.00	16.32	10.14	67.579	714.	
155	1.00	11	4.00	22.00	17.31	4.60	76.826	802.	E
156	1.00	28	9.06	48.00	45.65	11.06	42.207	732.	
157	1.00	19	12.00	47.00	28.12	14.09	79.318	819.	E
158	1.00	13	5.00	29.00	20.61	5.93	41.730	771.	E
159	1.00	12	8.00	34.00	17.53	9.28	65.965	841.	E

203	1.00	14	6.00	33.00	22.50	7.55	51.841	704.	
204	1.00	32	8.00	44.00	51.41	8.85	37.998	806.	E
205	1.00	16	7.97	33.00	24.58	9.39	47.013	797.	E
206	1.00	10	5.00	18.00	15.56	6.10	69.978	753.	
207	1.00	8	9.00	27.00	10.62	10.85	97.150	807.	E
208	1.00	6	8.00	27.00	7.58	9.41	145.93	804.	E

Protocol #:11 Name:RAD DEPT 27-Jun-2008 07:54
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
 Conventional DPM
 Nuclide 1 = 230269 Nuclide 2 = 117000
 Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	10	8.00	23.00	14.54	10.18	61.792	710.	
2	1.00	64	9.00	84.00	115.13	11.48	21.810	820.	
3	1.00	12	12.35	34.00	15.71	15.89	67.945	691.	
4	1.00	14	8.25	27.00	21.03	10.35	73.684	725.	
5	1.00	5	8.95	24.00	5.25	11.51	64.200	707.	
6	1.00	16	11.60	37.00	24.12	14.08	67.926	777.	E
7	1.00	12	11.00	33.00	16.86	13.81	70.550	736.	
8	1.00	9	9.00	22.00	12.38	11.96	80.963	612.	
9	1.00	11	9.00	23.00	15.68	10.76	92.528	806.	E
10	1.00	11	14.00	37.00	13.72	18.36	117.04	646.	
11	1.00	10	7.00	25.00	14.87	8.73	110.65	738.	
12	1.00	14	8.00	36.00	21.80	10.24	75.654	683.	
13	1.00	27	8.00	43.00	43.76	9.38	61.632	761.	E
14	1.00	17	11.00	33.00	25.76	13.90	51.131	714.	
15	1.00	6	13.00	29.00	5.85	16.06	80.166	783.	E
16	1.00	11	13.49	34.00	13.38	16.57	91.485	780.	E
17	1.00	11	17.00	36.00	12.92	21.23	72.970	757.	
18	1.00	11	8.00	32.00	16.04	9.60	75.857	795.	E
19	1.00	14	4.83	22.00	22.71	5.69	50.008	770.	E
20	1.00	11	7.00	23.00	17.20	9.31	61.971	603.	
21	1.00	11	12.00	28.00	14.72	15.20	86.879	726.	
22	1.00	11	9.00	25.00	15.85	11.21	56.496	745.	
23	1.00	16	9.00	33.00	25.54	11.91	39.226	611.	
24	1.00	16	11.37	34.00	23.91	15.37	78.407	579.	
25	1.00	13	8.00	32.00	19.63	9.77	73.142	761.	E
26	1.00	18	13.40	38.00	25.85	16.93	69.688	720.	
27	1.00	14	6.00	26.00	22.69	7.65	53.366	678.	
28	1.00	7	15.00	30.00	6.30	19.34	97.103	702.	

170	31	1.00	9	17.00	33.00	9.38	21.41	115.93	747.	
	31	1.00	18	9.00	36.00	27.71	10.73	66.459	783.	E
	32	1.00	14	13.00	34.00	19.53	15.89	60.871	777.	E
	33	1.00	8	5.00	19.00	11.89	5.91	55.311	808.	E
180	34	1.00	5	6.00	25.00	6.44	7.74	60.406	688.	
	35	1.00	15	13.00	33.00	21.26	15.92	65.518	771.	E
	36	1.00	12	7.00	22.00	18.27	8.55	83.103	758.	
	37	1.00	11	8.00	26.00	16.37	10.26	71.803	689.	
	38	1.00	19	4.00	31.00	31.43	4.57	40.265	762.	E
185	39	1.00	8	20.00	35.00	6.64	25.09	108.91	757.	
	40	1.00	16	6.00	29.00	25.51	7.16	55.810	764.	E
	41	1.00	11	5.00	25.00	17.36	6.13	62.294	743.	
	42	1.00	10	5.00	21.00	15.44	6.00	77.896	773.	E
	43	1.00	12	6.00	22.00	18.17	6.90	53.322	832.	E
190	44	1.00	13	9.97	29.00	19.06	12.50	68.736	733.	
	45	1.00	13	4.00	23.00	20.81	4.60	35.027	788.	E
	46	1.00	15	7.70	39.00	23.36	9.03	59.804	805.	E
193	47	1.00	9	5.00	19.00	13.73	6.04	74.862	772.	E

	S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
194	48	1.00	9	7.20	20.00	12.71	9.08	83.861	726.	
195	49	1.00	18	6.00	30.00	28.81	7.02	44.873	776.	E
	50	1.00	11	5.00	23.00	17.08	5.91	79.748	787.	E
	51	1.00	8	13.00	29.00	9.04	16.52	78.110	728.	
	52	1.00	6	8.00	22.00	7.48	10.07	109.94	741.	
	53	1.00	17	10.06	37.00	25.70	12.26	54.570	762.	E
200	54	1.00	11	11.89	33.00	14.97	14.96	57.222	736.	
	55	1.00	8	12.00	29.00	9.57	14.86	118.69	771.	E
	56	1.00	14	11.00	39.00	20.21	13.38	70.299	777.	E
	57	1.00	16	17.00	41.00	21.59	21.03	68.042	763.	E
	58	1.00	11	7.00	21.00	16.69	8.81	84.173	721.	
205	59	1.00	9	14.00	23.00	10.04	18.38	72.574	646.	
	60	1.00	39	7.00	51.00	64.94	7.86	37.648	762.	E
	61	1.00	9	7.00	24.00	13.09	8.67	89.178	751.	
	62	1.00	9	9.00	28.00	12.36	11.42	67.232	721.	
	63	1.00	11	11.00	26.00	15.07	13.45	110.31	779.	E
210	64	1.00	11	6.00	23.00	16.84	7.26	73.547	768.	E
	65	1.00	14	2.00	24.00	24.71	2.48	23.473	653.	
	66	1.00	20	12.00	41.00	30.64	15.08	58.883	721.	
	67	1.00	15	10.00	31.00	22.52	12.49	72.995	734.	
	68	1.00	12	5.66	26.00	18.55	6.70	74.396	788.	E
215	69	1.00	11	10.00	26.00	15.45	12.35	76.046	760.	
	70	1.00	15	13.92	36.00	21.09	17.13	94.529	767.	E
	71	1.00	24	12.94	42.00	36.93	15.67	66.282	766.	E
	72	1.00	180	6.29	192.00	315.09	4.76	19.295	724.	
	73	1.00	15	8.00	33.00	23.00	9.64	50.802	772.	E
220	74	1.00	13	4.00	26.00	21.75	5.06	54.664	678.	
	75	1.00	8	13.00	26.00	8.99	16.62	115.71	716.	
	76	1.00	14	11.00	32.00	20.78	14.61	63.173	610.	
	77	1.00	12	6.64	24.00	18.91	7.98	63.355	776.	E
	78	1.00	10	7.00	23.00	14.88	8.75	73.264	735.	
225	79	1.00	13	8.00	35.00	19.49	9.60	72.836	785.	E
	80	1.00	11	10.00	29.00	15.42	12.24	78.339	774.	E
	81	1.00	11	4.00	17.00	17.62	4.79	42.265	758.	
	82	1.00	12	4.36	24.00	18.63	5.26	50.257	753.	
	83	1.00	8	8.00	26.00	10.95	9.72	65.404	790.	E
230	84	1.00	16	7.00	31.00	25.55	8.73	49.267	719.	

232	86	1.00	19	11.00	40.00	29.49	14.07	59.759	686.	
	87	1.00	12	7.00	26.00	18.36	8.67	53.857	741.	
	88	1.00	15	5.00	29.00	26.32	6.75	38.921	572.	
235	89	1.00	11	4.00	20.00	17.94	4.99	65.056	711.	
	90	1.00	11	4.00	23.00	18.09	5.06	40.018	685.	
	91	1.00	12	8.00	25.00	17.69	9.50	61.231	805.	E
	92	1.00	20	11.00	40.00	30.66	13.37	55.450	762.	E
	93	1.00	11	6.00	25.00	16.73	7.14	55.325	789.	E
240	94	1.00	14	8.00	28.00	21.22	9.60	46.691	782.	E
	95	1.00	17	8.00	32.00	26.01	9.25	69.657	819.	E
	96	1.00	17	9.00	28.00	26.67	11.43	70.064	697.	
	97	1.00	16	8.00	27.00	24.98	9.85	57.312	742.	
	98	1.00	14	6.14	29.00	21.54	7.22	43.656	792.	E
245	99	1.00	10	5.00	22.00	15.56	6.11	68.556	752.	
	100	1.00	10	15.00	36.00	11.40	19.72	83.332	642.	
	101	1.00	15	13.18	35.00	21.21	17.51	66.722	611.	
	102	1.00	12	6.00	30.00	19.00	7.63	38.877	692.	
249	103	1.00	9	9.00	23.00	12.33	11.04	69.728	775.	E

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S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG	
250	104	1.00	19	4.00	25.00	30.87	4.37	39.218	799.	E
	105	1.00	9	6.99	24.00	13.21	8.92	79.548	701.	
	106	1.00	5	7.00	14.00	5.93	9.20	86.001	643.	
	107	1.00	11	11.00	29.00	15.08	13.50	70.839	774.	E
	108	1.00	6	12.00	23.00	6.31	14.60	101.65	811.	E
255	109	1.00	9	10.00	25.00	11.98	12.54	56.091	743.	
	110	1.00	11	5.00	22.00	17.33	6.11	53.768	747.	
	111	1.00	14	4.00	20.00	23.27	4.93	47.347	713.	
	112	1.00	12	7.00	29.00	18.18	8.45	45.024	775.	E
	113	1.00	8	8.00	18.00	10.95	9.72	86.369	791.	E
260	114	1.00	3	8.00	22.00	2.39	9.93	102.14	778.	E
	115	1.00	10	4.00	20.00	16.24	5.05	51.589	695.	
	116	1.00	7	8.00	22.00	9.25	9.84	62.488	773.	E
	117	1.00	11	8.02	23.00	16.00	9.62	72.478	795.	E
	118	1.00	8	11.00	23.00	9.94	13.51	114.88	782.	E
265	119	1.00	10	7.87	21.00	14.63	9.51	65.805	787.	E
	120	1.00	13	13.00	30.00	17.77	15.61	68.213	810.	E
	121	1.00	10	9.00	22.00	13.94	10.60	74.928	836.	E
	122	1.00	8	6.00	26.00	11.66	7.32	84.148	772.	E
	123	1.00	9	10.00	24.00	11.93	12.86	74.506	695.	
270	124	1.00	9	5.00	17.00	14.29	6.55	95.154	631.	
	125	1.00	7	8.00	24.00	9.18	10.35	74.900	679.	
	126	1.00	9	6.22	22.00	12.87	7.49	83.567	789.	E
	127	1.00	12	8.00	28.00	17.55	9.31	80.972	836.	E
	128	1.00	8	8.00	24.00	10.99	10.08	97.604	732.	
275	129	1.00	11	9.00	25.00	15.69	10.78	80.090	804.	E
	130	1.00	5	8.00	20.00	5.58	10.36	82.843	684.	
	131	1.00	14	8.00	28.00	21.43	9.83	47.347	750.	
	132	1.00	10	6.00	20.00	15.44	7.68	53.166	685.	
	133	1.00	13	9.03	25.00	19.20	11.05	84.408	763.	E
280	134	1.00	6	6.00	19.00	8.20	7.17	74.499	817.	E
	135	1.00	8	11.00	23.00	9.99	13.32	92.752	807.	E
	136	1.00	12	12.00	32.00	16.47	15.01	78.779	745.	
	137	1.00	16	3.00	31.00	27.30	3.63	47.643	705.	
	138	1.00	8	9.89	25.00	10.35	12.83	72.582	676.	
285	139	1.00	11	4.00	23.00	17.28	4.59	60.134	806.	E
286	140	1.00	10	3.00	21.00	15.98	3.42	54.447	794.	F

288	142	1.00	11	2.00	20.00	18.68	2.38	31.483	720.	
	143	1.00	12	4.00	23.00	19.93	5.06	26.483	680.	
290	144	1.00	11	6.00	25.00	16.84	7.26	72.508	768.	E
	145	1.00	6	7.00	18.00	7.88	8.56	102.97	784.	E
	146	1.00	8	3.65	16.00	13.06	4.35	79.180	775.	E
	147	1.00	8	4.00	18.00	12.47	4.91	52.697	746.	
	148	1.00	11	0.00	20.00	18.71	0.00	12.402	790.	E
295	149	1.00	9	9.00	23.00	12.35	11.18	60.009	755.	
	150	1.00	9	2.00	16.00	14.82	2.29	27.139	765.	E
	151	1.00	10	8.35	26.00	14.11	10.30	61.436	760.	E
298	152	1.00	8	5.00	21.00	12.02	6.07	65.311	770.	E
	153	1.00	9	5.00	20.00	13.66	5.96	77.384	789.	E
300	154	1.00	6	5.00	13.00	8.63	6.31	90.901	725.	
	155	1.00	7	9.00	23.00	8.88	11.20	79.949	758.	
	156	1.00	10	7.00	22.00	14.78	8.55	68.071	766.	E
303	157	1.00	18	12.00	36.00	26.92	14.82	62.488	750.	
	158	1.00	8	9.00	24.00	10.62	11.04	99.227	778.	E
307	159	1.00	4	4.00	16.00	5.50	5.26	59.987	634.	

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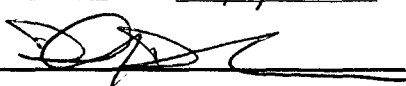
S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG	
306	160	1.00	10	4.45	19.00	14.81	5.30	46.889	781.	E
	161	1.00	7	5.00	17.00	10.27	6.05	71.423	780.	E
	162	1.00	11	10.60	26.00	16.16	15.66	43.043	464.	
	163	1.00	12	7.00	30.00	18.46	8.79	50.684	721.	
310	164	1.00	6	7.00	18.00	7.88	7.91	90.250	923.	E
311	165	1.00	8	7.00	25.00	11.18	8.15	93.625	854.	E
312	166	1.00	3	3.00	11.00	4.09	3.50	109.41	856.	E
313	167	1.00	10	5.00	22.00	14.72	5.42	76.291	913.	E
(1 missing vial)										
3H	169	1.00	****	673.88	128344.	196675.	0.00	20.130	974.	E
YC	170	1.00	****	103011.	130294.	21529.7	115693.	159.10	988.	E
Junk	171	1.00	16	5.00	28.00	23.71	4.89	46.010	970.	E

Protocol #: 7 Name:RAD DEPT 27-Jun-2008 13:46
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
 Conventional DPM
 Nuclide 1 = 230269 Nuclide 2 = 117000
 Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
314 1	1.00	9	6.00	25.00	12.88	6.63	77.789	917.	E
2	1.00	11	0.00	16.00	17.52	0.00	24.387	912.	E
3	1.00	11	5.00	24.00	16.83	5.73	74.733	827.	E
4	1.00	10	8.61	29.00	14.62	7.77	91.738	861.	E
5	1.00	17	5.02	33.00	26.54	5.43	55.518	850.	E
6	1.00	19	6.00	34.00	29.47	6.49	44.940	857.	E
7	1.00	10	6.00	20.00	14.44	6.55	59.181	924.	E
8	1.00	14	3.80	23.00	22.00	3.92	61.971	883.	E
9	1.00	15	7.28	25.00	21.82	7.97	72.955	897.	E
10	1.00	31	10.01	49.00	48.73	11.17	52.065	823.	E
315 11	1.00	13	10.00	34.00	18.55	11.58	111.37	853.	E
316 12	1.00	16	6.64	26.00	24.70	7.21	84.437	887.	E
317 13	1.00	12	7.00	27.00	17.54	7.78	69.099	894.	E
14	1.00	11	5.00	27.00	16.56	5.54	73.328	872.	E
15	1.00	51	9.02	79.00	79.35	8.35	44.512	904.	E
(1 missing vial)									
318 17	1.00	14	3.00	30.00	22.62	3.24	62.784	810.	E
18	1.00	12	5.00	29.00	18.82	5.71	64.766	781.	E

Job Location: Neurogen Corp. Branford, CT Page: 1 of 6

Survey Purpose: Decommissioning Room 071 / Phase I Date: 6/2/08

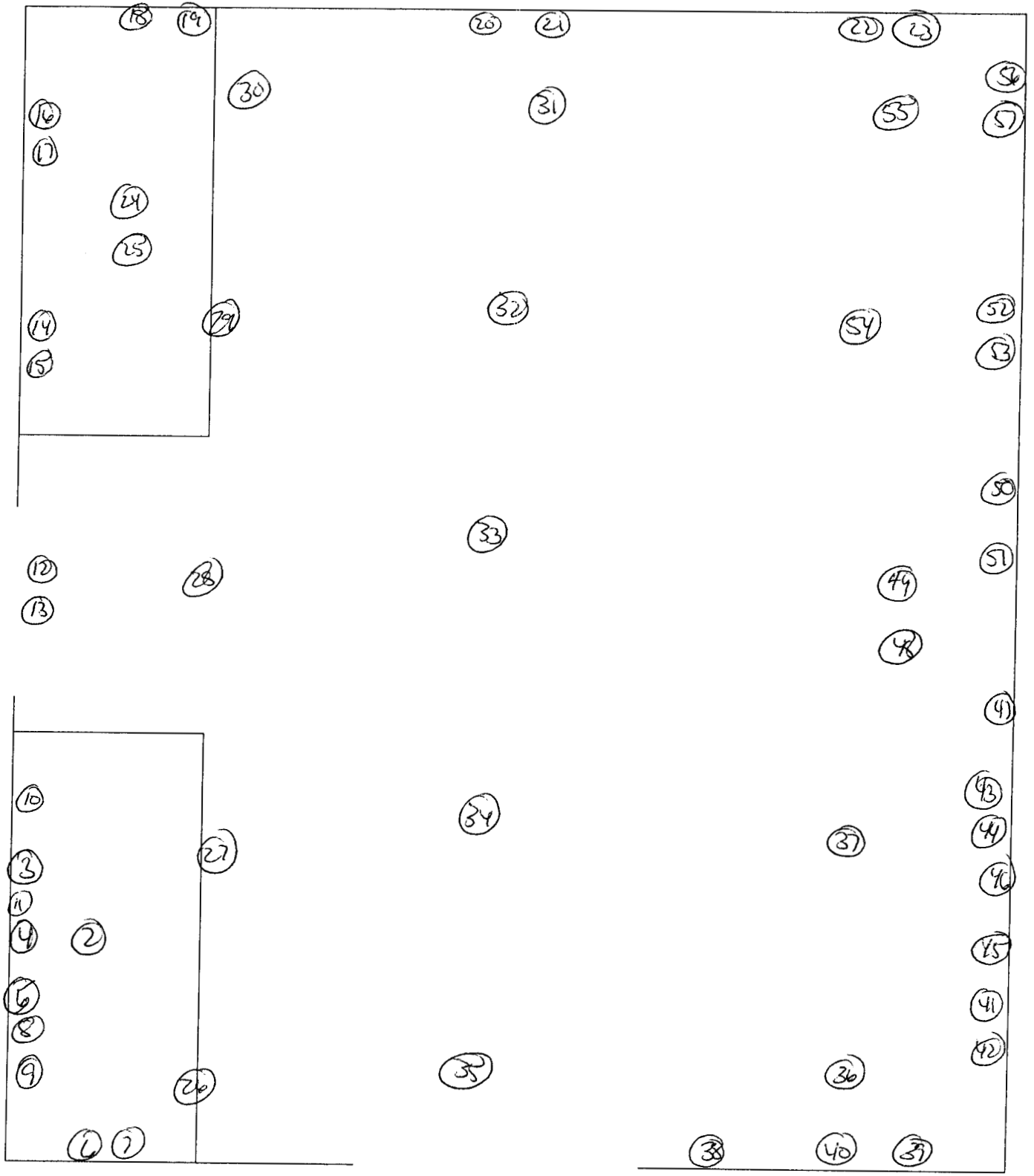
Performed By: David J. Durkee 

Inst. No. 1 (Model/SN) # Packard 1600TR #10325 # 40915	Inst. No. 2 (Model/SN) Ludlum 2241-2 # 137757	Inst. No. 3 (Model/SN) Ludlum 3 # 114208
Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-68 # 140899	Detector (Model/SN) Ludlum 44-21 # 156898
Efficiency: <u>40% H-3 / 75% OTHERS</u> See Printout #	Efficiency: <u>7.4% C-14</u>	Efficiency: <u>16% I-125</u>
Type Rad.: β	Type Rad.: β	Type Rad.: γ
Bkgd.: See #1 Below	Bkgd.: <u>290 cpm</u>	Bkgd.: <u>300 cpm</u>
Cal. Due: <u>12/3/08</u>	Cal. Due: <u>9/10/08</u>	Cal. Due: <u>5/20/09</u>

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	1050	Background	1	46 Cpm	
2		TABLE	1	4	
3		BOTTOM SITE/F	1	0	
4		SITE/F	1	0	
5		TOP SITE/F	1	570 0	
6		UPPER WALL	1	0	
7		LOWER WALL	1	0	
8		UPPER WALL	1	0	
9		LOWER WALL	1	0	
10		UPPER WALL	1	0	
11		LOWER WALL	1	0	
12		UPPER DOOR	1	0	
13		LOWER DOOR	1	0	
14		UPPER WALL	1	0	
15		LOWER WALL	1	0	
16		UPPER WALL	1	0	
17		LOWER WALL	1	0	
18		UPPER WALL	1	0	
19		LOWER WALL	1	0	
20		UPPER WALL	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		Lower wall	1	0	
22		Upper wall	1	0	
23		Lower wall	1	0	
24		TABLE TOP	1	0	
25		TABLE SHELF	1	0	
26		FLOOR	1	0	
27		FLOOR	1	0	
28		FLOOR	1	0	
29		FLOOR	1	0	
30		FLOOR	1	0	
31		FLOOR	1	0	
32		FLOOR	1	0	
33		FLOOR	1	0	
34		FLOOR	1	0	
35		FLOOR	1	0	
36		FLOOR	1	0	
37		FLOOR	1	0	
38		Upper wall	1	0	
39		Lower wall	1	9	
40		SHELVES	1	0	
41		Upper wall	1	0	
42		Lower wall	1	0	
43		Upper wall	1	0	
44		Lower wall	1	0	
45		BOTTOM SHELF	1	0	
46		SHELF	1	0	
47		TOP SHELF	1	0	
48		LSC CACT	1	0	
49		FLOOR	1	0	
50		Upper wall	1	0	
51	↓	Lower wall	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		UPPER WALL	1	0	
53		LOWER WALL	1	0	
54		FLOOR	1	0	
55		FLOOR	1	11	
56		UPPER WALL	1	0	
57	↓	LOWER WALL	1	7	
58			1		
59			1		
60			1		
61			1		
62			1		
63			1		
64			1		
65			1		
66			1		
67			1		
68			1		
69			1		
70			1		
71			1		
72			1		
73			1		
74			1		
75			1		
76			1		
77			1		
78			1		
79			1		
80			1		
81			1		
82			1		



PHAMARCOLOGY
Equipment Room
Room 071, Phi

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	23	18.00	60.00	31.97	19.52	76.414	962.	E <i>Ren</i>
2	1.00	14	10.00	49.00	21.29	13.28	45.876	609.	
3	1.00	15	13.95	39.00	20.88	16.57	65.639	825.	E
4	1.00	25	5.00	39.00	40.37	5.30	40.874	817.	E
5	1.00	42	24.90	88.00	64.38	30.97	58.379	734.	E <i>Ren</i>
6	1.00	85	20.60	126.00	137.42	22.14	44.237	799.	E <i>Ren</i>
7	1.00	25	10.00	46.00	38.03	10.97	54.753	870.	E
8	1.00	57	16.97	96.00	94.00	23.70	43.736	702.	E <i>Ren</i>
9	1.00	42	5.00	64.00	64.91	3.77	28.753	937.	E <i>Ren</i>
10	1.00	20	7.60	35.00	32.78	9.22	43.811	745.	
11	1.00	23	5.00	41.00	37.13	5.41	32.845	810.	E
12	1.00	16	9.76	40.00	24.29	11.57	58.089	803.	E
13	1.00	34	10.00	56.00	52.40	10.48	50.783	883.	E <i>Ren</i>
14	1.00	16	8.00	31.00	24.20	9.17	56.376	835.	E
15	1.00	25	10.00	46.00	40.94	12.79	43.839	670.	
16	1.00	22	6.00	41.00	34.39	6.37	55.373	859.	E
17	1.00	11	14.00	32.00	14.09	16.91	95.273	809.	E
18	1.00	15	3.00	24.00	24.23	3.19	50.379	816.	E
19	1.00	22	8.00	39.00	33.53	8.61	46.866	882.	E
20	1.00	16	1.00	29.00	25.29	0.45	27.096	909.	E
21	1.00	9	3.00	24.00	14.68	3.67	45.743	730.	
22	1.00	16	12.00	37.00	23.43	14.86	61.162	750.	
23	1.00	9	4.00	21.00	13.66	4.48	38.890	856.	E
24	1.00	27	10.18	41.00	42.21	11.84	52.314	793.	E
25	1.00	11	6.00	22.00	17.72	7.97	48.528	603.	
26	1.00	15	11.00	39.00	23.01	15.00	62.595	565.	
27	1.00	18	21.00	55.00	23.31	27.65	49.920	638.	E <i>Ren</i>
28	1.00	13	8.48	38.00	18.38	10.05	70.926	810.	E
29	1.00	29	15.00	58.00	44.31	22.84	42.083	786.	E <i>Ren</i>
30	1.00	12	4.00	22.00	19.87	5.04	42.332	688.	
31	1.00	5	6.62	31.00	6.79	8.75	60.722	627.	
32	1.00	17	6.52	31.00	27.37	7.47	70.687	809.	E
33	1.00	12	5.00	28.00	18.65	5.80	67.137	805.	E
34	1.00	11	8.00	42.00	15.89	9.35	68.677	835.	E
35	1.00	9	11.00	30.00	11.46	14.33	71.663	663.	
36	1.00	9	11.00	32.00	11.27	15.06	63.718	563.	
37	1.00	11	12.00	32.00	14.67	15.51	94.555	680.	
38	1.00	35	13.60	62.00	56.15	15.70	56.242	758.	E <i>Ren</i>
39	1.00	28	12.15	53.00	43.33	14.29	44.579	791.	E
40	1.00	17	3.00	25.00	28.54	3.43	28.890	747.	
41	1.00	16	10.00	41.00	24.62	12.90	74.077	669.	
42	1.00	14	13.20	35.00	19.24	17.20	60.277	656.	
43	1.00	15	14.00	39.00	21.19	18.77	42.726	595.	
44	1.00	13	4.78	28.00	21.61	6.06	45.208	679.	
45	1.00	15	8.00	30.00	23.44	10.09	57.989	711.	
46	1.00	20	7.00	40.00	31.55	8.05	55.878	800.	E
47	1.00	6	9.00	23.00	6.92	11.69	65.163	673.	

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
48	1.00	11	10.00	29.00	15.69	13.42	54.264	593.	
49	1.00	8	14.00	31.00	5.40	20.95	65.878	451.	
50	1.00	28	11.00	57.00	45.97	14.07	45.022	668.	E <i>Ren</i>
51	1.00	14	4.04	34.00	24.25	8.03	39.070	148.	

53	1.00	12	7.00	34.00	18.39	8.70	70.959	736.	
54	1.00	6	12.00	29.00	4.79	16.47	64.111	560.	
55	1.00	20	15.24	54.00	30.09	21.10	47.783	544.	
56	1.00	14	7.00	34.00	23.39	9.55	58.926	562.	
57	1.00	23	13.00	51.00	35.75	16.55	68.569	696.	
(1 missing vial)									
3H uc 59	1.00	****	639.21	128680.	197143.	0.00	20.080	975.	E
60	1.00	****	103662.	131219.	21892.5	116415.	158.87	988.	E
3H uc 61	1.00	11	0.00	16.00	16.94	0.00	18.136	976.	E
(1 missing vial)									
# 1 63 90	1.00	19	10.00	46.00	27.78	10.82	79.309	922.	E
5 64	1.00	14	4.00	30.00	27.20	5.02	36.193	675.	
6 65	1.00	18	10.66	43.00	27.79	12.86	57.559	775.	E
8 66	1.00	10	8.86	30.00	14.52	11.59	62.679	646.	
9 67	1.00	11	7.11	24.00	15.69	7.92	63.754	901.	E
13 68	1.00	6	9.15	27.00	6.38	12.19	76.184	612.	
28 69	1.00	12	9.00	36.00	17.71	11.49	51.207	701.	
38 70	1.00	12	5.97	29.00	18.85	7.40	39.144	734.	
50 71	1.00	13	7.00	26.00	19.84	8.37	61.231	784.	E
27 72	1.00	7	7.00	25.00	9.62	9.14	93.663	653.	

Job Location: Neurogen Corp.

Branford, CT

Page: 1 of 16

Survey Purpose: Decommissioning

LAS 316 / PH 3

Date: 6/27/08

Performed By: David J. Durkee



Inst. No. 1 (Model/SN) Packard 1600TR #10225 #401915	Inst. No. 2 (Model/SN) Ludlum 2241-2 #137757	Inst. No. 3 (Model/SN) Ludlum 3 #114208
Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-68 #140899	Detector (Model/SN) Ludlum 44-21 #156898
Efficiency: <u>40% H-3 / 75% alpha</u> See Printout	Efficiency: <u>7.4% C-14</u>	Efficiency: <u>16% I-125</u>
Type Rad.: β	Type Rad.: <u>β</u>	Type Rad.: <u>γ</u>
Bkgd.: See #1 Below	Bkgd.: <u>320 cpm / 400 cpm floors</u>	Bkgd.: <u>340 cpm</u>
Cal. Due: <u>12/3/08</u>	Cal. Due: <u>9/10/08</u>	Cal. Due: <u>5/20/09</u>

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	<u>1000</u>	Background	1	<u>30</u> Cpm	
2		<u>UPPER DOOR</u>	1	<u>0</u>	
3		<u>LOWER DOOR</u>	1	<u>0</u>	
4		<u>UPPER WALL</u>	1	<u>0</u>	
5		<u>LOWER WALL</u>	1	<u>4</u>	
6		<u>BOTTOM SHELF</u>	1	<u>0</u>	
7		<u>UPPER WALL</u>	1	<u>0</u>	
8		<u>WALL UNIT</u>	1	<u>0</u>	
9		<u>WALL UNIT</u>	1	<u>3</u>	
10		<u>WALL UNIT</u>	1	<u>0</u>	
11		<u>WALL UNIT</u>	1	<u>0</u>	
12		<u>WALL UNIT</u>	1	<u>0</u>	
13		<u>UPPER WALL</u>	1	<u>0</u>	
14		<u>UPPER WALL</u>	1	<u>3</u>	
15		<u>WALL UNIT</u>	1	<u>0</u>	
16		<u>UPPER WALL</u>	1	<u>0</u>	
17		<u>UPPER WALL</u>	1	<u>0</u>	
18		<u>UPPER WALL</u>	1	<u>0</u>	
19		<u>UPPER WALL</u>	1	<u>8</u>	
20		<u>UPPER WALL</u>	1	<u>0</u>	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		SHelf	1	0	
22		SHelf	1	4	
23		UPPER WALL	1	0	
24		COUNTER	1	0	
25		COUNTER	1	0	
26		COUNTER	1	0	
27		COUNTER	1	0	
28		Cup sink	1	0	
29		FANET	1	8	
30		COUNTER	1	0	
31		COUNTER	1	8	
32		COUNTER	1	5	
33		COUNTER	1	1	
34		FRONT OF CABINET	1	0	
35		LEFT DRAWER	1	0	
36		CABINET	1	5	
37		RIGHT DRAWER	1	0	
38		INSIDE CABINET	1	0	
39		FRONT OF CABINET	1	0	
40		LEFT DRAWER	1	0	
41		CABINET	1	0	
42		RIGHT DRAWER	1	0	
43		CABINET	1	0	
44		CUBBY	1	0	
45		CUP SINK	1	3	
46		FANET	1	3	
47		FRONT OF CABINET	1	0	
48		LEFT DRAWER	1	0	
49		RIGHT DRAWER	1	0	
50		CABINET	1	0	
51	↓	FRONT OF CABINET	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		LEFT DRAWER	1	0	
53		CABINET	1	0	
54		RIGHT DRAWER	1	25	
55		CABINET	1	6	
56		CUBBY	1	0	
57		FRONT OF CABINET	1	9	
58		LEFT DRAWER	1	0	
59		CABINET	1	0	
60		RIGHT DRAWER	1	0	
61		CABINET	1	0	
62		COUNTER	1	0	
63		UPPER WALL	1	0	
64		UPPER WALL	1	0	
65		COUNTER	1	0	
66		TOP DRAWER	1	0	
67		BOTTOM DRAWER	1	3	
68		CUBBY	1	0	
69		TOP DRAWER	1	4	
70		DRAWER	1	0	
71		BOTTOM DRAWER	1	0	
72		COUNTER	1	0	
73		COUNTER	1	11	
74		COUNTER	1	0	
75		SINK	1	0	
76		FANET	1	0	
77		TO BEHIND FRONT OF CABINET	1	0	
78		INSIDE CABINET	1	0	
79		FRONT OF CABINET	1	0	
80		INSIDE CABINET	1	0	
81		SIDE OF CABINET	1	0	
82	↓	FRONT OF DRAWERS	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
83		TOP DRAWER	1	0	
84		DRAWER	1	0	
85		DRAWER	1	0	
86		BOTTOM DRAWER	1	0	
87		FRONT OF DRAWERS	1	0	
88		TOP DRAWER	1	5	
89		DRAWER	1	0	
90		DRAWER	1	0	
91		BOTTOM DRAWER	1	4	
92		CUBBY	1	0	
93		FRONT OF DRAWERS	1	0	
94		TOP DRAWER	1	4	
95		DRAWER	1	0	
96		DRAWER	1	1	
97		BOTTOM DRAWER	1	0	
98		TOP DRAWER	1	12	
99		DRAWER	1	7	
100		DRAWER	1	4	
101		BOTTOM DRAWER	1	0	
102		FRONT OF DRAWERS	1	0	
103		CUP SINK	1	0	
104		FANLOT	1	0	
105		CUP SINK	1	1	
106		FANLOT	1	0	
107		CUP SINK	1	4	
108		FANLOT	1	0	
109		Shelves	1	0	
110		Shelves	1	11	
111		Shelves	1	0	
112		FLOOR	1	0	
113	✓	FLOOR	1	7	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
114		Floor	1	0	
115		Floor	1	0	
116		Floor	1	5	
117		Floor	1	0	
118		Floor	1	0	
119		Floor	1	5	
120		Floor	1	1	
121		Floor	1	0	
122		Floor	1	3	
123		Floor	1	7	
124		Floor	1	1	
125		Floor	1	0	
126		Floor	1	0	
127		Floor	1	0	
128		Floor	1	11	
129		Floor	1	0	
130		Floor	1	0	
131		Floor	1	0	
132		Floor	1	1	
133		Floor	1	0	
134		Floor	1	0	
135		Floor	1	0	
136		Floor	1	0	
137		Floor	1	0	
138		Floor	1	7	
139		Floor	1	3	
140		Floor	1	0	
141		Floor	1	1	
142		COUNTER	1	25	
143		COUNTER	1	4	
144	↓	COUNTER	1	0	

Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
145		COUNTER	1	0	
146		SIDE OF CABINET	1	5	
147		FRONT OF DRAWERS	1	0	
148		TOP DRAWER LEFT	1	3	
149		DRAWER	1	11	
150		DRAWER	1	15	
151		BOTTOM DRAWER	1	4	
152		TOP DRAWER RIGHT	1	4	
153		DRAWER	1	0	
154		DRAWER	1	12	
155		BOTTOM DRAWER	1	0	
156		COBBY	1	17	
157		FRONT OF DRAWERS	1	16	
158		TOP DRAWER LEFT	1	0	
159		DRAWER	1	15	
160		DRAWER	1	5	
161		BOTTOM DRAWER	1	13	
162		TOP DRAWER RIGHT	1	23	
163		DRAWER	1	21	
164		DRAWER	1	0	
165		BOTTOM DRAWER	1	0	
166		COBBY	1	0	
167		FRONT OF DRAWERS	1	4	
168		TOP DRAWER LEFT	1	19	
169		DRAWER	1	12	
170		DRAWER	1	19	
171		BOTTOM DRAWER	1	9	
172		TOP DRAWER RIGHT	1	11	

Radiological Survey Continuation Sheet

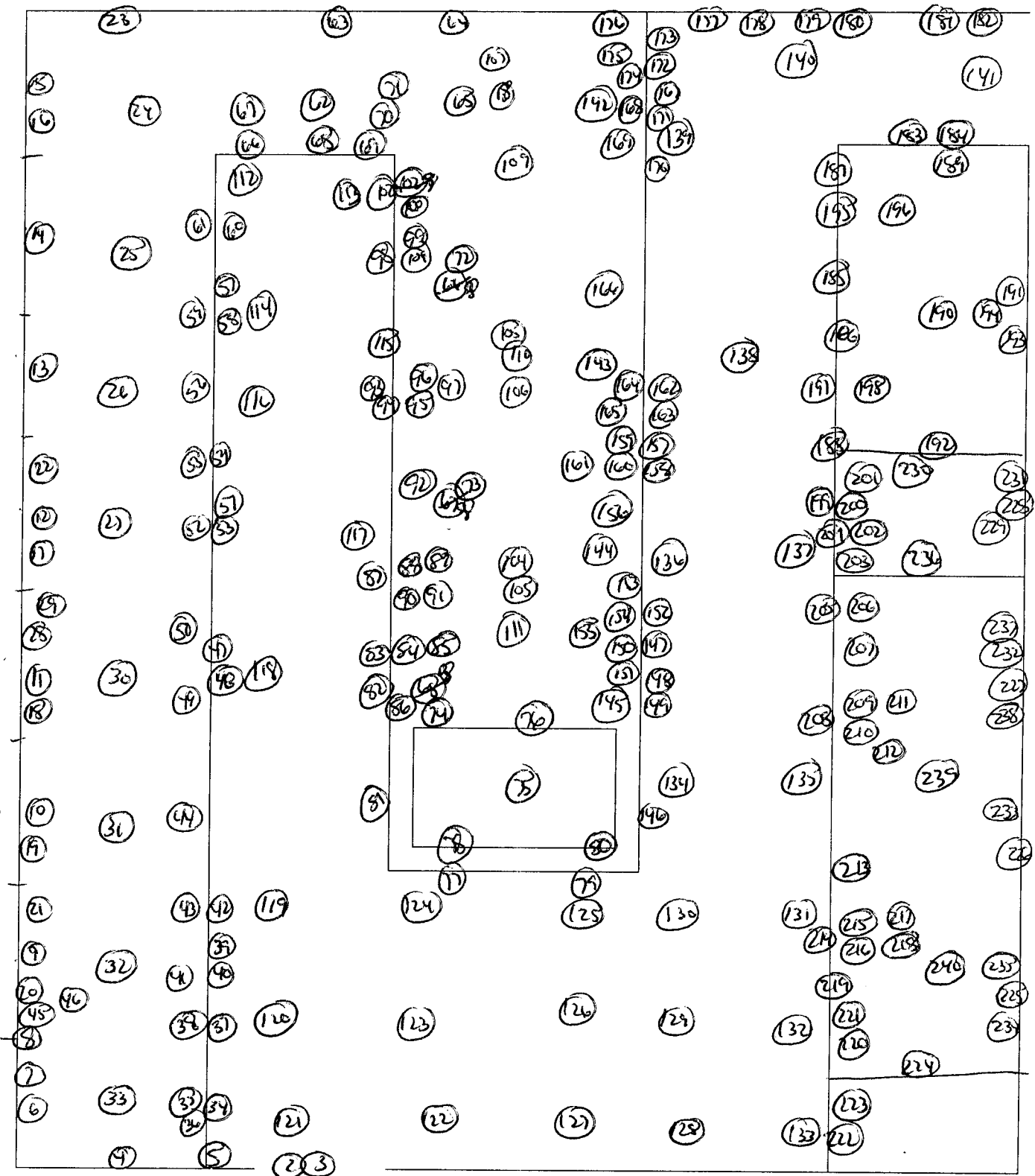
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Date 6/27/08

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
173		DRAWER	1	0	
174		DRAWER	1	0	
175		BOTTOM DRAWER	1	0	
176		UPPER WALL	1	0	
177		UPPER WALL	1	0	
178		LOWER WALL	1	7	
179		UPPER WALL	1	0	
180		LOWER WALL	1	0	
181		UPPER WALL	1	0	
182		LOWER WALL	1	0	
183		UPPER WALL	1	0	
184		LOWER WALL	1	0	
185		HOOD SASH	1	0	
186		HOOD LIP	1	0	
187		LEFT SIDE FLUX	1	0	
188		RIGHT FLUX SIDE	1	0	
189		LEFT SIDE HEAD	1	0	
190		COUNTER	1	0	
191		BACK HOOD	1	0	
192		RIGHT SIDE HOOD	1	0	
193		FLOW PATH	1	0	
194		DUCT	1	0	
195		FRONT OF CABINET	1	11	
196		INSIDE CABINET	1	0	
197		FRONT OF CABINET	1	0	
198		INSIDE CABINET	1	0	
199		FRONT OF DRAWERS	1	0	
200	↓	TOP DRAWER	1	0	

Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
201		DRINKER	1	0	
202		DRINKER	1	0	
203		9 BOTTOM DRINKER	1	0	
204		BOTTOM DRINKER	1	0	
205		FRONT OF CABINET	1	0	
206		DRINKER	1	0	
207		CABINET	1	0	
208		FRONT OF DRINKERS	1	0	
209		TOP DRINKER	1	0	
210		DRINKER	1	0	
211		DRINKER	1	7	
212		BOTTOM DRINKER	1	0	
213		CABBY	1	0	
214		FRONT OF DRINKERS	1	0	
215		TOP DRINKER	1	0	
216		DRINKER	1	0	
217		DRINKER	1	0	
218		BOTTOM DRINKER	1	0	
219		DRINKER	1	0	
220		CABINET	1	0	
221		FRONT OF CABINET	1	0	
222		LOWER WALL	1	0	
223		UPPER WALL	1	0	
224		UPPER WALL	1	0	
225		UPPER WALL	1	0	
226		UPPER WALL	1	0	
227		UPPER WALL	1	0	
228	↓	UPPER WALL	1	0	



BIOCHEMISTRY
LAB 4
Room 316, Phlll

*Team meet
version*

Protocol #:11 Name:RAD DEPT 27-Jun-2008 14:22
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
 Conventional DPM
 Nuclide 1 = 230269 Nuclide 2 = 117000
 Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	13	8.00	30.00	18.99	9.03	63.818	876.	E
2	1.00	13	7.00	29.00	19.33	7.90	89.158	863.	E
3	1.00	15	3.00	26.00	23.34	2.89	45.118	896.	E
4	1.00	13	0.00	24.00	21.86	0.00	28.520	812.	E
5	1.00	17	4.00	33.00	27.01	4.25	60.990	837.	E
6	1.00	5	9.00	21.00	5.48	11.12	99.395	779.	E
7	1.00	7	4.00	15.00	10.47	4.65	59.385	827.	E
8	1.00	10	6.00	26.00	16.29	8.31	45.743	542.	
9	1.00	11	8.00	32.00	17.41	11.61	49.502	483.	
10	1.00	7	6.00	19.00	10.03	7.71	66.422	688.	
11	1.00	11	6.00	28.00	17.38	7.77	53.909	656.	
12	1.00	6	8.00	22.00	7.40	10.30	79.448	695.	
13	1.00	8	8.00	25.00	11.03	10.80	62.595	584.	
14	1.00	9	8.00	32.00	13.03	11.03	84.499	551.	
15	1.00	12	1.00	21.00	20.62	1.02	19.260	741.	
16	1.00	11	5.00	26.00	17.54	6.28	67.310	710.	
17	1.00	13	2.00	22.00	21.34	2.07	50.718	801.	E
18	1.00	8	9.10	27.00	10.38	11.52	102.81	729.	
19	1.00	18	8.00	36.00	27.71	9.23	67.966	816.	E
20	1.00	9	2.00	25.00	14.46	2.15	44.065	819.	E
21	1.00	11	4.00	21.00	17.57	4.76	49.327	765.	E
22	1.00	10	10.66	33.00	14.06	13.76	77.804	682.	
	1.00	12	9.00	26.00	17.78	11.60	63.512	677.	
24	1.00	6	5.00	19.00	8.52	5.97	84.335	810.	E
25	1.00	11	5.00	24.00	17.34	6.12	79.347	745.	
26	1.00	7	6.00	19.00	10.32	8.41	57.780	528.	
27	1.00	10	7.00	22.00	14.85	8.69	55.325	745.	
28	1.00	10	5.00	26.00	15.46	6.02	89.238	770.	E

30	1.00	10	9.00	27.00	13.73	10.01	58.033	933.	E
31	1.00	13	9.00	36.00	19.41	11.30	65.732	727.	E
32	1.00	17	8.00	34.00	25.91	9.18	71.088	829.	E
33	1.00	9	5.00	31.00	13.98	6.31	55.946	712.	E
34	1.00	12	5.00	27.00	18.67	5.81	57.025	803.	E
35	1.00	16	6.00	27.00	24.40	6.52	62.522	875.	E
36	1.00	16	8.00	34.00	24.37	9.31	77.174	814.	E
37	1.00	11	4.00	25.00	17.12	4.50	44.940	829.	E
38	1.00	13	6.00	30.00	20.36	7.26	53.641	760.	E
39	1.00	7	9.00	20.00	8.89	11.14	93.792	767.	E
40	1.00	8	8.00	18.00	10.92	9.48	122.48	831.	E
41	1.00	15	4.00	24.00	23.75	4.35	37.675	832.	E
42	1.00	10	4.00	27.00	15.44	4.53	50.214	832.	E
43	1.00	8	4.00	16.00	12.47	4.91	48.284	746.	E
44	1.00	9	7.00	30.00	12.91	8.28	88.375	821.	E
45	1.00	14	8.00	32.00	21.40	9.79	63.252	755.	E
46	1.00	13	6.00	32.00	20.22	7.15	42.913	777.	E
47	1.00	12	5.00	25.00	18.87	5.94	66.466	774.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
48	1.00	8	5.00	23.00	11.86	5.87	67.410	817.	E
49	1.00	7	5.00	29.00	10.01	5.64	67.143	890.	E
50	1.00	8	7.00	28.00	11.39	8.88	99.082	718.	E
51	1.00	8	10.00	25.00	10.30	12.10	82.122	805.	E
52	1.00	9	2.00	18.00	14.21	2.06	66.826	856.	E
53	1.00	13	4.00	26.00	21.06	4.72	36.915	761.	E
54	1.00	21	10.00	49.00	31.52	11.14	59.747	869.	E
55	1.00	12	4.99	21.00	18.96	5.98	56.741	764.	E
56	1.00	8	3.00	27.00	12.44	3.40	32.538	825.	E
57	1.00	15	10.00	37.00	22.23	12.04	89.302	785.	E
58	1.00	9	3.00	20.00	13.86	3.23	57.513	869.	E
59	1.00	8	5.00	25.00	12.07	6.14	61.607	755.	E
60	1.00	16	6.00	30.00	24.66	6.66	67.921	848.	E
61	1.00	5	10.00	26.00	5.09	12.45	118.77	767.	E
62	1.00	9	11.00	23.00	11.64	13.54	61.632	776.	E
63	1.00	6	10.00	29.00	6.49	13.00	64.401	674.	E
64	1.00	9	7.00	20.00	12.99	8.45	66.708	788.	E
65	1.00	11	5.00	25.00	18.96	6.94	41.028	538.	E
66	1.00	13	5.00	26.00	20.11	5.63	44.048	834.	E
67	1.00	11	6.00	32.00	16.60	7.02	51.171	814.	E
68	1.00	14	8.00	24.00	20.86	9.23	50.776	837.	E
69	1.00	10	6.00	33.00	14.92	7.05	70.520	814.	E
70	1.00	12	5.00	25.00	18.53	5.71	45.129	823.	E
71	1.00	11	3.00	20.00	16.36	2.85	52.162	975.	E
72	1.00	12	5.00	21.00	19.75	6.48	39.086	644.	E
73	1.00	12	8.00	38.00	17.49	9.22	61.712	850.	E
74	1.00	11	4.00	24.00	17.82	4.91	65.377	730.	E
75	1.00	15	9.00	30.00	22.57	10.80	57.513	784.	E
76	1.00	8	6.00	23.00	11.49	7.00	67.983	840.	E
77	1.00	13	6.00	28.00	19.71	6.77	59.301	848.	E
78	1.00	4	5.00	16.00	5.06	6.47	44.227	682.	E
79	1.00	13	2.00	30.00	21.57	2.14	40.232	779.	E
80	1.00	9	3.00	23.00	14.66	3.66	50.691	733.	E
81	1.00	10	5.00	25.00	15.22	5.81	61.525	816.	E
82	1.00	7	8.00	23.00	9.25	9.78	73.188	785.	E
83	1.00	12	5.00	28.00	18.28	5.56	64.578	858.	E
84	1.00	8	7.00	18.00	11.23	8.30	87.205	824.	F

86	1.00	8	2.00	21.00	7.57	2.32	40.526	784.	E
87	1.00	9	7.45	24.00	12.09	9.06	100.31	782.	E
88	1.00	19	5.00	34.00	29.64	5.24	52.965	867.	E
89	1.00	13	7.00	27.00	19.37	7.93	73.429	858.	E
90	1.00	10	7.00	26.00	14.65	8.35	71.092	801.	E
91	1.00	18	5.00	33.00	28.47	5.47	41.242	830.	E
92	1.00	9	4.00	19.00	13.93	4.67	61.854	800.	E
93	1.00	6	6.00	23.00	8.18	7.07	57.379	842.	E
94	1.00	13	7.00	33.00	19.83	8.36	36.032	784.	E
95	1.00	6	7.00	23.00	7.89	8.27	125.31	844.	E
96	1.00	8	6.00	31.00	11.47	6.95	86.326	851.	E
97	1.00	6	6.00	23.00	8.19	7.10	66.607	834.	E
98	1.00	19	7.00	39.00	29.48	7.85	49.323	834.	E
99	1.00	17	11.31	35.00	24.32	13.12	91.772	842.	E
100	1.00	16	8.88	33.00	24.40	10.50	67.988	800.	E
101	1.00	4	7.00	23.00	4.50	8.54	84.773	802.	E
102	1.00	8	4.00	20.00	12.10	4.59	93.625	834.	E
103	1.00	12	8.00	23.00	17.80	9.66	66.928	782.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
104	1.00	12	8.00	29.00	17.79	9.65	53.366	783.	E
105	1.00	12	10.00	31.00	17.02	11.90	87.545	815.	E
106	1.00	12	4.52	27.00	20.09	5.46	47.961	748.	
107	1.00	16	12.00	33.00	23.19	14.37	75.091	800.	E
108	1.00	9	9.00	24.00	12.27	10.62	93.447	839.	E
109	1.00	11	5.22	22.00	17.27	6.72	52.463	666.	
110	1.00	18	9.00	38.00	27.63	10.66	74.306	790.	E
111	1.00	15	8.00	30.00	23.83	10.39	47.103	650.	
112	1.00	10	7.00	20.00	14.61	8.29	63.161	813.	E
113	1.00	15	8.00	35.00	22.42	9.10	57.292	851.	E
114	1.00	12	7.00	29.00	17.87	8.11	80.757	832.	E
115	1.00	13	3.00	21.00	20.78	3.22	39.122	826.	E
116	1.00	15	6.26	34.00	22.78	7.20	60.761	816.	E
117	1.00	11	9.00	26.00	15.67	10.73	66.367	812.	E
118	1.00	10	5.00	27.00	15.14	5.74	75.649	832.	E
119	1.00	6	11.00	34.00	6.74	13.11	86.953	846.	E
120	1.00	16	4.00	31.00	25.27	4.25	43.174	844.	E
121	1.00	10	3.10	19.00	15.61	3.47	51.977	821.	E
122	1.00	17	7.00	32.00	26.97	8.45	36.647	755.	
123	1.00	15	7.09	35.00	22.56	8.02	71.058	848.	E
124	1.00	13	7.00	31.00	19.17	7.76	56.095	890.	E
125	1.00	14	5.00	25.00	21.70	5.55	63.862	842.	E
126	1.00	19	4.32	28.00	29.29	4.43	40.195	869.	E
127	1.00	12	4.00	23.00	19.51	4.85	51.862	739.	
128	1.00	11	13.00	38.00	14.13	17.26	55.239	616.	
129	1.00	9	5.00	22.00	14.14	6.45	57.436	666.	
130	1.00	11	5.00	22.00	16.59	5.56	55.573	867.	E
131	1.00	10	7.00	26.00	14.92	8.83	50.510	720.	
132	1.00	21	5.00	31.00	34.08	5.60	51.669	789.	E
133	1.00	4	10.00	20.00	2.86	13.03	88.504	672.	
134	1.00	12	5.00	23.00	18.28	5.56	53.531	858.	E
135	1.00	12	6.00	22.00	17.95	6.72	42.354	867.	E
136	1.00	15	5.07	25.00	23.15	5.58	62.836	848.	E
137	1.00	15	6.48	27.00	22.16	7.36	62.977	837.	E
138	1.00	13	14.00	35.00	17.43	16.45	90.118	850.	E
139	1.00	17	10.00	32.00	26.29	12.76	62.119	692.	
140	1.00	14	2.00	30.00	24.33	2.41	33.404	686.	

142	1.00	20	13.00	49.00	27.01	18.00	77.453	797.	E
143	1.00	22	4.00	33.00	36.60	4.49	31.051	763.	E
144	1.00	13	10.00	30.00	18.80	12.06	60.502	789.	E
145	1.00	14	8.00	26.00	21.36	9.75	62.814	761.	E
146	1.00	16	6.00	34.00	24.95	6.83	38.155	818.	E
147	1.00	7	8.00	21.00	9.25	9.66	85.814	806.	E
148	1.00	13	7.00	32.00	19.48	8.03	85.948	840.	E
149	1.00	15	11.93	38.00	21.53	14.08	57.067	825.	E
150	1.00	14	12.00	41.00	19.69	14.12	72.781	835.	E
151	1.00	17	7.58	33.00	27.32	9.05	44.747	771.	E
152	1.00	16	6.00	33.00	24.16	6.38	46.983	900.	E
153	1.00	12	4.00	24.00	18.69	4.42	54.971	841.	E
154	1.00	21	8.67	39.00	32.69	10.06	57.559	803.	E
155	1.00	14	7.00	28.00	21.65	8.43	55.640	769.	E
156	1.00	16	11.00	43.00	23.59	13.25	70.382	786.	E
157	1.00	19	13.00	42.00	27.78	15.27	76.739	824.	E
158	1.00	11	13.00	28.00	14.42	15.27	62.528	856.	E
159	1.00	19	11.00	41.00	28.47	12.91	52.109	814.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tsIE	FLAG
160	1.00	13	10.00	34.00	18.64	11.76	49.755	830.	E
161	1.00	17	15.00	40.00	24.03	18.46	101.97	764.	E
162	1.00	20	10.00	47.00	30.46	11.64	53.714	814.	E
163	1.00	20	17.00	46.00	28.14	19.90	70.420	843.	E
164	1.00	13	3.00	26.00	20.74	3.20	36.012	830.	E
165	1.00	15	6.00	25.00	23.51	7.01	61.984	792.	E
166	1.00	15	4.00	29.00	24.42	4.63	40.801	770.	E
167	1.00	18	8.00	33.00	27.47	9.06	52.595	840.	E
168	1.00	22	12.00	44.00	33.12	13.96	60.140	821.	E
169	1.00	16	9.19	39.00	23.45	10.56	65.450	845.	E
170	1.00	27	4.08	44.00	44.39	4.25	29.511	793.	E
171	1.00	16	9.00	37.00	24.55	11.07	62.210	749.	E
172	1.00	18	4.00	38.00	38.10	6.66	49.487	836.	E

~~173 1.00 18 4.00 38.00 38.10 6.66 49.487 836. E~~

230	1.00	10	6.00	23.00	15.08	7.24	64.300	777.	E
231	1.00	6	5.00	22.00	8.57	6.10	102.57	777.	E
160 232	1.00	4	6.00	13.00	4.80	7.38	106.89	783.	E
233	1.00	7	5.00	19.00	10.41	8.32	49.086	719.	
234	1.00	8	5.00	19.00	12.02	6.07	74.077	770.	E
235	1.00	9	8.00	25.00	12.86	9.69	117.45	789.	E
236	1.00	6	7.00	19.00	7.87	8.72	108.52	755.	
65 237	1.00	14	7.00	29.00	21.87	8.64	46.927	740.	
238	1.00	8	8.22	29.00	10.52	10.41	66.407	726.	
239	1.00	14	4.00	25.00	22.58	4.60	39.947	781.	E
240	1.00	8	4.00	15.00	12.34	4.79	68.079	777.	E
241	1.00	6	7.00	20.00	7.89	8.45	65.682	808.	E
10 242	1.00	12	6.68	25.00	19.03	8.24	66.875	743.	
243	1.00	7	7.65	21.00	9.98	9.76	57.459	712.	
244	1.00	12	8.35	26.00	17.07	10.08	64.039	785.	E
173 245	1.00	6	7.70	24.00	8.14	9.49	104.21	774.	E
246	1.00	10	8.00	22.00	14.33	9.59	61.703	801.	E
175 247	1.00	3	5.00	11.00	3.34	6.36	80.651	728.	
248	1.00	16	8.00	30.00	24.95	9.83	41.596	745.	
249	1.00	11	7.00	24.00	16.97	9.12	49.755	647.	
250	1.00	14	10.90	35.00	20.33	13.08	79.865	799.	E
251	1.00	10	5.00	29.00	15.05	5.68	57.566	849.	E
180 252	1.00	10	6.00	25.00	15.11	7.27	66.206	771.	E
253	1.00	11	2.00	21.00	18.32	2.25	38.150	760.	E
254	1.00	11	9.00	30.00	15.85	11.21	58.903	745.	
255	1.00	8	2.00	18.00	12.85	2.21	41.409	806.	E
256	1.00	10	9.00	29.00	14.13	11.38	89.711	724.	
85 257	1.00	14	3.00	26.00	22.66	3.26	38.331	806.	E
258	1.00	10	7.00	24.00	14.66	8.36	74.680	800.	E
259	1.00	8	8.43	22.00	10.08	10.31	104.43	782.	E
260	1.00	8	5.07	18.00	11.79	6.06	55.928	794.	E
261	1.00	8	7.00	20.00	11.44	9.12	48.792	654.	
190 ?	1.00	7	6.00	19.00	10.34	8.95	53.335	454.	
263	1.00	6	7.00	18.00	7.80	9.07	94.818	675.	
264	1.00	11	8.00	26.00	16.47	10.39	69.606	657.	
265	1.00	8	8.00	26.00	11.03	10.76	62.796	589.	
266	1.00	14	7.00	27.00	23.72	9.71	48.379	539.	
75 267	1.00	17	12.00	38.00	25.08	14.67	71.450	766.	E
268	1.00	9	3.00	19.00	15.38	3.94	37.645	614.	
269	1.00	13	11.00	26.00	18.48	13.35	92.488	785.	E
270	1.00	7	4.00	17.00	10.91	5.13	63.033	679.	
99 271	1.00	12	4.00	25.00	19.64	4.93	68.112	722.	

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
272	1.00	6	8.00	17.00	7.57	9.67	77.269	809.	E
273	1.00	13	6.00	25.00	20.22	7.15	71.549	777.	E
274	1.00	17	2.79	24.00	28.63	3.05	31.298	771.	E
275	1.00	12	8.00	24.00	17.86	9.74	74.793	769.	E
55 276	1.00	10	8.00	28.00	14.46	9.92	88.899	750.	
277	1.00	7	7.00	19.00	9.60	8.62	64.721	768.	E
278	1.00	11	1.00	21.00	18.43	0.93	20.999	785.	E
279	1.00	10	4.00	23.00	16.73	5.26	43.106	617.	
280	1.00	12	5.00	21.00	19.07	6.08	42.296	748.	
281	1.00	11	6.00	28.00	16.61	7.03	57.308	812.	E
10 282	1.00	10	4.00	23.00	15.69	4.68	55.602	790.	E
283	1.00	16	12.82	35.00	23.56	16.22	52.578	720.	

286	1.00	8	5.05	21.00	12.17	6.36	66.793	718.	
287	1.00	9	5.00	23.00	13.71	6.02	87.702	775.	E
288	1.00	7	6.00	20.00	10.01	7.60	63.089	720.	
289	1.00	9	3.00	15.00	14.65	3.65	43.335	735.	
290	1.00	7	6.00	22.00	9.98	7.47	53.088	747.	
291	1.00	10	5.00	27.00	15.19	5.79	57.994	821.	E
292	1.00	13	6.00	25.00	21.40	7.92	64.791	612.	
293	1.00	12	10.00	25.00	16.95	11.72	67.410	840.	E
294	1.00	15	4.06	26.00	23.48	4.35	41.392	849.	E
295	1.00	9	5.00	22.00	13.57	5.87	61.105	809.	E
296	1.00	4	6.00	23.00	4.80	7.39	139.96	779.	E
297	1.00	15	5.00	24.00	23.90	5.80	50.798	787.	E
298	1.00	11	6.00	28.00	16.54	6.96	62.312	825.	E
299	1.00	14	8.58	25.00	21.97	10.60	68.387	746.	
300	1.00	13	6.00	25.00	20.14	7.09	34.972	788.	E
301	1.00	9	6.00	31.00	13.32	7.19	86.349	791.	E
302	1.00	6	2.00	15.00	9.46	2.26	52.764	813.	E
303	1.00	12	6.00	30.00	18.50	7.18	46.991	778.	E
304	1.00	8	7.00	18.00	11.34	8.65	66.126	759.	
305	1.00	15	7.00	32.00	23.60	8.60	42.168	742.	
306	1.00	10	3.00	21.00	16.68	3.76	21.112	691.	
307	1.00	9	8.00	21.00	12.67	9.76	70.526	778.	E
308	1.00	13	8.00	31.00	19.81	10.03	55.181	726.	
309	1.00	10	6.00	24.00	15.35	7.58	47.648	713.	
310	1.00	5	7.00	17.00	6.19	8.54	105.80	795.	E
311	1.00	11	4.00	22.00	17.76	4.88	64.628	738.	
312	1.00	11	6.39	23.00	16.46	8.27	68.112	661.	
313	1.00	11	6.00	28.00	16.40	6.83	68.449	852.	E
314	1.00	17	5.00	29.00	27.14	5.66	53.257	801.	E
315	1.00	7	4.29	19.00	9.79	4.87	47.712	869.	E
316	1.00	11	2.00	18.00	17.37	1.95	32.470	871.	E
317	1.00	15	4.00	23.00	23.15	4.10	49.164	890.	E
318	1.00	15	7.00	35.00	22.86	8.01	72.079	831.	E
319	1.00	6	5.00	16.00	8.57	6.10	80.542	775.	E
320	1.00	9	6.00	21.00	13.62	7.68	83.460	690.	

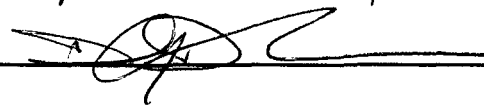
(1 missing vial)

321	1.00	****	676.63	128103.	196096.	0.00	20.140	976.	E
322	1.00	****	103930.	131147.	21369.5	116584.	160.34	991.	E
323	1.00	11	6.00	27.00	15.72	6.25	66.371	984.	E
324	1.00	14	2.00	27.00	22.81	1.97	28.188	821.	E
325	1.00	9	2.00	13.00	14.45	2.15	38.666	820.	E
326	1.00	13	7.00	27.00	19.62	8.16	65.725	818.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
328	1.00	10	5.02	18.00	15.01	5.70	59.492	850.	E
329	1.00	7	10.00	22.00	8.63	12.06	77.984	816.	E
330	1.00	10	10.00	22.00	13.64	11.81	73.429	838.	E
331	1.00	8	4.00	17.00	12.12	4.60	67.677	830.	E
332	1.00	11	4.00	25.00	17.48	4.71	58.957	777.	E
333	1.00	14	4.00	31.00	23.01	4.81	42.176	740.	
334	1.00	6	2.00	12.00	9.25	2.16	40.727	865.	E
335	1.00	12	9.00	29.00	17.43	10.84	85.676	790.	E
336	1.00	6	12.00	21.00	6.51	14.21	103.26	862.	E
337	1.00	9	4.00	17.00	13.88	4.64	81.485	810.	E
338	1.00	15	3.00	23.00	23.51	2.95	35.934	881.	E
339	1.00	7	7.00	28.00	9.61	8.69	72.110	755.	

Job Location: Neurogen Corp. Branford, CT Page: 1 of 17

Survey Purpose: Decommissioning Room 315 phase III Date: 6/27/08

Performed By: David J. Durkee 

Inst. No. 1 (Model/SN) Packard 1600TR #10325 #40915	Inst. No. 2 (Model/SN) Ludlum 2241-2 #137757	Inst. No. 3 (Model/SN) Ludlum 3 #114208
Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-68 #140899	Detector (Model/SN) Ludlum 44-21 #156898
Efficiency: ^{46% H-3 / 75% errors} See Printout	Efficiency: 7.4 % C-14	Efficiency: 16% I-125
Type Rad.: β	Type Rad.: β	Type Rad.: γ
Bkgd.: ^{46% H-3 / 75% errors} See #1 Below	Bkgd.: ^{errors} 330 cpm / ⁴⁰⁰ cpm floor	Bkgd.: 340 cpm
Cal. Due: 12/3/08	Cal. Due: 9/10/08	Cal. Due: 5/24/09

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	1450	Background	1	26 Cpm	
2		UPPER WALL	1	0	
3		LOWER WALL	1	0	
4		UPPER DOOR	1	0	
5		LOWER DOOR	1	0	
6		UPPER WALL	1	0	
7		LOWER WALL	1	0	
8		UPPER WALL	1	0	
9		LOWER WALL	1	0	
10		UPPER WALL	1	1	
11		LOWER WALL	1	7	
12		UPPER WALL	1	0	
13		LOWER WALL	1	0	
14		UPPER WALL	1	0	
15		LOWER WALL	1	3	
16		UPPER WALL	1	0	
17		COUNTER	1	4	
18		COUNTER	1	0	
19		COUNTER	1	0	
20		CUP SINK	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		FRONT	1	1	
22		COUNTER	1	0	
23		SIDE OF HOOD	1	0	
24		UPPER WALL	1	0	
25		SHelf	1	0	
26		UPPER WALL	1	0	
27		UPPER WALL	1	0	
28		UPPER WALL	1	0	
29		WALL UNIT	1	0	
30		SHelf	1	0	
31		WALL UNIT	1	8	
32		WALL UNIT	1	0	
33		WALL UNIT	1	4	
34		FRONT OF CABINET	1	7	
35		DRAWER	1	0	
36		CABINET	1	0	
37		FRONT OF DRAWERS	1	0	
38		TOP DRAWER	1	0	
39		DRAWER	1	0	
40		DRAWER	1	0	
41		BOTTOM DRAWER	1	0	
42		CUSBY	1	0	
43		FRONT OF DRAWERS	1	0	
44		TOP DRAWER	1	0	
45		DRAWER	1	4	
46		DRAWER	1	0	
47		BOTTOM DRAWER	1	0	
48		FRONT OF CABINET	1	8	
49		DRAWER	1	3	
50		CABINET	1	0	
51	↓	FRONT OF DRAWERS	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		TOP DRAWER	1	8	
53		Drawer	1	3	
54		Drawer	1	0	
55		Drawer	1	0	
56		BOTTOM DRAWER	1	0	
57		FRONT OF CABINET	1	4	
58		CABINET	1	0	
59		FRONT OF CABINET	1	8	
60		INSIDE CABINET TOP	1	0	
61		INSIDE CABINET BOTTOM	1	0	
62		HOOD SASH	1	16	
63		HOOD LENS	1	0	
64		LEFT FRONT	1	0	
65		RIGHT FRONT	1	0	
66		INSIDE SASH	1	15	
67		COUNTER	1	0	
68		INSIDE HOOD LEFT	1	0	
69		INSIDE HOOD RIGHT	1	0	
70		BACK OF HOOD	1	0	
71		FLOW PATH	1	0	
72		HOOD DUCT	1	0	
73		UPPER SIDE HOOD	1	8	
74		LOWER SIDE	1	0	
75		UPPER WALL	1	5	
76		LOWER WALL	1	0	
77		UPPER WALL	1	8	
78		LOWER WALL	1	0	
79		UPPER WALL	1	0	
80		LOWER WALL	1	12	
81		COUNTER	1	0	
82		COUNTER	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
83		Control	1	0	
84		Control	1	7	
85		Shelves	1	0	
86		Shelves	1	0	
87		Shelves	1	0	
88		Cup Sink	1	0	
89		Faucet	1	4	
90		Cup Sink	1	0	
91		Faucet	1	0	
92		Cup Sink	1	0	
93		Faucet	1	0	
94		Front of Drainers	1	0	
95		Top Drainer	1	8	
96		Drainer	1	0	
97		Drainer	1	0	
98		Bottom Drainer	1	0	
99		Top Drainer	1	0	
100		Drainer	1	7	
101		Drainer	1	0	
102		Bottom Drainer	1	0	
103		Cubby	1	0	
104		Front of Drainers	1	0	
105		Top Drainer Left	1	4	
106		Drainer	1	0	
107		Drainer	1	0	
108		Bottom Drainer	1	0	
109		Top Drainer Right	1	0	
110		Drainer	1	0	
111		Drainer	1	4	
112		Bottom Drainer	1	0	
113		Cubby	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
114		FRONT OF DRAWERS	1	0	
115		TOP DRAWER LEFT	1	0	
116		DRAWER	1	0	
117		DRAWER	1	0	
118		BOTTOM DRAWER	1	0	
119		TOP DRAWER RIGHT	1	8	
120		DRAWER	1	0	
121		DRAWER	1	4	
122		BOTTOM DRAWER	1	0	
123		SIDE OF CABINET	1	0	
124		FRONT OF CABINET	1	0	
125		CABINET	1	0	
126		FRONT OF CABINET	1	0	
127		CABINET	1	0	
128		SINK	1	0	
129		Faucet	1	0	
130		UPPER WALL	1	0	
131		SINK DRAIN (WRAP)	1	0	
132		FLOOR	1	3	
133		FLOOR	1	0	
134		FLOOR	1	0	
135		FLOOR	1	3	
136		FLOOR	1	1	
137		FLOOR	1	0	
138		FLOOR	1	13	
139		FLOOR	1	9	
140		FLOOR	1	0	
141		FLOOR	1	0	
142		FLOOR	1	0	
143		FLOOR	1	0	
144	✓	FLOOR	1	4	

Radiological Survey Continuation Sheet

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Date 7/7/08

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
145	0845	BACKGROUND	1	68	
146		FLOOR	1	8	
147		FLOOR	1	0	
148		FLOOR	1	12	
149		FLOOR	1	0	
150		FLOOR	1	0	
151		FLOOR	1	0	
152		FLOOR	1	0	
153		FLOOR	1	0	
154		FLOOR	1	0	
155		FLOOR	1	0	
156		FLOOR	1	0	
157		FLOOR	1	7	
158		FLOOR	1	0	
159		FLOOR	1	0	
160		COUNTER	1	0	
161		COUNTER	1	0	
162		COUNTER	1	0	
163		COUNTER	1	0	
164		COUNTER	1	5	
165		UPPER WALL	1	0	
166		UPPER WALL	1	11	
167		UPPER WALL	1	0	
168		COUNTER	1	8	
169		UPPER WALL	1	0	
170		COUNTER	1	0	
171		COUNTER	1	0	
172	✓	COUNTER	1	0	

Radiological Survey Continuation Sheet

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Date 7/2/08

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
173		counter	1	0	
174		counter	1	0	
175		UPPER WALL	1	0	
176		Shelf	1	5	
177		UPPER WALL	1	0	
178		Shelf	1	0	
179		UPPER WALL	1	0	
180		UPPER WALL	1	0	
181		UPPER WALL	1	0	
182		UPPER WALL	1	0	
183		SHRUF	1	0	
184		SHRUF	1	27	
185		CUP SINK	1	0	
186		FAUCET	1	0	
187		CUP SINK	1	0	
188		FAUCET	1	0	
189		CUP SINK	1	0	
190		FAUCET	1	0	
191		UPPER WALL, WALL UNIT	1	0	
192		LOWER WALL, WALL UNIT	1	0	
193		WALL	1	0	
194		WALL UNIT	1	0	
195		WALL UNIT	1	0	
196		WALL UNIT	1	0	
197		WALL UNIT	1	0	
198		WALL UNIT	1	0	
199		SIDE OF CABINET	1	0	
200	↓	FRONT OF DRAWERS	1	0	

Radiological Survey Continuation Sheet

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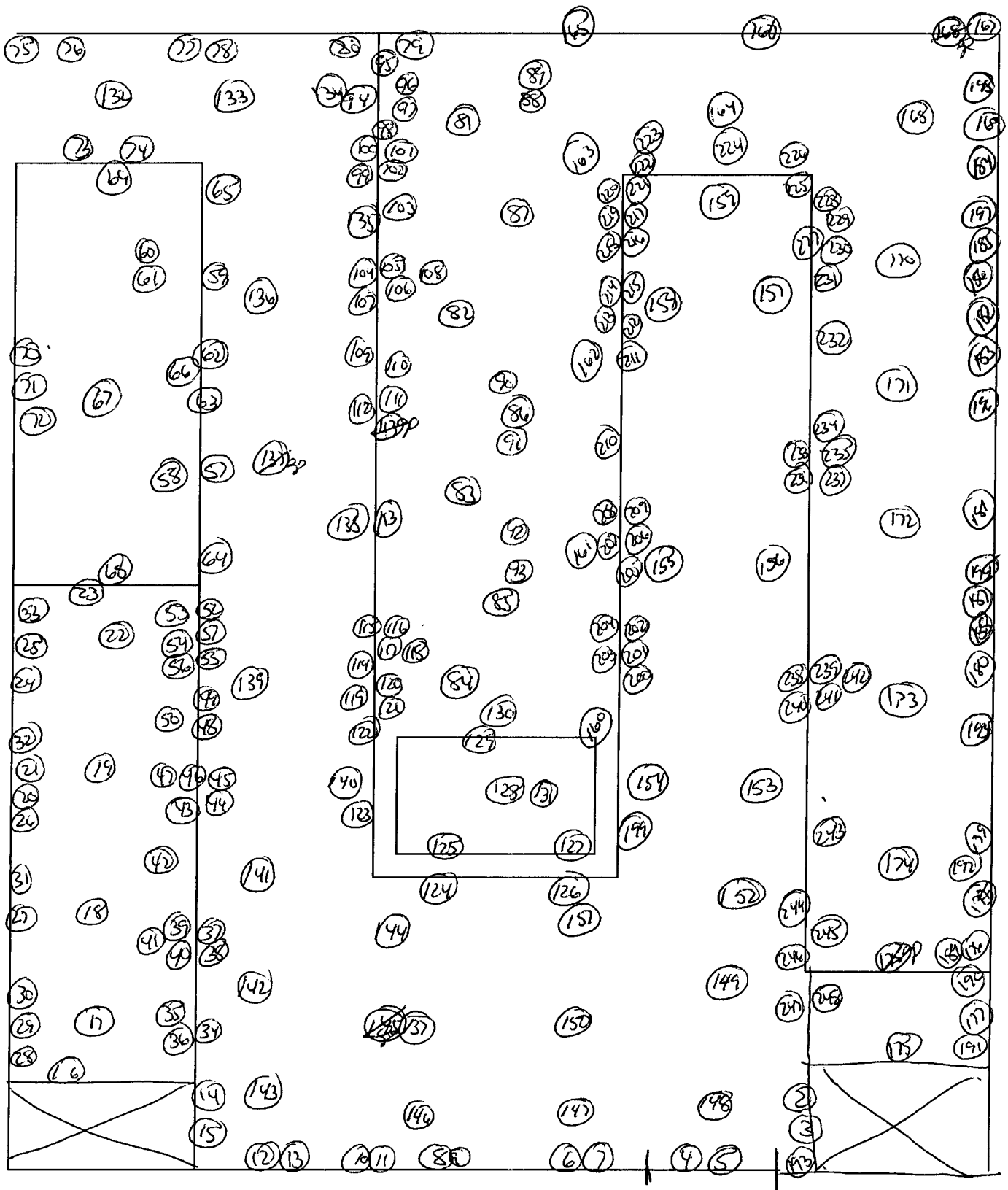
No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
201		TOP DRAINAGE	1	0	
202		DRAINAGE	1	0	
203		DRAINAGE	1	0	
204		BOTTOM DRAINAGE	1	0	
205		FRONT OF DRAINAGE	1	0	
206		TOP DRAINAGE	1	0	
207		DRAINAGE	1	0	
208		DRAINAGE	1	0	
209		BOTTOM DRAINAGE	1	0	
210		CABBY	1	0	
211		FRONT OF DRAINAGE	1	0	
212		TOP DRAINAGE	1	0	
213		DRAINAGE	1	0	
214		DRAINAGE	1	0	
215		BOTTOM DRAINAGE	1	0	
216		FRONT OF DRAINAGE	1	0	
217		TOP DRAINAGE	1	0	
218		DRAINAGE	1	0	
219		DRAINAGE	1	0	
220		BOTTOM DRAINAGE	1	0	
221		DRAINAGE (TOP)	1	0	
222		DRAINAGE	1	0	
223		BOTTOM DRAINAGE	1	0	
224		CABBY	1	0	
225		TOP DRAINAGE	1	0	
226		DRAINAGE	1	0	
227		FRONT OF CABINET	1	0	
228	V	LEFT DRAINAGE	1	0	

Radiological Survey Continuation Sheet

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Date 7/2/08

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
229		LEFT CABINET	1	0	
230		RIGHT DRAWER	1	0	
231		RIGHT CABINET	1	0	
232		Cubby	1	0	
233		FRONT OF CABINET	1	0	
234		LEFT DRAWER	1	0	
235		CABINET	1	0	
236		RIGHT DRAWER	1	0	
237		CABINET	1	0	
238		FRONT OF CABINET	1	0	
239		LEFT DRAWER	1	0	
240		CABINET	1	0	
241		RIGHT DRAWER	1	0	
242		CABINET	1	0	
243		Cubby	1	0	
244		FRONT OF CABINET	1	0	
245		LEFT DRAWER	1	0	
246		CABINET	1	0	
247		RIGHT DRAWER	1	0	
248	↓	CABINET	1	0	
249			1		
250			1		
251			1		
252			1		
			1		
			1		
			1		



BIOCHEMISTRY
LAB 3
Room 315, PhIII

Protocol #: 7 Name: RAD DEPT 30-Jun-2008 16:32
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count

Conventional DPM

Nuclide 1 = 230269 Nuclide 2 = 117000

Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	8	2.00	12.00	13.45	2.46	32.421	704.	
2	1.00	7	6.00	14.00	9.84	7.04	98.399	840.	E
3	1.00	10	3.14	19.00	15.73	3.61	65.682	791.	E

See #145

6	1.00	6	3.00	13.00	9.17	3.52	113.96	805.	E
7	1.00	10	6.00	24.00	15.13	7.30	42.733	766.	E
8	1.00	8	4.00	17.00	12.25	4.72	71.824	797.	E
9	1.00	7	6.00	21.00	9.93	7.32	64.817	778.	E
10	1.00	9	7.00	27.00	12.87	8.21	104.63	835.	E
11	1.00	10	11.00	31.00	13.34	13.97	97.752	722.	
12	1.00	6	5.00	17.00	8.43	5.76	74.414	868.	E
13	1.00	8	4.43	17.00	11.66	5.57	62.461	719.	
14	1.00	9	5.00	22.00	14.68	6.78	45.513	571.	
15	1.00	10	9.16	28.00	13.79	11.75	95.709	696.	
16	1.00	10	7.12	22.00	14.55	8.74	76.851	760.	E
17	1.00	12	8.00	29.00	18.00	9.97	50.718	737.	
18	1.00	7	6.00	21.00	10.05	7.77	70.250	668.	
19	1.00	8	7.00	20.00	11.27	8.42	48.792	799.	E
20	1.00	10	6.00	26.00	14.89	7.02	72.626	822.	E
21	1.00	13	5.00	27.00	20.92	6.13	49.220	734.	
22	1.00	6	10.00	25.00	6.44	13.06	92.087	661.	
23	1.00	6	5.00	13.00	8.73	6.58	59.239	632.	
24	1.00	11	5.00	26.00	16.85	5.74	37.316	824.	E
25	1.00	10	11.00	26.00	13.34	13.91	79.027	730.	
26	1.00	8	6.00	22.00	11.60	7.20	101.80	796.	E
27	1.00	8	6.00	17.00	11.72	7.45	77.613	747.	
28	1.00	5	3.00	16.00	7.81	3.92	70.219	639.	
29	1.00	14	8.00	24.00	21.46	9.87	66.389	745.	
30	1.00	10	1.00	24.00	16.87	1.00	45.524	769.	E
31	1.00	13	5.00	32.00	20.62	5.94	54.213	770.	E
32	1.00	6	11.00	20.00	6.45	13.70	82.610	764.	E
33	1.00	13	8.00	29.00	19.41	9.51	62.901	799.	E
34	1.00	10	12.00	31.00	13.02	14.69	85.357	784.	E
35	1.00	6	3.00	17.00	9.32	3.65	71.155	756.	
36	1.00	9	5.00	15.00	13.95	6.28	76.696	720.	
37	1.00	7	7.00	18.00	9.60	8.66	81.855	761.	E
38	1.00	5	3.00	16.00	7.58	3.66	76.839	760.	E
39	1.00	12	4.00	23.00	18.95	4.55	34.708	808.	E
40	1.00	11	7.00	19.00	16.72	8.84	74.454	715.	
41	1.00	5	9.00	20.00	5.50	11.09	92.861	784.	E
42	1.00	7	7.00	18.00	9.61	8.74	65.461	748.	
43	1.00	7	6.00	18.00	10.08	7.85	48.644	645.	
44	1.00	6	2.51	16.00	10.25	2.95	26.750	780.	E
45	1.00	10	12.00	29.00	13.02	14.67	101.04	786.	E
46	1.00	8	5.00	21.00	12.03	6.09	66.422	766.	E
47	1.00	9	2.00	20.00	14.88	2.31	28.160	757.	

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
48	1.00	11	9.00	32.00	15.52	10.39	86.590	863.	E
49	1.00	12	10.00	28.00	17.29	12.71	63.835	714.	
50	1.00	8	3.00	16.00	12.59	3.48	39.541	796.	E
51	1.00	8	7.73	25.00	11.52	9.48	63.899	773.	E
52	1.00	21	6.00	32.00	33.24	6.62	50.528	824.	E
53	1.00	12	7.00	28.00	18.48	8.82	52.543	716.	
54	1.00	13	4.00	21.00	21.89	5.10	26.624	662.	
55	1.00	12	8.00	25.00	17.92	9.83	67.490	757.	
56	1.00	8	5.00	21.00	11.98	6.02	46.792	782.	E
57	1.00	11	4.00	29.00	16.94	4.40	64.842	855.	E
58	1.00	11	2.00	18.00	17.98	2.14	26.297	799.	E
59	1.00	13	6.00	32.00	20.23	7.16	39.872	776.	E
60	1.00	11	4.00	29.00	16.94	4.40	64.842	855.	E

62	1.00	10	16.00	38.00	11.89	19.08	97.782	840.	E
63	1.00	8	6.12	19.00	12.08	8.66	47.691	514.	
64	1.00	5	12.00	23.00	4.00	15.45	116.03	707.	
65	1.00	6	5.00	14.00	8.79	6.69	63.616	598.	
66	1.00	20	8.22	37.00	30.95	9.65	60.073	789.	E
67	1.00	10	6.00	25.00	15.32	7.55	62.394	719.	
68	1.00	11	7.00	23.00	16.87	9.04	49.577	668.	
69	1.00	11	8.00	24.00	17.04	11.07	50.938	544.	
70	1.00	8	3.72	23.00	13.24	4.94	40.446	601.	
71	1.00	11	7.00	25.00	16.49	8.52	47.080	768.	E
72	1.00	5	9.80	24.00	4.89	13.00	69.443	622.	
73	1.00	15	7.57	32.00	23.84	9.04	50.034	778.	E
74	1.00	8	5.68	22.00	12.22	6.76	60.302	805.	E
75	1.00	15	7.00	30.00	23.27	8.32	56.905	781.	E
76	1.00	7	8.00	22.00	9.25	9.69	91.913	800.	E
77	1.00	12	9.00	32.00	17.26	10.54	94.771	835.	E
78	1.00	10	6.00	25.00	14.77	6.89	75.535	848.	E
79	1.00	10	5.00	20.00	15.36	5.93	57.031	788.	E
80	1.00	13	12.42	35.00	17.26	14.88	78.581	812.	E
81	1.00	9	6.00	19.00	13.18	7.01	73.830	831.	E
82	1.00	6	12.00	22.00	6.42	14.40	127.69	836.	E
83	1.00	8	3.00	19.00	12.35	3.34	58.072	844.	E
84	1.00	12	14.65	31.00	16.16	17.70	82.509	806.	E
85	1.00	12	4.00	21.00	18.94	4.54	43.335	809.	E
86	1.00	10	4.00	19.00	15.55	4.59	76.352	813.	E
87	1.00	6	2.00	18.00	9.34	2.21	39.322	843.	E
88	1.00	13	5.00	26.00	20.10	5.62	61.347	835.	E
89	1.00	12	7.00	29.00	17.99	8.24	58.540	810.	E
90	1.00	11	3.00	19.00	17.32	3.24	49.182	842.	E
91	1.00	10	9.00	22.00	13.97	10.71	93.174	820.	E
92	1.00	14	4.00	24.00	22.15	4.41	49.844	826.	E
93	1.00	6	8.00	21.00	7.59	9.56	130.46	829.	E
94	1.00	11	3.00	18.00	17.58	3.34	46.086	809.	E
95	1.00	11	11.00	32.00	14.96	12.73	81.855	872.	E
96	1.00	9	8.00	22.00	12.62	9.56	63.067	812.	E
97	1.00	12	9.00	25.00	17.22	10.46	74.747	846.	E
98	1.00	9	2.76	22.00	14.55	3.05	31.833	830.	E
99	1.00	12	6.00	25.00	18.25	6.96	81.142	819.	E
100	1.00	13	8.00	31.00	20.28	10.51	51.971	629.	
101	1.00	8	6.00	19.00	11.51	7.02	66.378	835.	E
102	1.00	12	5.03	26.00	18.66	5.89	58.724	795.	E
103	1.00	10	6.20	19.00	14.51	7.28	59.887	818.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
104	1.00	12	11.00	24.00	16.76	13.34	63.223	789.	E
105	1.00	8	12.00	29.00	9.70	14.44	132.49	822.	E
106	1.00	10	6.00	20.00	14.75	6.87	49.253	853.	E
107	1.00	8	6.55	23.00	12.16	7.80	68.052	809.	E
108	1.00	14	3.00	24.00	22.62	3.24	46.828	809.	E
109	1.00	10	4.00	18.00	15.75	4.72	62.710	780.	E
110	1.00	9	3.00	19.00	14.09	3.35	48.819	828.	E
111	1.00	13	9.00	29.00	18.92	10.50	73.611	835.	E
112	1.00	7	5.00	24.00	10.22	5.96	76.906	804.	E
113	1.00	10	4.00	19.00	15.10	4.32	47.577	889.	E
114	1.00	5	5.00	19.00	6.86	6.19	97.103	758.	
115	1.00	7	5.00	20.00	10.26	6.04	76.104	785.	E

118	1.00	15	4.61	26.00	25.48	5.69	48.632	713.	
119	1.00	14	10.00	32.00	20.41	11.88	79.715	809.	E
120	1.00	13	6.00	25.00	20.10	7.06	42.575	794.	E
121	1.00	11	10.46	29.00	14.40	12.34	95.612	838.	E
122	1.00	13	3.00	18.00	21.11	3.34	31.498	792.	E
123	1.00	8	1.00	17.00	13.02	0.94	26.572	830.	E
124	1.00	10	7.95	26.00	14.53	9.75	71.601	766.	E
125	1.00	12	4.00	19.00	20.06	5.11	29.993	663.	
126	1.00	9	7.00	24.00	12.80	8.08	76.538	860.	E
127	1.00	9	2.00	14.00	15.24	2.45	39.541	702.	
128	1.00	8	5.00	18.00	11.99	6.04	77.904	777.	E
129	1.00	7	3.00	17.00	11.13	3.69	37.717	738.	
130	1.00	10	3.00	22.00	15.92	3.39	33.335	804.	E
131	1.00	7	10.00	22.00	8.36	12.87	76.851	700.	
132	1.00	10	9.00	28.00	14.02	10.90	68.001	790.	E
133	1.00	9	4.00	20.00	14.32	4.97	44.570	725.	
134	1.00	6	8.00	23.00	7.43	10.23	59.958	714.	
135	1.00	10	9.00	28.00	14.24	11.90	65.805	622.	
136	1.00	10	10.32	27.00	13.04	13.10	94.294	722.	
137	1.00	9	4.00	17.00	16.13	5.76	39.384	490.	
138	1.00	15	9.00	36.00	22.62	10.86	61.726	777.	E
139	1.00	11	12.00	33.00	14.73	14.98	100.21	750.	
140	1.00	8	6.00	22.00	11.69	7.37	51.131	761.	E
141	1.00	6	8.00	22.00	7.52	9.92	96.071	765.	E
142	1.00	4	5.00	18.00	5.13	6.23	57.423	756.	
143	1.00	13	4.00	24.00	19.87	4.16	62.784	897.	E
144	1.00	8	5.00	29.00	12.67	6.74	55.311	583.	
145	1.00	8	6.00	26.00	11.69	7.36	49.526	764.	E
146	1.00	9	14.00	34.00	10.20	18.14	78.087	681.	
147	1.00	7	7.00	19.00	9.61	8.91	90.912	716.	
148	1.00	8	6.00	20.00	11.65	7.30	87.473	775.	E
149	1.00	9	11.39	22.00	10.86	13.97	74.793	784.	E
150	1.00	6	7.00	20.00	7.77	9.20	91.608	641.	
151	1.00	14	5.00	23.00	22.72	6.14	33.367	729.	
152	1.00	11	5.89	27.00	17.53	7.55	39.747	676.	
153	1.00	11	9.00	30.00	15.82	11.12	111.87	756.	
154	1.00	10	7.00	27.00	14.89	8.77	55.231	730.	
155	1.00	8	3.00	17.00	12.53	3.44	61.574	808.	E
156	1.00	7	4.00	17.00	10.67	4.86	60.990	765.	E
157	1.00	14	6.00	27.00	22.27	7.38	44.539	737.	
158	1.00	8	5.00	29.00	12.19	6.32	57.780	715.	
159	1.00	6	5.00	20.00	8.64	6.37	91.777	708.	

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
160	1.00	7	1.00	13.00	11.43	0.99	33.906	816.	E
161	1.00	12	5.00	21.00	18.66	5.80	33.516	805.	E
162	1.00	9	9.00	21.00	12.36	11.26	104.86	744.	
163	1.00	9	7.00	25.00	13.05	8.57	62.595	768.	E
164	1.00	12	4.00	24.00	19.39	4.78	65.604	754.	
165	1.00	14	3.00	23.00	22.88	3.34	44.751	785.	E
166	1.00	11	8.00	28.00	16.26	10.01	76.280	734.	
167	1.00	7	9.42	23.00	8.05	11.58	65.303	782.	E
168	1.00	7	8.00	25.00	9.25	9.67	79.929	804.	E
169	1.00	7	6.00	20.00	9.94	7.32	53.212	777.	E
170	1.00	10	4.00	20.00	15.75	4.72	59.729	779.	E
171	1.00	11	4.00	24.00	17.48	4.70	55.961	778.	E

MEPHER COUNTS DUE TO LOSS OF A.C. VALIDATED BY RECOUNTING SAMPLES AS
 UNIT COOLED DOWN.

Protocol #: 7 Name: RAD DEPT 07-Jul-2008 08:55
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
 Conventional DPM
 Nuclide 1 = 230269 Nuclide 2 = 117000
 Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	38	15.00	68.00	55.05	14.87	69.984	1000	E
2	1.00	37	12.00	74.00	62.15	15.37	38.323	657.	
3	1.00	18	14.89	59.00	25.80	17.90	78.294	777.	E
4	1.00	36	16.00	77.00	52.68	16.64	76.546	955.	E
5	1.00	27	17.00	61.00	38.75	18.56	125.08	929.	E
6	1.00	39	15.00	84.00	58.67	15.93	72.255	906.	E
7	1.00	57	38.00	129.00	83.46	44.35	70.468	832.	E
8	1.00	37	16.00	84.00	55.74	17.53	66.683	881.	E
9	1.00	20	7.60	51.00	30.62	7.97	49.640	916.	E
10	1.00	19	15.00	66.00	27.36	18.15	75.105	786.	E
11	1.00	22	5.00	45.00	35.66	5.53	40.482	797.	E
12	1.00	21	12.00	53.00	30.49	13.07	70.134	921.	E
13	1.00	34	15.00	73.00	51.84	16.93	57.452	844.	E
14	1.00	14	8.54	39.00	22.24	10.76	68.038	716.	
15	1.00	17	20.00	65.00	21.07	28.88	77.951	489.	
16	1.00	14	7.00	43.00	21.69	8.46	73.448	764.	E
17	1.00	35	18.23	81.00	54.43	22.55	54.782	738.	E
18	1.00	25	17.00	67.00	38.78	22.86	56.710	587.	
19	1.00	63	45.00	146.00	92.87	55.17	68.465	762.	E
20	1.00	25	20.00	72.00	38.07	28.69	56.746	497.	
21	1.00	53	19.74	93.00	80.99	21.26	61.825	884.	E
22	1.00	32	18.00	76.00	49.81	22.94	50.911	693.	
23	1.00	29	11.00	59.00	47.28	13.83	53.005	699.	
24	1.00	29	21.80	74.00	42.54	27.19	70.716	740.	
25	1.00	53	27.61	101.00	77.50	29.29	75.455	948.	E
26	1.00	18	22.49	58.00	22.73	29.25	81.093	667.	
27	1.00	36	15.00	93.00	58.85	19.27	46.041	662.	E
28	1.00	12	12.00	41.00	16.43	15.31	93.893	711.	
29	1.00	27	15.04	64.00	41.23	18.28	63.665	763.	E
30	1.00	14	13.06	45.00	19.51	16.73	89.226	699.	
31	1.00	25	7.00	53.00	39.79	7.78	52.213	814.	E
32	1.00	34	17.00	72.00	51.83	19.83	72.666	812.	E
33	1.00	41	15.00	82.00	62.13	15.98	54.398	895.	E
34	1.00	22	9.00	50.00	33.78	10.12	60.938	841.	E
35	1.00	21	8.00	45.00	31.51	8.44	57.171	914.	E
36	1.00	21	12.00	49.00	30.81	13.37	90.075	888.	E
37	1.00	22	11.00	50.00	32.58	12.07	76.991	896.	E
38	1.00	21	13.00	54.00	30.46	14.46	89.408	899.	E
39	1.00	31	15.77	66.00	46.84	18.14	60.920	832.	E
40	1.00	37	21.00	88.00	54.60	23.65	105.93	871.	E
41	1.00	16	24.00	60.00	17.84	32.22	86.830	596.	
42	1.00	21	15.00	50.00	29.96	16.83	80.295	898.	E

45	1.00	15	13.00	46.00	21.31	16.07	88.504	758.	
190 46	1.00	19	7.00	54.00	29.00	7.59	61.978	876.	E
191 47	1.00	13	8.00	37.00	20.60	10.74	60.455	588.	

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
192 48	1.00	19	13.75	49.00	28.50	17.13	82.439	740.	
49	1.00	11	11.00	38.00	14.98	12.85	76.821	855.	E
50	1.00	13	9.00	49.00	20.62	12.66	49.984	522.	
195 51	1.00	12	13.88	44.00	15.75	18.69	74.324	589.	
52	1.00	22	8.00	50.00	36.05	10.06	47.562	696.	
53	1.00	16	13.00	47.00	23.13	16.33	94.640	732.	
54	1.00	15	11.00	40.00	22.48	14.38	47.101	643.	
55	1.00	21	11.00	46.00	30.83	11.99	87.372	911.	E
200 56	1.00	25	6.00	53.00	39.49	6.32	40.073	848.	E
57	1.00	31	8.00	62.00	47.44	7.98	61.196	913.	E
58	1.00	35	17.00	67.00	53.11	19.48	62.749	833.	E
59	1.00	27	9.00	63.00	42.20	10.01	53.589	833.	E
60	1.00	22	15.00	46.00	31.82	17.12	95.172	868.	E
205 61	1.00	23	11.00	66.00	34.39	12.17	86.913	880.	E
62	1.00	16	13.00	39.00	22.36	14.54	107.31	914.	E
63	1.00	22	15.00	60.00	32.08	17.48	73.179	836.	E
64	1.00	9	10.00	34.00	11.96	11.50	77.969	890.	E
65	1.00	11	5.74	37.00	17.71	7.24	62.501	709.	
210 66	1.00	18	10.00	59.00	27.28	11.89	42.246	793.	E
67	1.00	16	7.00	45.00	24.05	7.66	71.318	884.	E
68	1.00	15	13.59	48.00	21.28	15.24	101.61	917.	E
69	1.00	21	8.00	52.00	31.95	8.68	69.624	878.	E
70	1.00	29	13.94	60.00	43.86	15.74	63.118	852.	E
215 71	1.00	24	7.85	54.00	37.92	8.77	47.347	825.	E
72	1.00	13	5.00	30.00	20.03	5.58	54.481	844.	E
73	1.00	16	11.00	44.00	23.09	12.52	80.785	873.	E
74	1.00	22	16.11	66.00	31.49	18.69	112.01	847.	E
75	1.00	17	11.00	49.00	24.90	12.70	59.614	845.	E
220 76	1.00	22	10.00	49.00	32.90	10.93	61.943	890.	E
77	1.00	19	3.00	42.00	30.16	2.83	32.538	869.	E
78	1.00	16	9.00	44.00	23.39	9.91	76.205	904.	E
79	1.00	18	16.00	52.00	25.34	19.50	78.975	780.	E
80	1.00	20	9.00	47.00	30.35	10.11	66.967	852.	E
225 81	1.00	20	9.00	45.00	30.28	10.06	66.912	858.	E
82	1.00	11	11.00	32.00	15.02	13.07	94.476	827.	E
83	1.00	14	5.00	40.00	21.85	5.63	58.540	825.	E
84	1.00	10	4.00	34.00	15.25	4.41	86.785	863.	E
85	1.00	13	4.00	27.00	20.30	4.36	39.559	847.	E
230 86	1.00	9	6.00	29.00	12.90	6.65	56.603	911.	E
87	1.00	15	8.00	41.00	22.51	9.18	65.107	839.	E
88	1.00	11	8.00	36.00	15.76	9.14	85.065	870.	E
89	1.00	15	9.00	43.00	22.52	10.74	84.597	792.	E
90	1.00	13	9.00	34.00	18.68	10.16	67.483	887.	E
235 91	1.00	20	11.00	51.00	29.77	12.52	79.629	854.	E
92	1.00	12	7.00	30.00	17.36	7.61	70.367	927.	E
93	1.00	13	8.83	40.00	19.74	10.99	39.760	738.	
94	1.00	17	14.00	50.00	24.32	17.05	67.462	778.	E
95	1.00	14	10.00	36.00	20.03	11.29	93.893	888.	E
240 96	1.00	18	7.00	42.00	27.78	7.86	67.795	838.	E
97	1.00	12	9.00	28.00	17.15	10.34	91.791	865.	E
245 98	1.00	12	10.00	39.00	17.11	12.14	91.558	784.	E

245	101	1.00	19	9.00	43.00	28.65	10.11	58.411	858.	E
	102	1.00	12	4.00	42.00	18.84	4.49	28.890	823.	E
47	103	1.00	11	10.00	40.00	15.26	11.65	76.046	855.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG	
48	104	1.00	16	6.00	36.00	24.20	6.41	79.520	896.	E
(1 missing vial)										
#	106	1.00	****	675.64	127879.	197010.	0.00	19.850	964.	E
4C	107	1.00	****	103254.	130056.	20360.6	116492.	158.47	979.	E
ink	108	1.00	18	6.00	28.00	26.63	5.95	62.662	968.	E
(1 missing vial)										
6	110	1.00	14	5.00	34.00	21.46	5.43	50.769	870.	E
7	111	1.00	10	6.21	38.00	14.59	7.45	64.601	789.	E
8	112	1.00	13	6.00	42.00	19.76	6.80	54.739	842.	E
17	113	1.00	11	6.83	38.00	16.87	8.73	66.938	689.	
19	114	1.00	10	8.00	35.00	14.52	10.09	94.338	724.	
21	115	1.00	16	9.00	34.00	23.79	10.28	54.377	850.	E
25	116	1.00	15	7.00	42.00	22.28	7.59	87.327	904.	E
27	117	1.00	9	13.34	37.00	9.67	17.59	76.748	635.	
33	118	1.00	8	3.00	19.00	12.36	3.35	75.143	841.	E

Job Location: Neurogen Corp.

Branford, CT

Page: 1 of 15

Survey Purpose: Decommissioning

Room 314 Phase III

Date: 7/7/08

Performed By: David J. Durkee



Inst. No. 1 (Model/SN) Packard 1600TR #10325* <u>285-401915</u>	Inst. No. 2 (Model/SN) <u>Ludlum 2241-2 #137257</u>	Inst. No. 3 (Model/SN) <u>Ludlum 3 #114208</u>
Detector (Model/SN) Internal	Detector (Model/SN) <u>Ludlum 43-68#140899</u>	Detector (Model/SN) <u>Ludlum 44-21 #156898</u>
Efficiency: <u>40% H-3 / 75% gamma</u> <small>See Printout</small>	Efficiency: <u>7.4 Bc-14</u>	Efficiency: <u>16% I-125</u>
Type Rad.: β	Type Rad.: <u>β</u>	Type Rad.: <u>γ</u>
Bkgd.: See #1 Below	Bkgd.: <u>330 ^{cts}cpm / 400 ^{cpm} Floor</u>	Bkgd.: <u>300 cpm</u>
Cal. Due: <u>12/3/08</u>	Cal. Due: <u>9/10/08</u>	Cal. Due: <u>5/20/09</u>

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	<u>0946</u>	Background	1	<u>32</u> Cpm	
2		<u>Wall</u>	1	<u>19</u>	
3		<u>Upper Door</u>	1	<u>6</u>	
4		<u>Lower Door</u>	1	<u>12</u>	
5		<u>Upper Wall</u>	1	<u>0</u>	
6		<u>Lower Wall</u>	1	<u>0</u>	
7		<u>Upper Wall</u>	1	<u>7</u>	
8		<u>Lower Wall</u>	1	<u>24</u>	
9		<u>Upper Wall</u>	1	<u>13</u>	
10		<u>Lower Wall</u>	1	<u>1</u>	
11		<u>Upper Wall</u>	1	<u>16</u>	
12		<u>Lower Wall</u>	1	<u>0</u>	
13		<u>Upper Wall</u>	1	<u>25</u>	
14		<u>Lower Wall</u>	1	<u>13</u>	
15		<u>Upper Wall</u>	1	<u>4</u>	
16		<u>Lower Wall</u>	1	<u>0</u>	
17		<u>Floor</u>	1	<u>13</u>	
18		<u>Floor</u>	1	<u>5</u>	
19		<u>Floor</u>	1	<u>3</u>	
20		<u>Floor</u>	1	<u>3</u>	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		Floor	1	27	
22		Floor	1	7	
23		Floor	1	0	
24		Floor	1	5	
25		Floor	1	1	
26		Floor	1	3	
27		Floor	1	0	
28		Floor	1	3	
29		Floor	1	13	
30		Floor	1	0	
31		Floor	1	0	
32		Floor	1	4	
33		Floor	1	1	
34		Floor	1	16	
35		Floor	1	7	
36		Floor	1	0	
37		Floor	1	0	
38		Floor	1	9	
39		Floor	1	7	
40		Floor	1 1	24	
41		Floor	1	24	
42		Floor	1	0	
43		UPPER WALL	1	4	
44		LOWER WALL	1	0	
45		UPPER WALL	1	13	
46		LOWER WALL	1	0	
47		UPPER WALL	1	17	
48		LOWER WALL	1	3	
49		SIDE OF HOOD UP	1	8	
50		SIDE OF HOOD DOWN	1	1	
51	✓	SASH	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		HOOD LIP	1	8	
53		LEFT FRONT HOOD	1	33	
54		RIGHT FRONT HOOD	1	11	
55		INSIDE SASH	1	11	
56		LEFT SIDE HOOD	1	0	
57		UPPER BACK	1	8	
58		LOWER BACK	1	8	
59		RIGHT SIDE HOOD	1	9	
60		VENT PATH	1	11	
61		HOOD DUCT	1	5	
62		SIDE OF HOOD	1	4	
63		FRONT OF CABINET	1	0	
64		CABINET	1	12	
65		FRONT OF CABINET	1	0	
66		CABINET	1	0	
67		COUNTER	1	0	
68		COUNTER	1	0	
69		COUNTER	1	1	
70		COUNTER	1	7	
71		UPPER WALL	1	12	
72		UPPER WALL	1	5	
73		UPPER WALL	1	0	
74		UPPER WALL	1	9	
75		UPPER WALL	1	0	
76		WALL UNIT	1	4	
77		WALL UNIT	1	0	
78		WALL UNIT	1	5	
79		WALL UNIT	1	5	
80		FRONT OF DRAWERS	1	20	
81		TOP DRAWER	1	0	
82	✓	DRAWER	1	3	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
83		DRAMOR	1	0	
84		DRAMOR	1	0	
85		BOTTOM DRAMOR	1	0	
86		FRONT OF CABINET	1	0	
87		DRAMOR	1	0	
88		CABINET	1	7	
89		FRONT OF DRAMORS	1	0	
90		TOP DRAMOR	1	1	
91		DRAMOR	1	7	
92		DRAMOR	1	0	
93		BOTTOM DRAMOR	1	13	
94		CABBY	1	7	
95		FRONT OF DRAMORS	1	9	
96		TOP DRAMOR	1	0	
97		DRAMOR	1	16	
98		DRAMOR	1	0	
99		BOTTOM DRAMOR	1	11	
100		FRONT OF CABINET	1	8	
101		DRAMOR	1	8	
102		CABINET	1	0	
103		SHELF	1	3	
104		SHELF	1	31	
105		SHELF	1	0	
106		SHELF	1	4	
107		SHELF	1	0	
108		COUNTER	1	0	
109		COUNTER	1	0	
110		COUNTER	1	0	
111		COUNTER	1	0	
112		FRONT OF DRAMORS	1	15	
113		TOP DRAMOR	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
114		DRAMER	1	0	
115		DRAMER	1	0	
116		BOTTOM DRAMER	1	9	
117		TOP DRAMER	1	12	
118		DRAMER	1	20	
119		DRAMER	1	8	
120		BOTTOM DRAMER	1	17	
121		CUBBY	1	4	
122		FRONT OF DRAMERS	1	9	
123		TOP DRAMER	1	0	
124		DRAMER	1	0	
125		DRAMER	1	4	
126		BOTTOM DRAMER	1	12	
127		TOP DRAMER	1	12	
128		DRAMER	1	0	
129		DRAMER	1	9	
130		BOTTOM DRAMER	1	9	
131		CUBBY	1	0	
132		FRONT OF DRAMERS	1	0	
133		TOP DRAMER	1	8	
134		DRAMER	1	4	
135		DRAMER	1	12	
136		BOTTOM DRAMER	1	0	
137		TOP DRAMER	1	12	
138		DRAMER	1	0	
139		DRAMER	1	0	
140		BOTTOM DRAMER	1	13	
141		SIDE OF CABINET	1	15	
142		FRONT OF CABINET	1	5	
143		INSIDE CABINET	1	1	
144		FRONT OF CABINET	1	11	

Radiological Survey Continuation Sheet

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Date 7/7/08

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
145		INSIDE CABINET	1	20	
146		SINK	1	0	
147		FAUCET	1	4	
148		DRAIN TRAP	1	0	
149		UPPER WALL	1	11	
150		COUNTER	1	29	
151		COUNTER	1	0	
152		COUNTER	1	0	
153		COUNTER	1	0	
154		CUP SINK	1	0	
155		FAUCET	1	8	
156		CUP SINK	1	12	
157		FAUCET	1	9	
158		CUP SINK	1	12	
159		FAUCET	1	12	
160		SIDE OF CABINET	1	12	
161		FRONT OF DRAWERS	1	19	
162		TOP DRAWER	1	16	
163		DRAWER	1	8	
164		DRAWER	1	0	
165		BOTTOM DRAWER	1	11	
166		FRONT OF DRAWERS	1	0	
167		TOP DRAWER	1	9	
168		DRAWER	1	11	
169		DRAWER	1	12	
170		BOTTOM DRAWER	1	0	
171		CABINETS	1	13	
172	✓	FRONT OF DRAWERS	1	0	

Radiological Survey Continuation Sheet

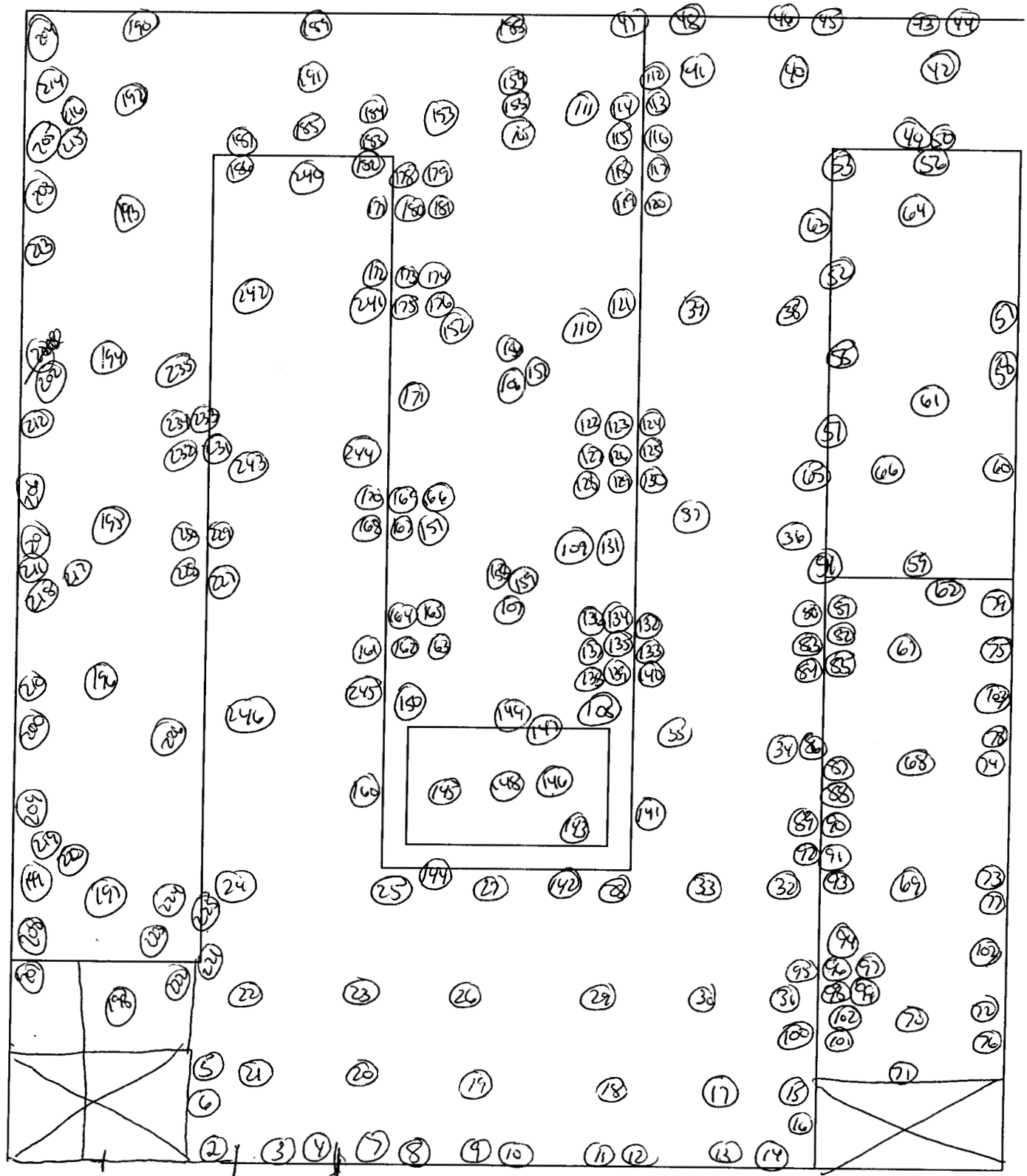
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Date 2/7/08

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
173		TOP DRAINAGE	1	0	
174		DRAINAGE	1	8	
175		DRAINAGE	1	5	
176		BOTTOM DRAINAGE	1	0	
177		FRONT OF DRAINAGE	1	33	
178		TOP DRAINAGE	1	1	
179		DRAINAGE	1	15	
180		DRAINAGE	1	11	
181		BOTTOM DRAINAGE	1	5	
182		TOP DRAINAGE	1	15	
183		DRAINAGE	1	3	
184		DRAINAGE	1	17	
185		CUBBY	1	11	
186		TOP DRAINAGE	1	0	
187		DRAINAGE	1	4	
188		UPPER WALL	1	1	
189		UPPER WALL	1	24	
190		UPPER WALL	1	0	
191		COUNTER	1	21	
192		COUNTER	1	20	
193		COUNTER	1	0	
194		COUNTER	1	36	
195		COUNTER	1	0	
196		COUNTER	1	4	
197		COUNTER	1	21	
198		UPPER WALL	1	3	
199		UPPER WALL	1	12	
200	↓	UPPER WALL	1	23	

Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
201		UPPER WALL	1	0	
202		UPPER WALL	1	0	
203		UPPER WALL	1	0	
204		UPPER WALL	1	11	
205		SHELF	1	17	
206		SHELF	1	9	
207		SHELF	1	8	
208		WALL UNIT	1	21	
209		WALL UNIT	1	21	
210		WALL UNIT	1	13	
211		WALL UNIT	1	8	
212		WALL UNIT	1	27	
213		WALL UNIT	1	12	
214		WALL UNIT	1	8	
215		CUP SINK	1	0	
216		FAUCET	1	15	
217		CUP SINK	1	15	
218		FAUCET	1	7	
219		CUP SINK	1	8	
220		FAUCET	1	0	
221		FRONT OF CABINET	1	15	
222		LEFT DRAWER	1	3	
223		CABINET	1	0	
224		RIGHT DRAWER	1	8	
225		CABINET	1	7	
226		CUBBY	1	17	
227		FRONT OF CABINET	1	24	
228	↓	LEFT DRAWER	1	0	



BIOCHEMISTRY
LAB 2
Room 314, PhIII

Protocol #:11 Name:RAD DEPT 07-Jul-2008 13:04
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE/AEC ES Terminator = Count

Conventional DPM

Nuclide 1 = 230269 Nuclide 2 = 117000

Warning: User program changes may have invalidated DPM calculation

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	17	6.00	32.00	25.18	6.05	71.667	958.	E
2	1.00	13	14.00	46.00	17.45	16.70	107.12	824.	E
3	1.00	12	13.00	36.00	16.03	14.97	82.754	886.	E
4	1.00	22	4.00	41.00	33.49	3.52	49.434	950.	E
5	1.00	14	3.00	31.00	21.48	2.85	73.169	923.	E
6	1.00	13	9.00	29.00	18.76	10.27	70.182	869.	E
7	1.00	18	5.00	37.00	27.75	5.17	64.270	889.	E
8	1.00	17	16.00	50.00	23.53	19.06	76.262	820.	E
9	1.00	14	4.00	42.00	21.43	4.10	56.086	902.	E
10	1.00	12	5.00	33.00	16.97	4.79	69.298	1058	E
11	1.00	11	6.91	44.00	16.03	7.65	63.843	907.	E
12	1.00	19	4.00	32.00	31.23	4.50	38.590	774.	E
13	1.00	15	11.00	51.00	21.63	12.83	83.151	839.	E
14	1.00	11	15.00	42.00	13.56	18.99	85.991	732.	E
15	1.00	16	7.00	35.00	23.77	7.48	65.317	916.	E
16	1.00	9	8.00	30.00	12.82	10.45	79.211	650.	E
17	1.00	14	13.00	42.00	19.91	19.08	55.521	471.	E
18	1.00	13	8.00	36.00	22.07	12.03	47.233	445.	E
19	1.00	12	5.00	34.00	18.79	5.89	66.277	786.	E
20	1.00	15	7.00	34.00	23.76	8.73	55.373	722.	E
21	1.00	15	8.00	52.00	22.22	8.93	84.716	878.	E
22	1.00	9	11.00	37.00	11.67	13.32	80.571	804.	E
23	1.00	9	3.00	25.00	14.05	3.33	55.373	836.	E
24	1.00	10	5.00	36.00	15.62	6.16	95.872	741.	E
25	1.00	16	3.00	33.00	25.03	2.88	60.483	889.	E
26	1.00	12	10.06	34.00	16.80	11.74	79.520	848.	E
27	1.00	10	8.00	31.00	14.11	9.14	85.689	878.	E
28	1.00	4	5.00	34.00	5.17	5.70	87.918	913.	E
29	1.00	17	4.00	42.00	25.96	3.87	67.181	926.	E
30	1.00	13	10.65	28.00	18.92	12.31	71.155	860.	E
31	1.00	11	7.00	31.00	17.49	9.55	51.895	564.	E
32	1.00	12	8.00	35.00	17.37	9.07	96.140	876.	E
33	1.00	12	6.59	33.00	18.33	7.31	55.415	888.	E
34	1.00	23	6.00	44.00	35.20	6.00	68.074	916.	E
35	1.00	13	2.00	37.00	20.81	1.80	54.085	850.	E
36	1.00	9	7.00	24.00	15.77	3.00	63.894	871.	E
37	1.00	19	5.00	31.00	14.76	6.52	67.160	874.	E
38	1.00	11	6.49	33.00	14.07	7.07	64.667	917.	E
39	1.00	14	8.80	35.00	20.81	7.29	50.434	883.	E
40	1.00	18	9.98	50.00	18.90	12.21	66.170	767.	E
41	1.00	29	7.00	50.00	45.88	7.39	41.908	847.	E
42	1.00	17	2.00	31.00	27.54	1.80	20.274	842.	E
43	1.00	10	5.00	25.00	15.40	5.50	25.000	800.	E

45	1.00	16	8.00	42.00	23.88	8.92	57.847	874.	E
46	1.00	8	6.00	25.00	11.48	6.98	114.87	845.	E
47	1.00	14	11.00	45.00	19.91	12.75	82.882	854.	E

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
48	1.00	11	4.00	34.00	17.28	4.59	46.438	806.	E
49	1.00	8	10.91	38.00	10.20	13.07	92.837	826.	E
50	1.00	16	9.00	33.00	23.85	10.34	63.494	841.	E
51	1.00	14	3.00	32.00	22.97	3.37	66.088	776.	E
52	1.00	17	6.00	38.00	26.02	6.47	89.182	875.	E
53	1.00	16	13.00	57.00	22.35	14.52	131.17	917.	E
54	1.00	18	7.00	40.00	27.19	7.52	80.122	894.	E
55	1.00	13	13.00	40.00	17.80	15.82	78.028	787.	E
56	1.00	12	7.00	30.00	18.14	8.40	83.291	782.	E
57	1.00	11	12.98	38.00	14.32	16.66	83.326	702.	E
58	1.00	14	2.00	38.00	22.50	1.89	34.608	848.	E
59	1.00	11	14.00	39.00	14.15	16.41	125.96	862.	E
60	1.00	11	11.00	40.00	15.10	13.70	78.426	751.	E
61	1.00	14	7.00	36.00	21.28	8.11	50.978	820.	E
62	1.00	13	6.00	35.00	19.75	6.80	72.816	843.	E
63	1.00	7	7.09	26.00	9.41	8.78	86.899	761.	E
64	1.00	14	8.00	41.00	20.85	9.22	47.202	838.	E
65	1.00	13	6.00	25.00	20.27	7.19	89.964	770.	E
66	1.00	14	3.04	27.00	24.29	3.88	54.381	643.	E
67	1.00	6	5.00	20.00	8.70	6.53	70.036	649.	E
68	1.00	12	3.00	27.00	19.49	3.40	45.154	783.	E
69	1.00	9	11.00	33.00	11.63	13.70	115.08	756.	E
70	1.00	16	4.30	37.00	25.01	4.76	40.928	815.	E
71	1.00	12	14.00	41.00	15.78	16.43	87.349	856.	E
72	1.00	17	6.21	36.00	26.22	7.06	54.779	818.	E
73	1.00	9	6.00	27.00	13.06	6.85	68.373	866.	E
74	1.00	12	9.00	39.00	17.30	10.60	98.627	825.	E
75	1.00	10	4.00	30.00	18.62	5.89	53.424	466.	E
76	1.00	9	11.00	35.00	11.64	13.57	82.256	772.	E
77	1.00	16	1.00	26.00	26.93	0.78	21.148	788.	E
78	1.00	8	3.00	36.00	14.08	4.13	36.040	548.	E
79	1.00	9	9.00	36.00	12.29	10.69	87.918	827.	E
80	1.00	16	13.00	47.00	22.84	15.56	84.678	805.	E
81	1.00	5	9.71	30.00	5.83	11.83	105.29	804.	E
82	1.00	7	10.00	34.00	8.58	12.26	70.714	786.	E
83	1.00	9	5.00	25.00	13.68	5.99	52.048	783.	E
84	1.00	8	7.00	20.00	11.31	8.56	87.312	775.	E
85	1.00	12	6.00	31.00	17.88	6.67	108.52	878.	E
86	1.00	10	6.66	30.00	14.98	7.49	85.159	886.	E
87	1.00	8	4.00	24.00	12.25	4.71	72.894	797.	E
88	1.00	18	3.00	37.00	27.90	2.69	63.206	916.	E
89	1.00	10	3.00	31.00	15.22	3.08	42.718	910.	E
90	1.00	15	7.00	33.00	23.19	8.26	48.077	791.	E
91	1.00	15	4.00	37.00	22.80	3.96	54.401	926.	E
92	1.00	7	6.00	30.00	9.93	7.31	57.286	779.	E
93	1.00	11	13.00	42.00	14.42	15.45	78.110	834.	E
94	1.00	13	5.00	37.00	20.21	5.69	93.536	821.	E
95	1.00	14	7.00	39.00	20.83	7.75	84.683	883.	E
96	1.00	10	12.00	30.00	13.05	14.28	103.30	834.	E
97	1.00	13	7.13	44.00	19.19	8.15	61.151	847.	E
98	1.00	9	8.81	27.00	12.70	10.62	104.41	802.	E
99	1.00	11	12.00	42.00	18.75	17.85	78.801	811.	E

101	1.00	10	12.71	38.00	13.33	14.93	69.922	858.	E
102	1.00	6	2.00	20.00	9.41	2.24	51.159	825.	E
103	1.00	15	8.00	34.00	23.01	9.65	58.478	771.	E

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S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
104	1.00	30	9.00	55.00	48.25	10.40	47.080	781.	E
105	1.00	9	7.00	30.00	12.82	8.10	99.811	855.	E
106	1.00	19	6.00	35.00	30.25	6.86	47.123	797.	E
107	1.00	8	4.00	26.00	12.27	4.73	63.665	794.	E
108	1.00	8	13.00	29.00	8.98	16.64	90.109	715.	E
109	1.00	13	10.07	31.00	18.43	11.71	85.065	848.	E
110	1.00	10	1.00	27.00	17.85	1.21	20.865	653.	E
111	1.00	13	6.00	31.00	21.56	7.99	37.844	598.	E
112	1.00	18	3.00	43.00	28.42	2.84	49.220	877.	E
113	1.00	6	6.00	24.00	8.14	6.87	109.54	889.	E
114	1.00	10	9.00	32.00	13.84	10.30	105.68	885.	E
115	1.00	11	6.00	31.00	16.55	6.97	74.585	823.	E
116	1.00	15	7.00	39.00	22.28	7.59	31.855	905.	E
117	1.00	14	10.00	41.00	20.05	11.33	80.451	883.	E
118	1.00	18	8.00	47.00	27.00	8.74	65.064	887.	E
119	1.00	11	8.00	38.00	15.96	9.46	65.889	817.	E
120	1.00	13	8.61	45.00	20.16	10.66	73.757	745.	E
121	1.00	13	8.00	35.00	19.26	9.33	65.576	826.	E
122	1.00	16	6.00	39.00	24.41	6.52	62.303	874.	E
123	1.00	8	4.87	26.00	11.79	5.37	59.015	908.	E
124	1.00	6	5.00	25.00	8.36	5.61	67.556	911.	E
125	1.00	12	5.00	35.00	18.34	5.60	58.724	850.	E
126	1.00	12	13.00	41.00	16.07	15.30	87.119	847.	E
127	1.00	19	10.48	41.00	27.17	11.64	88.330	891.	E
128	1.00	10	9.00	27.00	13.82	10.26	101.62	890.	E
129	1.00	15	7.00	39.00	22.52	7.76	83.679	874.	E
130	1.00	12	9.21	39.00	17.00	11.12	75.817	789.	E
131	1.00	5	10.00	26.00	5.38	11.94	135.68	845.	E
132	1.00	14	4.92	30.00	21.76	5.41	69.606	852.	E
133	1.00	22	3.00	38.00	35.64	2.86	35.053	835.	E
134	1.00	16	5.00	35.00	24.54	5.26	58.315	887.	E
135	1.00	18	6.16	41.00	27.38	6.64	50.959	873.	E
136	1.00	11	9.00	27.00	15.50	10.36	87.151	868.	E
137	1.00	19	11.60	41.00	28.33	12.97	60.835	888.	E
138	1.00	7	8.00	30.00	9.25	9.31	109.89	870.	E
139	1.00	4	6.00	32.00	4.88	7.10	102.56	852.	E
140	1.00	19	8.00	42.00	28.73	8.78	78.764	876.	E
141	1.00	16	10.00	43.00	24.11	12.23	70.743	760.	E
142	1.00	14	11.00	36.00	19.88	12.68	67.153	863.	E
143	1.00	9	6.00	33.00	13.20	7.03	68.908	825.	E
144	1.00	15	6.00	40.00	23.08	6.74	51.971	840.	E
145	1.00	17	12.00	47.00	24.91	14.38	59.994	796.	E
146	1.00	10	5.00	25.00	14.95	5.59	93.304	869.	E
147	1.00	14	6.00	35.00	21.16	6.60	50.718	874.	E
148	1.00	6	6.00	25.00	8.13	6.84	86.135	897.	E
149	1.00	14	7.00	40.00	21.14	8.00	62.824	839.	E
150	1.00	18	14.00	54.00	26.46	18.08	71.272	674.	E
151	1.00	12	7.00	32.00	17.88	8.13	65.467	829.	E
152	1.00	12	4.57	30.00	20.23	5.68	51.643	715.	E
153	1.00	7	12.00	30.00	7.69	15.22	88.191	732.	E
154	1.00	8	7.00	28.00	11.39	8.90	59.171	713.	E

157	1.00	16	9.00	39.00	23.85	10.34	70.363	842.	E
158	1.00	18	7.00	41.00	28.70	8.43	46.288	755.	E
159	1.00	11	16.00	41.00	13.44	19.43	96.181	805.	E

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S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
160	1.00	24	6.00	41.00	37.94	6.39	25.520	843.	E
161	1.00	11	14.00	46.00	13.96	17.66	79.929	737.	E
162	1.00	16	7.00	44.00	24.38	7.88	49.127	848.	E
163	1.00	15	11.91	38.00	21.69	14.29	66.697	799.	E
164	1.00	9	6.00	27.00	13.14	6.95	88.810	843.	E
165	1.00	17	13.00	40.00	24.46	15.39	79.073	819.	E
166	1.00	7	9.00	25.00	8.97	10.64	81.955	847.	E
167	1.00	18	10.00	39.00	26.35	11.01	96.185	903.	E
168	1.00	24	4.00	40.00	38.59	3.99	34.221	839.	E
169	1.00	18	6.21	41.00	28.21	7.21	40.459	789.	E
170	1.00	11	5.39	28.00	15.99	6.17	62.394	840.	E
171	1.00	15	9.00	42.00	22.08	10.25	63.063	860.	E
172	1.00	9	6.00	31.00	12.97	6.73	82.711	892.	E
173	1.00	12	4.00	31.00	18.53	4.34	56.075	862.	E
174	1.00	19	9.00	38.00	29.59	10.84	64.945	767.	E
175	1.00	16	5.00	36.00	26.21	6.08	54.952	733.	E
176	1.00	9	5.00	23.00	14.04	6.37	51.131	692.	E
177	1.00	10	11.00	57.00	13.34	12.88	121.98	857.	E
178	1.00	11	9.69	33.00	16.04	11.76	79.791	785.	E
179	1.00	19	7.00	43.00	29.45	7.83	59.385	837.	E
180	1.00	23	6.00	40.00	36.52	6.53	48.427	828.	E
181	1.00	17	5.00	36.00	27.32	5.74	66.535	786.	E
182	1.00	17	9.00	43.00	25.50	10.30	66.793	842.	E
183	1.00	13	7.00	34.00	19.18	7.77	57.940	888.	E
184	1.00	19	7.00	45.00	29.14	7.66	54.014	863.	E
185	1.00	12	9.00	40.00	17.29	10.59	62.748	827.	E
186	1.00	14	1.00	31.00	22.73	0.67	23.326	854.	E
187	1.00	12	11.00	35.00	16.71	13.14	91.276	814.	E
188	1.00	12	11.00	33.00	16.70	13.10	79.413	819.	E
189	1.00	24	10.00	50.00	37.20	11.52	60.329	813.	E
190	1.00	12	6.16	30.00	18.63	7.82	59.831	696.	E
191	1.00	26	6.00	48.00	45.94	7.84	27.084	608.	E
192	1.00	12	7.00	47.00	18.04	8.30	73.408	800.	E
193	1.00	8	11.00	29.00	9.32	15.05	71.549	564.	E
194	1.00	18	11.00	59.00	26.54	12.65	70.731	847.	E
195	1.00	9	7.00	31.00	13.45	9.37	43.837	596.	E
196	1.00	13	9.00	35.00	18.76	10.27	90.245	869.	E
197	1.00	18	14.95	48.00	25.71	17.98	82.730	797.	E
198	1.00	11	9.00	34.00	15.42	10.20	71.182	894.	E
199	1.00	13	10.00	41.00	18.46	11.42	66.922	876.	E
200	1.00	21	11.00	49.00	31.10	12.21	72.024	885.	E
201	1.00	12	8.00	31.00	17.32	9.01	86.670	885.	E
202	1.00	11	6.00	29.00	16.19	6.65	99.416	891.	E
203	1.00	10	8.00	32.00	14.13	9.17	84.798	873.	E
204	1.00	13	7.66	40.00	19.57	8.55	72.760	886.	E
205	1.00	20	8.00	45.00	30.89	9.06	72.798	831.	E
206	1.00	15	6.00	39.00	22.51	6.40	55.258	906.	E
207	1.00	16	6.26	38.00	24.21	7.01	61.792	843.	E
208	1.00	16	12.00	48.00	23.59	15.24	104.61	711.	E
209	1.00	10	15.11	48.00	10.92	20.23	65.805	600.	E
210	1.00	19	7.00	42.00	29.38	7.79	68.645	843.	E
211	1.00	15	11.00	32.00	21.00	15.75	72.175	721.	E

213	1.00	15	12.00	41.00	21.67	14.81	84.946	757.
214	1.00	14	9.00	38.00	21.13	11.22	65.735	736.
215	1.00	14	4.00	26.00	22.86	4.74	49.577	754.

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S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
216	1.00	21	8.00	43.00	33.07	9.33	47.873	790.	E
217	1.00	14	11.00	43.00	20.06	13.04	87.055	818.	E
218	1.00	18	7.00	37.00	28.32	8.19	64.842	789.	E
219	1.00	11	11.00	38.00	15.10	13.85	58.655	734.	
220	1.00	17	5.00	29.00	26.61	5.42	44.575	847.	E
221	1.00	14	7.00	43.00	21.16	8.02	62.671	836.	E
222	1.00	16	6.00	34.00	24.24	6.43	56.613	892.	E
223	1.00	8	10.00	27.00	10.26	12.41	86.313	763.	E
224	1.00	13	11.00	38.00	18.53	13.49	68.317	769.	E
225	1.00	19	4.00	37.00	31.18	4.48	49.546	778.	E
226	1.00	21	7.00	45.00	33.64	8.21	50.156	774.	E
227	1.00	20	14.00	50.00	29.22	16.58	68.401	813.	E
228	1.00	17	3.00	32.00	27.14	2.98	59.947	850.	E
229	1.00	16	10.00	43.00	23.63	11.64	56.360	830.	E
230	1.00	18	8.84	45.00	27.86	10.38	58.256	801.	E
231	1.00	19	11.00	45.00	28.55	13.00	56.817	804.	E
232	1.00	15	6.00	40.00	23.09	6.75	79.409	839.	E
233	1.00	7	7.00	29.00	9.53	8.17	94.007	858.	E
234	1.00	16	6.76	34.00	29.39	9.72	44.172	492.	
235	1.00	23	9.00	45.00	35.81	10.31	38.420	814.	E
236	1.00	21	10.00	39.00	31.71	11.28	70.413	852.	E
237	1.00	13	11.00	40.00	18.23	12.70	68.079	866.	E
238	1.00	18	5.00	35.00	28.67	5.56	41.381	814.	E
239	1.00	22	7.00	44.00	34.80	7.91	49.091	811.	E
240	1.00	16	5.28	37.00	25.02	6.13	52.430	787.	E
241	1.00	8	6.00	32.00	11.59	7.17	81.608	803.	E
242	1.00	14	7.00	40.00	21.20	8.05	78.339	831.	E
243	1.00	15	6.00	37.00	23.11	6.76	52.277	837.	E
244	1.00	11	7.00	36.00	16.17	8.10	62.238	841.	E
245	1.00	15	5.00	31.00	23.56	5.62	44.940	821.	E
246	1.00	17	12.00	40.00	24.63	13.95	104.99	842.	E
247	1.00	15	8.10	40.00	22.25	9.25	87.910	848.	E

(1 missing vial)

3H 249	1.00	****	721.34	127875.	197156.	0.00	19.856	962.	E
4C 250	1.00	****	103217.	130555.	21175.6	116549.	157.64	977.	E
3ak 251	1.00	15	3.86	31.00	22.65	3.64	57.358	966.	E

FRONT PIN JAM FWD

Job Location: Neurogen Corp.

Branford, CT

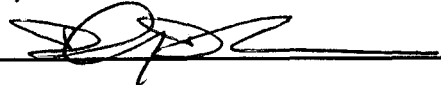
Page: 1 of 15

Survey Purpose: Decommissioning

Room 313 / PH 3

Date: 7/1/08

Performed By: David J. Durkee



Inst. No. 1 (Model/SN) Packard 1600TR #10325 <u>103025</u>	Inst. No. 2 (Model/SN) Lullum 2241-2 # 137757	Inst. No. 3 (Model/SN) Lullum 3 # 114208
Detector (Model/SN) Internal	Detector (Model/SN) Lullum 43-68 # 140899	Detector (Model/SN) Lullum 44-21 # 156898
Efficiency: <u>40% H-3 / 75% gamma</u> <u>See Printout</u>	Efficiency: <u>7.4 % C-14</u>	Efficiency: <u>16% I-125</u>
Type Rad.: β	Type Rad.: β	Type Rad.: γ
Bkgd.: See #1 Below	Bkgd.: <u>320 cpm / 400 cpm floor</u>	Bkgd.: <u>300 cpm</u>
Cal. Due: <u>12 / 3 / 08</u>	Cal. Due: <u>9 / 10 / 08</u>	Cal. Due: <u>5 / 20 / 09</u>

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	1328	Background	1	38 Cpm	
2		UPPER WALL	1	8	
3		LOWER WALL	1	0	
4		UPPER WALL	1	7	
5		LOWER WALL	1	9	
6		UPPER WALL	1	0	
7		LOWER WALL	1	4	
8		UPPER DOOR	1	12	
9		LOWER DOOR	1	0	
10		UPPER WALL	1	12	
11		LOWER WALL	1	0	
12		UPPER WALL	1	1	
13		LOWER WALL	1	9	
14		UPPER WALL	1	20	
15		LOWER WALL	1	4	
16		UPPER WALL	1	17	
17		LOWER WALL	1	0	
18		UPPER WALL	1	0	
19		LOWER WALL	1	0	
20		FLOOR	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		Floor	1	20	
22		Floor	1	0	
23		Floor	1	5	
24		Floor	1	0	
25		Floor	1	4	
26		Floor	1	16	
27		Floor	1	0	
28		Floor	1	9	
29		Floor	1	0	
30		Floor	1	1	
31		Floor	1	9	
32		Floor	1	15	
33		Floor	1	0	
34		Floor	1	0	
35		Floor	1	0	
36		Floor	1	1	
37		UPPER WALL	1	0	
38		COUNTER	1	13	
39		COUNTER	1	0	
40		COUNTER	1	9	
41		COUNTER	1	0	
42		SIDE OF HOOD	1	5	
43		UPPER WALL	1	0	
44		STEEP	1	0	
45		UPPER WALL	1	0	
46		UPPER WALL	1	0	
47		UPPER WALL	1	0	
48		STEEP	1	0	
49		WALL UNIT	1	0	
50		WALL UNIT	1	0	
51		WALL UNIT	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		WALL UNIT	1	0	
53		FRONT OF CABINET	1	0	
54		DRAWER	1	0	
55		CABINET	1	0	
56		FRONT OF DRAWERS	1	0	
57		TOP DRAWER	1	0	
58		DRAWER	1	0	
59		DRAWER	1	0	
60		BOTTOM DRAWER	1	8	
61		CASBY	1	0	
62		FRONT OF DRAWERS	1	0	
63		TOP DRAWER	1	0	
64		DRAWER	1	0	
65		DRAWER	1	0	
66		BOTTOM DRAWER	1	3	
67		FRONT OF CABINET	1	0	
68		DRAWER	1	0	
69		CABINET	1	0	
70		FRONT OF DRAWERS	1	0	
71		TOP DRAWER	1	0	
72		DRAWER	1	0	
73		DRAWER	1	0	
74		DRAWER	1	0	
75		BOTTOM DRAWER	1	0	
76		FRONT OF CABINET	1	4	
77		CABINET	1	0	
78		FRONT OF CABINET	1	0	
79		BY SASH CABINET	1	0	
80		SASH	1	0	
81		HOOD LIP	1	5	
82	↓	LEFT FRONT HOOD	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
83		RIGHT FRONT HOOD	1	0	
84		LEFT SIDE HOOD	1	0	
85		HOOD COUNTER	1	0	
86		UPPER BACK HOOD	1	0	
87		LOWER BACK HOOD	1	0	
88		RIGHT SIDE	1	0	
89		VENT PATTI	1	12	
90		HOOD DUCT	1	0	
91		UPPER SIDE HOOD	1	0	
92		LOWER SIDE HOOD	1	0	
93		FLOOR	1	0	
94		FLOOR	1	0	
95		FLOOR	1	0	
96		FLOOR	1	0	
97		FLOOR	1	0	
98		FLOOR	1	0	
99		FLOOR	1	0	
100		FLOOR	1	0	
101		FLOOR	1	0	
102		UPPER WALL	1	0	
103		LOWER WALL	1	0	
104		UPPER WALL	1	0	
105		LOWER WALL	1	7	
106		UPPER WALL	1	0	
107		LOWER WALL	1	0	
108		COUNTER	1	0	
109		COUNTER	1	0	
110		COUNTER	1	0	
111		COUNTER	1	0	
112		SHelves	1	0	
113	↓	SHelves	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
114		SINKS	1	0	
115		Cup Sink	1	0	
116		Faucet	1	0	
117		Cup Sink	1	3	
118		Faucet	1	0	
119		Cup Sink	1	1	
120		Faucet	1	0	
121		Cup Sink	1	0	
122		Faucet	1	0	
123		FRONT OF DRAWERS	1	0	
124		TOP DRAWER	1	15	
125		DRAWER	1	0	
126		DRAWER	1	4	
127		BOTTOM DRAWER	1	0	
128		TOP DRAWER	1	20	
129		DRAWER	1	0	
130		DRAWER	1	0	
131		BOTTOM DRAWER	1	0	
132		Cubby	1	0	
133		FRONT OF DRAWERS	1	0	
134		TOP DRAWER	1	15	
135		DRAWER	1	0	
136		DRAWER	1	0	
137		BOTTOM DRAWER	1	0	
138		TOP DRAWER	1	0	
139		DRAWER	1	4	
140		DRAWER	1	5	
141		BOTTOM DRAWER	1	0	
142		Cubby	1	0	
143		FRONT OF DRAWERS	1	0	
144	↓	TOP DRAWER	1	0	

Radiological Survey Continuation Sheet

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Date 7/7/07

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
145		DRAINAGE	1	7	
146		DRAINAGE	1	13	
147		BOTTOM DRAINAGE	1	0	
148		TOP DRAINAGE	1	0	
149		DRAINAGE	1	0	
150		DRAINAGE	1	0	
151		BOTTOM DRAINAGE	1	0	
152		SIDE OF CABINET	1	0	
153		FRONT OF CABINET	1	12	
154		INSIDE CABINET	1	0	
155		FRONT OF CABINET	1	0	
156		INSIDE CABINET	1	0	
157		SINK DRAIN TRAP	1	0	
158		SINK	1	0	
159		FAUCET	1	0	
160		UPPER WALL	1	0	
161		COUNTER	1	4	
162		COUNTER	1	0	
163		COUNTER	1	27	
164		COUNTER	1	0	
165		UPPER WALL	1	0	
166		SIDE OF CABINET	1	0	
167		FRONT OF DRAINS	1	0	
168		TOP DRAINAGE	1	0	
169		DRAINAGE	1	0	
170		DRAINAGE	1	0	
171		BOTTOM DRAINAGE	1	0	
172	✓	FRONT OF DRAINS	1	0	

Radiological Survey Continuation Sheet

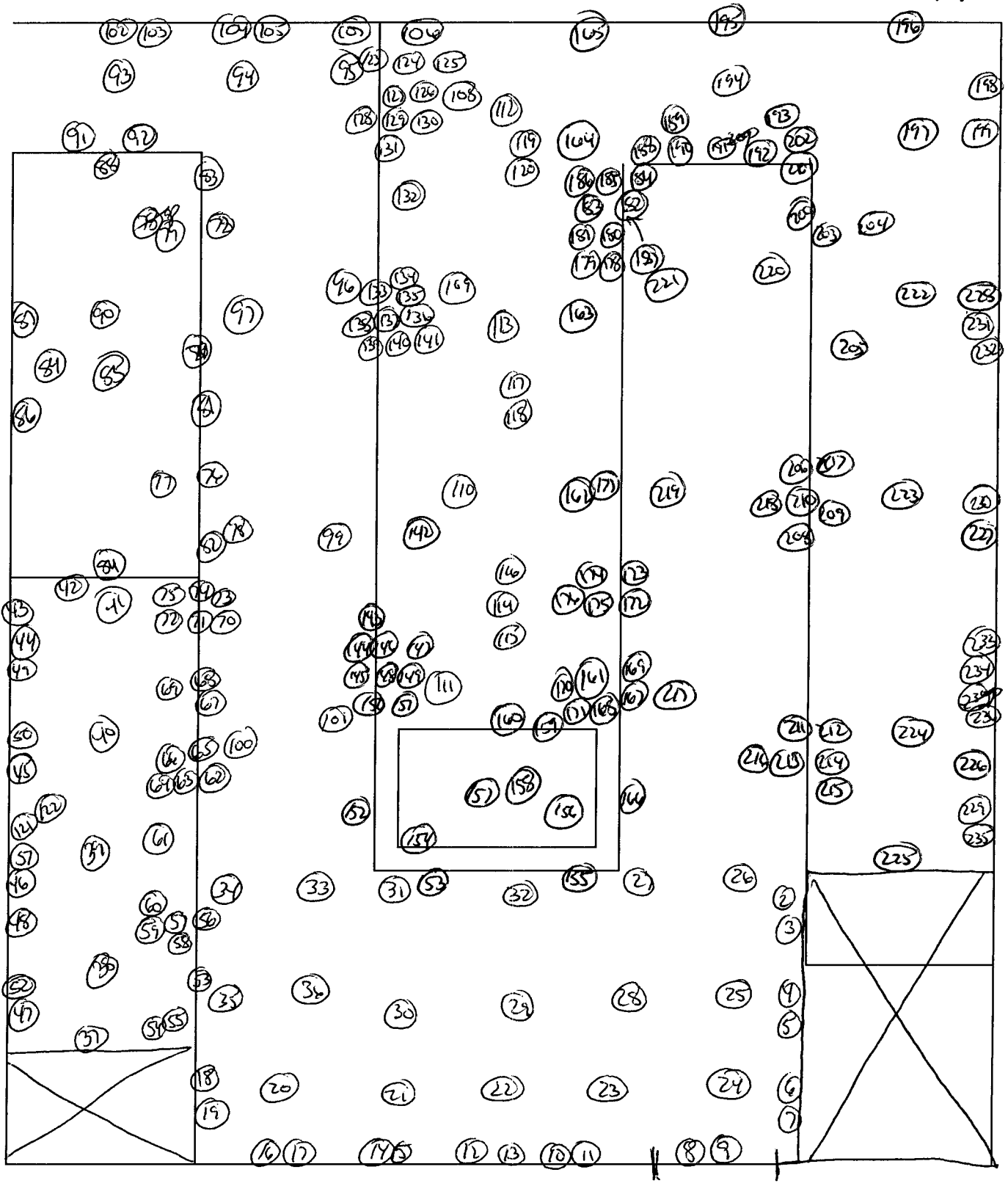
Page 7 of 15

Date 7/2/07

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
173		TOP DRAINER	1	0	
174		DRAINER	1	0	
175		DRAINER	1	7	
176		BOTTOM DRAINER	1	0	
177		COBBY	1	0	
178		FRONT OF DRAINERS	1	0	
179		TOP DRAINER	1	0	
180		DRAINER	1	0	
181		DRAINER	1	0	
182		BOTTOM DRAINER	1	5	
183		TOP OF DRAINERS	1	0	
184		DRAINER	1	0	
185		DRAINER	1	0	
186		BOTTOM DRAINER	1	0	
187		FRONT OF DRAINERS	1	0	
188		TOP DRAINER	1	0	
189		DRAINER	1	0	
190		BOTTOM DRAINER	1	3	
191		COBBY	1	0	
192		TOP DRAINER	1	0	
193		DRAINER	1	0	
194		COUNTER	1	0	
195		UPPER WALL	1	0	
196		UPPER WALL	1	0	
197		COUNTER	1	1	
198		SHELF	1	0	
199		UPPER WALL	1	0	
200	↓	FRONT OF COUNTER	1	4	

Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
201		LEFT DRAWER	1	0	
202		CABINET	1	0	
203		RIGHT DRAWER	1	0	
204		CABINET	1	0	
205		COBBY	1	0	
206		FRONT OF CABINET	1	0	
207		LEFT DRAWER	1	0	
208		CABINET	1	0	
209		RIGHT DRAWER	1	0	
210		CABINET	1	0	
211		FRONT OF CABINET	1	0	
212		LEFT DRAWER	1	0	
213		CABINET	1	8	
214		RIGHT DRAWER	1	0	
215		CABINET	1	0	
216		FLOOR	1	0	
217		FLOOR	1	0	
218		FLOOR	1	0	
219		FLOOR	1	0	
220		FLOOR	1	0	
221		FLOOR	1	0	
222		COUNTER	1	0	
223		COUNTER	1	0	
224		COUNTER	1	0	
225		UPPER WALL	1	0	
226		UPPER WALL	1	0	
227		UPPER WALL	1	0	
228		UPPER WALL	1	0	



BIOCHEMISTRY
LAB 1
Room 313, PhIII

Protocol #: 7 Name:swipe 18-JUL-08 07:54
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 X2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 X2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 X2 Sigma=0.00
 Time = 1.00 RIF = tSIE ES terminator = Count
 Conventional DPM
 Nuclide 1 = 235953 Nuclide 2 = 123200
 Luminescence Correction On

S#	TIME	CPMA	CPMB	CPMC	DFM1	DFM2	SIS	tSIE	LUM
1	1.00	14.00	14.00	38.00	16.18	18.71	138.78	939.	0
2	1.00	17.00	19.00	44.00	18.67	25.52	103.89	930.	3
3	1.00	10.00	13.00	34.00	9.99	17.66	163.71	906.	0
4	1.00	16.00	10.00	43.00	21.35	13.68	86.361	887.	0
5	1.00	7.00	20.00	45.00	1.82	27.05	142.07	917.	0
6	1.00	15.00	12.00	36.00	18.69	16.05	92.287	936.	4
7	1.00	19.00	13.00	41.00	24.83	18.09	73.002	853.	0
8	1.00	14.00	21.00	47.00	12.54	28.61	129.68	900.	0
9	1.00	8.00	10.00	28.00	7.84	14.02	148.11	840.	0
10	1.00	21.00	14.00	47.00	27.53	19.01	82.818	904.	0
11	1.00	9.00	11.00	29.00	9.25	15.06	131.00	889.	5
12	1.00	10.00	14.00	39.00	9.61	18.89	115.09	920.	0
13	1.00	15.00	15.00	45.00	17.20	20.37	136.00	905.	0
14	1.00	19.00	23.00	53.00	19.95	31.04	103.10	919.	0
	1.00	19.00	11.00	41.00	25.73	14.92	95.016	904.	0
16	1.00	20.00	21.00	51.00	22.64	28.11	98.375	936.	0
17	1.00	9.00	11.00	31.00	9.38	14.88	105.09	915.	10
18	1.00	15.00	15.00	38.00	17.28	20.18	114.33	926.	0
19	1.00	7.00	7.00	24.00	8.06	9.43	123.80	923.	7
20	1.00	9.00	13.00	37.00	8.07	17.97	81.253	870.	13
21	1.00	24.00	14.00	53.00	33.42	20.98	73.665	705.	3
22	1.00	18.00	9.00	34.00	25.15	12.27	61.703	893.	0
23	1.00	14.00	14.00	42.00	16.05	19.02	89.937	904.	0
24	1.00	12.00	8.00	31.00	15.95	12.28	106.81	667.	0
FRONT PIN JAM FWD									
25	1.00	14.00	22.00	41.00	11.87	30.14	132.50	888.	0
26	1.00	13.00	17.00	50.00	13.04	22.96	123.00	918.	0
27	1.00	8.00	12.00	32.00	7.29	16.21	141.00	919.	0
28	1.00	5.00	24.00	45.00	0.00	32.39	197.91	923.	0
29	1.00	8.00	13.00	27.00	6.91	17.46	138.11	930.	0
30	1.00	10.00	20.00	39.00	6.54	27.19	119.13	906.	4
31	1.00	12.00	22.00	45.00	9.42	29.36	125.28	945.	0
32	1.00	15.00	18.00	49.00	15.86	24.25	131.90	923.	0
33	1.00	3.00	8.00	22.00	1.11	10.78	124.39	925.	9
34	1.00	10.00	14.00	38.00	8.70	19.87	105.66	812.	0
35	1.00	11.00	15.00	34.00	10.84	20.14	97.905	931.	8
36	1.00	15.00	13.00	35.00	18.17	17.73	118.14	896.	0
37	1.00	8.00	11.00	33.00	7.33	15.36	119.25	849.	10
38	1.00	23.00	16.00	48.00	30.00	23.29	79.207	756.	3
	1.00	21.00	9.00	34.00	30.35	12.43	79.608	865.	0
40	1.00	14.00	17.00	45.00	14.01	23.84	101.85	839.	10
41	1.00	9.00	12.00	25.00	8.78	16.37	134.53	897.	9
42	1.00	13.00	17.00	42.00	12.88	23.17	100.15	899.	0
43	1.00	9.00	11.00	32.00	9.40	14.86	103.28	918.	0
44	1.00	6.00	14.00	31.00	2.71	19.21	120.23	886.	10
45	1.00	8.00	15.00	36.00	5.87	20.26	131.94	919.	5

S#	TIME	CPMA	CPMB	CPMC	DFM1	DFM2	BIS	tSIE	LUM
47	1.00	7.00	12.00	26.00	5.56	16.31	112.89	905.	10
48	1.00	6.00	7.00	19.00	6.09	9.91	97.164	817.	0
49	1.00	10.00	21.00	37.00	5.45	29.03	120.53	870.	3
50	1.00	11.00	15.00	33.00	8.59	22.43	143.28	709.	5
51	1.00	7.00	12.00	29.00	5.43	16.43	177.90	890.	0
52	1.00	4.00	7.00	19.00	2.69	9.88	121.83	826.	0
53	1.00	8.00	11.00	31.00	7.52	15.14	156.95	878.	0
54	1.00	9.00	15.00	38.00	7.58	20.18	136.10	928.	4
55	1.00	9.00	16.00	33.00	6.57	22.02	130.56	879.	4
56	1.00	10.00	15.00	28.00	9.24	20.13	115.69	932.	0
57	1.00	7.00	12.00	29.00	5.56	16.32	100.27	905.	0
58	1.00	8.00	12.00	26.00	7.23	16.28	131.03	909.	0
59	1.00	11.00	16.00	32.00	9.74	22.18	136.77	864.	7
60	1.00	9.00	16.00	44.00	6.29	22.27	119.35	856.	0
61	1.00	11.00	13.00	30.00	11.41	17.98	128.66	868.	4
62	1.00	4.00	18.00	28.00	0.00	24.58	159.45	897.	5
63	1.00	8.00	11.00	26.00	7.67	14.97	93.597	902.	0
64	1.00	12.00	11.00	34.00	14.27	14.87	90.159	915.	0
65	1.00	3.00	16.00	26.00	0.00	22.21	141.64	863.	5
66	1.00	11.00	18.00	40.00	8.87	24.75	102.39	881.	0
67	1.00	9.00	12.00	28.00	8.88	16.26	119.26	911.	9
68	1.00	9.00	13.00	31.00	8.46	17.54	144.45	920.	5
69	1.00	8.00	9.00	30.00	6.69	12.22	164.94	907.	0
	1.00	8.00	15.00	35.00	5.93	20.36	132.31	915.	0
71	1.00	12.00	11.00	32.00	14.25	14.95	125.39	904.	5
72	1.00	8.00	17.00	33.00	4.67	23.17	110.94	901.	0
73	1.00	7.00	15.00	37.00	2.78	21.37	137.89	804.	5
74	1.00	8.00	10.00	27.00	8.11	13.69	117.73	890.	11
75	1.00	14.00	11.00	37.00	17.47	15.48	103.88	830.	0
76	1.00	10.00	17.00	41.00	8.18	22.95	133.90	920.	4
77	1.00	10.00	13.00	35.00	9.73	17.74	98.324	896.	0
78	1.00	11.00	12.00	32.00	12.15	16.24	144.58	913.	5
79	1.00	5.00	12.00	27.00	1.21	17.08	153.90	806.	6
80	1.00	3.00	11.00	25.00	0.00	14.85	149.91	922.	7
81	1.00	13.00	17.00	42.00	12.96	23.06	126.37	909.	0
82	1.00	7.00	7.00	18.00	3.03	9.49	83.689	909.	0
83	1.00	11.00	11.00	25.00	12.62	14.92	84.646	909.	5
84	1.00	7.00	9.00	23.00	6.69	12.65	156.72	835.	12
85	1.00	6.00	9.00	21.00	3.91	13.57	104.86	696.	0
86	1.00	2.00	12.00	29.00	0.00	16.21	143.65	920.	0
87	1.00	11.00	11.00	38.00	12.67	14.81	96.701	924.	9
88	1.00	12.00	11.00	35.00	14.24	14.96	109.77	899.	0
89	1.00	14.00	16.00	47.00	14.78	22.17	101.92	864.	0
90	1.00	6.00	8.00	29.00	5.56	11.25	110.75	833.	0
91	1.00	9.00	13.00	34.00	8.38	17.63	102.28	910.	0
92	1.00	13.00	8.00	28.00	17.38	10.86	82.803	903.	5
93	1.00	16.00	9.00	35.00	21.69	12.06	79.351	930.	0
94	1.00	5.00	18.00	27.00	0.00	24.47	139.37	906.	5
	1.00	11.00	11.00	34.00	12.37	15.40	96.611	842.	0
95	1.00	12.00	11.00	33.00	14.25	14.94	81.646	904.	0
97	1.00	8.00	11.00	29.00	7.65	14.99	104.33	899.	0
98	1.00	6.00	10.00	24.00	5.01	13.49	91.202	921.	6
99	1.00	5.00	7.00	20.00	4.63	9.64	114.82	877.	8
100	1.00	8.00	13.00	34.00	6.64	17.73	121.29	898.	0
101	1.00	6.00	10.00	30.00	4.93	13.57	102.81	909.	6

S#	TIME	CPMA	CPMB	CPMC	CPM1	CPM2	SIS	LSIE	LUM
103	1.00	8.00	16.00	38.00	5.32	21.67	101.25	913.	0
104	1.00	9.00	9.00	30.00	10.32	12.22	80.161	907.	11
105	1.00	16.00	12.00	43.00	20.32	16.31	111.55	902.	0
106	1.00	8.00	15.00	33.00	5.93	20.20	123.86	925.	0
107	1.00	9.00	7.00	27.00	11.31	9.39	99.309	930.	0
108	1.00	10.00	8.00	31.00	12.46	10.73	82.658	930.	0
109	1.00	18.00	9.00	32.00	25.34	12.47	70.792	860.	4
110	1.00	13.00	11.00	37.00	15.88	14.98	100.38	898.	0
111	1.00	6.00	15.00	30.00	1.81	20.86	157.37	858.	9
112	1.00	9.00	12.00	35.00	8.59	16.61	125.73	867.	0
113	1.00	11.00	14.00	38.00	10.89	19.34	93.954	871.	4
114	1.00	10.00	14.00	35.00	9.36	19.15	111.68	891.	0
115	1.00	8.00	14.00	27.00	5.43	19.72	108.05	831.	0
116	1.00	6.00	18.00	31.00	0.53	24.78	155.62	880.	0
117	1.00	9.00	12.00	40.00	6.61	16.34	161.38	900.	9
118	1.00	8.00	15.00	33.00	5.08	20.94	158.97	850.	0
119	1.00	13.00	11.00	39.00	15.59	16.02	106.32	755.	4
120	1.00	14.00	13.00	35.00	16.51	17.77	93.447	892.	0
121	1.00	11.00	11.00	32.00	11.92	16.16	98.416	739.	0
CAN'T DROP VIAL									
122	1.00	8.00	5.00	13.00	0.00	0.00	43.705	17.9	0
123	1.00	5.00	0.00	5.00	0.00	9.09	16.371	19.0	0
(12 missing vials)									
124	1.00	7.00	10.00	33.00	5.09	14.97	137.23	707.	6
125	1.00	7.00	9.00	29.00	7.02	12.26	124.62	900.	6
126	1.00	9.00	12.00	30.00	8.92	16.21	135.58	918.	0
127	1.00	35.00	5.00	49.00	54.59	6.66	33.986	917.	0
128	1.00	9.00	17.00	32.00	6.62	22.90	142.54	925.	0
129	1.00	11.00	14.00	41.00	11.16	18.99	115.24	909.	0
130	1.00	9.00	5.00	28.00	12.25	6.73	89.192	921.	0
131	1.00	19.00	13.00	53.00	24.65	17.28	76.087	948.	0
132	1.00	10.00	19.00	37.00	7.45	25.46	136.04	937.	0
133	1.00	7.00	14.00	34.00	4.62	18.99	155.62	910.	9
134	1.00	9.00	11.00	36.00	9.07	15.30	108.26	856.	0
135	1.00	13.00	12.00	30.00	15.36	16.42	106.64	889.	0
136	1.00	6.00	15.00	35.00	2.86	20.08	131.84	939.	0
137	1.00	21.00	19.00	49.00	25.11	25.64	109.02	918.	0
138	1.00	4.00	15.00	27.00	0.00	20.28	180.64	718.	5
139	1.00	8.00	10.00	36.00	8.15	13.64	146.50	898.	0
140	1.00	7.00	11.00	25.00	6.05	14.96	139.01	905.	0
141	1.00	7.00	15.00	36.00	4.41	20.13	126.14	934.	0
142	1.00	7.00	17.00	41.00	3.47	22.83	152.74	932.	0
143	1.00	13.00	14.00	42.00	14.47	18.91	108.78	917.	0
144	1.00	6.00	15.00	27.00	2.73	20.18	122.82	928.	0
145	1.00	14.00	8.00	34.00	19.03	10.87	79.593	900.	0
146	1.00	8.00	7.00	29.00	9.68	9.45	80.250	917.	7
147	1.00	10.00	9.00	36.00	11.99	12.08	111.59	929.	0
148	1.00	11.00	17.00	43.00	9.98	22.76	114.64	938.	0
149	1.00	17.00	12.00	48.00	21.91	16.06	79.020	934.	4
150	1.00	6.00	11.00	27.00	4.54	14.84	105.08	922.	0
151	1.00	11.00	13.00	30.00	11.69	17.56	120.24	917.	0
152	1.00	12.00	17.00	37.00	11.67	22.66	133.39	947.	0
153	1.00	4.00	11.00	30.00	1.35	14.80	141.24	928.	0
154	1.00	9.00	15.00	33.00	7.44	20.31	103.94	914.	4
155	1.00	9.00	15.00	28.00	7.48	20.28	120.44	917.	0

	TIME	CPMA	CPMB	CPMC	DFML	DFM2	SIS	LSIE	LUM	
154	172	1.00	11.00	17.00	36.00	9.67	28.09	117.83	907.	4
155	173	1.00	2.00	23.00	31.00	0.00	31.02	177.19	925.	0
	174	1.00	9.00	10.00	22.00	9.20	14.48	113.62	767.	0
	175	1.00	9.00	10.00	30.00	10.06	13.16	124.09	974.	0
	176	1.00	9.00	13.00	24.00	8.56	17.43	154.96	935.	0
	177	1.00	7.00	14.00	28.00	4.62	19.00	122.74	909.	0
160	178	1.00	10.00	10.00	25.00	11.53	13.42	95.417	930.	0
	179	1.00	13.00	12.00	41.00	15.39	16.31	109.78	903.	0
	180	1.00	7.00	13.00	27.00	4.77	17.94	110.42	874.	0
	181	1.00	40.00	11.00	38.00	62.48	15.56	63.552	810.	2
	182	1.00	6.00	9.00	27.00	4.67	12.93	123.60	784.	0
165	183	1.00	8.00	15.00	27.00	5.35	20.72	161.83	872.	0
	184	1.00	9.00	6.00	26.00	11.81	8.17	118.45	897.	0
	185	1.00	13.00	14.00	34.00	14.34	19.14	117.45	891.	4
	186	1.00	9.00	7.00	27.00	11.30	9.52	75.435	901.	6
	187	1.00	5.00	13.00	34.00	1.71	17.74	172.65	899.	0
170	188	1.00	10.00	10.00	27.00	11.16	14.17	112.43	815.	0
	189	1.00	11.00	15.00	35.00	10.70	20.31	114.26	913.	0
	190	1.00	7.00	12.00	25.00	5.57	16.21	122.70	919.	10
	191	1.00	8.00	13.00	32.00	6.88	17.30	118.62	926.	0
	192	1.00	7.00	13.00	36.00	4.99	17.74	129.76	897.	0
175	193	1.00	15.00	14.00	43.00	17.55	19.14	91.432	891.	4
	194	1.00	7.00	12.00	27.00	5.13	16.68	179.51	858.	0
	195	1.00	14.00	9.00	33.00	18.56	12.34	93.788	882.	0
	196	1.00	6.00	11.00	22.00	4.50	14.87	131.70	917.	0
	197	1.00	9.00	10.00	31.00	9.76	13.70	110.32	887.	0
80	198	1.00	3.00	10.00	19.00	0.05	13.56	121.36	912.	0
	199	1.00	6.00	6.00	20.00	6.84	8.23	104.59	884.	0
	200	1.00	15.00	18.00	42.00	15.29	23.04	123.25	856.	0
	201	1.00	4.00	13.00	27.00	0.02	17.77	125.95	895.	0
	202	1.00	10.00	9.00	30.00	11.97	12.19	107.37	911.	0
185	203	1.00	9.00	10.00	24.00	9.72	13.75	106.10	879.	0
	204	1.00	8.00	9.00	25.00	8.61	12.34	150.47	886.	0
	205	1.00	6.00	11.00	27.00	4.60	14.79	128.13	929.	6
	206	1.00	12.00	18.00	38.00	10.74	24.52	134.18	900.	0
	207	1.00	8.00	9.00	31.00	8.73	12.14	107.91	921.	0
90	208	1.00	3.00	16.00	40.00	0.00	21.75	183.35	907.	10
	209	1.00	8.00	12.00	27.00	7.17	16.34	106.01	901.	0
	210	1.00	7.00	15.00	31.00	4.10	20.38	176.11	907.	0
	211	1.00	7.00	11.00	29.00	5.70	15.30	113.70	857.	6
	212	1.00	11.00	8.00	30.00	14.08	11.89	78.948	718.	5
95	213	1.00	2.00	18.00	31.00	0.00	26.29	151.35	752.	0
	214	1.00	16.00	6.00	30.00	23.59	8.28	79.758	865.	0
	215	1.00	10.00	21.00	39.00	0.00	34.37	122.24	579.	0
	216	1.00	6.00	11.00	23.00	4.38	14.97	130.93	901.	0
	217	1.00	8.00	11.00	26.00	7.68	14.97	157.29	902.	0
200	218	1.00	9.00	20.00	41.00	5.07	27.06	125.85	916.	0
	219	1.00	10.00	12.00	29.00	10.55	16.20	117.33	918.	0
	220	1.00	7.00	14.00	34.00	7.63	17.26	143.75	880.	0
	221	1.00	6.00	11.00	24.00	4.49	14.88	129.63	916.	0
	222	1.00	10.00	9.00	28.00	11.93	12.37	103.14	880.	0
55	223	1.00	8.00	11.00	25.00	7.03	15.66	91.485	805.	5
	224	1.00	8.00	14.00	34.00	6.16	19.08	116.44	900.	0
	225	1.00	10.00	14.00	37.00	9.24	19.32	142.85	873.	0
	226	1.00	5.00	20.00	38.00	0.00	27.46	162.75	886.	0

	LINE	QTY	UNIT	PRICE	AMOUNT	TAX	TOTAL	DISC	NET
210	208	1.00	14.00	5.00	39.00	20.47	5.78	59.495	208.00
	209	1.00	8.00	6.00	36.00	9.12	10.77	107.00	885.00
	210	1.00	4.00	14.00	27.00	6.07	18.99	136.25	911.00
	211	1.00	15.00	21.00	44.00	14.26	28.51	128.68	907.00
	212	1.00	8.00	12.00	23.00	7.24	16.27	132.45	910.00
215	213	1.00	9.00	18.00	38.00	5.61	24.70	148.31	886.00
	214	1.00	8.00	17.00	38.00	5.67	22.84	142.91	903.00
	215	1.00	7.00	3.00	16.00	5.95	4.03	106.57	822.00
	216	1.00	10.00	4.00	22.00	14.31	5.85	66.407	934.00
	217	1.00	9.00	7.00	23.00	13.50	9.51	95.899	907.00
220	218	1.00	5.00	13.00	27.00	1.97	17.53	106.69	723.00
	219	1.00	13.00	12.00	30.00	11.20	16.84	106.06	837.00
	220	1.00	11.00	4.00	24.00	16.57	3.28	54.358	803.00
	221	1.00	8.00	12.00	21.00	7.34	18.47	132.45	884.00
	222	1.00	4.00	13.00	33.00	6.06	18.84	167.20	757.00
225	223	1.00	6.00	11.00	26.00	4.37	14.97	129.72	903.00
	224	1.00	6.00	9.00	25.00	5.46	12.17	121.98	916.00
	225	1.00	8.00	7.00	24.00	9.58	9.44	116.56	918.00
	226	1.00	5.00	11.00	30.00	2.39	14.87	141.14	918.00
	227	1.00	15.00	20.00	43.00	19.98	27.80	111.59	873.00
230	228	1.00	5.00	9.00	23.00	3.34	12.60	126.11	843.00
	229	1.00	15.00	7.00	30.00	21.83	10.07	70.400	778.00
	230	1.00	7.00	13.00	27.00	5.61	14.72	123.31	899.00
	231	1.00	12.00	6.00	26.00	14.00	8.47	119.31	834.00
	232	1.00	8.00	14.00	34.00	6.82	18.93	103.38	917.00
35	233	1.00	10.00	7.00	31.00	11.88	12.17	119.17	864.00
	234	1.00	9.00	13.00	33.00	7.97	18.07	127.22	858.00
	235	1.00	7.00	7.00	25.00	1.97	7.62	102.02	889.00
	236	1.00	10.00	10.00	30.00	11.20	14.02	98.911	840.00
39	237	1.00	6.00	13.00	31.00	1.83	13.53	174.50	756.00
(1) opening void									
44	238	1.00	518.00	400.00	11223.00	17440.32	3141.58	11307.72	10000.00
44	239	1.00	22875.00	90920.00	114374.00	1500.00	113274.00	163.72	10000.00
44	240	1.00	14.00	12.00	42.00	17.14	7.40	103.31	1000.00

Job Location: Neurogen Corp. Branford, CT Page: 1 of 15

Survey Purpose: Decommissioning LAB 073 / PH1 Date: 7/18/08

Performed By: David J. Durkee 

Inst. No. 1 (Model/SN) Packard 1600TR #10325 # ¹⁰³⁰²⁵ ₈₉	Inst. No. 2 (Model/SN) Ludlum 2241-2 # 137757	Inst. No. 3 (Model/SN) Ludlum 3 # 119208
Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-68 # 140899	Detector (Model/SN) Ludlum 44-21 # 156898
Efficiency: ^{40% H-3} See Printout / 75% CMAS	Efficiency: 7.4 RC-14	Efficiency: 16% I-125
Type Rad.: β	Type Rad.: β	Type Rad.: γ
Bkgd.: See #1 Below	Bkgd.: 280cpm	Bkgd.: 300cpm
Cal. Due: 12/3/08	Cal. Due: 9/10/08	Cal. Due: 5/20/09

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	0800	Background	1	41 Cpm	
2		UPPER WALL	1	0	
3		LOWER WALL	1	1	
4		UPPER DOOR	1	0	
5		LOWER DOOR	1	7	
6		UPPER WALL	1	0	
7		UPPER WALL	1	0	
8		LOWER WALL / SIDE OF CABIN	1	0	
9		UPPER WALL	1	0	
10		UPPER WALL	1	0	
11		COUNTER	1	0	
12		COUNTER	1	1	
13		COUNTER	1	4	
14		COUNTER	1	0	
15		SHELF	1	0	
16		SHELF	1	0	
17		FRONT OF CABINET	1	11	
18		INSIDE CABINET	1	0	
19		FRONT OF DRAWERS	1	13	
20	↓	TOP DRAWER (L)	1	1	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		DRAINER	1	1	
22		BOTTOM DRAIN	1	8	
23		TOP DRAINER (R)	1	25	
24		DRAINER	1	9/16 5	
25		DRAINER	1	0	
26		Lower wall	1	0	
27		Lower wall	1	0	
28		Lower wall	1	0	
29		COUNTER	1	0	
30		UPPER wall	1	0	
31		UPPER wall	1	0	
32		UPPER wall	1	1021 0	
33		COUNTER	1	9/11 27	
34		COUNTER	1	9/11 11	
35		COUNTER	1	7 + 7	
36		COUNTER	1	9/11 1	
37		UPPER wall	1	0	
38		FAUCET	1	7	
39		WASH UNIT	1	0	
40		WASH UNIT	1	5	
41		WASH UNIT	1	0	
42		SHelf	1	0	
43		Cup sink	1	0	
44		FAUCET	1	0	
45		Cup sink	1	0	
46		FAUCET	1	4	
47		FRONT OF DRAINER	1	1	
48		TOP DRAINER	1	0	
49		DRAINER	1	0	
50		DRAINER	1	0	
51	✓	BOTTOM DRAINER	1	3	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		FRONT OF DRAWERS	1	0	
53		TOP DRAWER	1	0	
54		DRAWER	1	0	
55		DRAWER	1	0	
56		BOTTOM DRAWER	1	0	
57		FRONT OF DRAWERS	1	0	
58		TOP DRAWER	1	1	
59		DRAWER	1	0	
60		DRAWER	1	1	
61		BOTTOM DRAWER	1	0	
62		FRONT OF DRAWERS	1	8	
63		TOP DRAWER	1	5	
64		DRAWER	1	0	
65		DRAWER	1	0	
66		BOTTOM DRAWER	1	9	
67		SIDE OF CABINET	1	160 113	✓ SEE # 200
68		FRONT OF CABINET	1	25	
69		INSIDE CABINET	1	0	
70		FRONT OF CABINET	1	0	
71		INSIDE CABINET	1	0	
72		SINK	1	57	
73		SINK DRAIN LINE	1	115	✓ SEE # 201
74		COUNTER	1	513	✓ SEE # 202
75		COUNTER	1	0	
76		COUNTER	1	0	
77		COUNTER	1	0	
78		SIDE OF CABINET	1	0	
79		FRONT OF DRAWERS	1	0	
80		TOP DRAWER	1	0	
81		DRAWER	1	0	
82		DRAWER	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
83		Bottom Drainage	1	0	
84		FRONT OF DRAINAGE	1	0	
85		TOP DRAINAGE	1	4	
86		DRAINAGE	1	0	
87		DRAINAGE	1	0	
88		BOTTOM DRAINAGE	1	0	
89		FRONT OF DRAINAGE	1	0	
90		TOP DRAINAGE	1	0	
91		DRAINAGE	1	0	
92		DRAINAGE	1	11	
93		BOTTOM DRAINAGE	1	0	
94		FRONT OF DRAINAGE	1	0	
95		TOP DRAINAGE	1	0	
96		DRAINAGE	1	0	
97		DRAINAGE	1	0	
98		BOTTOM DRAINAGE	1	0	
99		LOWER WALL	1	0	
100		LOWER WALL	1	0	
101		LOWER WALL	1	0	
102		WALL UNIT	1	0	
103		WALL UNIT	1	0	
104		UPPER WALL	1	0	
105		UPPER WALL	1	0	
106		UPPER WALL	1	8	
107		COUNTER	1	0	
108		COUNTER	1	0	
109		UPPER WALL	1	0	
110		SITING	1	0	
111		UPPER WALL	1	0	
112		SITING	1	0	
113	↓	UPPER WALL	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
114		COUNTER	1	0	
115		COUNTER	1	0	
116		COUNTER	1	0	
117		FRONT OF DRAWERS	1	0	
118		TOP DRAWER LEFT	1	0	
119		DRAWER	1	0	
120		BOTTOM DRAWER	1	0	
121		TOP DRAWER RIGHT	1	3	
122		DRAWER	1	0	
123		DRAWER	1	0	
124		FRONT OF CABINET	1	0	
125		INSIDE CABINET RIGHT	1	0	
126		INSIDE CABINET LEFT	1	0	
127		SIDE OF CABINET	1	0	
128		UPPER WALL	1	0	
129		LOWER WALL	1	0	
130		FLOOR	1	0	
131		UPPER WALL	1	4	
132		LOWER WALL	1	4	
133		FLOOR	1	0	
134		UPPER WALL	1	0	
135		LOWER WALL	1	0	
136		FLOOR	1	0	
137		UPPER WALL	1	0	
138		LOWER WALL	1	0	
139		UPPER SIDE HOOD / WALL	1	0	
140		LOWER SIDE HOOD / WALL	1	0	
141		HOOD STRIP	1	0	
142		HOOD LIP	1	0	
143		FRONT LEFT HOOD	1	0	
144	↓	FRONT RIGHT HOOD	1	0	

Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
145		HOOD COUNTER	1	0	
146		CUP SINK	1	0	
147		LEFT SIDE OF HOOD	1	0	
148		RIGHT SIDE OF HOOD	1	0	
149		UPPER BACK OF HOOD	1	0	
150		LOWER BACK OF HOOD	1	3	
151		VENT PATH	1	0	
152		HOOD DUCT	1	0	
153		FRONT OF CABINET	1	0	
154		INSIDE CABINET	1	0	
155		FRONT OF CABINET	1	0	
156		INSIDE CABINET	1	0	
157		INSIDE SASH	1	0	
158		UPPER SIDE OF HOOD	1	0	
159		LOWER SIDE OF HOOD	1	0	
160		SIDE OF CABINET	1	0	
161		LOWER WALL	1	0	
162		UPPER WALL	1	0	
163		UPPER WALL	1	0	
164		STEEP	1	0	
165		COUNTER	1	0	
166		FRONT	1	0	
167		SINK	1	0	
168		FRONT OF DRAINAGE	1	0	
169		TOP DRAINAGE	1	0	
170		DRAINAGE	1	0	
171		DRAINAGE	1	0	
172	√	BOTTOM DRAINAGE	1	0	

Radiological Survey Continuation Sheet

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)	Comments
173		FRONT OF CABINET	1	0	
174		INSIDE CABINET	1	0	
175		SINK DRAIN LINE	1	0	
176		Floor	1	0	
177		Floor	1	0	
178		Floor	1	0	
179		Floor	1	0	
180		Floor	1	12	
181		Floor	1	0	
182		Floor	1	0	
183		Floor	1	0	
184		Floor	1	0	
185		Floor	1	0	
186		Floor	1	0	
187		Floor	1	0	
188		Floor	1	0	
189		Floor	1	0	
190		Floor	1	0	
191		Floor	1	0	
192		Floor	1	0	
193		Floor	1	0	
194		Floor	1	0	
195		Floor	1	0	
196		Floor	1	0	
197		Floor	1	0	
198	↓	Floor	1	0	
199	0830	BACKGROUND	1	57cpm	
200	↓	POST DECAY # 67	1	0	

7/25/08

Protocol #11 Name:swide JB-Jul-08 16:04
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156.1 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE ES Terminator = Count
 Conventional DPM
 Nuclide 1 = 235953 Nuclide 2 = 123200
 Luminescence Correction On

S#	TIME	CPMA	CPMB	CPMC	DFM1	DFM2	SIS	tSIE	LUB
1	1.00	15.00	12.00	41.00	18.69	15.69	90.339	985.	4
2	1.00	12.00	11.00	37.00	14.51	14.73	104.86	934.	0
3	1.00	9.00	19.00	42.00	5.35	25.45	160.96	938.	0
4	1.00	14.00	9.00	38.00	18.41	17.95	82.672	951.	0
5	1.00	12.00	11.00	46.00	14.38	14.42	103.07	981.	0
6	1.00	13.00	12.00	38.00	18.87	16.34	66.221	898.	0
7	1.00	13.00	10.00	41.00	16.38	13.29	72.993	950.	0
8	1.00	9.00	8.00	36.00	10.85	10.69	98.206	938.	0
9	1.00	10.00	8.00	37.00	12.46	10.58	93.001	960.	0
10	1.00	8.00	10.00	31.00	8.31	13.41	124.07	933.	11
11	1.00	9.00	10.00	33.00	10.04	13.19	115.05	968.	0
12	1.00	14.00	19.00	42.00	13.96	25.35	144.16	944.	0
13	1.00	17.00	10.00	44.00	22.78	13.30	76.148	946.	0
14	1.00	9.00	13.00	39.00	8.64	17.32	114.17	947.	0
15	1.00	11.00	11.00	33.00	12.72	14.69	76.370	941.	5
16	1.00	12.00	10.00	38.00	14.72	13.70	99.583	886.	0
17	1.00	14.00	9.00	49.00	18.39	11.91	97.905	956.	0
18	1.00	16.00	11.00	37.00	20.81	14.92	80.709	906.	4
19	1.00	14.00	11.00	51.00	17.53	14.58	104.52	956.	0
20	1.00	9.00	12.00	42.00	9.10	15.97	129.06	950.	5
21	1.00	7.00	16.00	42.00	4.39	21.10	123.12	971.	5
22	1.00	12.00	10.00	47.00	14.77	13.37	97.978	937.	0
23	1.00	22.00	10.00	60.00	30.61	13.15	99.761	967.	0
24	1.00	15.00	12.00	45.00	18.69	15.87	105.63	960.	0
25	1.00	4.00	17.00	32.00	0.00	22.63	119.89	950.	9
26	1.00	11.00	3.00	36.00	16.29	3.97	64.463	945.	7
27	1.00	9.00	16.00	41.00	7.60	21.04	109.94	977.	4
28	1.00	8.00	8.00	25.00	9.26	10.35	102.53	947.	6
29	1.00	9.00	11.00	38.00	9.60	14.84	108.30	920.	5
30	1.00	16.00	6.00	37.00	23.58	8.28	51.141	886.	0
31	1.00	16.00	14.00	41.00	19.30	19.13	91.217	892.	0
32	1.00	14.00	10.00	37.00	18.02	13.53	93.357	912.	0
33	1.00	35.00	15.00	61.00	30.44	20.52	62.980	874.	0
34	1.00	16.00	14.00	49.00	19.25	19.34	114.22	889.	0
35	1.00	10.00	19.00	43.00	6.34	26.41	102.22	858.	0
36	1.00	16.00	11.00	42.00	20.82	14.96	95.289	898.	0
37	1.00	10.00	17.00	39.00	8.12	23.01	148.22	914.	0
38	1.00	20.00	9.00	46.00	27.97	11.90	73.830	955.	0
39	1.00	8.00	12.00	37.00	5.64	17.49	102.87	750.	5
40	1.00	13.00	17.00	40.00	12.22	23.94	100.74	831.	0
41	1.00	8.00	9.00	29.00	8.31	12.35	95.922	885.	0
42	1.00	13.00	9.00	32.00	16.93	12.49	89.005	859.	0
43	1.00	13.00	8.00	40.00	17.67	11.60	94.084	763.	0
44	1.00	11.00	9.00	28.00	13.58	12.37	98.868	880.	0
45	1.00	13.00	8.00	30.00	17.36	10.82	78.645	911.	5
46	1.00	11.00	12.00	44.00	12.13	16.28	102.72	908.	0

SN	TIME	CPMA	CPMB	CPMC	DPM1	OPM2	SIS	tsIF	LUM
48	1.00	6.00	10.00	34.00	5.16	13.34	154.78	946.	0
49	1.00	7.00	10.00	30.00	6.84	13.24	135.01	961.	0
50	1.00	13.00	8.00	38.00	17.30	10.71	91.561	932.	0
51	1.00	6.00	19.00	43.00	0.65	25.72	121.73	916.	4
52	1.00	17.00	4.00	31.00	25.53	5.30	49.831	939.	0
53	1.00	5.00	15.00	31.00	1.60	19.82	121.26	968.	0
54	1.00	8.00	16.00	36.00	5.36	21.85	130.01	916.	0
55	1.00	11.00	8.00	34.00	14.06	10.64	89.711	948.	0
56	1.00	14.00	11.00	39.00	17.53	14.84	81.791	918.	0
57	1.00	8.00	17.00	41.00	4.77	23.09	141.75	908.	0
58	1.00	10.00	14.00	42.00	9.79	18.67	87.539	946.	0
59	1.00	13.00	4.00	36.00	19.08	5.31	55.892	941.	0
60	1.00	16.00	9.00	42.00	21.60	11.94	101.24	952.	0
61	1.00	11.00	17.00	40.00	7.78	22.97	95.304	918.	4
62	1.00	11.00	13.00	47.00	11.84	17.32	126.35	946.	0
63	1.00	13.00	14.00	45.00	14.62	18.62	100.66	950.	4
64	1.00	11.00	11.00	36.00	12.64	14.87	101.53	915.	5
65	1.00	10.00	10.00	33.00	11.47	13.52	85.524	915.	5
66	1.00	13.00	10.00	48.00	16.38	13.55	84.437	909.	0
67	1.00	12.00	8.00	86.00	111.12	10.38	37.545	958.	3
68	1.00	32.00	12.00	60.00	46.30	16.11	62.944	921.	7
69	1.00	12.00	12.00	39.00	13.81	16.18	115.69	921.	0
70	1.00	14.00	7.00	34.00	19.21	9.20	66.712	969.	9
71	1.00	17.00	10.00	38.00	23.22	13.88	82.093	857.	0
72	1.00	57.00	18.00	94.00	83.77	24.10	68.487	925.	1
73	1.00	66.00	8.00	87.00	101.97	10.44	30.024	950.	3
74	1.00	224.00	11.00	246.00	360.36	14.23	26.028	913.	1
75	1.00	10.00	19.00	40.00	6.59	26.21	121.10	875.	7
76	1.00	9.00	11.00	32.00	8.52	15.93	130.85	767.	5
77	1.00	14.00	9.00	36.00	18.62	12.50	104.73	856.	5
78	1.00	6.00	12.00	29.00	4.38	15.91	132.06	959.	0
79	1.00	9.00	13.00	35.00	8.35	17.66	79.381	906.	9
80	1.00	8.00	9.00	30.00	8.76	12.09	133.12	929.	0
81	1.00	10.00	8.00	38.00	12.46	10.78	97.103	922.	0
82	1.00	11.00	9.00	37.00	13.61	12.13	76.077	921.	0
83	1.00	11.00	7.00	29.00	14.57	9.45	82.033	914.	0
84	1.00	10.00	16.00	36.00	9.01	21.22	140.13	958.	0

FRONT PIN JAM FWD

Protocol #:11 Name:wide 25-Jul-08 08:19
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 X2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 X2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 X2 Sigma=0.00
 Time = 1.00 QIP = tSIE ES Terminator = Count
 Conventional DPM
 Nuclide 1 = 235953 Nuclide 2 = 123200
 Luminescence Correction On

CH	TIME	CPMA	CPMD	CPMC	DPM1	DPM2	91S	tSIE	LUM
89	1.00	22.00	15.00	44.00	28.58	20.01	64.243	941.	0
90	1.00	9.00	14.00	28.00	7.91	18.97	147.52	912.	0
91	1.00	7.00	14.00	30.00	4.65	18.97	131.25	913.	5
92	1.00	13.00	9.00	26.00	16.88	12.22	82.096	904.	0
93	1.00	13.00	6.00	28.00	18.32	8.10	63.017	912.	0
94	1.00	18.00	10.00	36.00	24.38	13.29	93.033	947.	0
95	1.00	8.00	13.00	32.00	6.30	17.58	111.74	916.	0
96	1.00	20.00	16.00	49.00	24.92	21.51	68.232	925.	3
97	1.00	13.00	6.00	23.00	18.65	8.37	82.898	845.	5
98	1.00	12.00	7.00	29.00	16.18	9.42	78.983	921.	0
99	1.00	13.00	9.00	35.00	16.89	12.28	75.435	894.	5
100	1.00	11.00	18.00	36.00	8.95	24.68	122.78	887.	7
101	1.00	7.00	11.00	27.00	6.13	14.88	165.32	916.	6
102	1.00	11.00	11.00	32.00	12.53	15.12	104.54	880.	9
103	1.00	9.00	13.00	33.00	8.40	17.61	152.93	912.	0
104	1.00	12.00	9.00	26.00	15.24	12.17	75.873	912.	5
105	1.00	5.00	14.00	28.00	1.43	18.95	168.69	916.	0
106	1.00	10.00	6.00	22.00	13.69	8.68	109.54	768.	0
107	1.00	19.00	8.00	39.00	28.26	11.53	49.577	773.	0
108	1.00	14.00	7.00	27.00	19.66	9.65	70.062	870.	14
109	1.00	10.00	7.00	28.00	12.98	9.69	56.443	863.	6
110	1.00	25.00	14.00	47.00	34.92	20.28	80.892	765.	3
111	1.00	11.00	6.00	25.00	15.40	8.58	73.736	790.	0
112	1.00	6.00	6.00	20.00	6.84	8.23	81.588	883.	0
113	1.00	8.00	7.00	20.00	9.59	9.78	102.51	846.	0
114	1.00	12.00	7.00	26.00	16.46	9.93	83.460	809.	0
115	1.00	16.00	11.00	40.00	20.84	15.07	90.593	885.	0
116	1.00	12.00	13.00	30.00	12.76	18.46	100.99	810.	0
117	1.00	8.00	9.00	24.00	8.39	12.66	83.906	833.	6
118	1.00	14.00	9.00	36.00	18.66	12.65	81.018	832.	0
119	1.00	14.00	13.00	30.00	16.32	18.25	121.80	836.	0
120	1.00	16.00	12.00	36.00	20.32	16.72	106.70	851.	7
121	1.00	14.00	7.00	29.00	19.87	9.43	77.957	913.	0
122	1.00	12.00	17.00	34.00	11.07	23.35	109.47	883.	4
123	1.00	14.00	15.00	40.00	15.52	20.44	105.02	898.	4
124	1.00	7.00	11.00	29.00	5.94	15.06	134.31	889.	6
125	1.00	25.00	10.00	43.00	36.07	13.54	53.607	905.	0
126	1.00	10.00	5.00	20.00	13.74	6.79	97.049	902.	0
127	1.00	14.00	10.00	33.00	18.05	13.81	77.508	869.	0
128	1.00	300.00	17.00	527.00	201.76	24.05	20.798	724.	1
129	1.00	18.00	3.00	30.00	28.19	4.05	30.203	893.	5
130	1.00	9.00	10.00	27.00	9.50	14.08	148.84	830.	0
131	1.00	9.00	11.00	31.00	8.17	16.30	80.170	725.	0
132	1.00	15.00	8.00	38.00	20.57	10.75	78.645	923.	0
133	1.00	7.00	11.00	27.00	5.94	15.07	119.22	889.	0
134	1.00	13.00	12.00	37.00	13.94	19.04	99.510	899.	0

Review

	TIME	CPMA	CPMB	CPMC	DFM1	DFM2	SIS	TSIE	LUM	
132	48	1.00	28.00	12.00	44.00	36.73	16.27	73.418	903.	3
	49	1.00	13.00	10.00	34.00	16.36	14.01	113.96	839.	5
	50	1.00	5.00	14.00	28.00	1.08	19.19	117.41	888.	5
135	51	1.00	6.00	12.00	27.00	3.58	16.60	141.78	869.	0
	52	1.00	100.00	18.00	130.00	155.63	34.44	41.778	884.	3
	53	1.00	12.00	11.00	31.00	14.22	15.04	82.204	891.	0
	54	1.00	14.00	9.00	32.00	18.51	12.18	66.433	909.	0
	55	1.00	12.00	14.00	35.00	12.76	18.72	152.29	939.	0
140	56	1.00	9.00	14.00	27.00	7.93	18.96	90.299	914.	0
	57	1.00	12.00	14.00	34.00	12.97	18.87	80.435	922.	0
	58	1.00	9.00	3.00	19.00	13.45	4.13	51.607	869.	8
	59	1.00	12.00	14.00	34.00	12.81	18.97	127.91	911.	0
	60	1.00	15.00	13.00	36.00	18.22	17.49	121.87	924.	0
145	61	1.00	12.00	17.00	35.00	9.62	24.77	117.55	755.	0
	62	1.00	11.00	10.00	31.00	12.93	14.07	94.403	832.	5
	63	1.00	10.00	7.00	25.00	13.01	10.17	88.275	759.	0
	64	1.00	14.00	10.00	30.00	18.06	13.86	64.936	861.	0
	65	1.00	6.00	12.00	24.00	4.17	16.10	116.10	934.	0
150	66	1.00	23.00	12.00	43.00	31.46	15.90	97.722	952.	0
	67	1.00	16.00	12.00	36.00	20.17	17.98	86.269	705.	0
	68	1.00	13.00	8.00	33.00	17.77	11.98	91.485	705.	0
	69	1.00	9.00	11.00	26.00	9.39	14.87	79.868	917.	5
	70	1.00	11.00	11.00	36.00	12.51	15.16	94.841	874.	5
155	71	1.00	5.00	8.00	24.00	4.09	11.04	130.38	874.	0
	72	1.00	8.00	4.00	18.00	11.15	5.43	75.805	903.	8
	73	1.00	10.00	13.00	29.00	10.13	17.47	137.54	928.	0
	74	1.00	7.00	8.00	23.00	7.56	10.83	90.352	913.	18
	75	1.00	8.00	9.00	26.00	8.81	12.01	87.425	944.	0
160	76	1.00	11.00	19.00	38.00	8.71	25.79	121.13	908.	7
	77	1.00	9.00	10.00	25.00	9.48	14.11	117.84	826.	0
	78	1.00	9.00	8.00	27.00	10.74	11.10	72.582	861.	6
	79	1.00	4.00	16.00	29.00	0.00	22.51	142.04	835.	0
	80	1.00	4.00	11.00	22.00	1.11	14.98	177.30	903.	0
165	81	1.00	12.00	9.00	31.00	15.24	12.35	81.417	882.	5
	82	1.00	11.00	13.00	35.00	11.61	17.68	107.74	903.	0
	83	1.00	8.00	11.00	27.00	7.57	15.09	124.26	885.	0
	84	1.00	11.00	11.00	30.00	12.56	15.05	101.27	890.	0
	85	1.00	5.00	10.00	23.00	3.40	13.48	120.38	924.	7
170	86	1.00	11.00	12.00	27.00	12.07	16.39	97.771	894.	9
	87	1.00	8.00	9.00	31.00	8.59	12.37	79.872	880.	0
	88	1.00	5.00	8.00	23.00	4.04	11.09	131.98	865.	0
	89	1.00	8.00	9.00	25.00	8.56	12.42	99.888	872.	0
	90	1.00	8.00	13.00	35.00	6.37	18.00	129.78	867.	0
175	91	1.00	13.00	10.00	31.00	16.38	13.49	96.081	917.	0
	92	1.00	13.00	8.00	29.00	17.48	11.11	82.466	857.	0
	93	1.00	8.00	13.00	30.00	5.45	18.78	180.07	772.	0
	94	1.00	9.00	12.00	30.00	8.63	16.56	110.06	873.	0
	95	1.00	5.00	9.00	25.00	3.80	12.20	138.37	911.	0
80	96	1.00	32.00	11.00	50.00	47.37	15.02	57.933	886.	5
	97	1.00	10.00	7.00	23.00	12.98	9.74	87.331	854.	0
	98	1.00	10.00	8.00	33.00	12.41	11.19	93.447	843.	0
	99	1.00	15.00	11.00	37.00	19.19	15.54	63.521	821.	0
190	100	1.00	10.00	13.00	38.00	9.38	19.38	100.14	822.	0
85	101	1.00	8.00	13.00	29.00	6.56	17.82	110.13	888.	0
	102	1.00	9.00	12.00	29.00	8.79	14.37	94.999	897.	0

Red

S#	TIME	CPNA	CPMB	CPMC	DFM1	DFM2	SIS	tsie	llh	
158	104	1.00	8.00	9.00	27.00	8.61	12.33	106.01	887.	0
	105	1.00	8.00	8.00	26.00	9.02	11.18	108.04	846.	0
170	106	1.00	1.00	13.00	17.00	0.00	17.66	205.44	909.	0
	107	1.00	14.00	9.00	32.00	18.53	12.24	97.717	900.	0
	108	1.00	7.00	13.00	32.00	3.46	18.94	131.74	756.	0
	109	1.00	9.00	7.00	27.00	11.30	9.61	95.637	881.	0
	110	1.00	12.00	9.00	32.00	15.24	12.20	107.39	907.	0
95	111	1.00	15.00	14.00	39.00	17.70	19.00	80.527	907.	0
	112	1.00	12.00	4.00	22.00	18.11	5.58	57.850	843.	0
	113	1.00	9.00	12.00	27.00	8.72	15.45	85.762	887.	0
98	114	1.00	9.00	15.00	30.00	6.68	20.84	110.68	859.	0
(Missing val)										
3H	115	1.00	51941.0	403.00	52352.0	29818.7	317.97	21.640	1.18	0
4C	117	1.00	23373.0	99397.0	114514.	19.4.46	1130.31	163.01	775.	0
3mk	118	1.00	12.00	6.00	27.00	16.20	7.65	97.341	1034	0
47d	119	1.00	8.00	9.00	27.00	8.34	11.94	88.453	936.	0
40	120	1.00	16.00	10.00	34.00	13.01	14.42	112.37	775.	0
SD	121	1.00	8.00	5.00	15.00	10.71	6.92	103.21	863.	0

				CASE	DPM1	DPM2	SIS	ESTE	LUM
199	1.00	19.00	26.00	57.00	19.01	34.48	112.67	957.	0
200	1.00	26.00	14.00	53.00	35.38	18.56	74.712	952.	8
201	1.00	11.00	17.00	34.00	9.89	22.87	126.42	927.	7
202	1.00	18.00	12.00	37.00	23.59	16.27	80.043	907.	4

SYSTEM NORMALIZED

Job Location: Neurogen Corp. Branford, CT Page: 1 of 10

Survey Purpose: Decommissioning Phase 1 WASTE ROOM Date: 7/25/08

Performed By: David J. Durkee



Inst. No. 1 (Model/SN) Packard 1600TR #10325 <i>103025</i>	Inst. No. 2 (Model/SN) Ludlum 2241-2 # 137757	Inst. No. 3 (Model/SN) Ludlum 3 # 114208
Detector (Model/SN) Internal	Detector (Model/SN) Ludlum 43-68 # 140899	Detector (Model/SN) Ludlum 44-21 # 152898
Efficiency: <i>40% H-3</i> See Printout / <i>75% 07M05</i>	Efficiency: 7.4 % C-14	Efficiency: 16 % I-125
Type Rad.: β	Type Rad.: β	Type Rad.: γ
Bkgd.: See #1 Below	Bkgd.: 300 cpm	Bkgd.: 300 cpm
Cal. Due: 12/3/08	Cal. Due: 9/10/08	Cal. Due: 5/20/09

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
1	0855	Background	1	25 cpm	
2		UPPER WALL	1	16	
3		LOWER WALL	1	15	
4		UPPER WALL	1	12	
5		LOWER WALL	1	92417	
6		UPPER WALL	1	12	
7		LOWER WALL	1	1	
8		UPPER WALL	1	0	
9		LOWER WALL	1	7	
10		UPPER WALL	1	13	
11		LOWER WALL	1	19	
12		UPPER WALL	1	7	
13		LOWER WALL	1	0	
14		UPPER WALL	1	0	
15		LOWER WALL	1	12	
16		UPPER WALL	1	3	
17		LOWER WALL	1	0	
18		UPPER WALL	1	5	
19		LOWER WALL	1	0	
20		UPPER WALL	1	5	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
21		Lower wall	1	17	
22		Floor	1	21	
23		Floor	1	8	
24		Floor	1	3	
25		Floor	1	3	
26		Floor	1	11	
27		Floor	1	11	
28		Floor	1	8	
29		Floor	1	5	
30		Floor	1	3	
31		Floor	1	13	
32		Floor	1	3	
33		Floor	1	17	
34		Upper wall	1	0	
35		Lower wall	1	20	
36		Upper wall	1	7	
37		Lower wall	1	9	
38		Upper wall	1	12	
39		Lower wall	1	0	
40		Upper wall	1	15	
41		Lower wall	1	3	
42		Upper wall	1	13	
43		Lower wall	1	9	
44		Upper wall	1	13	
45		Lower wall	1	24	
46		Upper wall	1	9	
47		Lower wall	1	68 150	✓ SEE # 140
48		Floor	1	32	
49		Floor	1	17	
50		Floor	1	8	
51	↓	Floor	1	28	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
52		Floor	1	8	
53		Floor	1	16	
54		TABLE	1	20	
55		FLOOR	1	4	
56		FLOOR	1	8	
57		FLOOR	1	0	
58		FLOOR	1	7	
59		FLOOR	1	0	
60		UPPER WALL	1	17	
61		LOWER WALL	1	23	
62		UPPER WALL	1	64	✓ SEE # 141
63		LOWER WALL	1	0	
64		FLOOR	1	7	
65		FLOOR	1	0	
66		FLOOR	1	17	
67		FLOOR	1	3	
68		FLOOR	1	15	
69		FLOOR	1	0	
70		FLOOR	1	64	✓ SEE # 142
71		FLOOR	1	3	
72		FLOOR	1	9	
73		FLOOR	1	4	
74		FLOOR	1	0	
75		FLOOR	1	32	
76		UPPER WALL	1	20	
77		LOWER WALL	1	15	
78		UPPER WALL	1	28	
79		LOWER WALL	1	7	
80		FLOOR	1	7	
81		FLOOR	1	0	
82	✓	FLOOR	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
83		Floor	1	1	
84		Floor	1	4	
85		Floor	1	21	
86		UPPER WALL	1	57	
87		LOWER WALL	1	0	
88		UPPER WALL	1	16	
89		LOWER WALL	1	8	
90		Floor	1	29	
91		Floor	1	8	
92		Floor	1	1	
93		Floor	1	313	✓ SEE # 143
94		Floor	1	12	
95		Floor	1	4	
96		UPPER WALL	1	5	
97		LOWER WALL	1	1	
98		UPPER WALL	1	9	
99		LOWER WALL	1	5	
100		Floor	1	11	
101		Floor	1	3	
102		Floor	1	13	
103		Floor	1	15	
104		Floor	1	4	
105		Floor	1	1	
106		UPPER WALL	1	17	
107		LOWER WALL	1	9	
108		UPPER WALL	1	0	
109		LOWER WALL	1	0	
110		Floor	1	8	
111		UPPER WALL	1	12	
112		LOWER WALL	1	5	
113	✓	Bottom shelf	1	0	

Number	Time	Location	Inst. Used	Activity (dpm/100 cm ²)	Comments
114		Pump	1	4	
115		Piping	1	16	
116		UPPER DOOR	1	19	
117		LOWER DOOR	1	3	
118		COUNTER	1	1	
119		SIDE OF CABINET	1	16	
120		SIDE OF CABINET	1	0	
121		FRONT OF CABINET	1	0	
122		OFF LEFT DRAWER	1	0	
123		OFF RIGHT DRAWER	1	7	
124		TOP SHELF	1	4	
125		SHELF	1	0	
126		UPPER WALL	1	0	
127		UPPER WALL	1	0	
128		LOWER WALL	1	0	
129		UPPER WALL	1	0	
130		LOWER WALL	1	0	
131		COUNTER	1	5	
132		FANOUT	1	16	
133		SINK	1	1	
134		SINK	1	12	
135		SINK	1	8	
136		SINK TRAP	1	7	
137		Sump pump inside	1	23	
138	↓	Sump pump inside	1	215	✓ SEE #144
139	0840	BACKGROUND	1	28 cpm	
140		POST DECON #47	1	0	
141		POST DECON #62	1	3	
142		POST DECON #70	1	4	
143		POST DECON #93	1	11	
144	↓	POST DECON #138	1	9	

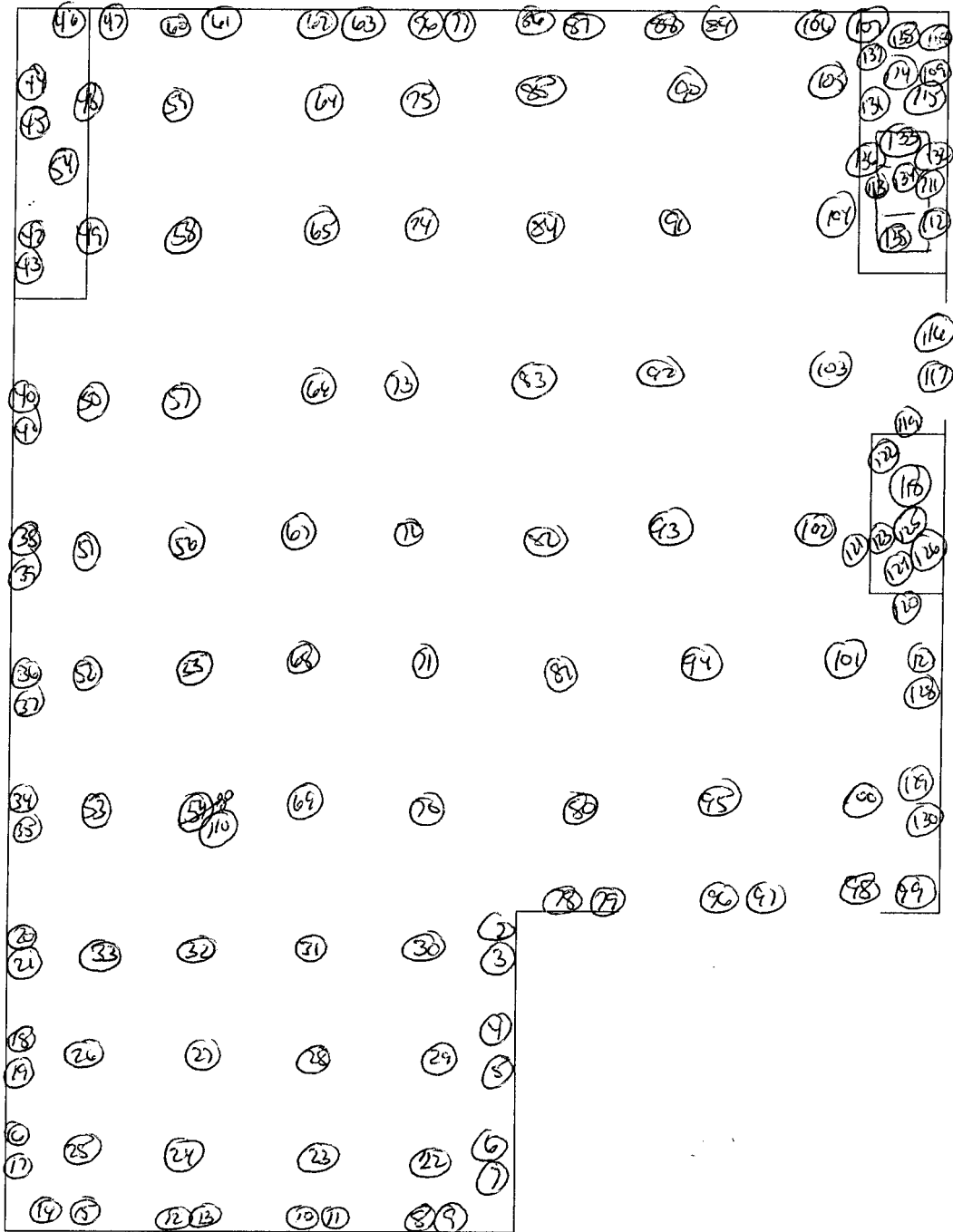
7/16/06

Neurogen Corp.

Page 6 of 10

Phase I Rad. Waste Room

Date: 7/25/08



Protocol #:111 Name:swipe 25-Jul-08 11:54
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE ES Terminator = Count
 Conventional DPM
 Nuclide 1 = 235953 Nuclide 2 = 123200
 Luminescence Correction On

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	LUM
1	1.00	13.00	6.00	25.00	17.93	7.80	64.922	992.	5
2	1.00	18.00	8.00	37.00	25.04	10.46	80.138	979.	8
3	1.00	19.00	9.00	36.00	26.45	11.97	62.595	943.	4
4	1.00	15.00	6.00	34.00	21.15	7.85	57.123	977.	5
5	1.00	21.00	9.00	38.00	29.73	12.01	81.160	936.	9
6	1.00	10.00	6.00	34.00	13.28	7.86	77.040	979.	0
7	1.00	9.00	8.00	26.00	10.69	11.25	91.768	833.	0
8	1.00	5.00	8.00	22.00	4.53	10.58	147.54	964.	0
9	1.00	7.00	11.00	30.00	6.26	14.74	160.75	936.	6
10	1.00	14.00	12.00	35.00	17.11	15.82	90.312	968.	0
11	1.00	13.00	16.00	39.00	13.44	21.72	114.62	907.	0
12	1.00	10.00	9.00	30.00	12.00	12.07	124.39	932.	10
13	1.00	9.00	8.00	23.00	10.86	10.67	93.373	942.	0
14	1.00	4.00	10.00	23.00	2.03	13.29	130.35	955.	14
15	1.00	18.00	4.00	34.00	27.19	5.31	33.413	935.	0
16	1.00	10.00	9.00	27.00	12.05	11.81	104.71	978.	10
17	1.00	12.00	3.00	24.00	17.69	3.92	53.179	972.	0
18	1.00	9.00	15.00	29.00	7.86	19.88	146.47	959.	0
19	1.00	12.00	5.00	24.00	17.06	6.68	40.031	934.	0
20	1.00	8.00	9.00	29.00	8.85	11.92	120.20	959.	6
21	1.00	15.00	7.00	38.00	21.07	9.42	110.45	918.	0
22	1.00	16.00	10.00	41.00	21.65	14.53	112.41	759.	0
23	1.00	8.00	13.00	31.00	7.03	17.34	124.90	946.	9
24	1.00	15.00	4.00	27.00	22.33	5.29	59.047	949.	0
25	1.00	14.00	6.00	27.00	20.36	8.38	67.869	843.	5
26	1.00	14.00	13.00	33.00	16.57	17.58	128.99	914.	0
27	1.00	13.00	10.00	33.00	16.39	13.49	94.555	918.	0
28	1.00	11.00	9.00	31.00	13.54	12.60	88.837	841.	0
29	1.00	7.00	16.00	29.00	0.93	23.60	163.04	733.	5
30	1.00	9.00	10.00	27.00	9.78	14.25	109.30	802.	10
31	1.00	13.00	11.00	35.00	15.79	15.38	110.54	844.	0
32	1.00	3.00	13.00	27.00	0.00	17.85	163.01	886.	0
33	1.00	13.00	11.00	38.00	15.56	16.10	100.05	746.	0
34	1.00	9.00	3.00	23.00	13.20	4.02	73.295	922.	0
35	1.00	12.00	15.00	40.00	12.22	20.46	110.80	897.	0
36	1.00	9.00	10.00	30.00	9.95	13.37	121.73	939.	0
37	1.00	17.00	8.00	32.00	23.82	10.75	62.842	922.	4
38	1.00	17.00	6.00	34.00	24.77	8.05	57.850	922.	0
39	1.00	6.00	11.00	24.00	4.59	14.79	121.45	928.	5
40	1.00	13.00	13.00	36.00	14.66	17.76	128.96	893.	0
41	1.00	11.00	4.00	27.00	16.24	5.50	78.752	872.	0
42	1.00	9.00	17.00	35.00	6.37	23.12	109.40	905.	0
43	1.00	11.00	10.00	32.00	13.03	13.81	91.867	859.	0
44	1.00	16.00	8.00	35.00	22.04	10.60	67.477	953.	0
45	1.00	20.00	7.00	43.00	29.16	9.39	73.027	923.	4
46	1.00	11.00	10.00	32.00	13.67	13.78	101.04	888.	0

S#	TIME	CPMA	CPMB	CPMC	DFM1	DFM2	SIS	TSIE	LUM
48	1.00	25.00	8.00	49.00	38.66	11.44	53.889	789.	0
49	1.00	14.00	9.00	38.00	18.74	12.94	74.807	780.	0
50	1.00	13.00	9.00	31.00	16.97	12.92	75.101	784.	9
51	1.00	17.00	17.00	46.00	18.47	24.91	93.987	744.	0
52	1.00	11.00	8.00	31.00	14.09	11.78	92.608	734.	5
53	1.00	18.00	9.00	37.00	25.59	12.74	70.977	814.	0
54	1.00	15.00	11.00	40.00	19.16	14.81	110.50	922.	0
55	1.00	11.00	9.00	28.00	13.54	12.56	97.664	847.	0
56	1.00	13.00	4.00	31.00	20.10	5.68	98.660	802.	0
57	1.00	9.00	9.00	24.00	9.94	12.93	86.224	784.	0
58	1.00	13.00	11.00	30.00	15.71	15.65	98.597	805.	0
59	1.00	6.00	7.00	23.00	6.17	9.81	139.94	840.	8
60	1.00	19.00	10.00	38.00	26.71	14.15	56.335	815.	4
61	1.00	27.00	9.00	42.00	39.35	11.97	64.773	739.	0
62	1.00	37.00	14.00	73.00	54.35	19.25	69.848	872.	6
63	1.00	10.00	7.00	24.00	12.90	9.31	80.161	948.	6
64	1.00	12.00	9.00	30.00	15.24	12.18	104.11	911.	5
65	1.00	9.00	7.00	23.00	11.28	9.82	72.526	837.	0
66	1.00	11.00	17.00	38.00	7.29	25.21	120.38	723.	0
67	1.00	12.00	11.00	27.00	14.08	15.41	66.642	840.	0
68	1.00	5.00	13.00	36.00	0.00	18.99	106.64	751.	0
69	1.00	4.00	6.00	21.00	3.49	8.27	79.608	876.	0
70	1.00	48.00	16.00	73.00	72.73	22.44	52.767	832.	2
	1.00	9.00	8.00	27.00	10.82	10.82	78.834	913.	0
72	1.00	16.00	10.00	32.00	21.24	13.42	67.904	928.	0
73	1.00	9.00	11.00	28.00	8.61	15.83	154.46	780.	5
74	1.00	11.00	8.00	25.00	14.11	11.57	88.355	769.	10
75	1.00	20.00	15.00	49.00	25.07	23.31	85.982	649.	0
76	1.00	17.00	12.00	40.00	21.84	19.30	73.941	605.	0
77	1.00	9.00	7.00	36.00	11.25	10.03	106.93	787.	0
78	1.00	21.00	12.00	46.00	29.04	17.16	66.340	791.	0
79	1.00	7.00	13.00	30.00	4.94	17.79	111.66	892.	5
80	1.00	5.00	8.00	30.00	3.82	11.28	111.49	828.	0
81	1.00	9.00	9.00	25.00	9.69	13.31	91.307	727.	0
82	1.00	7.00	8.00	24.00	7.18	11.37	101.40	808.	18
83	1.00	11.00	7.00	26.00	14.71	9.88	79.152	821.	6
84	1.00	12.00	11.00	28.00	13.97	15.65	104.26	804.	0
85	1.00	16.00	9.00	41.00	22.07	12.63	74.941	835.	4
86	1.00	50.00	11.00	68.00	79.36	15.45	42.019	823.	0
87	1.00	7.00	5.00	17.00	9.06	7.04	83.345	829.	16
88	1.00	14.00	11.00	37.00	17.44	15.68	112.03	800.	0
89	1.00	11.00	12.00	31.00	11.53	17.20	92.488	788.	5
90	1.00	23.00	12.00	47.00	31.54	15.99	91.164	941.	0
91	1.00	8.00	15.00	31.00	5.27	20.78	139.46	866.	0
92	1.00	9.00	8.00	26.00	10.79	10.93	113.58	892.	0
93	1.00	134.00	11.00	150.00	218.08	14.84	21.467	872.	11
94	1.00	18.00	7.00	34.00	26.56	9.75	65.484	846.	0
95	1.00	7.00	14.00	28.00	3.60	19.81	127.48	820.	0
	1.00	8.00	14.00	29.00	5.62	19.39	128.75	866.	5
97	1.00	9.00	5.00	26.00	12.61	7.26	98.134	759.	0
98	1.00	6.00	13.00	32.00	0.00	21.37	146.06	581.	5
99	1.00	7.00	11.00	29.00	4.25	16.51	147.04	703.	0
100	1.00	9.00	11.00	33.00	0.73	21.18	133.94	463.	0
101	1.00	7.00	12.00	27.00	1.49	19.38	143.73	600.	10
102	1.00	7.00	13.00	35.00	1.64	20.22	110.10	648.	0

SH	TIME	CPMA	CPMB	CPMC	DFM1	DFM2	SIS	ESIE	LUF
104	1.00	13.00	7.00	28.00	18.52	10.41	92.608	717.	0
105	1.00	12.00	11.00	26.00	14.47	13.88	93.858	1070	0
106	1.00	13.00	11.00	38.00	14.84	17.62	87.473	610.	0
107	1.00	15.00	14.00	32.00	15.92	20.67	100.56	730.	0
108	1.00	6.00	10.00	23.00	4.02	14.37	125.69	784.	0
109	1.00	13.00	3.00	23.00	20.15	4.12	40.827	869.	0
110	1.00	12.00	13.00	31.00	13.33	17.53	86.734	920.	0
111	1.00	12.00	9.00	34.00	15.20	13.05	66.340	763.	0
112	1.00	7.00	9.00	29.00	6.87	12.44	77.241	870.	0
113	1.00	7.00	11.00	25.00	6.39	14.59	96.722	957.	11
114	1.00	7.00	9.00	28.00	6.36	12.79	112.07	773.	6
115	1.00	17.00	10.00	37.00	23.29	14.23	93.491	803.	4
116	1.00	6.00	20.00	19.00	0.78	76.63	108.46	950.	0
117	1.00	14.00	7.00	27.00	19.66	9.55	74.136	892.	0
118	1.00	11.00	10.00	26.00	13.00	13.71	129.70	855.	0
119	1.00	12.00	16.00	37.00	14.78	13.30	73.100	949.	0
120	1.00	9.00	10.00	25.00	9.72	13.42	103.82	931.	0
121	1.00	5.00	4.00	19.00	6.23	5.40	68.480	918.	0
122	1.00	8.00	7.00	25.00	9.67	9.49	104.33	909.	0
123	1.00	13.00	9.00	30.00	16.84	12.07	76.675	931.	0
124	1.00	5.00	11.00	28.00	2.53	15.15	118.87	878.	0
125	1.00	4.00	9.00	24.00	1.62	12.62	138.03	841.	8
126	1.00	8.00	5.00	23.00	10.72	6.94	72.011	856.	14
127	1.00	6.00	8.00	25.00	6.05	10.67	110.63	945.	0
128	1.00	4.00	6.00	18.00	3.66	8.09	109.62	921.	0
129	1.00	7.00	6.00	23.00	8.47	8.35	101.92	854.	8
130	1.00	11.00	9.00	25.00	13.56	12.48	114.50	880.	0
131	1.00	11.00	11.00	29.00	12.54	15.10	90.537	883.	0
132	1.00	8.00	13.00	37.00	5.08	18.64	108.12	766.	9
133	1.00	11.00	8.00	26.00	14.11	11.32	66.227	816.	0
134	1.00	18.00	3.00	34.00	28.26	4.06	57.398	888.	0
135	1.00	17.00	7.00	31.00	24.32	9.41	73.830	919.	0
136	1.00	15.00	8.00	30.00	20.61	10.80	43.405	913.	0
137	1.00	15.00	15.00	42.00	17.22	20.32	112.40	910.	0
138	1.00	55.00	10.00	111.00	149.12	13.17	28.065	9...	...

(Lumpsum total)

3H140	1.00	51932.0	421.00	52376.0	77893.6				
nk141	1.00	23438.0	91003.0	113148.					
Bank	1.00	21.00	12.00						

FRONT PIN DAM ...

Protocol #:11 Name:swipe 28-Jul-08 09:11
 Region A: LL-UL= 0.0-18.6 Ler= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL=18.6-156. Ler= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0-2000 Ler= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 1.00 QIP = tSIE ES Terminator = Count
 Conventional DPM
 Nuclide 1 = 235953 Nuclide 2 = 123200
 Luminescence Correction On

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	LUM
139	1	11.00	5.00	28.00	15.20	6.50	80.752	992.	0
140	2	5.00	8.00	21.00	4.51	10.60	115.45	960.	8
141	3	12.00	5.00	30.00	16.79	6.51	73.652	986.	6
142	4	15.00	10.00	31.00	19.56	13.24	92.534	957.	4
143	5	21.00	8.00	36.00	29.72	10.43	61.846	983.	4
144	6	17.00	10.00	35.00	22.61	13.04	79.121	989.	0
7	1.00	10.00	8.00	29.00	12.46	10.40	80.166	998.	6
8	1.00	31.00	13.00	53.00	43.50	17.03	62.381	975.	2
(1 missing vial)									
3H	10	51510.0	445.00	51967.0	78987.1	373.80	21.608	1022	0
14C	11	23479.0	90142.0	114349.	1634.49	117441.	161.96	999.	0
42K	12	11.00	6.00	29.00	14.68	7.66	95.709	1033	16

FRONT PIN JAM FWD

From: Origin ID: RSPA (203)315-3014
Tracey Maculaitis
Neurogen
35 NE Industrial Road

Branford, CT 06405



CLS85388/21/24

Ship Date: 05SEP08
Act/Wgt: 2 LB
System#: 4775485/INET8061
Account#: S *****

Delivery Address Bar Code



Ref #
Invoice #
PO #
Dept #

SHIP TO: 610-337-5000

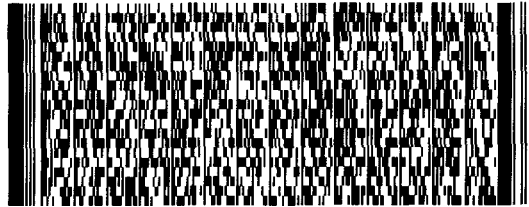
BILL SENDER

Region I
US Nuclear Regulatory Commission
475 ALLENDALE RD

KING OF PRUSSIA, PA 194061431

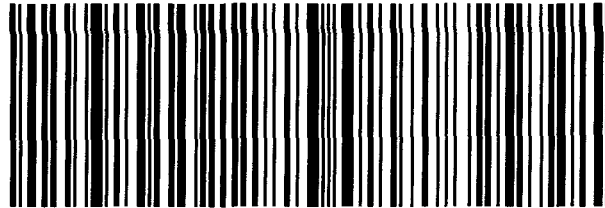
TRK# 7980 0639 1168
0201

MON - 08SEP A2
STANDARD OVERNIGHT



SF KPDA

19406
PA-US
PHL



This is to acknowledge the receipt of your letter/application dated

9/1/08, and to inform you that the initial processing which includes an administrative review has been performed.

Termination (06-28473-01)
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 142782.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (RI)
(6-96)

Sincerely,
Licensing Assistance Team Leader