Amendment No. 45

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee	In accordance with the letter dated May 13, 1998,
1. Department of the Army U.S. Army Communications - Electronics Command AMSEL-SF-RER 2. Fort Monmouth, New Jersey 07703-5024	3. License number 29-01022-06 is amended in its entirety to read as follows: 4. Expiration date February 28, 2005 5. Docket No. 030-05248 Reference No.

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Any byproduct material with atomic numbers 1 through 83	A. Any	A. Not to exceed 1 curie per radionuclide and 10 curies total
B. Any byproduct material with atomic numbers 84 through 95	B. Any	B. Not to exceed 1 millicurie total
C. Hydrogen 3	C. Accelerator targets	C. 30 curies
D. Cobalt 60	D. Sealed sources	D. [redacted] curies
E. Strontium 90	E. Sealed sources	E. 5 curies
F. Cesium 137	F. Sealed sources	F. [redacted] curies
G. Uranium (Natural or Depleted)	G. Any	G. 5 kilograms
H. Thorium (Natural)	H. Any	H. 10 kilograms
I. Polonium 210	I. Any	I. 10 microcuries
J. Plutonium 238	J. Sealed sources	J. 10 microcuries
K. Americium 241	K. Any	K. 1 millicurie
L. Californium 252	L. Sealed source	L. [redacted] curie
M. Cesium 137	M. Sealed sources (J.L. Shepherd Model 6810)	M. [redacted] curies

Ex 2

Ex 2

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 2
FOIA 06-0238

Q/22

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
29-01022-06

Docket or Reference Number
030-05248

Amendment No. 45

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
N. Cesium 137	N. Sealed source (J.L. Shepherd Model 6810)	N. 7 curies Ex 2
O. Cesium 137	O. Sealed source (J.L. Shepherd Model 6810)	O. 130 millicuries

9. Authorized use:

A. through L. Research and development as defined in 10 CFR 30.4; for training and instrument calibrations; analysis of test samples as a service for persons as defined in 10 CFR 20.1003; calibration of instruments as a service for persons as defined in 10 CFR 20.1003.

M. For use in a J.L. Shepherd Model 81-14Q calibrator; calibration of instruments as a service for persons as defined in 10 CFR 20.1003.

N. and O. For use in a J.L. Shepherd Model 89-260 calibrator; calibration of instruments as a service for persons as defined in 10 CFR 20.1003

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at the U.S. Army Communications - Electronics Command, Fort Monmouth, New Jersey.

11. A. Licensed material shall be used by, or under the supervision of, individuals designated in writing by the Radiation Safety Committee, Joseph M. Santarsiero, Chairman.

B. The Radiation Safety Officer for this license is Joseph M. Santarsiero.

12. Licensed material shall not be used in or on human beings.

13. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.

14. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.

15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
29-01022-06

Docket or Reference Number
030-05248

Amendment No. 45

16. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.

B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.

C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.

E. Sealed sources and detector cells need not be leak tested if:

(i) they contain only hydrogen-3; or

(ii) they contain only a radioactive gas; or

(iii) the half-life of the isotope is 30 days or less; or

(iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or

(v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the appropriate U. S. Nuclear Regulatory Commission, Regional Office referenced in Appendix D of 10 CFR Part 20. The report shall specify the source or detector cell involved, the test results, and corrective action taken.

G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
29-01022-06

Docket or Reference Number
030-05248

Amendment No. 45

17. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.

18. This license does not authorize commercial distribution of licensed material.

19. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Letter dated February 15, 1995
B. Letter dated March 15, 1995
C. Letter dated May 19, 1995
D. Letter dated August 15, 1995
E. Letter dated March 10, 1997
F. Letter dated April 11, 1997
G. Letter dated May 12, 1997
H. Letter dated July 30, 1997
I. Letter dated August 27, 1997, with attachment
J. Letter dated December 2, 1997
K. Letter dated July 30, 1998
L. Letter dated May 13, 1998, with attached survey report

For the U.S. Nuclear Regulatory Commission

Date August 25, 1998

By *Original signed by Steven W. Shaffer*

Steven W. Shaffer
Decommissioning and Laboratory Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

August 26, 1998

Docket Nos. 030-05248
030-29741
Control Nos. 125693
125694

License Nos. 29-01022-06
29-01022-14

Steven A. Horne
Director, Safety Risk Management
Department of the Army
U.S. Army Communications -
Electronics Command
Fort Monmouth, NJ 07703-5024

Dear Mr. Horne:

This refers to your license amendment request to amend NRC License Nos. 29-01022-06 and 29-01022-14. Enclosed with this letter are the amended licenses. The Antenna Test Field, designated survey zone 2 and the DIANA Project Site, designated survey zone 3, sub-zone east may be released for unrestricted use.

Please note that you most recent submittal did not include a full description of you QA/QC program for you field and laboratory instrumentation. Since this program has remained unchanged since your submittal in the fall of 1997 and has continued to be inspected through out this project, the license actions were completed without requiring additional submittals. A full description of your QA/QC program should be submitted with each release request regarding the Evans Area. Also, note that the museum storage building, which was found to be contaminated with radium-226, upper walls and ceiling were not surveyed. If the contamination had been regulated by the NRC an unaffected area survey would have been required on the upper walls and ceiling of that building.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

ML10

Thank you for your cooperation.

Sincerely,

Original signed by Steven W. Shaffer

Steve W. Shaffer
Health Physicist
Decommissioning and Laboratory Branch
Division of Nuclear Materials Safety

Enclosure:
Amendment No. 45
Amendment No. 17

cc:
Joseph M. Santarsiero, Radiation Safety Officer

Jennifer Goodman, Research Scientist
State of New Jersey
Department of Environmental Protection
Radiation Protection Programs
Bureau of Environmental Radiation
P.O. Box 415
Trenton. NJ 08625-0415

DOCUMENT NAME: G:\DNMS\DOCWORK\LICLTR\L2901022.06 22478056

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI					
NAME	SShaffer							
DATE	08/26/98		08/ /98		08/ /98		08/ /98	

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TELEPHONE CONVERSATION LOG

PERSON CALLED:	ORGANIZATION:	TELEPHONE NUMBER:
David Craig	US Army Ft. Monmouth	732-427-5591
LICENSE NUMBER:	**DOCKET NUMBER:**	**MAIL CONTROL NUMBER:**
29-01022-06; 29-01022-14	030-05248; 030-29741	125693; 125694

PERSON CALLING:

Steve W. Shaffer
USNRC Region I
475 Allendale Road
King of Prussia, PA 19406

(610) 337-5256
FAX Numbers
(610) 337-5269 or
(610) 337-5393

SUBJECT: Need for Additional Information Regarding Release Request.

SUMMARY:

Mr. Craig called reagarding our conversation on August 3, 1998. He stated that he reviewed their original submittal and that the second volume contained the majority of the information I was requesting.

I reviewed the second volume and concurred with him.

ACTION REQUIRED/TAKEN: Have the MILESTONE 15 deleted from the system.

SIGNATURE:

SSH

Steve W. Shaffer

DATE: August 5, 1998

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ML10

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Radiation Protection Programs
Bureau of Environmental Radiation
PO Box 415
Trenton, NJ 08625-0415
Phone (609) 984-5400
Fax (609) 984-5595

August 4, 1998

Mr. Steven Horn, Director
Safety and Risk Management
Fort Monmouth
Fort Monmouth, NJ 07703-5000

Dear Mr. Horn:

In my July 22, 1998 letter to you regarding the Radiological Status Surveys of the DIANA Project Site and the Antennae Test Field (ATF) of the Evans Area, I deferred any comment on the building interiors to the Nuclear Regulatory Commission (NRC). On August 3, 1998, I spoke with Steve Schaffer of the NRC who informed me that since the contamination in Building 9116 is radium-226, they have no authority to request additional surveying and sampling. The State of New Jersey does have regulatory responsibility for radium-226 and hereby requests that additional surveying and wipe sampling be performed on the upper walls and ceiling of Building 9116.

Although the NRC would require an unaffected survey of these areas, after discussion with Dave Craig, it was determined that since there is no reason to suspect residual activity on these surfaces, (no contamination was found on any vertical surface up to the 2 meters that were scanned and wiped), a 1-2% random scan should be performed on the upper walls and ceilings, concentrating on areas where radioactive material would likely accumulate, (air exhaust vents and horizontal surfaces where dust would settle). A minimum of 30 wipe samples should be analyzed, assuring that any elevated areas determined through the scan are wiped.

If you have any questions regarding the above please contact me at (609) 984-5498.

Sincerely,

Jennifer Goodman, Research Scientist
Bureau of Environmental Radiation

c: Steve Schaffer, NRC Region I
Ian Curtis, Case Manager, Site Remediation

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ML10

TELEPHONE CONVERSATION LOG

PERSON CALLED:	ORGANIZATION:	TELEPHONE NUMBER:
David Craig	US Army Ft. Monmouth	732-427-5591
LICENSE NUMBER:	**DOCKET NUMBER:**	**MAIL CONTROL NUMBER:**
29-01022-06; 29-01022-14	030-05248; 030-29741	125693; 125694

PERSON CALLING:

Steve W. Shaffer
USNRC Region I
475 Allendale Road
King of Prussia, PA 19406

(610) 337-5256
FAX Numbers
(610) 337-5269 or
(610) 337-5393

SUBJECT: Need for Additional Information Regarding Release Request.

SUMMARY:

I requested that the isotopic analysis of the soils from Sub-zone k be submitted. I also let Mr. Craig know that all subsequent submittals must include there QA/QC descriptions. I said Irealized that they are unchanged from the original release submittal, submitted last year, but they must be submitted each time. However for this action I would not require the information be submitted.

I also let Mr. Craig know that building which require decon. work are required to have their upper walls and ceilin surveyed at least at an unaffected area survey frequency. The old museum storage building which was only contaminated with radium fell under this category and was not surveyed. I let Mr. Craig know that I would inform the state of New Jersey.

ACTION REQUIRED/TAKEN: MILESTONE 15

SIGNATURE: SWS
Steve W. Shaffer

DATE: August 3, 1998

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Radiation Protection Programs
Bureau of Environmental Radiation
PO Box 415
Trenton, NJ 08625-0415
Phone (609) 984-5400
Fax (609) 984-5595

July 22, 1998

Mr. Steven Horn, Director
Safety and Risk Management
Fort Monmouth
Fort Monmouth, NJ 07703-5000

Dear Mr. Horn:

The Bureau of Environmental Radiation (BER) has completed its review of the Radiological Status Surveys of the DIANA Project Site (DPS) and the Antennae Test Field (ATF) of the US Army Evans Area, Fort Monmouth. We have the following comments.

The report was difficult to follow because the text describing the survey results of the DPS and the ATF were not separated into different sections.

There are two designations describing the Cobalt-60 (^{60}Co) contaminated soil area. Several times throughout the report, it is described as Areas G and G-2, but the maps indicate subzone G as the former hazardous waste storage area. The first paragraph on page 12 states that "subsurface soil samples were collected in subzone K when surface samples showed that cobalt-60 was present". This is the only indication in the whole document that the ^{60}Co contamination is located in subzone K. It should be made clear that Areas G and G-2 were historic designations and that for this particular survey, the ^{60}Co contamination is located in subzone K.

There are no results presented for soil concentration levels of ^{60}Co, even though surface and subsurface soil samples were taken in the contaminated areas. What soil concentration release criteria is being used for ^{60}Co? On page 2 it is stated that the contamination levels were reduced to acceptable levels (10 pCi/g) in 1976. The BER's release limit is 15 mrem per year as per our legislative directive in the Brownfield and Contaminated Site Remediation Act. In order for the BER to concur that the property can be released for unrestricted use, results of the residual ^{60}Co contamination must be presented.

The BER performed an analysis for ^{60}Co and determined that 2.6 pCi/g will meet the 15 mrem/yr dose criterion with no clean cover. If clean cover is present, then the depth of residual contamination must be determined. As you know, our remediation standards are dependent on these parameters. I have enclosed a copy of the spreadsheet that implements our standards. The spreadsheet was modified to include ^{60}Co in the first row. Since this is the only nuclide present, you do not need to concern yourself with the sum of the fractions calculations, or the other nuclides that are listed. The

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M1 10

spreadsheet runs under Microsoft Excel. The disk includes the users manual as a Microsoft Word document.

The rationale for designating certain subzones as affected vs. unaffected is not discussed.

There is no discussion about why a radium "bead" was discovered or the probability of other beads in the area.

Survey Maps

Subzone E

Sampling point J14R is indicated on the map, but there is no data for it.
There is data for sampling point J18, but no indication on the map.

Subzone F

It should be indicated on the map exactly where the radium "bead" was located.

Subzones I, J, and N

What does the snowflake pattern indicate? This is not included in the key.

Subzone K

What does the shading indicate? Where are the results for the ^{60}Co analysis?

The BER uses the same release criteria as the NRC for building interiors. Therefore, the BER will defer any comments about the building interiors to the NRC.

If you have any questions concerning this review, or if you need assistance operating the spreadsheet, please contact Jenny Goodman at (609) 984-5498.

Sincerely,

Patricia Gardner

Patricia Gardner, Manager
Bureau of Environmental Radiation

Enclosure
c: Steve Shaffer, NRC Region I
Jenny Goodman, BER
Ian Curtis, SRP

030-05248

DEPARTMENT OF THE ARMY
HEADQUARTERS, US ARMY COMMUNICATIONS-ELECTRONICS COMMAND
AND FORT MONMOUTH
FORT MONMOUTH, NEW JERSEY 07703-5000

REPLY TO
ATTENTION OF

13 May 1998

Directorate of Safety Risk Management

U.S. Nuclear Regulatory Commission
Region I, DNMS
Attention: Mr. Steven W. Shaffer
475 Allendale Road
King of Prussia, PA 19406-1415

New Jersey Department of Environmental Protection
Bureau of Environmental Radiation
Attention: Jennifer Moon
25 Arctic Parkway
Ewing, NJ 08625-0415

This refers to US Nuclear Regulatory Commission (NRC) License Numbers 29-01022-06 and 29-01022-14 and to our Radiological Characterization Plan, date 6 September 1996.

We are hereby requesting that you grant unrestricted release to the portion of Fort Monmouth, New Jersey, Subpost Camp Evans covered by the accompanying radiological survey report. The portion of Camp Evans covered by this report is the Antenna Test Field, designated survey zone 2 and the DIANA Project Site, designated survey zone 3, sub-zone east.

Base Realignment and Closure (BRAC), Army Execution Plan, BRAC 93, Public Law 101-510, requires the closure of Camp Evans property and its release from US Army control. To facilitate timely completion of this plan radiological surveys are in progress. The accompanying radiological survey report covers portions of Camp Evans that are no longer used for any US Army activities. The remainder of Camp Evans is currently being surveyed or will be surveyed as radioactive material is removed from site.

We are requesting expeditious processing of this request for unrestricted release of this property so that we can begin the transfer of property from US Army control as soon as possible.

125693

MAY 14 1998

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ML 10

Our Point of Contact is Mr. Joseph M. Santarsiero CECOM RPO or Mr. David E. Craig, IceSolv, Inc, Contracted to the CECOM Directorate of Safety Risk Management, Facsimile on (908) 542-7161 or Voice on (908) 427-4427/3112.

Sincerely,

Steven A. Horne
Director

Copy Furnished:

Commander, U.S. Army Materiel Command, ATTN: AMCSF-P, 5001 Eisenhower Avenue, Alexandria, Virginia 22333-0001

125693

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

5-13-98, and to inform you that the initial processing which includes an administrative review has been performed.

☒ 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** 125693
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





Radiological Survey Report
US Army Evans Area, Fort Monmouth
Wall Township, New Jersey
Prepared April 1998

RADIOLOGICAL STATUS SURVEYS OF THE
DIANA PROJECT SITE AND
ANTENNEA TEST FIELD
EVANS AREA, FORT MONMOUTH, NEW JERSEY

Conducted
May 1997 - April 1998

Volume 1 of 2

Executive Summary (vol. 1)

2 Report (vol. 1)

3 Appendix A - (vol. 1)
References

4 Appendix B - (vol. 1)
Abbreviations

5 Appendix C – (vol. 1)
Examples of Open Land/ Building Survey Document Packages

6 Appendix D – (vol. 1)
Camp Evans Maps

7 Appendix E – (vol. 1)
Graphs Soil Activity and Charles Wood Area Background

8 Appendix F – (vol. 1)
DIANA Project Site, Zone 3 sub-zone East Survey Maps and Data

9 Appendix G – (vol. 2)
Antenna Test Field, Zone 2 Survey Maps and Date

10

EXECUTIVE SUMMARY

RADIOLOGICAL STATUS SURVEY OF THE DIANA PROJECT SITE AND ANTENNA TEST FIELD, EVANS AREA, FORT MONMOUTH, NEW JERSEY

Conducted
May 1997 - April 1998

1. **Purpose**. To ascertain the current radiological status of Camp Evans open land and buildings. This report is provided for submission to the US Nuclear Regulatory Commission (NRC) and New Jersey Department of Environmental Protection (NJDEP). The report data supports the US Army Communications and Electronics Command's (CECOM) request for unrestricted release for public use of the sections of Camp Evans surveyed.

2. **Area Surveyed**. Two separate areas of Camp Evans are presented in this report. The first is the DIANA Project Site (DPS) (designated survey zone 3, sub-zone east). The DPS is located at the east property line of Camp Evans on Marconi Road. The area covers approximately six acres between Marconi Road and the Shark River.

The second area is the Antenna Test Field (ATF) (designated survey zone 2). Located on the south end of the property, the ATF is approximately forty-nine acres in size and surrounded by security fence. The ATF boundary, beginning at the north corner and progressing clockwise from the intersection of Lincoln Avenue and Taft Street, extends southeast along the fence line onto Camp Evans. The boundary follows a security fence three hundred yards across Camp Evans. The boundary shifts to the east and continues along the back property line of resident lots on the south side of Hadley Court, then southwest along Edgemeer Road. The boundary continues along Belmar Blvd to Lincoln Avenue, ending at the Taft Street intersection. Maps of the two areas are included in Appendix D.

3. **Survey Findings**. The DPS had one building that required routine decontamination to satisfy release limits. Building 9116, the Fort Monmouth Communications and Electronics Museum Archives Storage, stored historical electronic communications equipment which contained radioactive material. Some of the equipment incorporated radium stimulated luminous paint on

controls and meter faces. The radium paint was aged and flaking off resulting in contamination to some shelves and floor area. All of the items in storage were surveyed prior to their removal from the building. Items that contained significant quantities of radioactive material or that were identified as contaminated, were moved to building 9045 for further evaluation. Following the removal of all equipment from building 9116, routine decontamination was performed until all areas were less than release limit values for alpha, beta and gamma radiation. The other buildings and soil surveys conducted at the DPS detected no radiation above background levels.

In the central area of the ATF, very low levels of Cobalt-60 activity were detected. Historical documents identify this area of the ATF, designated areas G and G-2 in reports, as contaminated with cobalt-60 in the early 1950's and remediated in the 1980's. The highest specific activity for Cobalt-60 measured was more than a factor of ten lower than the release limits for Cobalt-60. This area satisfies both Cobalt-60 specific activity release limits and "as low as is reasonably achievable" (ALARA) requirements. This area satisfies unrestricted release requirements and does not require further remediation.

Soil surface gamma scanning of the ATF detected a glass/plastic encased luminous radium "bead" under approximately three inches of soil. The dose rate at one inch was one hundred microR per hour. This dose rate was greater than ten times the area background. The bead was removed intact and disposed of as radioactive waste. Soil surface scanning also detected isolated points with gamma readings that were five microR per hour higher than the areas typical background. Analysis of soil samples collected at these points attributed these elevated dose rates to variances in background radiation.

All buildings in the ATF were surveyed as unaffected. Three tritium exit signs were found in Building 9307. The signs were wipe sampled for contamination and found clean; they were then moved to the radioactive waste storage building 9383. Alpha, beta and gamma surface scans in the buildings were non-incidental. None of the buildings or land surveyed required decontamination.

Smoke detectors containing radioactive material were left installed in buildings 9116 DPS and 9703 ATF.

4. **Summary of Results.** Survey results for the buildings and open land area at both locations show the areas are below release guideline values. The results provide confirmation that all unrestricted release criteria are satisfied.

5. **Recommendation.** Recommend a request for unrestricted release for public use of this property, with this report as supporting documentation; be submitted to the NRC and NJDEP.

REPORT
RADIOLOGICAL STATUS SURVEY OF THE DIANA PROJECT SITE AND ANTENNA TEST FIELD, EVANS AREA, FORT MONMOUTH, NEW JERSEY

Conducted
May 1997 - April 1998

1. REFERENCES. Attachment A.

2. AUTHORITY. Base Realignment and Closure (BRAC), Army Execution Plan, BRAC 93, (Public Law 101-510) requires the closure of the Camp Evans property and its release from US Army control. This closure effort was performed in accordance with NUREG/CR-5849, Manual for Conducting Radiological Surveys in Support of License Termination, Draft Report for Comment (reference 1). US Nuclear Regulatory Licenses Numbers 29-01022-06 (reference 2) and 29-01022-14 (reference 3) authorize use of radioactive material at Camp Evans. Title 10, Code of Federal Regulations, Parts 20 and 30 (references 4 and 5) requires a licensee to provide proof that either, no residual radioactive material remains on the site or any radioactive material remaining at the site will not adversely affect the public health or safety. Surveys were conducted under Modern Technologies Corporation's, US Government Omnibus Contract, DAAB07-95-H0008. The survey was performed for CECOM, Directorate of Safety Risk Management, Fort Monmouth Radiation Protection Officer.

3. PURPOSE. To ascertain the current radiological status of Camp Evans open land and buildings as documented in the Radiological Characterization Plan, Camp Evans, Fort Monmouth, NJ (reference 6). This report is provided for submission to the US Nuclear Regulatory Commission (NRC) and New Jersey Department of Environmental Protection (NJDEP). The report data supports the US Army Communications and Electronics Command's (CECOM) request for unrestricted release for public use of the sections of Camp Evans surveyed.

4. GENERAL.

a. Camp Evans comprised about 210 acres and is located approximately 10 miles south of Fort Monmouth's main post, in Wall Township, NJ.

b. Two separate areas of Camp Evans are presented in this report. The first is the DIANA Project Site (DPS) (designated survey zone 3, sub-zone east). The DPS is located at the east property line of Camp Evans on Marconi Road. The area covers approximately six acres between Marconi Road and the Shark River. The second area is the Antenna Test Field (ATF) (designated survey zone 2). Located on the south end of the property, the ATF is approximately forty-nine acres in size and surrounded by security fence. The ATF boundary, beginning at the north corner and progressing clockwise from the intersection of Lincoln Avenue and Taft Street, extends southeast along the fence line onto Camp Evans. The boundary follows a security fence three hundred yards across Camp Evans. The boundary shifts to the east and continues along the back property line of resident lots on the south side of Hadley Court, then southwest along Edgemeer Road. The boundary continues along Belmar Blvd to Lincoln Avenue, ending at the Taft Street intersection. Maps of the two areas are included in Appendix D.

c. The radiological historical review of Camp Evans determined that the ATF and DPS buildings were not used for research and development involving radioactive material. However, they could have been used to store military commodities containing radioactive material. The buildings in the ATF were all classified and surveyed as unaffected. The historical document review revealed that in the 1950's and 1960's two Cobalt-60 soil contamination incidents occurred in the ATF areas designated as Areas G and G-2. Both G and G-2 are located near the center of the ATF. These areas are mentioned in the Fort Monmouth Radiation Survey Report, July 1953. The report indicated Area G was contaminated by a leaking eighty-eight curie Cobalt-60 source. The Area's contamination is mentioned in occasional monthly reports until May 1963. During 1975, a roped and posted radiation area was found during brush clearing in the ATF. This area, approximately one hundred feet from Area G was designated Area G-2. A survey of the Area G-2 indicated Cobalt-60 contamination. Historical remediation and survey reports for Areas G and G-2 indicated that the contamination levels were reduced to acceptable levels (10 pCi per gram) in 1976 (reference 7). The radiation control barriers were removed and Areas G and G-2 were released.

d. The DPS was a RADAR research and development laboratory. There is no record of radioactive material use for research in this area. The only radioactive material in this area was in component parts of communications equipment. The buildings at the DPS were all initially classified as unaffected, but radioactive material discovered in building 9116 resulted in its survey classification being changed to affected.

e. The ATF was used for research and development involving radioactive sources. The radioactive sources were Cobalt-60 sealed sources with source strengths of up to two hundred curies. These sources leaked while in use in the open field areas designated as G and G-2. None of the buildings in the ATF were used for storage or research and development involving radioactive material. Radioactive material introduced to these buildings would have been material in component parts of communications equipment. Areas G and G-2, and the surrounding land was classified and surveyed as affected. This area is approximately twenty-six acres of the ATF. The remaining twenty-three acres were classified and surveyed as unaffected. The buildings in the ATF were classified and surveyed as unaffected.

f. All survey field work, sample collection, preparation and analysis were performed by contracted personnel under the direction of Mr. David Craig, IceSolv, Inc., Health Physics Consultant to CECOM, DSRM. Mr. Joseph Santarsiero, DSRM, serves as the Fort Monmouth Radiation Protection Officer.

g. Mr. Craig Miller, IceSolv, Inc., supervised the fieldwork. Field team leaders were all radiation safety specialists with diverse training and experience in radiological health and safety. The experience and training of the field work supervisor and survey team leaders meets or exceeds the requirements in ANSI 3.1 for a Senior Radiation Technician.

h. Sample analyses were performed at Camp Evans in the CECOM DSRM Radiation Analysis Laboratory supervised by Mr. Brian McKee, of M. H. Chew & Associates, Inc. Laboratory technicians completed site specific procedure, laboratory practices and occupational health and safety training provided at Camp Evans.

i. Field and laboratory operations were performed using written operating procedures for guidance. Detailed

documentation of surveys and laboratory results are on file and available for review at Camp Evans. The soil samples and wipes collected during the survey are archived and will not be disposed of until unrestricted release of the property has been granted by the NRC and NJDEP.

j. The NRC requires that records of site burial or releases of radioactive material be submitted with a request for unrestricted property release. For the property covered by this report, no site burial locations were identified and there are no records of controlled release of radioactive material.

k. Appendix B lists the abbreviations used.

5. BACKGROUND.

a. Chronology.

(1) The use of radioactive material to support the research and development of electronic equipment has been on-going at Camp Evans since the 1950s. A radiation safety program was instituted in the 1950s to oversee use of radioactive material at Fort Monmouth and continues today. The Fort Monmouth Radiation Protection Officer and his technical staff execute the radiation safety program. A radiation control committee (RCC) was appointed by the CECOM Commander to oversee the program. The RCC meets quarterly to review the radiation safety program's execution. Radiation safety program records dating back to the 1950s were used to develop the radiological history of Camp Evans. These documents indicate that research and development operations involving radioactive material were conducted at Camp Evans in areas within the primary security fences.

(2) In 1995, a history of the use, storage and disposal of radioactive material at Camp Evans was compiled by CECOM DSRM personnel using radiation program records and through interviews with past and current Camp Evans employees. The review identified a central area of the ATF, designated as Area "G" and "G-2", as a location where Cobalt 60 contamination had occurred. All buildings in the ATF area were classified as unaffected structures. The DPS was a RADAR research and development site. The DPS did not use radioactive material for research. Any

radioactive material in these buildings would have been in component parts of communications equipment.

(3) The ATF contains five buildings. With the exception of building 9307, all have been vacant since the 1970s. Building 9307 was used for document archives until August 1997.

(4) The DPS contains two buildings designated as research and development laboratories. Since the DIANA Project ended, only one building in the area has been used. The building, 9116, was used for storage by the Fort Monmouth Communications and Electronics Museum until November 1997.

(5) The CECOM DSRM began planning and preparation for performing radiological termination surveys at Camp Evans in 1994. Planning was completed in 1995 and initial funding for the surveys was obtained in June 1996.

(6) In April 1996, a memorandum for record was submitted to the RCC. The memorandum identified Zones 1, 1A and 2 as areas in which no controlled radioactive sources were present. The memorandum requested that no radioactive material be introduced into the areas in order that the radiological survey report could serve as a final status product. The memorandum was accepted by the RCC. The survey and final report for Zones 1 and 1A were completed in August 1997. The ATF (zone 2) building and soil surveys were conducted from May through October 1997. Laboratory counting was completed in February 1998. The DPS building and soil surveys were started in September 1997 and completed in January 1998. Surveys in building 9116 were not performed until all equipment was removed and decontamination was performed in December 1997.

(7) Mr. Steve Shaffer, NRC project officer, visited the site in June 1997 and was briefed on the scope of survey planned for the ATF. The original characterization plan had classified the entire ATF as affected. The classification was the result of the documented Cobalt-60 contamination. Since the area of contamination was known, Mr. Shaffer agreed that the classification of areas not in immediate proximity could be reduced to unaffected.

(8) Laboratory analysis and data review of the DPS and ATF samples and readings were completed in April 1998.

b. Site Condition at Time of Termination Survey.

(1) All of the buildings in the ATF area were vacant. A chemical hazardous waste storage site located in the ATF was in use until February 1998. This chemical hazardous waste storage area was not used for radioactive material storage.

(2) Building 9116, CECOM Museum storage was in use until December 1997. Following the removal of all equipment from this building, decontamination and final surveys were performed. The remaining buildings at the DPS have been vacant since the 1980's.

c. Identifying Potential Contaminants.

(1) Building 9116, DPS was originally classified as unaffected. Prior to movement of equipment from the building, items with loose radium contamination were detected. This led to the reclassification of the building as affected. The remaining structures in the ATF and DPS were classified as unaffected or non-impacted. US Nuclear Regulatory Licenses Numbers 29-01022-06 (Broad scope) and 29-01022-14 (Calibration and night vision equipment) authorized use of radioactive material at Camp Evans. The historical evidence of the use of radioactive material in the areas covered by this report identify the portion of the ATF designated as Areas G and G-2 as Cobalt-60 contaminated until the 1980's. There is a possibility that US military equipment (compasses, Night Vision Equipment, Chemical Agent Alarms, etc.) that contained radioactive components could have been used anywhere in the area. This equipment is constructed for military field use and the radioactive material used is protected from damage under field conditions. Therefore, the possibility of any significant contamination from these sources is remote.

(2) The sewers servicing these areas were not surveyed. There is no evidence that radioactive material in a form that would have been released to the sewer was ever present in these areas. The area of the ATF that was contaminated does not have sewer lines.

(3) The open land areas were surveyed to detect gamma, and soil samples were collected for analysis of gross alpha and

beta radiation. Since there was no evidence of any use of tritium in outdoor areas, soil samples were not tested for tritium.

(4) Buildings were surveyed to detect fixed gamma, alpha and beta radiation. Wipes were taken in all affected and unaffected structures to detect gross alpha, beta and tritium.

(5) Survey release limits (values above background) used for this report are listed in Table 1. These values are at or below NRC release guideline values. Release limits lower than NRC guidelines were taken from US Army Regulation (AR) 385-11, Table 4-3, Radioactive Contamination Guides, 1 May 1980(reference 8). The limits take from AR-385-11 are those listed as maximum levels of contamination acceptable in uncontrolled areas.

Table 1
Survey Release Limits

Isotope	Physical state	Release Limit*
Tritium	Removable, wipe	100 dpm/100 cm^2
	Fixed	Not measured.
Gross Alpha	Removable, wipe	20 dpm/100 cm^2
	Fixed, direct reading	100 dpm/100 cm^2
Gross Beta	Removable, wipe	100 dpm/100 cm^2
	Fixed, direct reading	5000 dpm/100 cm^2
Gamma	Fixed, at 1 meter from surface (soil or structure)	5 microR/hr
Tritium	Soil, Not Sampled	Not measured.
Gross Alpha	Soil, lab analysis	5 pCi/gm
Gross Beta	Soil, Lab analysis	20 pCi/gm
Gamma activity	Soil, Lab analysis	5 pCi/gm

* Activity/reading above background.

6. RADIATION SURVEYS AND RESULTS.

a. Quality assurance and quality checks. Laboratory and field survey instrument operation was verified on a daily basis by quality checking the equipment's performance using radiation check sources. Quality assurance records on all instruments are on file at Camp Evans. A non-conformance/discrepancy corrective action sheet was used to identify problems and document corrective actions.

b. Field Instrument/Equipment.

(1) Field survey instrument identification numbers, backgrounds and parameters used for each survey are listed on the "Field Technical Support Data" sheets in Appendices F and G. All field instruments were calibrated and maintained in accordance with US Army TMDE schedules for "ACTIVE" instruments.

(2) The efficiency for instrument and probe combinations was determined using a source traceable to the National Institute of Standards and Technology (NIST). Survey instruments were

response checked twice daily at the beginning and end of use. Survey results are reported in dpm/100 cm^2 or microR/hr as appropriate. All direct field survey results were corrected for background. Alpha and beta survey instrument LLDs were determined using the following formula:

$$\text{LLD (dpm/100cm}^2\text{)} = \frac{4.65\sqrt{\frac{R_b\,(cpm)}{2\tau\,(\min)}}}{\varepsilon\,(cpm/dpm)\times(P_a/100\ cm^2)}$$

WHERE:

LLD	**Lower Limit of Detection**
R_b	**Background rate**
τ	**Instrument time constant**
ε	**Efficiency**
P_a	**Detector area**

c. Survey Methods.

(1) Affected Buildings.

(a) One building, 9116 in the DPS was surveyed as affected. The building's initial classification of unaffected was changed to affected following the discovery of radioactive material in the building. In November 1997, prior to removal of the museum pieces stored in the building, the initial gamma scan identified several items with dose rates of four to five milliR per hour at one inch from surfaces. Follow up scanning with alpha and beta detectors identified areas of contamination on shelves and floor surfaces. All of the items stored in the building were surveyed prior to relocation. Items with radiation levels that did not satisfy uncontrolled release limits were moved to building 9383, Radioactive Waste Storage, on Camp Evans. The items that surveyed clean or contained unimportant quantities of radioactive material were released to the Museum.

(b) Routine decontamination operations and surveys were performed prior to the initiation of final survey procedures.

(c) The building was gridded in a one-meter square pattern. The floors and lower two meters of walls were 100 percent surface scanned for alpha, beta and gamma radiation. At each grid center a fixed alpha, beta and one meter gamma dose rate was measured and recorded. Wipes for tritium and gross alpha and beta activity were taken in each grid.

(d) The upper walls and ceilings were not surveyed. The decision to not survey upper walls and ceilings was based on the fact that the lower walls did not require decontamination prior to final survey and no elevated readings or wipe results were detected by these surveys.

(2) Unaffected Buildings

(a) The total number of buildings/structures in the area surveyed is nine. Seven of the buildings were surveyed as unaffected. The building are 9091, 9306, 9307, 9118, and 9164 located in the ATF; and at the DPS 9162, and 9600. In these buildings, a minimum of ten percent of the floor and wall surface was scanned to detect and mark points where gamma, alpha or beta radiation was noticeably higher than background. Following the scan a minimum of thirty sample points were selected in buildings with floor area greater than thirty square meters. Smaller buildings had at least one sample point assigned per square meter of floor surface. The thirty sample points included any points marked during the scan and randomly selected points spread across the area. At each sample point a fixed alpha, beta, and gamma reading was recorded and two wipes were taken, one for gross alpha and beta and a second for tritium.

(b) Sodium Iodide one-inch scintillation detectors were used for fixed and scanning gamma dose rate measurements. Scanning was performed with the detector within ten centimeters of the surface being checked and fixed readings were taken one meter above each sample point. Gamma dose rate survey instruments used were calibrated across the range of five to five hundred microR per hour.

(c) Gas flow proportional or scintillation alpha and beta probes were used for surface area scanning. The detector's probe was within 1 centimeter of the floor surface during scanning. The scan rate was less than a half probe width per

second. The majority of scanning was performed with gas flow proportional detectors that simultaneously detected alpha and beta radiation. The proportional detectors were used in the dual channel (alpha and beta) mode with audio speakers monitoring for changes in beta activity while meter deflection was observed for alpha activity changes. The area-scanning objective was a minimum ten percent floor and lower walls surface coverage; this was achieved in all buildings surveyed.

(d) A tritium wipe was taken at each sample point. The sampling method was a dampened metricel filter wiped over one hundred square centimeters of the floor surface.

(e) A gross alpha and beta wipe was taken at each sample point. The wipes were cloth NUCONs. One hundred square centimeters of floor surface were wiped.

(3) Non-impacted buildings/structures. Structure 9196, a RADAR antenna base at the DPS was determined to be non-impacted. The antenna base contained position controls and motors to aim the antenna dish. The antenna base was scanned with a microR gamma detector. Dose rates were background levels.

(4) Affected open areas. The ATF was divided into fourteen sub-zones for survey. The sub-zones are labeled A through N. Sub-zones B, E, F, I, K, L and M were classified as affected.

(a) Affected areas were land surveyed and gridded in a ten-meter equilateral triangle pattern. The points of each triangle were the designated sample points.

(b) One hundred percent of the area surface was gamma scanned with a one-inch NaI crystal detector attached to a microR rate meter. The scanning was conducted with the probe within ten centimeters of the surface being surveyed. Any area with a reading five microR per hour greater than the instruments background reading was marked for soil sampling. These survey points within the triangle grid pattern were staked and labeled A, B, etc., starting with the triangle's northwest corner sample point ID as their locator key.

(c) Soil samples were collected at each identified sample point. Following laboratory analysis of the soil samples, follow-up surface or sub-surface samples were collected and analyzed if investigative flag values were detected. Sub-surface samples were collected in sub-zone K when surface samples showed that cobalt-60 was present in the soil.

(5) Unaffected open areas.

(a) The DPS fenced compound and the parameter twenty-three acres of the ATF were surveyed as unaffected. The area surveyed as unaffected is approximately two acres of the DPS and twenty-three of the ATF.

(b) A gamma dose rate surface scan that covered more than ten percent of the area was performed prior to sample collection. Any location with a reading one and one half times the survey background value was marked for sampling.

(c) The ATF was divided into fourteen sub-zones for survey. The sub-zones were labeled A through N for identification. Sub-zones A, C, D, N, J, H and N were surveyed as unaffected.

(d) The open land within the DPS fenced compound was surveyed as unaffected.

(6) Non-impacted land.

(a) In the ATF, sub-zone G within sub-zone D and near the property boundary, was identified as non-impacted. Sub-zone G is the concrete pad where the CECOM hazardous chemical waste storage area was located. This area was not used for radioactive material storage. A gamma dose rate scan was performed over the surface. No radiation levels above background were detected.

(b) The land outside the DPS compound fence was identified as non-impacted. This property boundary area was not used for any operations.

d. Laboratory counting.

(1) Complete laboratory records for calibration, quality assurance checks, backgrounds, etc., are available for inspection at the CECOM DSRM radiological counting laboratory.

(2) Tritium wipes were counted using a liquid scintillation counting system calibrated with tritium standards traceable to NIST. Daily quality assurance tests and background counts validated the counting systems performance before, during and after each sample run.

(3) Gross alpha and beta wipes were counted with a low background gas flow proportional counting system. Americium-241 and Strontium-90 were used to determine the alpha and beta detection efficiency of the system, respectively. All sources used for efficiency determinations are traceable to the NIST. Daily quality assurance tests and background counts validated the counting systems performance before, during and after each sample run.

(4) Soil samples were analyzed for gross alpha, beta, and gamma activity. Gamma spectroscopy analysis was performed to identify radioactive isotopes in soil samples. The Canberra Genie System with GeLi detectors was used for counting and sample data reporting. Alpha and beta samples were prepared for analysis by chemically digesting two grams of soil. The digestion process used an acid and peroxide solution heated by microwave oven. The soluble elements in the soil were dissolved into the solution. The solutions liquid supernatant with the digested soluble elements was transferred to and evaporated on a stainless steel planchet. Prepared planchets were counted on a low background alpha and beta gas flow proportional counter. Alpha and beta spiked samples were processed and counted with each survey batch to verify chemical recovery and counting system performance. Daily quality assurance tests and background counts validated the counting systems performance before, during and after each sample run.

e. Field Survey Results

(1) Building gamma doses rate and gross alpha and beta surface area scanning and fixed readings detected equipment containing and contaminated with radium in Zone 3, sub-zone east building 9116. After the material was removed and decontamin-

ation completed, no significant activity, distinguishable from background levels, was detected. Building 9307 contained three tritium exit signs, which were removed to radioactive waste. There were no other significant findings in any buildings. Scan and fixed alpha and beta readings in buildings did detect areas that were elevated above the general area background. However, evaluation of construction material (ceramic tile, cinder block, brick) used for walls and floors revealed that these materials were the source of the elevated readings. Final survey results for each building are included in Appendix F, DPS SURVEY DATA. At the time of the final survey, scanning results in all buildings satisfied fixed reading release criteria.

(2) Zone 2, was divided into fourteen sub-zones for survey. Open area surface gamma dose rate scanning detected a small (100 microR per hour dose rate at one inch) radium source buried approximately three inches deep in sub-zone F. The source was found approximately twenty feet north of the loading dock on building 9307. It was recovered intact and removed to radioactive waste. A total of eight sample locations with dose rates five microR per hour above background were detected. The highest of these is seven microR per hour the other seven are six microR per hour. These points were marked and soil samples collected, processed and analyzed for gamma emitters, gross alpha and beta activity. The analysis determined that the elevated dose rates were the result of variance in background radiation.

(3) Zone 3, Sub-zone East (DPS) open area surface gamma dose rate scanning The analysis determined that all activity present was natural background radiation.

(4) Smoke detectors containing radioactive material were left installed in buildings 9116, DPS and 9307 zone 2.

f. Laboratory analysis results. A review of the counting results indicates that all buildings and open land surveyed satisfy total residual radioactivity release criteria. Appendices F and G contains the complied survey results.

7. SURVEY RESULTS (APPENDICES F and G) ORGANIZATION.

a. Raw data reduced for report. Field survey and laboratory raw data compiled on each sample point was reviewed and organized for presentation. Each building or area report starts with a survey map, followed by the survey results report and field technical data support sheets. The report data was converted into appropriate units of activity to match release criteria. Field readings for alpha, beta and gamma radiation have the daily field background subtracted. Laboratory results have only the counting system "blank" background subtracted.

(1) The reports field survey readings have all been adjusted for background. Backgrounds for gamma, alpha and beta were measured daily. The backgrounds were measured in a known clean area, physically similar to the survey area.

(2) Laboratory results from all counting systems have only had the counting system background subtracted. Count results of wipes taken to detect removable contamination are reported in disintegrations per minute per one hundred centimeters square after subtracting counting system background. Soil sample gross alpha and beta results were compared to the Fort Monmouth, Charles Wood Area (CWA) gross alpha and beta results. The CWA gross alpha and beta results are non-impacted area results. Their average value was subtracted from survey area results before comparison to release guidelines.

b. Laboratory results background consideration. A multiple sample background for soils was collected at the CWA. The CWA is located approximately 10 miles from Camp Evans and has no history of radioactive material use. The results of the CWA samples are included in the report to show the range of typical background values for soil from a non-impacted area.

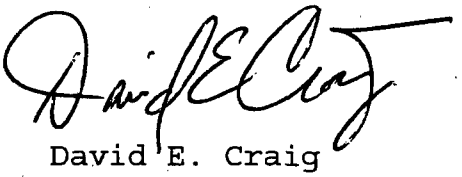
c. Gamma isotopes and sum activity reported. All gamma activity detected is listed by isotope symbol and atomic number. The activity report has not been background corrected. The report lists the total activity detected in the soil sample with only counting system background subtracted. The CWA background data is reported in the same manner, with only counting system background subtracted. All ATF (zone 2) and DPS (zone 3 sub-zone East) soil samples were compared to the CWA background soil samples. Summed activity levels were analyzed by plotting the data on two graphs. A stem and leaf graph was used to determine

the frequency of occurrence of activity values. A second chart with data points ordered from highest to lowest activity in a survey zone or sub-zone was used to determine average activity frequency plus or minus one sigma deviation. Data graphs are located in APPENDIX E. Comparison shows that the activity levels and distribution are similar for the survey area and the Charles Wood background area. The highest single soil sample activity (22 pCi/gm) measured was from the CWA.

8. CONCLUSION. The evaluation of the radiological survey readings and laboratory analysis results indicated that residual radiation levels in the area surveyed satisfy both the NRC's and NJ DEP's uncontrolled release criteria.

9. RECOMMENDATION. A request for uncontrolled release of the area surveyed should be submitted to the NRC. A copy of this report should be submitted with the request to document that survey planning and actions were taken at the site to ensure the area is not contaminated and it satisfies all criteria for unrestricted release.

Report Prepared by:



David E. Craig
Health Physics Consultant
IceSolv, Inc.

APPENDIX A

REFERENCES

1. NUREG/CR-5849, Manual for Conducting Radiological Surveys in Support of License Termination, Draft Report for Comment, June 1992.

2. US Nuclear Regulatory License Number 29-01022-06.

3. US Nuclear Regulatory License Number 29-01022-14.

4. Title 10, Code of Federal Regulations (CFR), Part 20, Standards for Protection Against Radiation.

5. Title 10, CFR, Part 30, Rules of General Applicability to Domestic Licensing of Byproduct Material.

6. Radiological Characterization Plan, Camp Evans, Fort Monmouth, 20 August 1996.

7. USAEHA, Ltr, ATTN: HSE-RH, Subject: Environmental Impact Assessment - Evans Area, dtd 11 May 1976.

8. AR 385-11, Ionizing Radiation Protection (Licensing, control, Transportation, Disposal, and Radiation Safety), 1 May 1980.

APPENDIX B

ABBREVIATIONS

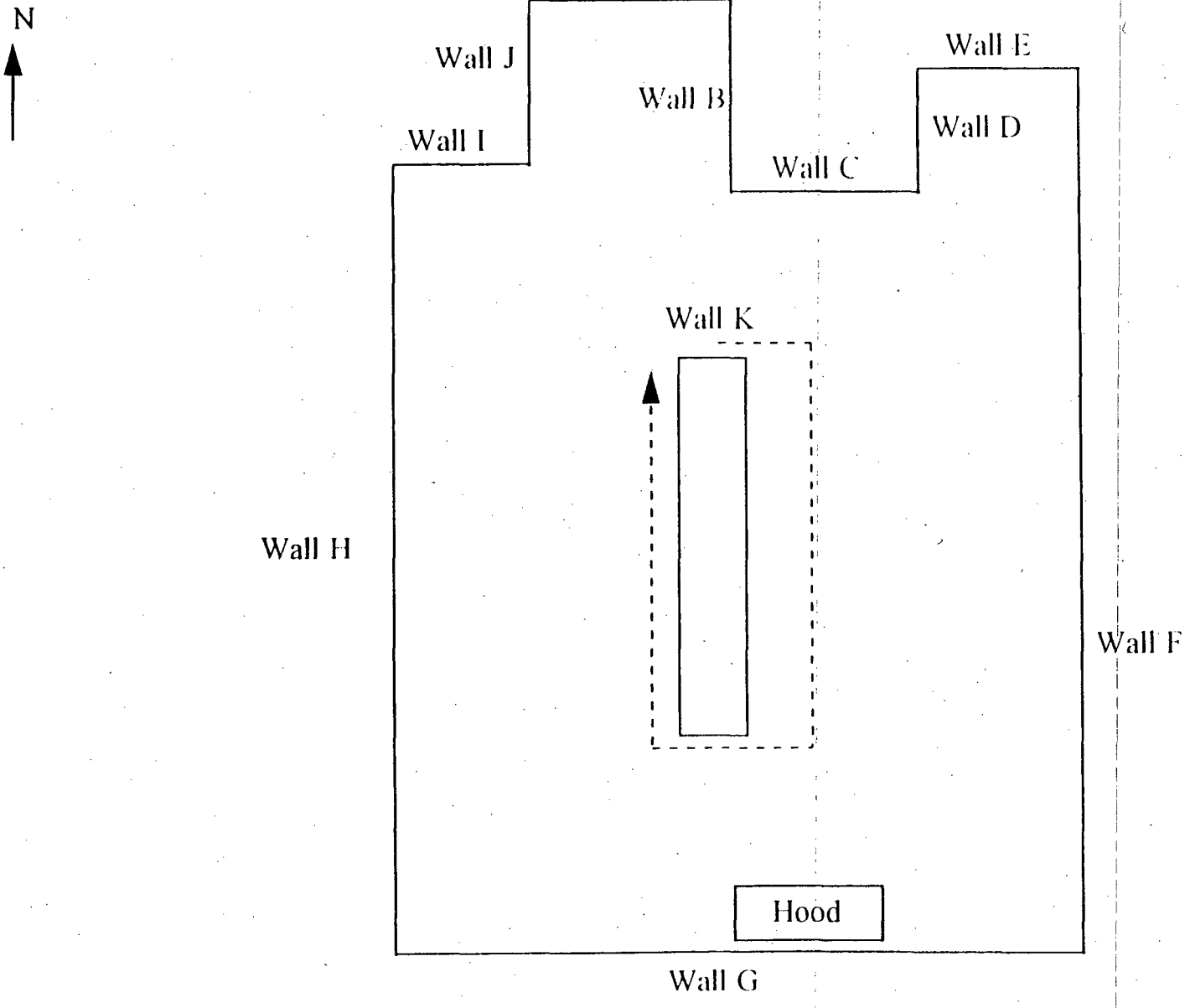
ATF	Antenna Test Field, survey zone 2
CECOM	US Army Communications-Electronics Command
cpm	counts per minute
dpm	disintegration per minute
DPS	DIANA Project Site, survey zone 3, sub-zone East
DSRM	Directorate of Safety Risk Management
LLD	Lower Limit of Detection
milli	1/1,000
micro	1/1,000,000
NIST	National Institute of Standards and Testing
NJDEP	New Jersey Department of Environmental Protection
NRC	Nuclear Regulatory Commission
R	Roentgen
rem	Roentgen Equivalent Man
TMDE	US Army Test Measurement and Diagnostic Equipment Activity

APPENDIX C

EXAMPLES
OPEN LAND SURVEY DOCUMENT PACKAGE AND
BUILDLING SURVEY DOCUMENT PACKAGE

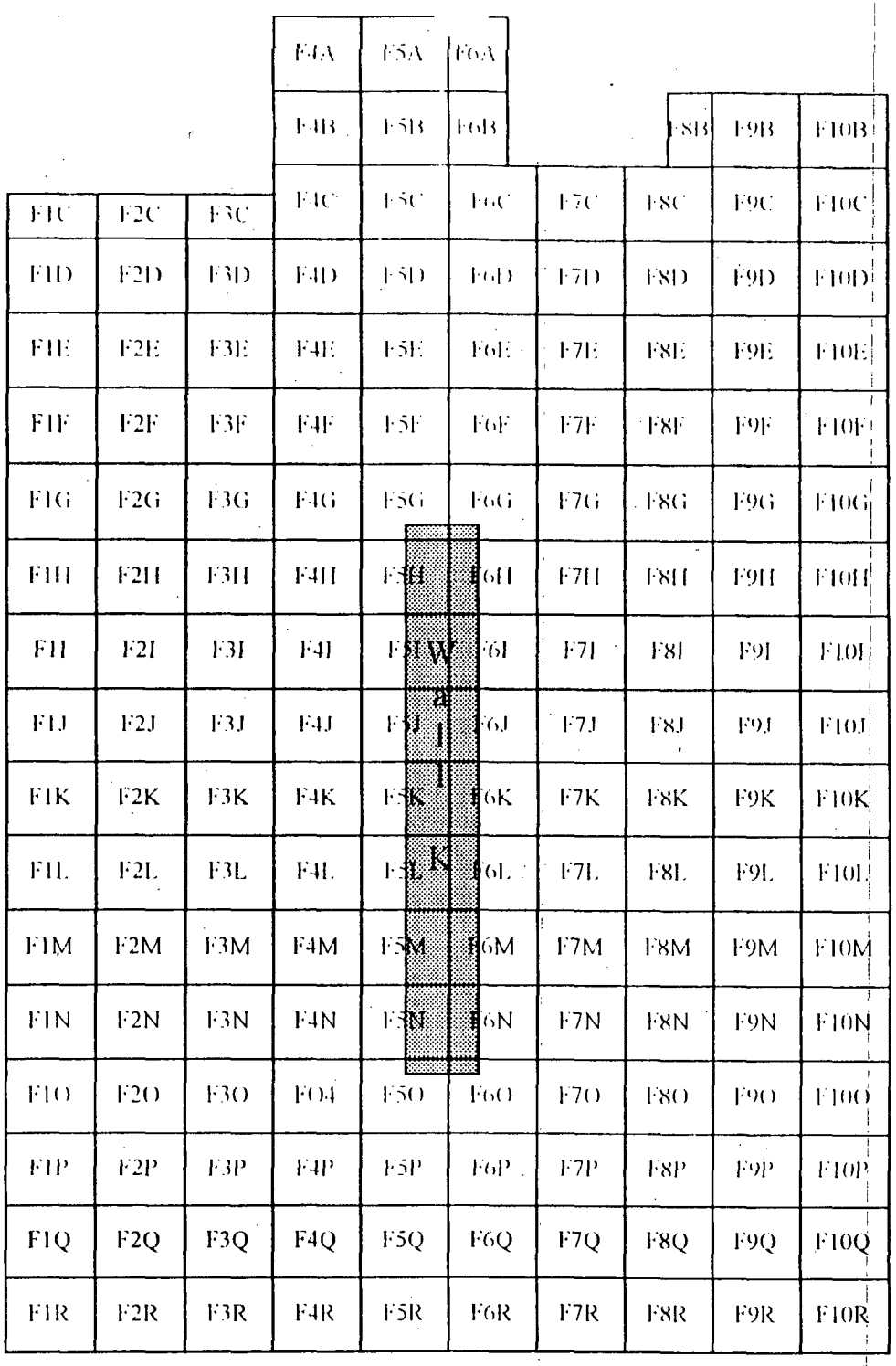
A. Survey team document package building survey.
B. Laboratory document package building survey.
C. Survey team document package open land survey.
D. Laboratory document package open land survey.

Bldg. 9034
Rm. 7
Wall Layout



Bldg. 9034
Rm. 7
Floor

N

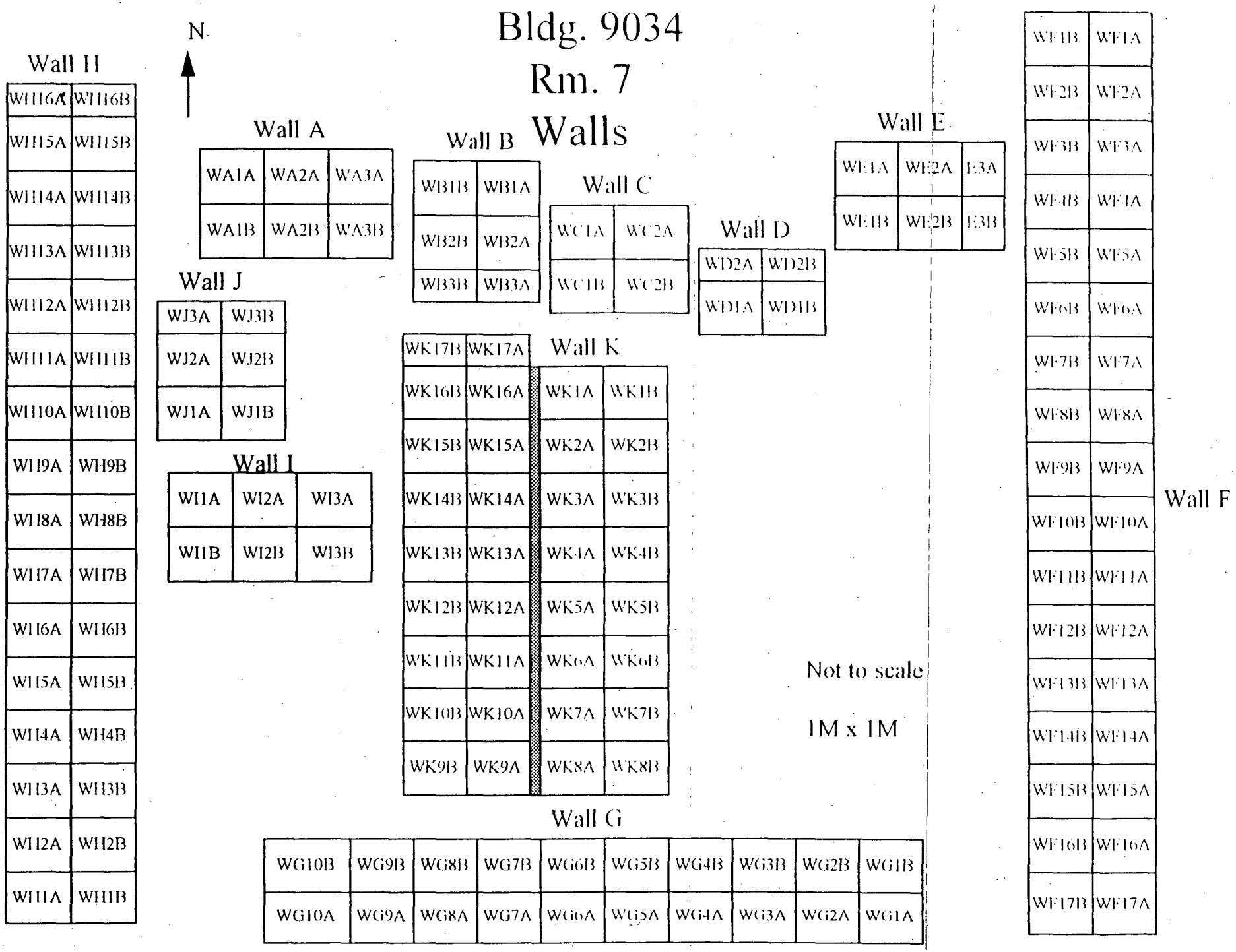


Random 1: On top of hood over F7R
Random 2: I\S hood over F7R
Random 3: Above WF16A
Random 4: Above WH7A
Random 5: Above WI2A
Random 6: Above WC2A

Not to scale

1M X 1M

Bldg. 9034
Rm. 7
Walls



Field Survey Requirements Form

Survey Number: 2957

Date Issued: 2 26 98

Date Completed: 2 26 98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: NA **Thru Grid:** NA

Survey Type: Affected Indoor

Work Permit Required: ☐ **(If permit required is checked, ensure that the permit is complete and attached before beginning work)**

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM ALPHA BETA AND GAMMA SCANS IN ROOM 7.

Prepared by: Craig Miller **performed by:** EAVES

prep date: 2 26 98 **performed date:** 2 26 98

Field Survey Requirements Form

Survey Number: 2958

Date Issued: 2 27 98

Date Completed: 2 27 98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: NA **Thru Grid:** NA

Survey Type: Affected Indoor

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

- Alpha readings: ☐
- Beta readings: ☐
- Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM ALPHA BETA AND GAMMA SCANS.

Prepared by: LONG **performed by:** EAVES

prep date: 2 27 98 **performed date:** 2 27 98

Field Survey Requirements Form

Survey Number: 2968

Date Issued: 3 2 98

Date Completed: 3 2 98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: NA **Thru Grid:** NA

Survey Type: Affected Indoor

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM ALPHA BETA GAMMA SCANS.

Prepared by: Craig Miller **performed by:** EAVES

prep date: 3 2 98 **performed date:** 3 2 98

Field Survey Requirements Form

Survey Number: 2981

Date Issued: 3 3 98

Date Completed: 3 3 98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: NA **Thru-Grid:** NA

Survey Type: Affected Indoor

Work Permit Required: ☐ **(If permit required is checked, ensure that the permit is complete and attached before beginning work)**

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM ALPHA BETA GAMMA SCANS.

Prepared by: Craig Miller **performed by:** EAVES

prep date: 3 3 98 **performed date:** 3 3 98

Field Survey Requirements Form

Survey Number: 2985

Date Issued: 3.3.98

Date Completed: 3.3.98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: E4A **Thru Grid:** E5J

Survey Type: Affected Indoor

Work Permit Required: ☐ **(If permit required is checked, ensure that the permit is complete and attached before beginning work)**

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM GAMMA DATA POINTS.

Prepared by: LONG **performed by:** EAVES

prep date: 3.3.98 **performed date:** 3.3.98

Field Survey Requirements Form

Survey Number: 2986

Date Issued: 3 3 98

Date Completed: 3 3 98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: F6J **Thru-Grid:** F10R

Survey Type: Affected Indoor

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM GAMMA DATA POINTS.

Prepared by: LONG **performed by:** EAVES

prep date: 3 3 98 **performed date:** 3 3 98

Field Survey Requirements Form

Survey Number: 2987

Date Issued: 3.3.98

Date Completed: 3.3.98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: WA1A **Thru Grid:** WG10B

Survey Type: Affected Indoor

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM GAMMA DATA POINTS.

Prepared by: LONG **performed by:** EAVES

prep date: 3.3.98 **performed date:** 3.3.98

Field Survey Requirements Form

Survey Number: 2988

Date Issued: 3 3 98

Date Completed: 3 3 98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: WH1A **Thru Grid:** WK17B

Survey Type: Affected Indoor

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM GAMMA DATA POINTS.

Prepared by: LONG **performed by:** EAVES

prep date: 3 3 98 **performed date:** 3 3/98

Field Survey Requirements Form

Survey Number:	**2992**
Date Issued:	3 3 98
Date Completed:	3 3 98

Site information

Zone:	3	Sub Zone:	NA
Bldg. #	9034	Room:	7
Grid:	F4A	Thru Grid:	F10R

Survey Type: Affected Indoor

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

- Alpha readings: ☐
- Beta readings: ☐
- Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM ALPHA BETA DATA POINTS ON THE FLOOR.

Prepared by:	LONG	performed by:	EAVES
prep date:	3 3 98	performed date:	3 3 98

Field Survey Requirements Form

Survey Number:	**2993**
Date Issued:	3/3/98
Date Completed:	3/3/98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: WA1A **Thru Grid:** WJ3B

Survey Type: Affected Indoor

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM ALPHA BETA DATA POINTS ON THE WALLS.

Prepared by: LONG **performed by:** EAVES

prep date: 3/3/98 **performed date:** 3/3/98

Field Survey Requirements Form

Survey Number:	2996
Date Issued:	3-4-98
Date Completed:	3-4-98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: WK1A **Thru Grid:** WK1B

Survey Type: Affected Indoor

Work Permit Required: ☐ **(If permit required is checked, ensure that the permit is complete and attached before beginning work)**

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
	0		
	0		
	0		
	0		

Notes: PERFORM ALPHA/BETA DATA POINTS IN ROOM 7.

Prepared by: Craig Miller **performed by:** EAVES

prep date: 3-4-98 **performed date:** 3-4-98

Field Survey Requirements Form

Survey Number: 2997

Date Issued: 3 4 98

Date Completed: 3 4 98

Site information

Zone: 3 **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: E4A **Thru Grid:** E5J

Survey Type: Affected Indoor

Work Permit Required: ☐ **(If permit required is checked, ensure that the permit is complete and attached before beginning work)**

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
Wipe	84	Surface	Gross Alpha Beta
LSC Wipe	84	Surface	TRitium
	0		
	0		

Notes: PERFORM WIPE SURVEYS.

Prepared by: Craig Miller **performed by:** EAVES

prep date: 3 4 98 **performed date:** 3 4 98

Field Survey Requirements Form

Survey Number: 2998

Date Issued: 3 4 98

Date Completed: 3 4 98

Site information

Zone: 3 | **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: E6J **Thru Grid:** E10R

Survey Type: Affected Indoor

Work Permit Required: ☐ **(If permit required is checked, ensure that the permit is complete and attached before beginning work)**

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
Wipe	85	Surface	Gross Alpha Beta
LSC Wipe	85	Surface	TRitium
	0		
	0		

Notes: PERFORM WIPE SURVEYS IN ROOM 7.

Prepared by: Craig Miller **performed by:** EAVES

prep date: 3 4 98 **performed date:** 3/4/98

Field Survey Requirements Form

Survey Number: 2999

Date Issued: 3 4 98

Date Completed: 3 4 98

Site information

Zone: 3 | **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: WA1A **Thru Grid:** WG10B

Survey Type: Affected Indoor

Work Permit Required: ☐ **(If permit required is checked, ensure that the permit is complete and attached before beginning work)**

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
Wipe	80	Surface	Gross Alpha Beta
LSC Wipe	80	Surface	TRitium
	0		
	0		

Notes: PERFORM WIPE SURVEYS.

Prepared by: Craig Miller **performed by:** EAVES

prep date: 3 4 98 **performed date:** 3 4 98

Field Survey Requirements Form

Survey Number: 3000

Date Issued: 3 4 98

Date Completed: 3 4 98

Site information

Zone: 3 | **Sub Zone:** NA

Bldg. # 9034 **Room:** 7

Grid: WH1A **Thru Grid:** WK17B

Survey Type: Affected Indoor

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
Wipe		84 Surface	Gross Alpha Beta
LSC Wipe		84 Surface	TRitium
		0	
		0	

Notes: PERFORM WIPE SURVEYS.

Prepared by: Craig Miller **performed by:** EAVES

prep date: 3 4 98 **performed date:** 3 4 98

GAMMA COUNTS

AFFECTED

SURVEY #	2985	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.98	Instrument Serial #	926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
F4A	7	3.89	ok
F5A	7	3.23	
F6A	7	3.11	
F4B	7	3.25	
F5B	7	3.7	
F6B	7	3	
F8B	7	3.26	
F9B	7	3.21	
F10B	7	3.51	
F1C	7	4.26	
F2C	7	3.99	
F3C	7	4.05	
F4C	7	3.07	
F5C	7	3.72	
F6C	7	3.35	
F7C	7	4.12	
F8C	7	4.09	
F9C	7	3.92	
F10C	7	3.88	
F1D	7	5.29	
F2D	7	4.82	
F3D	7	3.86	
F4D	7	3.96	
F5D	7	3.35	
F6D	7	4.07	
F7D	7	4.04	
F8D	7	4.11	
F9D	7	3.01	
F10D	7	3.6	
F1E	7	4.77	
F2E	7	4.09	
F3E	7	3.67	

SURVEY #	2985	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.98	Instrument Serial #	926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
F4E	7	3.77	
F5E	7	3.45	
F6E	7	3.86	
F7E	7	4.01	
F8E	7	3.56	
F9E	7	3.09	
F10E	7	3.54	
F1F	7	4.87	
F2F	7	4.41	
F3F	7	3.83	
F4F	7	4.49	
F5F	7	3.89	
F6F	7	3.36	
F7F	7	3.28	
F8F	7	3.86	
F9F	7	3.63	
F10F	7	3.07	
F1G	7	4.8	
F2G	7	4.49	
F3G	7	4.31	
F4G	7	3.86	
F5G	7	3.84	
F6G	7	3.78	
F7G	7	3.51	
E8G	7	3.37	
F9G	7	3.69	
F10G	7	3.9	
F1H	7	5.01	
F2H	7	4.29	
F3H	7	4.23	
F4H	7	3.97	
F5H	7	4.2	
F6H	7	3.78	

SURVEY #	2985	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.98	Instrument Serial #	926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
F7H	7	3.81	
F8H	7	4.23	
F9H	7	3.33	
F10H	7	3.97	
F1I	7	3.87	
F2I	7	3.64	
F3I	7	4.34	
F4I	7	4.61	
F5I	7	4.32	
F6I	7	3.79	
F7I	7	3.16	
F8I	7	2.99	
F9I	7	4.02	
F10I	7	3.14	
F1J	7	5.17	
F2J	7	5.13	
F3J	7	4.62	
F4J	7	3.98	
F5J	7	3.3	
Total Sample Points:		84	

Performed by Kristi A. Evans Date 5-3-98

GAMMA COUNTS

AFFECTED

SURVEY #	2986	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.87	Instrument Serial #	926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
F6J	7	3.37	OK
F7J	7	4.15	
F8J	7	3.66	
F9J	7	3.5	
F10J	7	3.58	
F1K	7	5.12	
F2K	7	3.83	
F3K	7	3.8	
F4K	7	4.2	
F5K	7	3.56	
F6K	7	4.33	
F7K	7	3.94	
F8K	7	3.83	
F9K	7	4.01	
F10K	7	3.51	
F1L	7	5.21	
F2L	7	3.61	
F3L	7	4.21	
F4L	7	4.04	
F5L	7	4.01	
F6L	7	3.42	
F7L	7	4.56	
F8L	7	4.34	
F9L	7	4.92	
F10L	7	4.43	
F1M	7	5.01	
F2M	7	5.11	
F3M	7	4.72	
F4M	7	5.01	
F5M	7	5.21	
F6M	7	3.48	
F7M	7	3.84	

SURVEY #	2986	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.87	Instrument Serial #	926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
F8M	7	4.17	
F9M	7	3.64	
F10M	7	3.71	
F1N	7	5.39	
F2N	7	4.65	
F3N	7	3.51	
F4N	7	3.6	
F5N	7	3.88	
F6N	7	3.72	
F7N	7	3.76	
F8N	7	4.23	
F9N	7	3.91	
F10N	7	3.69	
F1O	7	4.1	
F2O	7	3.93	
F3O	7	4.05	
F4O	7	4.03	
F5O	7	3.21	
F6O	7	3.91	
F7O	7	3.83	
F8O	7	3.97	
F9O	7	4.13	
F10O	7	3.7	
F1P	7	4.33	
F2P	7	4.24	
F3P	7	4.11	
F4P	7	4.49	
F5P	7	4.8	
F6P	7	4.51	
F7P	7	4.46	
F8P	7	4.44	
F9P	7	3.94	
F10P	7	4.67	

SURVEY #	2986	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.87	Instrument Serial #	926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
F1Q	7	4.99	
F2Q	7	4.57	
F3Q	7	4.41	
F4Q	7	3.99	
F5Q	7	4.29	
F6Q	7	3.82	
F7Q	7	4.06	
F8Q	7	4.45	
F9Q	7	3.74	
F10Q	7	3.9	
F1R	7	5.01	
F2R	7	3.97	
F3R	7	4.34	
F4R	7	4.72	
F5R	7	4.03	
F6R	7	4.51	
F7R	7	4.19	
F8R	7	4.22	
F9R	7	4.04	
F10R	7	4.38	
Total Sample Points:		85	

Performed by [signature]

Date 3-3-98

SURVEY #	2987	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.6	Instrument Serial #	926	Probe Serial #	723414		

SAMPLE GAMMA COUNTS COMMENT

03-Mar-98

GAMMA COUNTS

AFFECTED

SURVEY #	2987	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.6	Instrument Serial #	926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
WA1A	7	3.04	ok
WA2A	7	2.27	
WA3A	7	3.09	
WA1B	7	3.03	
WA2B	7	3.66	
WA3B	7	2.7	
WB1A	7	2.74	
WB2A	7	3.82	
WB3A	7	3.41	
WB1B	7	2.52	
WB2B	7	3.66	
WB3B	7	4.22	
WC1A	7	3.07	
WC2A	7	3.36	
WC1B	7	3.44	
WC2B	7	3.24	
WD1A	7	2.9	
WD2A	7	3.52	
WD1B	7	2.78	
WD2B	7	2.96	
WE1A	7	3.25	
WE2A	7	3.51	
WE3A	7	3.23	
WE1B	7	3.22	
WE2B	7	2.68	
WE3B	7	2.91	
WF1A	7	3.12	
WF2A	7	3.36	

SURVEY #	2987	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.6	Instrument Serial #	926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
WG6A	7	3.96	
WG7A	7	4.25	
WG8A	7	4.06	
WG9A	7	5.36	
WG10A	7	5.07	
WG1B	7	3.72	
WG2B	7	3.54	
WG3B	7	4.39	
WG4B	7	3.86	
WG5B	7	4.06	
WG6B	7	3.77	
WG7B	7	2.75	
WG8B	7	3.77	
WG9B	7	3.64	
WG10B	7	4.79	
Total Sample Points:		80	

Performed by Ronald A Eaves Date 3-3-98

GAMMA COUNTS

AFFECTED

SURVEY #	2988	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.76	Instrument Serial #	00926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
WH1A	7	3.79	OK
WH2A	7	5.05	
WH3A	7	4.46	
WH4A	7	4.16	
WH5A	7	3.34	
WH6A	7	3.88	
WH7A	7	4.23	
WH8A	7	4.81	
WH9A	7	4.09	
WH10A	7	3.71	
WH11A	7	4.26	
WH12A	7	4.46	
WH13A	7	4.15	
WH14A	7	3.91	
WH15A	7	3.32	
WH16A	7	3.33	
WH1B	7	3.64	
WH2B	7	4.19	
WH3B	7	4.07	
WH4B	7	3.84	
WH5B	7	4.32	
WH6B	7	3.91	
WH7B	7	4.19	
WH8B	7	4.23	
WH9B	7	3.95	
WH10B	7	3.66	
WH11B	7	3.91	
WH12B	7	3.75	
WH13B	7	2.86	
WH14B	7	3.12	
WH15B	7	3.87	
WH16B	7	3.34	

SURVEY #	2988	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.76	Instrument Serial #	00926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
WI1A	7	3.45	
WI2A	7	4.02	
WI3A	7	3.7	
WI1B	7	4.15	
WI2B	7	3.31	
WI3B	7	3.42	
WJ1A	7	3.28	
WJ2A	7	3.04	
WJ3A	7	3.31	
WJ1B	7	3.12	
WJ2B	7	3	
WJ3B	7	2.86	
WK1A	7	3.72	
WK2A	7	3.57	
WK3A	7	3.06	
WK4A	7	3.12	
WK5A	7	3.37	
WK6A	7	4.3	
WK7A	7	3.09	
WK8A	7	3.67	
WK9A	7	4.82	
WK10A	7	4.04	
WK11A	7	3.95	
WK12A	7	3.38	
WK13A	7	3.59	
WK14A	7	2.5	
WK15A	7	3.14	
WK16A	7	4.09	
WK17A	7	4.04	
WK1B	7	3.82	
WK2B	7	3.57	
WK3B	7	3.3	
WK4B	7	3.12	

SURVEY #	2988	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	0
Gamma bkg uR/hr	2.76	Instrument Serial #	00926	Probe Serial #	723414		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
WK5B	7	3.83	
WK6B	7	3.31	
WK7B	7	3.79	
WK8B	7	3.38	
WK9B	7	3.7	
WK10B	7	3.91	
WK11B	7	3.88	
WK12B	7	4.12	
WK13B	7	3.92	
WK14B	7	3.59	
WK15B	7	3.34	
WK16B	7	3.49	
WK17B	7	3.64	
R01	7	3.48	
R02	7	3.25	
R03	7	3.8	
R04	7	4.35	
R05	7	4.39	
R06	7	3.62	
Total Sample Points:		84	

Performed by R M A Evans Date 3-3-98

ALPHA and BETA COUNTS AFFECTED

SURVEY #	2992	SURVEY DATE	3/3/98	TECHNICIAN	EAVES			Instrument Serial #	133661
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	1		
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	140	Beta MDA dpm/100cm²	258	Probe Serial #	139658

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
F4A		7	2	212	0 11
F5A		7	1	194	10 507
F6A		7	4	183	
F4B		7	1	181	
F5B		7	0	158	
F6B		7	0	170	
F8B		7	0	176	
F9B		7	0	180	
F10B		7	0	174	
F1C		7	0	165	
F2C		7	0	175	
F3C		7	0	163	
F4C		7	1	165	
F5C		7	0	162	
F6C		7	0	178	
F7C		7	1	142	
F8C		7	2	156	
F9C		7	2	167	
F10C		7	0	184	
F1D		7	0	174	
F2D		7	0	183	
F3D		7	1	171	
F4D		7	0	194	
F5D		7	0	188	
F6D		7	2	188	
F7D		7	0	183	
F8D		7	0	210	
F9D		7	1	204	
F10D		7	1	179	
F1E		7	0	208	
F2E		7	2	199	
F3E		7	1	179	
F4E		7	1	202	
F5E		7	2	192	

SURVEY #	2992	SURVEY DATE	3/3/98	TECHNICIAN	EAVES			Instrument Serial #	133661
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	1	Probe Serial #	139658
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	140	Beta MDA dpm/100cm²	258		

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
F6E		7	1	178	
F7E		7	0	170	
F8E		7	1	200	
F9E		7	0	193	
F10E		7	0	174	
F1F		7	0	197	
F2F		7	1	193	
F3F		7	2	188	
F4F		7	1	193	
F5F		7	0	206	
F6F		7	0	175	
F7F		7	2	181	
F8F		7	0	206	
F9F		7	3	199	
F10F		7	1	201	
F1G		7	2	190	
F2G		7	0	171	
F3G		7	1	204	
F4G		7	1	193	
F5G		7	0	182	
F6G		7	2	189	
F7G		7	0	195	
F8G		7	2	222	
F9G		7	0	183	
F10G		7	0	204	
F1H		7	4	190	
F2H		7	1	204	
F3H		7	1	214	
F4H		7	0	181	
F5H		7	2	177	
F6H		7	0	210	
F7H		7	1	180	
F8H		7	1	204	
F9H		7	1	207	
F10H		7	0	181	
F1I		7	1	180	

SURVEY #	2992	SURVEY DATE	3/3/98	TECHNICIAN	EAVES			Instrument Serial #	133661
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	1		
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	140	Beta MDA dpm/100cm²	258	Probe Serial #	139658

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
F2I		7	0	198	
F3I		7	1	179	
F4I		7	1	182	
F5I		7	0	206	
F6I		7	0	186	
F7I		7	0	183	
F8I		7	2	176	
F9I		7	0	194	
F10I		7	0	182	
F1J		7	0	186	
F2J		7	1	209	
F3J		7	0	170	
F4J		7	1	191	
F5J		7	0	186	
F6J		7	1	193	
F7J		7	0	177	
F8J		7	2	220	
F9J		7	1	161	
F10J		7	1	218	
F1K		7	1	188	
F2K		7	2	185	
F3K		7	0	190	
F4K		7	0	202	
F5K		7	0	197	
F6K		7	0	181	
F7K		7	1	181	
F8K		7	1	194	
F9K		7	0	194	
F10K		7	0	226	
F1L		7	1	205	
F2L		7	0	223	
F3L		7	3	201	
F4L		7	0	202	
F5L		7	4	193	
F6L		7	2	183	
F7L		7	1	214	

SURVEY #	2992	SURVEY DATE	3/3/98	TECHNICIAN	EAVES			Instrument Serial #	133661
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME			
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	140	Beta MDA dpm/100cm²	258	Probe Serial #	139658

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
F8L		7	1	206	
F9L		7	0	201	
F10L		7	0	196	
F1M		7	0	185	
F2M		7	0	195	
F3M		7	0	178	
F4M		7	2	216	
F5M		7	0	188	
F6M		7	0	196	
F7M		7	1	211	
F8M		7	1	177	
F9M		7	2	173	
F10M		7	0	193	
F1N		7	0	180	
F2N		7	0	210	
F3N		7	1	183	
F4N		7	1	186	
F5N		7	2	201	
F6N		7	2	182	
F7N		7	2	192	
F8N		7	1	194	
F9N		7	1	180	
F10N		7	1	203	
F1O		7	2	175	
F2O		7	1	214	
F3O		7	2	188	
F4O		7	1	187	
F5O		7	1	215	
F6O		7	1	220	
F7O		7	2	187	
F8O		7	1	203	
F9O		7	1	209	
F10O		7	2	210	
F1P		7	3	174	
F2P		7	0	220	
F3P		7	0	198	

SURVEY #	2992	SURVEY DATE	3/3/98	TECHNICIAN	EAVES			Instrument Serial #	133661
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	1		
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	140	Beta MDA dpm/100cm²	258	Probe Serial #	139658

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
F4P		7	2	195	
F5P		7	0	180	
F6P		7	1	195	
F7P		7	2	216	
F8P		7	3	203	
F9P		7	1	222	
F10P		7	0	201	
F1Q		7	0	193	
F2Q		7	0	186	
F3Q		7	2	179	
F4Q		7	0	177	
F5Q		7	0	229	
F6Q		7	0	226	
F7Q		7	0	195	
F8Q		7	2	203	
F9Q		7	0	222	
F10Q		7	2	212	
F1R		7	0	178	
F2R		7	2	181	
F3R		7	0	208	
F4R		7	0	206	
F5R		7	1	216	
F6R		7	4	226	
F7R		7	1	228	
F8R		7	1	193	
F9R		7	1	211	
F10R		7	1	190	

SURVEY #	2992	SURVEY DATE	3/3/98	TECHNICIAN	EAVES			Instrument Serial #	133661
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	1		
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	140	Beta MDA dpm/100cm²	258	Probe Serial #	139658

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
Total Sample Points:			169		

Performed by [signature] Date 3-9-98

ALPHA and BETA COUNTS AFFECTED

SURVEY #	2993	SURVEY DATE	3/3/98	TECHNICIAN	EAVES			Instrument Serial #	133670
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME			
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	105	Beta MDA dpm/100cm²	229	Probe Serial #	139661

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
WA1A		7	0	132	0 -31 11 371
WA2A		7	0	120	
WA3A		7	1	109	
WA1B		7	1	107	
WA2B		7	1	104	
WA3B		7	0	103	
WB1A		7	0	126	
WB2A		7	0	155	
WB3A		7	2	134	
WB1B		7	1	142	
WB2B		7	0	117	
WB3B		7	0	133	
WC1A		7	1	125	
WC2A		7	2	142	
WC1B		7	0	98	
WC2B		7	1	142	
WD1A		7	1	102	
WD2A		7	2	134	
WD1B		7	2	116	
WD2B		7	3	144	
WE1A		7	0	105	
WE2A		7	0	113	
WE3A		7	1	96	
WE1B		7	1	120	
WE2B		7	0	122	
WE3B		7	1	115	
WF1A		7	0	122	
WF2A		7	0	107	
WF3A		7	1	108	
WF4A		7	1	104	
WF5A		7	1	117	
WF6A		7	0	114	
WF7A		7	0	122	
WF8A		7	1	132	

SURVEY #	2993	SURVEY DATE	3/3/98	TECHNICIAN	EAVES			Instrument Serial #	133670
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME			
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	105	Beta MDA dpm/100cm²	229	Probe Serial #	139661

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
WF9A		7	0	131	
WF10A		7	3	110	
WF11A		7	3	116	
WF12A		7	0	125	
WF13A		7	3	116	
WF14A		7	2	100	
WF15A		7	0	125	
WF16A		7	1	143	
WF17A		7	0	130	
WF1B		7	2	97	
WF2B		7	0	91	
WF3B		7	1	106	
WF4B		7	1	124	
WF5B		7	0	108	
WF6B		7	0	134	
WF7B		7	0	109	
WF8B		7	2	103	
WF9B		7	0	100	
WF10B		7	1	120	
WF11B		7	0	112	
WF12B		7	1	138	
WF13B		7	2	112	
WF14B		7	0	100	
WF15B		7	0	107	
WF16B		7	0	101	
WF17B		7	2	91	
WG1A		7	0	116	
WG2A		7	1	119	
WG3A		7	3	145	
WG4A		7	1	102	
WG5A		7	1	135	
WG6A		7	0	122	
WG7A		7	0	110	
WG8A		7	1	106	
WG9A		7	1	118	
WG10A		7	0	111	

SURVEY #	2993	SURVEY DATE	3/3/98	TECHNICIAN	EAVES			Instrument Serial #	133670
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	1		
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	105	Beta MDA dpm/100cm²	229	Probe Serial #	139661

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
WG1B		7	0	118	
WG2B		7	0	125	
WG3B		7	3	132	
WG4B		7	0	124	
WG5B		7	1	145	
WG6B		7	1	116	
WG7B		7	0	106	
WG8B		7	2	139	
WG9B		7	0	132	
WG10B		7	0	115	
WH1A		7	3	139	
WH2A		7	1	120	
WH3A		7	0	113	
WH4A		7	4	119	
WH5A		7	0	146	
WH6A		7	1	122	
WH7A		7	0	136	
WH8A		7	0	139	
WH9A		7	0	129	
WH10A		7	1	130	
WH11A		7	0	126	
WH12A		7	1	119	
WH13A		7	0	141	
WH14A		7	4	138	
WH15A		7	1	152	
WH16A		7	0	142	
WH1B		7	1	131	
WH2B		7	1	131	
WH3B		7	2	132	
WH4B		7	0	136	
WH5B		7	1	148	
WH6B		7	1	126	
WH7B		7	0	130	
WH8B		7	2	116	
WH9B		7	1	169	
WH10B		7	4	154	

SURVEY #	2993	SURVEY DATE	3/3/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	1
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	105	Beta MDA dpm/100cm²	229

Instrument Serial #	133670
Probe Serial #	139661

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
WH1B		7	0	150	
WH2B		7	1	123	
WH3B		7	1	122	
WH4B		7	0	149	
WH5B		7	2	158	
WH6B		7	0	149	
WI1A		7	1	124	
WI2A		7	0	156	
WI3A		7	1	123	
WI1B		7	1	135	
WI2B		7	1	128	
WI3B		7	0	101	
WJ1A		7	1	136	
WJ2A		7	1	118	
WJ3A		7	1	116	
WJ1B		7	1	107	
WJ2B		7	0	106	
WJ3B		7	0	117	
Total Sample Points:			124		

Performed by [signature]

Date 3-9-98

ALPHA and BETA COUNTS AFFECTED

SURVEY #	2996	SURVEY DATE	3/4/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	1
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	105	Beta MDA dpm/100cm²	218

Instrument Serial # 133663
Probe Serial # 136345

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
WK1A		7	2	177	0 115
WK2A		7	0	156	8 562
WK3A		7	0	198	
WK4A		7	1	173	
WK5A		7	2	147	
WK6A		7	3	155	
WK7A		7	1	207	
WK8A		7	1	141	
WK9A		7	0	188	
WK10A		7	0	146	
WK11A		7	2	184	
WK12A		7	1	137	
WK13A		7	1	156	
WK14A		7	1	160	
WK15A		7	0	143	
WK16A		7	0	156	
WK17A		7	0	180	
WK1B		7	0	140	
WK2B		7	1	177	
WK3B		7	0	162	
WK4B		7	1	157	
WK5B		7	2	156	
WK6B		7	2	162	
WK7B		7	1	150	
WK8B		7	0	140	
WK9B		7	1	132	
WK10B		7	1	160	
WK11B		7	0	147	
WK12B		7	0	170	
WK13B		7	1	145	
WK14B		7	2	162	
WK15B		7	0	169	
WK16B		7	0	156	
WK17B		7	1	133	

SURVEY #	2996	SURVEY DATE	3/4/98	TECHNICIAN	EAVES		
ZONE	3	SUBZONE	NA	BUILDING	9034	COUNT TIME	1
Alpha bkg cpm	0	Alpha MDA dpm/100cm²	7	Beta bkg cpm	105	Beta MDA dpm/100cm²	218

Instrument Serial #	133663
Probe Serial #	136345

SAMPLE POINT	POINT NUMBER	ROOM	ALPHA COUNTS	BETA COUNTS	COMMENT
R01		7	0	170	
R02		7	0	179	
R03		7	0	(126)	
R04		7	1	141	
R05		7	2	145	
R06		7	0	163	
Total Sample Points:			40		

Performed by Robert A Eaves Date 3-9-98

03-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: NA STATUS: AFFECTED

BUILDING: 9034 ROOM: 7

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
F4A - F10R	EAVES	03-Mar-98	133661	139658	0 dpm/100cm² (0 cpm)	7	36.93	798 dpm/100cm² (140 cpm)	258	17.55		100 cm²
WA1A - WJ3B	EAVES	03-Mar-98	133670	139661	0 dpm/100cm² (0 cpm)	7	34.91	609 dpm/100cm² (105 cpm)	229	17.25		100 cm²
WK1A - R06	EAVES	04-Mar-98	133663	136345	0 dpm/100cm² (0 cpm)	7	36.46	579 dpm/100cm² (105 cpm)	218	18.14		100 cm²
F4A - F5J	EAVES	03-Mar-98	00926	723414							2.98	N/A
F6J - F10R	EAVES	03-Mar-98	00926	723414							2.87	N/A
WA1A - WG10B	EAVES	03-Mar-98	00926	723414							2.60	N/A
WH1A - R06	EAVES	03-Mar-98	00926	723414							2.76	N/A

03-Apr-98

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: NA STATUS: AFFECTED

BUILDING: 9034 ROOM: 7

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
F4A - F1H	26-Mar-98	1.169 dpm/100cm² (0.333 cpm)	3.380	28.5	3.333 dpm/100cm² (1.500 cpm)	3.873	45.0	
F2H - F5J	26-Mar-98	0.819 dpm/100cm² (0.233 cpm)	2.987	28.5	3.409 dpm/100cm² (1.533 cpm)	3.911	45.0	
F6J - F10R	26-Mar-98	0.240 dpm/100cm² (0.067 cpm)	2.088	27.8	2.451 dpm/100cm² (1.100 cpm)	3.411	44.9	
WA1A - WG10B	27-Mar-98	0.819 dpm/100cm² (0.233 cpm)	2.987	28.5	3.409 dpm/100cm² (1.533 cpm)	3.911	45.0	
WH1A - R06	30-Mar-98	0.949 dpm/100cm² (0.267 cpm)	3.170	28.1	2.682 dpm/100cm² (1.200 cpm)	3.547	44.7	
F4A - F5J	26-Mar-98							13.10
F6J - F10R	26-Mar-98							15.50
WA1A - WG10B	27-Mar-98							15.40
WH1A - R06	30-Mar-98							14.80

BUILDING 9034 ROOM 7

03-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 3 SUBZONE: NA STATUS: AFFECTED

BUILDING: 9034 ROOM: 7

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

	GAMMA	ALPHA		BETA		LSC
Grids	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F4A	0.91	-0.467	5.4	-0.667	410.3	-2.77
F5A	0.25	-1.169	2.7	2.889	307.7	-1.33
F6A	0.13	-0.818	10.8	1.111	245.0	-2.19
F4B	0.27	-0.467	2.7	1.555	233.6	-7.82
F5B	0.72	-0.818	0.0	1.111	102.6	-3.17
F6B	0.02	-1.169	0.0	0.667	170.9	-3.16
F8B	0.28	-0.818	0.0	0.889	205.1	-0.73
F9B	0.23	-0.467	0.0	-0.444	227.9	0.75
F10B	0.53	-0.818	0.0	0.222	193.7	-2.65
F1C	1.28	-1.169	0.0	0.889	142.5	0.24
F2C	1.01	-0.818	0.0	1.111	199.4	-1.76
F3C	1.07	-1.169	0.0	0.222	131.1	-6.74
F4C	0.09	-1.169	2.7	1.333	142.5	-3.87
F5C	0.74	-1.169	0.0	1.111	125.4	-9.10
F6C	0.37	-0.818	0.0	1.555	216.5	3.20
F7C	1.14	-0.467	2.7	0.222	11.4	-7.61
F8C	1.11	-0.467	5.4	0.667	91.2	-11.43
F9C	0.94	-0.818	5.4	0.667	153.8	-1.68

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F10C	0.90	-0.818	0.0	-0.667	250.7	-0.76
F1D	2.31	0.234	0.0	1.778	193.7	3.68
F2D	1.84	-1.169	0.0	0.444	245.0	0.75
F3D	0.88	-1.169	2.7	0.000	176.6	-11.82
F4D	0.98	-1.169	0.0	0.000	307.7	-1.76
F5D	0.37	-1.169	0.0	0.667	273.5	-3.29
F6D	1.09	-0.117	5.4	-1.111	273.5	-5.76
F7D	1.06	-0.818	0.0	2.000	245.0	-9.60
F8D	1.13	-0.117	0.0	0.000	398.9	-5.15
F9D	0.03	-0.467	2.7	-0.444	364.7	-7.79
F10D	0.62	-1.169	2.7	-0.889	222.2	-6.59
F1E	1.79	-0.818	0.0	0.667	387.5	-5.18
F2E	1.11	-1.169	5.4	0.222	336.2	5.93
F3E	0.69	-0.467	2.7	0.000	222.2	-1.73
F4E	0.79	-0.117	2.7	-0.889	353.3	0.26
F5E	0.47	-0.467	5.4	0.000	296.3	-1.21
F6E	0.88	-1.169	2.7	-0.222	216.5	-4.66
F7E	1.03	-0.818	0.0	0.000	170.9	-2.22
F8E	0.58	-0.818	2.7	-0.222	341.9	-11.07
F9E	0.11	-0.818	0.0	-0.222	302.0	-3.81
F10E	0.56	-0.467	0.0	-0.444	193.7	-1.86
F1F	1.89	-0.818	0.0	0.667	324.8	1.27
F2F	1.43	-0.818	2.7	-0.889	302.0	6.80
F3F	0.85	-0.818	5.4	-1.111	273.5	-0.75

BUILDING 9034 ROOM 7

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F4F	1.51	-0.818	2.7	0.889	302.0	-1.71
F5F	0.91	-0.818	0.0	0.667	376.1	-0.24
F6F	0.38	-0.467	0.0	0.889	199.4	2.20
F7F	0.30	-0.818	5.4	0.000	233.6	-2.73
F8F	0.88	-0.818	0.0	0.667	376.1	1.76
F9F	0.65	-0.117	8.1	0.667	336.2	-7.03
F10F	0.09	-0.117	2.7	1.111	347.6	-0.74
F1G	1.82	-0.467	5.4	1.778	284.9	-7.71
F2G	1.51	-1.169	0.0	-0.222	176.6	1.75
F3G	1.33	-0.818	2.7	0.889	364.7	1.71
F4G	0.88	-1.169	2.7	-0.222	302.0	-8.87
F5G	0.86	-0.818	0.0	-0.222	239.3	-4.25
F6G	0.80	-1.169	5.4	0.222	279.2	-0.74
F7G	0.53	-0.818	0.0	-0.444	313.4	3.65
F8G	0.39	-0.467	5.4	0.444	467.2	-2.19
F9G	0.71	-0.818	0.0	0.222	245.0	-2.79
F10G	0.92	-0.818	0.0	2.222	364.7	3.22
F1H	2.03	-1.169	10.8	1.555	284.9	-6.97
F2H	1.31	0.234	2.7	-0.519	364.7	-4.83
F3H	1.25	-0.117	2.7	-0.296	421.7	-4.57
F4H	0.99	0.585	0.0	-0.519	233.6	-2.71
F5H	1.22	-0.117	5.4	-0.964	210.8	-8.01
F6H	0.80	-0.468	0.0	-0.074	398.9	-1.68
F7H	0.83	-0.468	2.7	0.371	227.9	-3.11

BUILDING 9034 ROOM 7

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F8H	1.25	-0.468	2.7	0.593	364.7	0.71
F9H	0.35	0.234	2.7	0.593	381.8	0.24
F10H	0.99	-0.468	0.0	1.482	233.6	-6.64
F1I	0.89	-0.819	2.7	-1.186	227.9	-5.41
F2I	0.66	-0.468	0.0	0.148	330.5	-3.11
F3I	1.36	0.585	2.7	-0.074	222.2	-8.71
F4I	1.63	-0.468	2.7	1.927	239.3	-4.08
F5I	1.34	0.234	0.0	-0.074	376.1	1.83
F6I	0.81	-0.117	0.0	0.593	262.1	-7.48
F7I	0.18	-0.819	0.0	-0.519	245.0	-1.25
F8I	0.01	-0.117	5.4	-0.296	205.1	0.74
F9I	1.04	-0.468	0.0	-0.296	307.7	-2.74
F10I	0.16	-0.117	0.0	-0.964	239.3	5.11
F1J	2.19	-0.117	0.0	0.148	262.1	3.07
F2J	2.15	-0.468	2.7	0.371	393.2	-5.22
F3J	1.64	-0.819	0.0	0.148	170.9	3.73
F4J	1.00	-0.117	2.7	-0.296	290.6	-3.15
F5J	0.32	-0.468	0.0	0.148	262.1	-7.59
F6J	0.50	0.120	2.7	-0.223	302.0	-9.33
F7J	1.28	0.120	0.0	1.114	210.8	-14.35
F8J	0.79	0.120	5.4	2.005	455.8	-3.56
F9J	0.63	0.479	2.7	0.446	119.7	-13.91
F10J	0.71	0.120	2.7	2.005	444.4	-4.14
F1K	2.25	0.839	2.7	2.674	273.5	-2.61

BUILDING 9034 ROOM 7

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F2K	0.96	0.479	5.4	2.228	256.4	-8.39
F3K	0.93	0.120	0.0	0.891	284.9	-7.56
F4K	1.33	0.479	0.0	3.119	353.3	-6.01
F5K	0.69	1.198	0.0	-1.337	324.8	-5.20
F6K	1.46	0.120	0.0	1.560	233.6	-8.93
F7K	1.07	-0.240	2.7	2.451	233.6	-7.14
F8K	0.96	0.479	2.7	0.891	307.7	-7.42
F9K	1.14	-0.240	0.0	1.782	307.7	-11.77
F10K	0.64	0.479	0.0	-0.668	490.0	-8.73
F1L	2.34	0.479	2.7	1.560	370.4	-15.26
F2L	0.74	0.479	0.0	2.228	472.9	-7.44
F3L	1.34	0.479	8.1	-0.891	347.6	-9.95
F4L	1.17	1.198	0.0	2.674	353.3	-7.18
F5L	1.14	0.479	10.8	0.446	302.0	-13.66
F6L	0.55	-0.240	5.4	0.668	245.0	-6.95
F7L	1.69	0.120	2.7	0.223	421.7	-2.20
F8L	1.47	-0.240	2.7	1.114	376.1	-8.44
F9L	2.05	-0.240	0.0	0.446	347.6	-6.67
F10L	1.56	1.917	0.0	-0.223	319.1	-5.84
F1M	2.14	0.120	0 0	2.005	256.4	-3.09
F2M	2.24	0.120	0 0	-0.223	313.4	-16.76
F3M	1.85	0.120	0 0	0.891	216.5	-11.45
F4M	2.14	0.479	5 4	-0 668	433.0	-3.52
F5M	2.34	0.120	0 0	-0.223	273.5	-3.21

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F6M	0.61	0.839	0.0	-0.446	319.1	-2.16
F7M	0.97	0.120	2.7	2.005	404.6	-3.54
F8M	1.30	0.120	2.7	2.228	210.8	-2.71
F9M	0.77	-0.240	5.4	1.337	188.0	-0.24
F10M	0.84	0.120	0.0	1.337	302.0	-6.42
F1N	2.52	0.479	0.0	2.005	227.9	-12.56
F2N	1.78	0.120	0.0	-0.668	398.9	-10.06
F3N	0.64	0.120	2.7	0.000	245.0	-10.70
F4N	0.73	-0.240	2.7	0.891	262.1	-2.61
F5N	1.01	0.479	5.4	0.223	347.6	-10.31
F6N	0.85	0.120	5.4	0.668	239.3	-7.64
F7N	0.89	0.839	5.4	2.005	296.3	-0.24
F8N	1.36	0.479	2.7	2.674	307.7	-8.38
F9N	1.04	0.120	2.7	0.000	227.9	-9.13
F10N	0.82	0.479	2.7	-0.446	359.0	-3.61
F1O	1.23	0.839	5.4	0.668	199.4	-4.96
F2O	1.06	0.839	2.7	1.560	421.7	-7.40
F3O	1.18	0.479	5.4	0.668	273.5	-8.69
F4O	1.16	0.120	2.7	0.446	267.8	-12.56
F5O	0.34	0.839	2.7	1.114	427.4	-0.71
F6O	1.04	-0.240	2.7	-0.223	455.8	-5.61
F7O	0.96	0.839	5.4	1.560	267.8	-3.68
F8O	1.10	0.479	2.7	1.782	359.0	-8.41
F9O	1.26	0.120	2.7	2.005	393.2	-9.06

Grids	GAMMA Field (µR/hr)	ALPHA Lab dpm/100cm²	ALPHA Field dpm/100cm²	BETA Lab dpm/100cm²	BETA Field dpm/100cm²	LSC Lab dpm/100cm²
F10O	0.83	0.120	5.4	2.228	398.9	-17.68
F1P	1.46	1.198	8.1	0.223	193.7	-9.26
F2P	1.37	0.839	0.0	0.891	455.8	-7.85
F3P	1.24	0.120	0.0	1.114	330.5	-5.04
F4P	1.62	1.198	5.4	0.446	313.4	-13.57
F5P	1.93	0.120	0.0	0.000	227.9	-9.01
F6P	1.64	-0.240	2.7	-0.446	313.4	-9.87
F7P	1.59	0.839	5.4	2.674	433.0	-10.69
F8P	1.57	0.120	8.1	1.560	359.0	-9.85
F9P	1.07	0.120	2.7	2.005	467.2	-5.59
F10P	1.80	0.120	0.0	0.891	347.6	-15.18
F1Q	2.12	0.120	0.0	1.337	302.0	-2.19
F2Q	1.70	0.120	0.0	2.451	262.1	-10.74
F3Q	1.54	0.839	5.4	0.668	222.2	-4.13
F4Q	1.12	0.120	0 0	-0.223	210.8	-1.68
F5Q	1.42	0.120	0 0	0.223	507.1	-7.06
F6Q	0.95	0.839	0 0	1.782	490.0	-11.34
F7Q	1.19	0.479	0 0	1.114	313.4	-8.00
F8Q	1.58	0.479	5 4	1.114	359.0	-11.12
F9Q	0.87	0.479	0 0	1.114	467.2	-10.98
F10Q	1.03	0.120	5 4	1.782	410.3	-10.00
F1R	2.14	0.479	0 0	2 896	216.5	-6.08
F2R	1.10	0.120	5 4	2.005	233.6	-3.60
F3R	1.47	-0.240	0 0	1 560	387.5	-11.07

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F4R	1.85	-0.240	0.0	0.446	376.1	-10.49
F5R	1.16	-0.240	2.7	0.668	433.0	-13.32
F6R	1.64	0.479	10.8	1.560	490.0	-13.35
F7R	1.32	0.120	2.7	0.668	501.4	-7.26
F8R	1.35	0.120	2.7	3.119	302.0	-8.94
F9R	1.17	0.479	2.7	3.342	404.6	-7.01
F10R	1.51	1.198	2.7	0.891	284.9	-9.57
WA1A	0.44	-0.117	0.0	-0.296	156.5	-2.29
WA2A	-0.33	0.234	0.0	0.815	87.0	-4.11
WA3A	0.49	-0.468	2.9	-0.741	23.2	-6.44
WA1B	0.43	-0.819	2.9	0.148	11.6	-7.33
WA2B	1.06	-0.819	2.9	-1.186	-5.8	-6.48
WA3B	0.10	-0.819	0.0	-1.186	-11.6	-7.89
WB1A	0.14	-0.468	0.0	1.038	121.7	0.00
WB2A	1.22	-0.468	0.0	0.593	289.9	-6.95
WB3A	0.81	-0.819	5.7	-0.074	168.1	-9.80
WB1B	-0.08	-0.117	2.9	0.593	214.5	-5.53
WB2B	1.06	-0.819	0.0	1.482	69.6	-2.29
WB3B	1.62	-0.117	0.0	-0.296	162.3	-5.50
WC1A	0.47	-0.819	2.9	-0.296	115.9	-6.98
WC2A	0.76	-0.117	5.7	-0.964	214.5	-8.35
WC1B	0.84	-0.819	0.0	0.593	-40.6	-6.59
WC2B	0.64	-0.468	2.9	1.260	214.5	-8.76
WD1A	0.30	-0.468	2.9	-0.296	-17.4	-7.97

BUILDING 9034 ROOM 7

Grids	GAMMA Field (µR/hr)	ALPHA Lab dpm/100cm²	ALPHA Field dpm/100cm²	BETA Lab dpm/100cm²	BETA Field dpm/100cm²	LSC Lab dpm/100cm²
WD2A	0.92	-0.819	5.7	0.815	168.1	-0.95
WD1B	0.18	-0.468	5.7	-0.964	63.8	-7.98
WD2B	0.36	-0.819	8.6	0.371	226.1	5.10
WE1A	0.65	-0.819	0.0	1.705	0.0	-0.99
WE2A	0.91	-0.468	0.0	2.149	46.4	-3.51
WE3A	0.63	-0.468	2.9	-0.741	-52.2	-4.72
WE1B	0.62	-0.819	2.9	-0.296	87.0	-7.55
WE2B	0.08	-0.819	0.0	0.593	98.6	2.83
WE3B	0.31	-0.117	2.9	0.815	58.0	-1.94
WF1A	0.52	-0.117	0.0	-1.186	98.6	-8.48
WF2A	0.76	-0.468	0.0	1.260	11.6	-7.45
WF3A	0.58	-0.468	2.9	0.593	17.4	-6.58
WF4A	-0.33	-0.468	2.9	-2.298	-5.8	-7.70
WF5A	0.80	-0.468	2.9	0.815	69.6	-6.73
WF6A	0.26	0.234	0.0	1.038	52.2	-4.32
WF7A	0.65	0.234	0.0	0.593	98.6	-10.51
WF8A	0.23	0.234	2.9	-0.964	156.5	-9.53
WF9A	0.43	-0.819	0.0	0.148	150.7	-8.45
WF10A	2.26	-0.819	8.6	2.372	29.0	-8.01
WF11A	0.91	-0.468	8.6	1.260	63.8	-10.30
WF12A	0.77	-0.468	0.0	0.371	115.9	-6.57
WF13A	0.61	-0.819	8.6	-1.408	63.8	-10.67
WF14A	1.28	-0.819	5.7	1.038	-29.0	-2.83
WF15A	0.27	-0.117	0.0	-0.964	115.9	-4.17

BUILDING 9034 ROOM 7

Grids	GAMMA Field (µR/hr)	ALPHA Lab dpm/100cm²	ALPHA Field dpm/100cm²	BETA Lab dpm/100cm²	BETA Field dpm/100cm²	LSC Lab dpm/100cm²
WF16A	1.70	-0.117	2.9	0.148	220.3	-7.57
WF17A	1.20	-0.117	0.0	-0.964	144.9	-2.82
WF1B	0.49	-0.819	5.7	-0.964	-46.4	-4.62
WF2B	0.77	-0.819	0.0	1.038	-81.2	-4.20
WF3B	0.57	0.234	2.9	0.815	5.8	-7.00
WF4B	0.58	0.234	2.9	-1.631	110.1	-6.63
WF5B	1.45	-0.468	0.0	-0.964	17.4	-7.44
WF6B	0.93	-0.117	0.0	0.148	168.1	-6.09
WF7B	0.24	-0.117	0.0	-0.741	23.2	-8.88
WF8B	0.67	-0.819	5.7	-0.296	-11.6	-1.89
WF9B	0.98	-0.819	0.0	-0.519	-29.0	-11.81
WF10B	0.50	-0.819	2.9	0.371	87.0	-6.02
WF11B	1.07	-0.819	0.0	0.371	40.6	-1.41
WF12B	0.62	-0.819	2.9	-0.296	191.3	-7.01
WF13B	1.80	-0.117	5.7	-1.186	40.6	-8.95
WF14B	0.71	-0.819	0.0	-0.741	-29.0	-7.96
WF15B	0.26	-0.819	0.0	0.371	11.6	-9.65
WF16B	1.57	-0.117	0.0	1.038	-23.2	-9.84
WF17B	1.13	-0.117	5.7	-1.408	-81.2	-10.78
WG1A	1.24	-0.468	0.0	0.148	63.8	-4.69
WG2A	0.50	-0.468	2.9	0.148	81.2	-6.92
WG3A	1.47	-0.819	8.6	0.148	231.9	-5.31
WG4A	1.38	0.234	2.9	0.148	-17.4	-0.48
WG5A	0.78	-0.468	2.9	-0.519	173.9	-8.44

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WG6A	1.36	-0.117	0.0	-0.296	98.6	-10.84
WG7A	1.65	-0.819	0.0	0.148	29.0	-8.96
WG8A	1.46	-0.819	2.9	-0.519	5.8	-12.57
WG9A	2.76	-0.819	2.9	0.148	75.4	-11.42
WG10A	2.47	-0.819	0.0	0.148	34.8	1.43
WG1B	1.12	-0.117	0.0	-0.519	75.4	-9.19
WG2B	0.94	0.234	0.0	1.260	115.9	-8.06
WG3B	1.79	0.234	8.6	1.927	156.5	-5.14
WG4B	1.26	0.585	0.0	0.371	110.1	-1.93
WG5B	1.46	0.234	2.9	-0.519	231.9	-12.51
WG6B	1.17	0.234	2.9	-1.186	63.8	-5.08
WG7B	0.15	-0.468	0.0	-0.074	5.8	-0.48
WG8B	1.17	-0.117	5.7	-1.408	197.1	-3.78
WG9B	1.04	-0.468	0.0	0.148	156.5	-4.29
WG10B	2.19	0.234	0.0	0.815	58.0	-10.44
WH1A	1.03	0.119	8.6	3.576	197.1	-3.76
WH2A	2.29	-0.237	2.9	0.447	87.0	0.97
WH3A	1.70	0.119	0.0	0.447	46.4	-2.34
WH4A	1.40	-0.237	11.5	0.894	81.2	-11.79
WH5A	0.58	-0.237	0.0	1.341	237.7	-6.96
WH6A	1.12	0.119	2.9	0.671	98.6	-1.38
WH7A	1.47	-0.237	0.0	2.235	179.7	-5.61
WH8A	2.05	-0.237	0.0	0.224	197.1	1.39
WH9A	1.33	0.830	0.0	0.671	139.1	-14.91

BUILDING 9034 ROOM 7

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WH10A	0.95	0.119	2.9	1.565	144.9	-2.83
WH11A	1.50	0.119	0.0	0.671	121.7	0.00
WH12A	1.70	0.119	2.9	-0.671	81.2	-9.33
WH13A	1.39	-0.593	0.0	0.447	208.7	-4.18
WH14A	1.15	-0.593	11.5	1.341	191.3	1.87
WH15A	0.56	-0.237	2.9	0.447	272.5	-3.27
WH16A	0.57	-0.237	0.0	1.341	214.5	-7.49
WH1B	0.88	-0.237	2.9	0.671	150.7	-9.90
WH2B	1.43	-0.237	2.9	-0.224	150.7	-4.17
WH3B	1.31	-0.949	5.7	1.565	156.5	0.00
WH4B	1.08	-0.237	0.0	0.894	179.7	6.06
WH5B	1.56	-0.237	2.9	-0.447	249.3	0.47
WH6B	1.15	-0.593	2.9	2.012	121.7	-4.23
WH7B	1.43	0.119	0.0	1.118	144.9	-4.19
WH8B	1.47	0.119	5.7	0.000	63.8	0.00
WH9B	1.19	0.119	2.9	1.118	371.0	-5.54
WH10B	0.90	0.119	11.5	0.447	284.1	-1.40
WH11B	1.15	-0.593	0.0	0.000	260.9	-8.00
WH12B	0.99	0 119	2.9	0.894	104.3	-14.72
WH13B	0.10	-0.593	2 9	1.118	98.6	-6.05
WH14B	0.36	-0.237	0 0	0.224	81.2	-7.49
WH15B	1.11	-0.949	5 7	0.894	307.2	-11.76
WH16B	0.58	-0.593	0 0	2.012	255.1	-11.25
WI1A	0.69	0.119	2 9	0.671	110.1	-11.27

BUILDING 9034 ROOM 7

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WI2A	1.26	-0.593	0.0	0.671	295.7	-2.81
WI3A	0.94	-0.593	2.9	1.118	104.3	-9.72
WI1B	1.39	-0.949	2.9	1.118	173.9	-8.51
WI2B	0.55	-0.237	2.9	1.788	133.3	-6.06
WI3B	0.66	-0.237	0.0	-0.447	-23.2	-2.78
WJ1A	0.52	-0.593	2.9	0.447	179.7	-10.67
WJ2A	0.28	-0.237	2.9	0.447	75.4	-3.68
WJ3A	0.55	0.474	2.9	1.118	63.8	-1.39
WJ1B	0.36	0.119	2.9	1.565	11.6	-10.32
WJ2B	0.24	-0.949	0.0	1.341	5.8	-4.16
WJ3B	0.10	-0.237	0.0	0.447	69.6	-7.39
WK1A	0.96	-0.949	5.5	1.118	396.9	-4.38
WK2A	0.81	-0.949	0.0	1.341	281.1	-1.87
WK3A	0.30	0.119	0.0	0.000	512.7	-0.48
WK4A	0.36	-0.593	2.7	-0.447	374.9	-3.86
WK5A	0.61	0.119	5.5	-0.671	231.5	-8.40
WK6A	1.54	-0.237	8.2	0.447	275.6	0.00
WK7A	0.33	-0.237	2.7	2.012	562.3	1.94
WK8A	0.91	0.119	2.7	-0.224	198.5	1.40
WK9A	2.06	-0.593	0.0	0.671	457.6	-6.25
WK10A	1.28	-0.593	0 0	1.341	226.0	-3.79
WK11A	1.19	-0.949	5 5	0.224	435.5	0.95
WK12A	0.62	-0.593	2 7	0.894	176.4	-10.54
WK13A	0.83	0.119	2.7	1.118	281.1	1.02

BUILDING 9034 ROOM 7

Grids	GAMMA Field (µR/hr)	ALPHA Lab dpm/100cm²	ALPHA Field dpm/100cm²	BETA Lab dpm/100cm²	BETA Field dpm/100cm²	LSC Lab dpm/100cm²
WK14A	-0.26	-0.237	2.7	0.447	303.2	9.53
WK15A	0.38	-0.593	0.0	-0.447	209.5	-2.39
WK16A	1.33	0.474	0.0	0.224	281.1	3.91
WK17A	1.28	-0.949	0.0	0.224	413.5	9.09
WK1B	1.06	-0.237	0.0	-1.118	192.9	-4.77
WK2B	0.81	-0.593	2.7	2.459	396.9	2.34
WK3B	0.54	0.119	0.0	0.224	314.2	-5.68
WK4B	0.36	0.474	2.7	3.129	286.7	-4.26
WK5B	1.07	-0.949	5.5	2.459	281.1	-8.50
WK6B	0.55	0.119	5.5	2.682	314.2	-0.48
WK7B	1.03	-0.593	2.7	0.894	248.1	-0.95
WK8B	0.62	-0.949	0.0	0.894	192.9	-3.37
WK9B	0.94	-0.237	2.7	0.671	148.8	-1.47
WK10B	1.15	-0.593	2.7	1.341	303.2	3.80
WK11B	1.12	-0.237	0.0	0.224	231.5	-3.29
WK12B	1.36	-0.237	0.0	-0.224	358.3	-2.34
WK13B	1.16	-0.949	2.7	0.894	220.5	-7.14
WK14B	0.83	0.119	5.5	-0.447	314.2	0.47
WK15B	0.58	-0.593	0.0	1.565	352.8	-7.51
WK16B	0.73	-0.593	0.0	0.671	281.1	8.95
WK17B	0.88	0.830	2.7	1.118	154.4	3.34
R01	0.72	-0.949	0.0	3.576	358.3	1.99
R02	0.49	-0.593	0.0	-0.447	407.9	2.93
R03	1.04	-0.593	0.0	0.447	115.8	5.27

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R04	1.59	-0.949	2.7	1.788	198.5	3.27
R05	1.63	-0.237	5.5	2.235	220.5	0.00
R06	0.86	-0.593	0.0	1.565	319.7	-10.31

Field Survey Requirements Form

Survey Number:	2997
Date Issued:	3 4 98
Date Completed:	3 4 98

Site information

Zone:	3	Sub Zone:	NA
Bldg. #	9034	Room:	7
Grid:	F4A	Thru Grid:	F5J

Survey Type: Affected Indoor

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

- Alpha readings: ☐
- Beta readings: ☐
- Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
Wipe	84	Surface	Gross Alpha Beta
LSC Wipe	84	Surface	TRitium
	0		
	0		

Notes: PERFORM WIPE SURVEYS.

Prepared by:	Craig Miller	performed by:	EAVES
prep date:	3/4/98	performed date:	3/4/98

Chain of Custody

	Sample Description											
Laboratory ID	ar Code	Zone	Sub Zone	Building	Room	Location	#	Proximity	Sample Type	Analyses Requested		Collected	Technician
2997 .01		3	NA	9034	7	F4A	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3 4 98 10:25:01	EAVES F4A
2997 .02		3	NA	9034	7	F5A	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:25:07	EAVES F4A
2997 .03		3	NA	9034	7	F6A	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:25:14	EAVES F4A
2997 .04		3	NA	9034	7	F4B	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:27:04	EAVES F4A
2997 .05		3	NA	9034	7	F5B	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4 98 10:27:12	EAVES F4A
2997 .06		3	NA	9034	7	F6B	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:27:19	EAVES F4A
2997 .07		3	NA	9034	7	F8B	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4/98 10:27:30	EAVES F4A
2997 .08		3	NA	9034	7	F9B	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4 98 10:27:39	EAVES F4A
2997 .09		3	NA	9034	7	F10B	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:27:47	EAVES F4A
2997 .10		3	NA	9034	7	F1C	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4/98 10:27:55	EAVES F4A
2997 .11		3	NA	9034	7	F2C	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4 98 10:28:02	EAVES F4A
2997 .12		3	NA	9034	7	F3C	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:28:08	EAVES F4A
2997 .13		3	NA	9034	7	F4C	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:28:11	EAVES F4A
2997 .14		3	NA	9034	7	F5C	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:28:14	EAVES F4A

Survey Number: 2997

	Sample Description											
Laboratory ID	ar Code	Zone	Sub Zone	Building	Room	Location	#	Proximity	Sample Type	Analyses Requested		Collected	Technician
2997 .15		3	NA	9034	7	F6C	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:28:28	EAVES F4A
2997 .16		3	NA	9034	7	F7C	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:28:35	EAVES F4A
2997 .17		3	NA	9034	7	F8C	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:28:41	EAVES F4A
2997 .18		3	NA	9034	7	F9C	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:28:47	EAVES F4A
2997 .19		3	NA	9034	7	F10C	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:29:01	EAVES F4A
2997 .20		3	NA	9034	7	F1D	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3-4 98 10:29:08	EAVES F4A
2997 .21		3	NA	9034	7	F2D	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:29:13	EAVES F4A
2997 .22		3	NA	9034	7	F3D	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:29:17	EAVES F4A
2997 .23		3	NA	9034	7	F4D	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:29:22	EAVES F4A
2997 .24		3	NA	9034	7	F5D	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:29:27	EAVES F4A
2997 .25		3	NA	9034	7	F6D	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:29:32	EAVES F4A
2997 .26		3	NA	9034	7	F7D	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:29:39	EAVES F4A
2997 .27		3	NA	9034	7	F8D	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4/98 10:29:44	EAVES F4A
2997 .28		3	NA	9034	7	F9D	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:29:50	EAVES F4A
2997 .29		3	NA	9034	7	F10D	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:30:00	EAVES F4A

Survey Number: 2997

Sample Description

Laboratory ID	ar Code	Zone	Sub Zone	Building	Room	Location	#	Proximity	Sample Type	Analyses Requested		Collected	Technician
2997 .30		3	NA	9034	7	F1E	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:30:16	EAVES F4A
2997 .31		3	NA	9034	7	F2E	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:30:21	EAVES F4A
2997 .32		3	NA	9034	7	F3E	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:30:30	EAVES F4A
2997 .33		3	NA	9034	7	F4E	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:30:35	EAVES F4A
2997 .34		3	NA	9034	7	F5E	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:30:39	EAVES F4A
2997 .35		3	NA	9034	7	F6E	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:30:44	EAVES F4A
2997 .36		3	NA	9034	7	F7E	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:30:50	EAVES F4A
2997 .37		3	NA	9034	7	F8E	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:30:56	EAVES F4A
2997 .38		3	NA	9034	7	F9E	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:31:01	EAVES F4A
2997 .39		3	NA	9034	7	F10E	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:31:07	EAVES F4A
2997 .40		3	NA	9034	7	F1F	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:31:16	EAVES F4A
2997 .41		3	NA	9034	7	F2F	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:31:21	EAVES F4A
2997 .42		3	NA	9034	7	F3F	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:31:29	EAVES F4A
2997 .43		3	NA	9034	7	F4F	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:31:55	EAVES F4A
2997 .44		3	NA	9034	7	F5F	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4/98 10:31:58	EAVES F4A

	Sample Description												
Laboratory ID	ar Code	Zone	Sub Zone	Building	Room	Location	#	Proximity	Sample Type	Analyses Requested		Collected	Technician
2997 .45		3	NA	9034	7	F6F	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3-4 98 10:32:02	EAVES F4A
2997 .46		3	NA	9034	7	F7F	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3-4 98 10:32:05	EAVES F4A
2997 .47		3	NA	9034	7	F8F	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3-4 98 10:32:10	EAVES F4A
2997 .48		3	NA	9034	7	F9F	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3-4 98 10:32:15	EAVES F4A
2997 .49		3	NA	9034	7	F10F	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3-4 98 10:32:21	EAVES F4A
2997 .50		3	NA	9034	7	F1G	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3-4 98 10:32:32	EAVES F4A
2997 .51		3	NA	9034	7	F2G	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3-4 98 10:32:38	EAVES F4A
2997 .52		3	NA	9034	7	F3G	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3-4 98 10:32:42	EAVES F4A
2997 .53		3	NA	9034	7	F4G	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4 98 10:32:46	EAVES F4A
2997 .54		3	NA	9034	7	F5G	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3-4 98 10:32:51	EAVES F4A
2997 .55		3	NA	9034	7	F6G	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3-4 98 10:32:57	EAVES F4A
2997 .56		3	NA	9034	7	F7G	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3-4 98 10:33:01	EAVES F4A
2997 .57		3	NA	9034	7	F8G	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3/4 98 10:33:06	EAVES F4A
2997 .58		3	NA	9034	7	F9G	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3-4 98 10:33:11	EAVES F4A
2997 .59		3	NA	9034	7	F10G	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3-4 98 10:33:16	EAVES F4A

	Sample Description												
Laboratory ID	ar Code	Zone	Sub Zone	Building	Room	Location	#	Proximity	Sample Type	Analyses Requested		Collected	Technician
2997 .60		3	NA	9034	7	F1H	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:33:33	EAVES F4A
2997 .61		3	NA	9034	7	F2H	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:33:38	EAVES F4A
2997 .62		3	NA	9034	7	F3H	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:33:44	EAVES F4A
2997 .63		3	NA	9034	7	F4H	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:33:51	EAVES F4A
2997 .64		3	NA	9034	7	F5H	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:33:55	EAVES F4A
2997 .65		3	NA	9034	7	F6H	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:34:00	EAVES F4A
2997 .66		3	NA	9034	7	F7H	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:34:04	EAVES F4A
2997 .67		3	NA	9034	7	F8H	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:34:08	EAVES F4A
2997 .68		3	NA	9034	7	F9H	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:34:14	EAVES F4A
2997 .69		3	NA	9034	7	F10H	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:34:25	EAVES F4A
2997 .70		3	NA	9034	7	F1I	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:34:34	EAVES F4A
2997 .71		3	NA	9034	7	F2I	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:34:40	EAVES F4A
2997 .72		3	NA	9034	7	F3I	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:34:46	EAVES F4A
2997 .73		3	NA	9034	7	F4I	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:34:52	EAVES F4A
2997 .74		3	NA	9034	7	F5I	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3/4/98 10:34:57	EAVES F4A

Sample Description												
Laboratory ID	ar Code	Zone	Sub Zone	Building	Room	Location	#	Proximity	Sample Type	Analyses Requested		Collected	Technician
2997 .75		3	NA	9034	7	F6I	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3 4 98 10:35:03	EAVES F4A
2997 .76		3	NA	9034	7	F7I	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:35:08	EAVES F4A
2997 .77		3	NA	9034	7	F8I	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:35:12	EAVES F4A
2997 .78		3	NA	9034	7	F9I	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:35:19	EAVES F4A
2997 .79		3	NA	9034	7	F10I	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3 4 98 10:35:25	EAVES F4A
2997 .80		3	NA	9034	7	F1J	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:35:42	EAVES F4A
2997 .81		3	NA	9034	7	F2J	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3 4 98 10:35:52	EAVES F4A
2997 .82		3	NA	9034	7	F3J	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3 4 98 10:35:57	EAVES F4A
2997 .83		3	NA	9034	7	F4J	2	SURFACE	WIPES	GROSS ALPHA/BETA	TRITIUM	3 4 98 10:36:05	EAVES F4A
2997 .84		3	NA	9034	7	F5J	2	SURFACE	WIPES	GROSS ALPHA BETA	TRITIUM	3 4 98 10:36:12	EAVES F4A

Sample Description												
Laboratory ID	ar Code	Zone	Sub Zone	Building	Room	Location	#	Proximity	Sample Type	Analyses Requested	Collected	Technician

Comments:

Relinquished by: [signature] **Date:** 3/4/98 **Time:** 1505 **Received by:** [signature] **Purpose:** LOG-IN

Relinquished by: _____ **Date:** _____ **Time:** _____ **Received by:** _____ **Purpose:** _____

Relinquished by: _____ **Date:** _____ **Time:** _____ **Received by:** _____ **Purpose:** _____

Relinquished by: _____ **Date:** _____ **Time:** _____ **Received by:** _____ **Purpose:** _____

Relinquished by: _____ **Date:** _____ **Time:** _____ **Received by:** _____ **Purpose:** _____

Sample Log-in Check Sheet

Survey # 2997

	Yes	No
Does the survey number on the requirements form match the laboratory identification number on the Chain-of-Custody?.....	✓	
Do samples correlate with the data listed on the Chain-of-Custody?.....	✓	
Are all samples labeled and intact?.....	✓	
Are the sample labels complete and legible?.....	✓	
Are samples of sufficient volume to complete the analyses required?.....	✓	
Were duplicate soil samples collected at a rate of at least 10%?.....	N/A	
Has the data contained on the Chain-of-Custody been appended to the master log?.....	✓	
Is the Chain-of-Custody complete and signed?.....	✓	

Statement:

I agree that the above information is correct and the sample log-in procedure was completed correctly and in accordance with all corresponding Standard Operating Procedures.

Signature: _____ Date: 3.4.98

Instructions:

If all of the above questions are answered "YES", attach this form to the other documentation and copy the package. Place the original in a corresponding file and the copy with the samples. If any of the above questions are answered "NO", prepare the non-conformance statement below and see the project manager immediately.

Non-Conformance:

Explain the nature of the non-conformance:

Explain corrective actions taken:

Disposition (circle applicable):

Sample label corrected	Site map amended	Chain-of Custody amended
Additional volume Collected	Additional duplicates collected	Tentative log-in: review pending
Sample recollected/replaced	Samples rejected	Survey package rejected

Supervisory Review complete (y/n): Y Supervisors Initials: _____

CECOM RADIOLOGICAL ENGINEERING LABORATORY

Sample Chronicle

Survey Number: 2997

Date	Time	Action/Operation	Technician
3.4.98	1505	SAMPLE LOG-IN	TM
3.26.98	1100	GSC ANALYSIS	TM
3.26.98	1100	α/β ANALYSIS	TM
4/2/98	0900	Archive	JE

LB5100-W Low Background Counting System -- Smear Analysis

Date: 3/27/98
Counting Unit Id: 1
Data file name: [2997.XLD]SMEARAB2
Batch Ended: 3/26/98 23:28
Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 5.00
Beta activity action level (DPM): 20.00
Certainty level for MDA and flags: 95.00%
High Voltage Setting: 1500

Application Revision: 2.1.4
Application Version: Standard

Alpha efficiency log file: QCALPHA
Alpha Efficiency: 28.53%
Alpha to Beta Crosstalk: 18.65%
Alpha Background (CPM): 0.333333333
Alpha Correction Factor: 1.000

Beta efficiency log file: QCBETA
Beta Efficiency: 45.00%
Beta into Alpha Crosstalk: 0.31%
Beta Background (CPM): 1.5
Beta Correction Factor: 1.000

Batch ID: 2997

	Alpha Activity				Beta Activity						
Carrier	DPM	1σ	flags	MDA	DPM	1σ	flags	MDA	Count time (min)	Alpha CPM	Beta CPM	Completion Date - Time
1	-0.467	0.62	<MDA	3.38	-0.67	0.92	<MDA	3.87	10.00	-0.133	-0.30	3/26/98 11:24
2	-1.169	0.51	<MDA	3.38	2.89	1.28	<AL	3.87	10.00	-0.333	1.30	3/26/98 11:34
3	-0.818	0.51	<MDA	3.38	1.11	1.11	<MDA	3.87	10.00	-0.233	0.50	3/26/98 11:44
4	-0.467	0.62	<MDA	3.38	1.56	1.16	<MDA	3.87	10.00	-0.133	0.70	3/26/98 11:55
5	-0.818	0.51	<MDA	3.38	1.11	1.11	<MDA	3.87	10.00	-0.233	0.50	3/26/98 12:05
6	-1.169	0.51	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.333	0.30	3/26/98 12:15
7	-0.818	0.51	<MDA	3.38	0.89	1.09	<MDA	3.87	10.00	-0.233	0.40	3/26/98 12:25
8	-0.467	0.62	<MDA	3.38	-0.44	0.94	<MDA	3.87	10.00	-0.133	-0.20	3/26/98 12:35
9	-0.818	0.51	<MDA	3.38	0.22	1.02	<MDA	3.87	10.00	-0.233	0.10	3/26/98 12:45
10	-1.169	0.51	<MDA	3.38	0.89	1.09	<MDA	3.87	10.00	-0.333	0.40	3/26/98 12:56
11	-0.818	0.51	<MDA	3.38	1.11	1.11	<MDA	3.87	10.00	-0.233	0.50	3/26/98 13:06
12	-1.169	0.51	<MDA	3.38	0.22	1.02	<MDA	3.87	10.00	-0.333	0.10	3/26/98 13:16
13	-1.169	0.51	<MDA	3.38	1.33	1.13	<MDA	3.87	10.00	-0.333	0.60	3/26/98 13:26
14	-1.169	0.51	<MDA	3.38	1.11	1.11	<MDA	3.87	10.00	-0.333	0.50	3/26/98 13:36
15	-0.818	0.51	<MDA	3.38	1.56	1.16	<MDA	3.87	10.00	-0.233	0.70	3/26/98 13:47
16	-0.467	0.62	<MDA	3.38	0.22	1.02	<MDA	3.87	10.00	-0.133	0.10	3/26/98 13:57
17	-0.467	0.62	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.133	0.30	3/26/98 14:07
18	-0.818	0.51	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.233	0.30	3/26/98 14:17
19	-0.818	0.51	<MDA	3.38	-0.67	0.92	<MDA	3.87	10.00	-0.233	-0.30	3/26/98 14:27
20	0.234	0.79	<MDA	3.38	1.78	1.18	<AL	3.87	10.00	0.067	0.80	3/26/98 14:37
103	40053.062	1338.93	>AL	3.38	5809.36	107.31	>AL	3.87	10.00	11425.167	2614.40	3/26/98 14:48
104	516.972	21.87	>AL	3.38	78207.07	1367.39	>AL	3.87	10.00	147.467	35195.70	3/26/98 14:58
21	-1.169	0.51	<MDA	3.38	0.44	1.04	<MDA	3.87	10.00	-0.333	0.20	3/26/98 15:08
22	-1.169	0.51	<MDA	3.38	0.00	0.99	<MDA	3.87	10.00	-0.333	0.00	3/26/98 15:19
23	-1.169	0.51	<MDA	3.38	0.00	0.99	<MDA	3.87	10.00	-0.333	0.00	3/26/98 15:29
24	-1.169	0.51	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.333	0.30	3/26/98 15:39

LB5100-W Low Background Counting System -- Smear Analysis

Date: 3/27/98
Counting Unit id: 1
Data file name: [2997.XLD]SMEARAB2
Batch Ended: 3/26/98 23:28
Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 5.00
Beta activity action level (DPM): 20.00
Certainty level for MDA and flags: 95.00%
High Voltage Setting: 1500

Application Revision: 2.1.4
Application Version: Standard

Alpha efficiency log file: QCALPHA
Alpha Efficiency: 28.53%
Alpha to Beta Crosstalk: 18.65%
Alpha Background (CPM): 0.333333333
Alpha Correction Factor: 1.000

Beta efficiency log file: QCBETA
Beta Efficiency: 45.00%
Beta into Alpha Crosstalk: 0.31%
Beta Background (CPM): 1.5
Beta Correction Factor: 1.000

Batch ID: 2997

	Alpha Activity				Beta Activity							
Carrier	DPM	1σ	flags	MDA	DPM	1σ	flags	MDA	Count time (min)	Alpha CPM	Beta CPM	Completion Date - Time
25	-0.117	0.71	<MDA	3.38	-1.11	0.86	<MDA	3.87	10.00	-0.033	-0.50	3/26/98 15:49
26	-0.818	0.51	<MDA	3.38	2.00	1.20	<AL	3.87	10.00	-0.233	0.90	3/26/98 15:59
27	-0.117	0.71	<MDA	3.38	0.00	0.99	<MDA	3.87	10.00	-0.033	0.00	3/26/98 16:09
28	-0.467	0.62	<MDA	3.38	-0.44	0.94	<MDA	3.87	10.00	-0.133	-0.20	3/26/98 16:20
29	-1.169	0.51	<MDA	3.38	-0.89	0.89	<MDA	3.87	10.00	-0.333	-0.40	3/26/98 16:30
30	-0.818	0.51	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.233	0.30	3/26/98 16:40
31	-1.169	0.51	<MDA	3.38	0.22	1.02	<MDA	3.87	10.00	-0.333	0.10	3/26/98 16:50
32	-0.467	0.62	<MDA	3.38	0.00	0.99	<MDA	3.87	10.00	-0.133	0.00	3/26/98 17:00
33	-0.117	0.71	<MDA	3.38	-0.89	0.89	<MDA	3.87	10.00	-0.033	-0.40	3/26/98 17:11
34	-0.467	0.62	<MDA	3.38	0.00	0.99	<MDA	3.87	10.00	-0.133	0.00	3/26/98 17:21
35	-1.169	0.51	<MDA	3.38	-0.22	0.97	<MDA	3.87	10.00	-0.333	-0.10	3/26/98 17:31
36	-0.818	0.51	<MDA	3.38	0.00	0.99	<MDA	3.87	10.00	-0.233	0.00	3/26/98 17:41
37	-0.818	0.51	<MDA	3.38	-0.22	0.97	<MDA	3.87	10.00	-0.233	-0.10	3/26/98 17:51
38	-0.818	0.51	<MDA	3.38	-0.22	0.97	<MDA	3.87	10.00	-0.233	-0.10	3/26/98 18:01
39	-0.467	0.62	<MDA	3.38	-0.44	0.94	<MDA	3.87	10.00	-0.133	-0.20	3/26/98 18:12
40	-0.818	0.51	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.233	0.30	3/26/98 18:22
124	39742.107	1328.58	>AL	3.38	5680.26	105.06	>AL	3.87	10.00	11336.467	2556.30	3/26/98 18:32
125	546.069	22.86	>AL	3.38	81139.08	1418.41	>AL	3.87	10.00	155.767	36515.20	3/26/98 18:43
41	-0.818	0.51	<MDA	3.38	-0.89	0.89	<MDA	3.87	10.00	-0.233	-0.40	3/26/98 18:53
42	-0.818	0.51	<MDA	3.38	-1.11	0.86	<MDA	3.87	10.00	-0.233	-0.50	3/26/98 19:03
43	-0.818	0.51	<MDA	3.38	0.89	1.09	<MDA	3.87	10.00	-0.233	0.40	3/26/98 19:13
44	-0.818	0.51	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.233	0.30	3/26/98 19:23
45	-0.467	0.62	<MDA	3.38	0.89	1.09	<MDA	3.87	10.00	-0.133	0.40	3/26/98 19:34
46	-0.818	0.51	<MDA	3.38	0.00	0.99	<MDA	3.87	10.00	-0.233	0.00	3/26/98 19:44
47	-0.818	0.51	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.233	0.30	3/26/98 19:54
48	-0.117	0.71	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.033	0.30	3/26/98 20:04
49	-0.117	0.71	<MDA	3.38	1.11	1.11	<MDA	3.87	10.00	-0.033	0.50	3/26/98 20:14
50	-0.467	0.62	<MDA	3.38	1.78	1.18	<AL	3.87	10.00	-0.133	0.80	3/26/98 20:24
51	-1.169	0.51	<MDA	3.38	-0.22	0.97	<MDA	3.87	10.00	-0.333	-0.10	3/26/98 20:35

LB5100-W Low Background Counting System -- Smear Analysis

Date: 3/27/98
Counting Unit id: 1
Data file name: [2997.XLD]SMEARAB2
Batch Ended: 3/26/98 23:28
Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 5.00
Beta activity action level (DPM): 20.00
Certainty level for MDA and flags: 95.00%
High Voltage Setting: 1500

Application Revision: 2.1.4
Application Version: Standard

Alpha efficiency log file: QCALPHA
Alpha Efficiency: 28.53%
Alpha to Beta Crosstalk: 18.65%
Alpha Background (CPM): 0.333333333
Alpha Correction Factor: 1.000

Beta efficiency log file: QCBETA
Beta Efficiency: 45.00%
Beta into Alpha Crosstalk: 0.31%
Beta Background (CPM): 1.5
Beta Correction Factor: 1.000

Batch ID: 2997

	Alpha Activity				Beta Activity							
Carrier	DPM	1σ	flags	MDA	DPM	1σ	flags	MDA	Count time (min)	Alpha CPM	Beta CPM	Completion Date - Time
52	-0.818	0.51	<MDA	3.38	0.89	1.09	<MDA	3.87	10.00	-0.233	0.40	3/26/98 20:45
53	-1.169	0.51	<MDA	3.38	-0.22	0.97	<MDA	3.87	10.00	-0.333	-0.10	3/26/98 20:55
54	-0.818	0.51	<MDA	3.38	-0.22	0.97	<MDA	3.87	10.00	-0.233	-0.10	3/26/98 21:05
55	-1.169	0.51	<MDA	3.38	0.22	1.02	<MDA	3.87	10.00	-0.333	0.10	3/26/98 21:15
56	-0.818	0.51	<MDA	3.38	-0.44	0.94	<MDA	3.87	10.00	-0.233	-0.20	3/26/98 21:25
57	-0.467	0.62	<MDA	3.38	0.44	1.04	<MDA	3.87	10.00	-0.133	0.20	3/26/98 21:36
58	-0.818	0.51	<MDA	3.38	0.22	1.02	<MDA	3.87	10.00	-0.233	0.10	3/26/98 21:46
59	-0.818	0.51	<MDA	3.38	2.22	1.22	<AL	3.87	10.00	-0.233	1.00	3/26/98 21:56
60	-1.169	0.51	<MDA	3.38	1.56	1.16	<MDA	3.87	10.00	-0.333	0.70	3/26/98 22:06
109	42014.494	1404.24	>AL	3.38	5970.24	110.12	>AL	3.87	10.00	11984.667	2686.80	3/26/98 22:17
110	498.392	21.23	>AL	3.38	77596.45	1356.78	>AL	3.87	10.00	142.167	34920.90	3/26/98 22:27
61	-0.818	0.51	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.233	0.30	3/26/98 22:37
62	-0.467	0.62	<MDA	3.38	1.33	1.13	<MDA	3.87	10.00	-0.133	0.60	3/26/98 22:47
63	-1.169	0.51	<MDA	3.38	2.67	1.26	<AL	3.87	10.00	-0.333	1.20	3/26/98 22:58
64	-0.818	0.51	<MDA	3.38	0.67	1.07	<MDA	3.87	10.00	-0.233	0.30	3/26/98 23:08
65	0.234	0.79	<MDA	3.38	-0.44	0.94	<MDA	3.87	10.00	0.067	-0.20	3/26/98 23:18
66	0.935	0.94	<MDA	3.38	-1.33	0.83	<MDA	3.87	10.00	0.267	-0.60	3/26/98 23:28

Carrier	Chan 0	Chan 1	Chan 2	Chan 3	Chan 4	Chan 5	Chan 6	Guard	Time	Aquisition	Main Bias	Aux Bias	Date/Time
1	2	12	15	0	0	0	10.0122	1986	10	0	1500	0	35880.4754
2	0	28	28	0	0	0	10.0117	1912	10	0	1500	0	35880.4825
3	1	20	21	0	0	0	10.0121	1979	10	0	1500	0	35880.4895
4	2	22	25	0	0	0	10.0117	1908	10	0	1500	0	35880.4966
5	1	20	21	0	0	0	10.012	1956	10	0	1500	0	35880.5036
6	0	18	18	0	0	0	10.0119	1936	10	0	1500	0	35880.5107
7	1	19	20	0	0	0	10.0121	1965	10	0	1500	0	35880.5178
8	2	13	15	0	0	0	10.012	1956	10	0	1500	0	35880.5248
9	1	16	18	0	0	0	10.0118	1927	10	0	1500	0	35880.5319
10	0	19	21	0	0	0	10.0119	1941	10	0	1500	0	35880.539
11	1	20	21	0	0	0	10.0121	1969	10	0	1500	0	35880.546
12	0	16	16	0	0	0	10.0119	1944	10	0	1500	0	35880.5531
13	0	21	21	0	0	0	10.012	1959	10	0	1500	0	35880.5602
14	0	20	20	0	0	0	10.0122	1978	10	0	1500	0	35880.5672
15	1	22	23	0	0	0	10.0126	2059	10	0	1500	0	35880.5743
16	2	16	18	0	0	0	10.0122	1989	10	0	1500	0	35880.5814
17	2	18	20	0	0	0	10.0118	1931	10	0	1500	0	35880.5884
18	1	18	19	0	0	0	10.0123	1999	10	0	1500	0	35880.5955
19	1	12	13	0	0	0	10.0118	1922	10	0	1500	0	35880.6026
20	4	23	27	0	0	0	10.0118	1926	10	0	1500	0	35880.6096
103	114255	26159	141980	0	0	0	10.1643	1962	10	0	1500	0	35880.6168
104	1478	351972	360539	0	0	0	10.3808	2143	10	0	1500	0	35880.6241
21	0	17	18	0	0	0	10.0119	1945	10	0	1500	0	35880.6312
22	0	15	15	0	0	0	10.0121	1978	10	0	1500	0	35880.6383
23	0	15	15	0	0	0	10.0124	2016	10	0	1500	0	35880.6453

24	0	18	18	0	0	0	10.0118	1916	10	0	1500	0	35880.6524
25	3	10	13	0	0	0	10.0119	1941	10	0	1500	0	35880.6595
26	1	24	25	0	0	0	10.0122	1985	10	0	1500	0	35880.6665
27	3	15	18	0	0	0	10.0114	1852	10	0	1500	0	35880.6736
28	2	13	16	0	0	0	10.0119	1945	10	0	1500	0	35880.6807
29	0	11	11	0	0	0	10.0119	1944	10	0	1500	0	35880.6877
30	1	18	20	0	0	0	10.0116	1891	10	0	1500	0	35880.6948
31	0	16	16	0	0	0	10.0124	2017	10	0	1500	0	35880.7019
32	2	15	18	0	0	0	10.0115	1879	10	0	1500	0	35880.7089
33	3	11	15	0	0	0	10.0121	1976	10	0	1500	0	35880.716
34	2	15	17	0	0	0	10.0121	1969	10	0	1500	0	35880.7231
35	0	14	14	0	0	0	10.012	1960	10	0	1500	0	35880.7301
36	1	15	16	0	0	0	10.012	1952	10	0	1500	0	35880.7372
37	1	14	15	0	0	0	10.0128	2082	10	0	1500	0	35880.7442
38	1	14	16	0	0	0	10.0116	1897	10	0	1500	0	35880.7513
39	2	13	16	0	0	0	10.0118	1912	10	0	1500	0	35880.7584
40	1	18	19	0	0	0	10.012	1945	10	0	1500	0	35880.7655
124	113368	25578	140479	0	0	0	10.1628	1997	10	0	1500	0	35880.7726
125	1561	365167	374218	0	0	0	10.3947	2112	10	0	1500	0	35880.78
41	1	11	13	0	0	0	10.0119	1945	10	0	1500	0	35880.787
42	1	10	11	0	0	0	10.0116	1884	10	0	1500	0	35880.7941
43	1	19	21	0	0	0	10.012	1956	10	0	1500	0	35880.8012
44	1	18	19	0	0	0	10.0121	1964	10	0	1500	0	35880.8082
45	2	19	21	0	0	0	10.0123	1996	10	0	1500	0	35880.8153
46	1	15	16	0	0	0	10.0118	1916	10	0	1500	0	35880.8224
47	1	18	19	0	0	0	10.0116	1902	10	0	1500	0	35880.8294
48	3	18	21	0	0	0	10.0121	1973	10	0	1500	0	35880.8365
49	3	20	23	0	0	0	10.012	1955	10	0	1500	0	35880.8436
50	2	23	25	0	0	0	10.0121	1967	10	0	1500	0	35880.8506

51	0	14	14	0	0	0	10.0122	1989	10	0	1500	0	35880.8577
52	1	19	21	0	0	0	10.0126	2056	10	0	1500	0	35880.8648
53	0	14	14	0	0	0	10.0121	1970	10	0	1500	0	35880.8718
54	1	14	16	0	0	0	10.0118	1924	10	0	1500	0	35880.8789
55	0	16	16	0	0	0	10.0117	1897	10	0	1500	0	35880.886
56	1	13	14	0	0	0	10.0124	2018	10	0	1500	0	35880.893
57	2	17	19	0	0	0	10.0118	1926	10	0	1500	0	35880.9001
58	1	16	17	0	0	0	10.0126	2049	10	0	1500	0	35880.9072
59	1	25	26	0	0	0	10.0124	2018	10	0	1500	0	35880.9142
60	0	22	22	0	0	0	10.0122	1980	10	0	1500	0	35880.9213
109	119850	26883	148255	0	0	0	10.1711	1946	10	0	1500	0	35880.9285
110	1425	349224	357711	0	0	0	10.3771	2001	10	0	1500	0	35880.9358
61	1	18	19	0	0	0	10.0123	2002	10	0	1500	0	35880.9429
62	2	21	24	0	0	0	10.0122	1984	10	0	1500	0	35880.9499
63	0	27	28	0	0	0	10.0121	1962	10	0	1500	0	35880.957
64	1	18	19	0	0	0	10.0118	1929	10	0	1500	0	35880.9641
65	4	13	19	0	0	0	10.0123	2001	10	0	1500	0	35880.9711
66	6	9	15	0	0	0	10.012	1961	10	0	1500	0	35880.9782

LB5100-W Low Background Counting System -- Smear Analysis

Date: 3/30/98
Counting Unit id: 1
Data file name: I2997A.XLD|SMEARAB2
Batch Ended: 3/27/98 15:18
Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 5.00
Beta activity action level (DPM): 20.00
Certainty level for MDA and flags: 95.00%
High Voltage Setting: 1500

Application Revision: 2.1.4
Application Version: Standard

Alpha efficiency log file: QCALPHA
Alpha Efficiency: 28.49%
Alpha to Beta Crosstalk: 18.55%
Alpha Background (CPM): 0.233333333
Alpha Correction Factor: 1.000

Beta efficiency log file: QCBETA
Beta Efficiency: 44.97%
Beta into Alpha Crosstalk: 0.36%
Beta Background (CPM): 1.533333333
Beta Correction Factor: 1.000

Batch ID: 2997

	Alpha Activity				Beta Activity							
Carrier	DPM	1σ	flags	MDA	DPM	1σ	flags	MDA	Count time (min)	Alpha CPM	Beta CPM	Completion Date - Time
61	0.234	0.68	<MDA	2.99	-0.52	0.95	<MDA	3.91	10.00	0.067	-0.23	3/27/98 10:42
62	-0.117	0.59	<MDA	2.99	-0.30	0.97	<MDA	3.91	10.00	-0.033	-0.13	3/27/98 10:53
63	0.585	0.77	<MDA	2.99	-0.52	0.95	<MDA	3.91	10.00	0.167	-0.23	3/27/98 11:03
64	-0.117	0.59	<MDA	2.99	-0.96	0.89	<MDA	3.91	10.00	-0.033	-0.43	3/27/98 11:13
65	-0.468	0.47	<MDA	2.99	-0.07	1.00	<MDA	3.91	10.00	-0.133	-0.03	3/27/98 11:23
66	-0.468	0.47	<MDA	2.99	0.37	1.05	<MDA	3.91	10.00	-0.133	0.17	3/27/98 11:33
67	-0.468	0.47	<MDA	2.99	0.59	1.07	<MDA	3.91	10.00	-0.133	0.27	3/27/98 11:43
68	0.234	0.68	<MDA	2.99	0.59	1.07	<MDA	3.91	10.00	0.067	0.27	3/27/98 11:54
69	-0.468	0.47	<MDA	2.99	1.48	1.16	<MDA	3.91	10.00	-0.133	0.67	3/27/98 12:04
70	-0.819	0.47	<MDA	2.99	-1.19	0.86	<MDA	3.91	10.00	-0.233	-0.53	3/27/98 12:14
71	-0.468	0.47	<MDA	2.99	0.15	1.02	<MDA	3.91	10.00	-0.133	0.07	3/27/98 12:24
72	0.585	0.77	<MDA	2.99	-0.07	1.00	<MDA	3.91	10.00	0.167	-0.03	3/27/98 12:34
73	-0.468	0.47	<MDA	2.99	1.93	1.20	<AL	3.91	10.00	-0.133	0.87	3/27/98 12:44
74	0.234	0.68	<MDA	2.99	-0.07	1.00	<MDA	3.91	10.00	0.067	-0.03	3/27/98 12:55
75	-0.117	0.59	<MDA	2.99	0.59	1.07	<MDA	3.91	10.00	-0.033	0.27	3/27/98 13:05
76	-0.819	0.47	<MDA	2.99	-0.52	0.95	<MDA	3.91	10.00	-0.233	-0.23	3/27/98 13:15
77	-0.117	0.59	<MDA	2.99	-0.30	0.97	<MDA	3.91	10.00	-0.033	-0.13	3/27/98 13:25
78	-0.468	0.47	<MDA	2.99	-0.30	0.97	<MDA	3.91	10.00	-0.133	-0.13	3/27/98 13:35
79	-0.117	0.59	<MDA	2.99	-0.96	0.89	<MDA	3.91	10.00	-0.033	-0.43	3/27/98 13:45
80	-0.117	0.59	<MDA	2.99	0.15	1.02	<MDA	3.91	10.00	-0.033	0.07	3/27/98 13:56
107	40183.956	1343.31	>AL	2.99	5656.75	104.66	>AL	3.91	10.00	11447.367	2544.07	3/27/98 14:06
108	548.546	22.95	>AL	2.99	77773.76	1359.86	>AL	3.91	10.00	156.267	34977.97	3/27/98 14:17
81	-0.468	0.47	<MDA	2.99	0.37	1.05	<MDA	3.91	10.00	-0.133	0.17	3/27/98 14:27
82	-0.819	0.47	<MDA	2.99	0.15	1.02	<MDA	3.91	10.00	-0.233	0.07	3/27/98 14:37
83	-0.117	0.59	<MDA	2.99	-0.30	0.97	<MDA	3.91	10.00	-0.033	-0.13	3/27/98 14:47
84	-0.468	0.47	<MDA	2.99	0.15	1.02	<MDA	3.91	10.00	-0.133	0.07	3/27/98 14:57

LB5100-W Low Background Counting System -- Smear Analysis

Date: 3/30/98
Counting Unit id: 1
Data file name: [2997A.XLD]SMEARAB2
Batch Ended: 3/27/98 15:18
Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 5.00
Beta activity action level (DPM): 20.00
Certainty level for MDA and flags: 95.00%
High Voltage Setting: 1500

Application Revision: 2.1.4
Application Version: Standard

Alpha efficiency log file: QCALPHA
Alpha Efficiency: 28.49%
Alpha to Beta Crosstalk: 18.55%
Alpha Background (CPM): 0.233333333
Alpha Correction Factor: 1.000

Beta efficiency log file: QCBETA
Beta Efficiency: 44.97%
Beta into Alpha Crosstalk: 0.36%
Beta Background (CPM): 1.533333333
Beta Correction Factor: 1.000

Batch ID: 2997

	Alpha Activity				Beta Activity				Count	Alpha	Beta	Completion
Carrier	DPM	1σ	flags	MDA	DPM	1σ	flags	MDA	time (min)	CPM	CPM	Date - Time
146	39420.461	1317.88	>AL	2.99	5671.20	104.91	>AL	3.91	10.00	11229.867	2550.57	3/27/98 15:08
147	616.647	25.27	>AL	2.99	82452.02	1441.27	>AL	3.91	10.00	175.667	37081.97	3/27/98 15:18

Carrier	Chan 0	Chan 1	Chan 2	Chan 3	Chan 4	Chan 5	Chan 6	Guard	Time	Aquisition	Main Bias	Aux Bias	Date/Time
61	3	13	16	0	0	0	10.0117	1906	10	0	1500	0	35881.4464
62	2	14	16	0	0	0	10.0122	1988	10	0	1500	0	35881.4535
63	4	13	17	0	0	0	10.0121	1974	10	0	1500	0	35881.4606
64	2	11	13	0	0	0	10.0122	1988	10	0	1500	0	35881.4676
65	1	15	16	0	0	0	10.0123	2011	10	0	1500	0	35881.4747
66	1	17	18	0	0	0	10.0122	1978	10	0	1500	0	35881.4818
67	1	18	19	0	0	0	10.0121	1968	10	0	1500	0	35881.4888
68	3	18	22	0	0	0	10.0121	1968	10	0	1500	0	35881.4959
69	1	22	23	0	0	0	10.0124	2023	10	0	1500	0	35881.503
70	0	10	10	0	0	0	10.012	1948	10	0	1500	0	35881.51
71	1	16	17	0	0	0	10.0117	1899	10	0	1500	0	35881.5171
72	4	15	20	0	0	0	10.0123	1998	10	0	1500	0	35881.5242
73	1	24	25	0	0	0	10.0125	2035	10	0	1500	0	35881.5312
74	3	15	19	0	0	0	10.0121	1963	10	0	1500	0	35881.5383
75	2	18	20	0	0	0	10.0125	2033	10	0	1500	0	35881.5454
76	0	13	14	0	0	0	10.0119	1946	10	0	1500	0	35881.5524
77	2	14	16	0	0	0	10.012	1958	10	0	1500	0	35881.5595
78	1	14	15	0	0	0	10.0121	1975	10	0	1500	0	35881.5666
79	2	11	13	0	0	0	10.0125	2038	10	0	1500	0	35881.5736
80	2	16	18	0	0	0	10.0124	2015	10	0	1500	0	35881.5807
107	114476	25456	141532	0	0	0	10.1639	1951	10	0	1500	0	35881.5879
108	1565	349795	358752	0	0	0	10.3786	2016	10	0	1500	0	35881.5952
81	1	17	18	0	0	0	10.0125	2031	10	0	1500	0	35881.6023
82	0	16	16	0	0	0	10.0122	1990	10	0	1500	0	35881.6093
83	2	14	16	0	0	0	10.0119	1935	10	0	1500	0	35881.6164

84	1	16	17	0	0	0	10.0119	1941	10	0	1500	0	35881.6234
146	112301	25521	139635	0	0	0	10.1623	2040	10	0	1500	0	35881.6306
147	1759	370835	380727	0	0	0	10.4014	2067	10	0	1500	0	35881.638

Protocol #: 6 Brac H3 Samples User : H3

Time: 5.00
Data Mode: DPM Nuclide: H-26-UG Quench Set: H-26-UG
Background Subtract: 1st Vial

	LL	UL	LCR	2S%	BKG
Region A:	0.0	18.6	0	0.0	13.10
Region B:	18.6	156	0	0.0	10.50
Region C:	156	2000	0	0.0	12.10

Quench Indicator: tSIE/AEC
Ext Std Terminator: Count
Background Subtracted
Luminescence Correction On
Coincidence Time(ns): 18
Delay Before Burst(ns): Normal

SMPL_ID	S#	TIME	CPMA	CPMB	CPMC	SIS	tSIE	DPM1	FLAG
	1	10.00	13.10	10.50	12.10	38.806	363.91		B
2997.01	2	5.00	-1.10	-0.70	-0.90	0.000	428.27	-2.77	
2997.02	3	5.00	-0.50	-0.30	-1.50	0.000	398.02	-1.33	
2997.03	4	5.00	-0.90	-0.10	-2.10	0.000	450.21	-2.19	
2997.04	5	5.00	-3.10	-1.90	-3.10	0.000	428.13	-7.82	
2997.05	6	5.00	-1.30	1.50	-3.70	0.000	448.02	-3.17	
2997.06	7	5.00	-1.30	-3.10	-2.30	0.000	449.87	-3.16	
2997.07	8	5.00	-0.30	-1.10	-0.90	0.000	452.75	-0.73	
2997.08	9	5.00	0.30	1.90	-0.50	454.05	436.66	0.75	
2997.09	10	5.00	-4.10	0.70	-4.90	2212.5	454.63	-2.65	
2997.10	11	5.00	0.10	-2.10	-2.90	0.000	460.67	0.24	
2997.11	12	5.00	-0.70	-0.10	-2.90	0.000	431.48	-1.76	
2997.12	13	5.00	-2.70	-0.90	-1.50	0.000	434.24	-6.74	
2997.13	14	5.00	-1.50	0.50	-2.10	0.000	415.25	-3.87	
2997.14	15	5.00	-3.50	-1.90	-3.10	0.000	410.57	-9.10	
2997.15	16	5.00	1.30	-0.10	-4.10	0.000	442.95	3.20	
2997.16	17	5.00	-3.10	-0.10	-3.30	0.000	443.73	-7.61	
2997.17	18	5.00	-4.30	-1.30	-2.50	0.000	397.77	-11.43	
2997.18	19	5.00	-0.70	-2.50	-0.30	0.000	457.29	-1.68	
2997.19	20	5.00	-0.30	-1.50	-3.10	0.000	423.86	-0.76	
2997.20	21	5.00	1.50	-1.70	-1.30	0.000	444.05	3.68	
2997.21	22	5.00	0.30	-0.90	-2.70	0.000	437.04	0.75	
2997.22	23	5.00	-4.50	-0.10	-0.30	0.000	404.86	-11.82	
2997.23	24	5.00	-0.70	-0.70	-4.10	0.000	428.91	-1.76	
2997.24	25	5.00	-1.30	-0.70	-3.10	0.000	426.36	-3.29	
2997.25	26	5.00	-2.30	1.70	-3.10	0.000	432.70	-5.76	
2997.26	27	5.00	-3.90	-0.10	1.50	0.000	442.44	-9.60	
2997.27	28	5.00	-2.10	-0.70	-2.50	0.000	444.33	-5.15	
2997.28	29	5.00	-3.10	-3.10	-4.30	0.000	430.51	-7.79	
2997.29	30	5.00	-2.70	0.90	-1.10	0.000	447.92	-6.59	
2997.30	31	5.00	-2.10	1.10	-4.50	0.000	441.24	-5.18	
2997.31	32	5.00	2.30	2.70	-1.10	102.90	414.99	5.93	
2997.32	33	5.00	-0.70	-1.30	0.30	0.000	439.24	-1.73	
2997.33	34	5.00	0.10	-0.50	-4.30	0.000	414.01	0.26	
2997.34	35	5.00	-0.50	-1.10	-1.90	0.000	454.73	-1.21	
2997.35	36	5.00	-1.90	-0.90	-4.30	0.000	444.38	-4.66	
2997.36	37	5.00	-0.90	1.70	-1.10	0.000	441.32	-2.22	

Protocol #: 6 Brac H3 Samples User : H3

SMPL_ID	S#	TIME	CPMA	CPMB	CPMC	SIS	tSIE	DPM1	FLAG
2997.37	38	5.00	-4.30	0.50	-2.30	0.000	415.92	-11.07	
2997.38	39	5.00	-1.50	0.70	-0.70	0.000	423.20	-3.81	
2997.39	40	5.00	-0.70	1.10	-2.50	0.000	398.93	-1.86	
2997.40	41	5.00	0.50	-0.50	-3.50	0.000	424.22	1.27	
2997.41	42	5.00	2.70	0.70	-4.10	272.19	428.97	6.80	
2997.42	43	5.00	-0.30	-0.90	-0.90	0.000	435.84	-0.75	
2997.43	44	5.00	-0.70	4.70	-4.10	301.57	448.81	-1.71	
2997.44	45	5.00	-0.10	1.90	-2.30	5464.2	452.90	-0.24	
2997.45	46	5.00	0.90	-0.70	-0.90	0.000	447.04	2.20	
2997.46	47	5.00	-1.10	0.50	-1.50	0.000	437.56	-2.73	
2997.47	48	5.00	0.70	-2.50	-2.50	0.000	429.48	1.76	
2997.48	49	5.00	-2.90	0.50	-1.70	0.000	451.47	-7.03	
2997.49	50	5.00	-0.30	-0.90	-3.70	0.000	445.05	-0.74	
2997.50	51	5.00	-3.10	-0.70	-0.70	0.000	435.98	-7.71	
2997.51	52	5.00	0.70	-1.30	-4.70	0.000	431.93	1.75	
~~2997.52~~	~~53~~	~~5.00~~	~~0.70~~	~~-1.10~~	~~-5.30~~	~~0.000~~	~~448.31~~	1.71	
2997.53	54	5.00	-3.70	-1.90	-2.30	0.000	458.60	-8.87	
2997.54	55	5.00	-1.70	1.30	-2.30	0.000	433.31	-4.25	
2997.55	56	5.00	-0.30	-0.30	-4.50	0.000	440.67	-0.74	
2997.56	57	5.00	1.50	0.50	-5.10	542.38	449.66	3.65	
2997.57	58	5.00	-0.90	-1.50	-2.70	0.000	448.14	-2.19	
2997.58	59	5.00	-1.10	-0.10	-6.10	0.000	425.47	-2.79	
2997.59	60	5.00	1.30	-0.10	-3.70	0.000	438.32	3.22	
2997.60	61	5.00	-2.90	-0.10	-2.90	0.000	457.08	-6.97	
2997.61	62	5.00	-1.90	-0.10	-0.50	0.000	423.77	-4.83	
2997.62	63	5.00	-1.90	1.10	-3.50	0.000	456.25	-4.57	
2997.63	64	5.00	-1.10	0.50	-1.50	0.000	442.31	-2.71	
~~2997.64~~	~~65~~	5.00	-3.30	2.50	-2.70	0.000	451.20	-8.01	
2997.65	66	5.00	-0.70	-4.10	-1.30	0.000	457.44	-1.68	
2997.66	67	5.00	-1.30	0.50	-2.70	0.000	460.53	-3.11	
~~2997.67~~	~~68~~	5.00	0.30	-0.70	-1.90	0.000	466.36	0.71	
2997.68	69	5.00	0.10	-0.30	-3.10	0.000	458.77	0.24	
2997.69	70	5.00	-2.70	0.10	-3.30	0.000	443.18	-6.64	
2997.70	71	5.00	-2.30	2.30	-1.90	0.000	472.50	-5.41	
2997.71	72	5.00	-1.30	-1.70	-5.10	0.000	458.92	-3.11	
2997.72	73	5.00	-3.50	0.70	0.70	0.000	436.00	-8.71	
2997.73	74	5.00	-1.70	1.50	-1.50	0.000	458.30	-4.08	
2997.74	75	5.00	0.70	-0.90	-3.30	0.000	406.48	1.83	
2997.75	76	5.00	-3.10	0.10	-1.90	0.000	454.61	-7.48	
2997.76	77	5.00	-0.50	1.70	-3.70	0.000	432.22	-1.25	
2997.77	78	5.00	0.30	0.10	-4.10	0.000	440.62	0.74	
2997.78	79	5.00	-1.10	0.10	-0.70	0.000	435.43	-2.74	
2997.79	80	5.00	2.10	0.50	-3.10	198.54	449.18	5.11	
2997.80	81	5.00	1.30	-0.50	-1.30	0.000	469.60	3.07	
2997.81	82	5.00	-2.10	2.90	-2.30	0.000	436.28	-5.22	
2997.82	83	5.00	1.50	0.50	-4.30	565.76	436.93	3.73	
2997.83	84	5.00	-1.30	-1.10	-2.30	0.000	452.23	-3.15	
2997.84	85	5.00	-3.10	-2.30	-0.90	0.000	445.56	-7.59	

Quality Control Log Form

Batch #: 2997

Date	Time	QC Type	Count Value (dpm)	True Value (dpm)	± 20% T.V. Yes/No	Technician
26Mar98	1211	^3H	224215	211889	PASS	JE
26 Mar98	2046	^3H	217807	211889	PASS	JE
26Mar98	1448	alpha	40053.06	40125	PASS	JE
26Mar98	1458	beta	78207.07	78286	PASS	JE
26Mar98	1832	alpha	39742.11	41050	PASS	JE
26 Mar98	1843	beta	81139.08	77979	PASS	JE
26 Mar98	2217	alpha	42014.49	41742	PASS	JE
26 Mar98	2227	beta	77596.45	78169	PASS	JE
27Mar98	1406	alpha	40183.96	40244	PASS	JE
27Mar98	1417	beta	77773.76	77347	PASS	JE
27Mar98	1508	alpha	39420.46	41023	PASS	JE
27Mar98	1518	beta	82452.02	82948	PASS	JE

Radiological Engineering non-Conformance and Corrective Action Form

1. Date: 26 Mar 98 Report No: 41

2. Filed By: JAMES ELLIOTT

3. Problem(s): TENNELEC JAMMED; LOST SOME DATA, HAD TO RERUN PARTIAL SURVEY

4. Instrument (if any): TENNELEC #1

5. What Data was impacted? (place a **copy** of this form in data folder, n/a if none):

2997

6. SOP Citation: GLP

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7. Major Area/Situation(s) investigated: Tennelec jammed in middle of run

8. Conclusions of investigation: retraced data back to previous QC check and reran from there

9. Corrective Actions Taken - Date: 03/27/98

Laboratory Manager Approval: [signature] Date: 4/22/98

Project Manager Approval: [signature] Date: 5/6/98

Follow-up inspection Findings: _____

Inspector: _____ Date: ___/___/___

A R C H I V E S H E E T

Survey Number: 2997

Archive Location: Building 9045

Archive Area: Storage Room

- Are all required analysis completed? ✓
- Do the samples to the Chain-of Custody? ✓
- Sample labels intact? ✓
- Does the data package contain the following?
  - Survey Requirements Form. ✓
  - Log-in Check Sheet. ✓
  - Sample Chronicle? ✓
  - Results and supporting data for the analyses. ✓

Comments: _____

Technician: James Elliott Date: 02 Apr 98

Rev. 1. Jan. '98

H:\rer\lab_op\sop\Archive.doc

Survey Number:	1615
Date Issued:	8/7/97
Date Completed:	8/7/97

Site information

Zone:	3	Sub Zone:	9037D
Bldg. #	NA	Room:	NA
Grid:	S01	Thru Grid:	S16

Survey Type: Affected Open Land

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

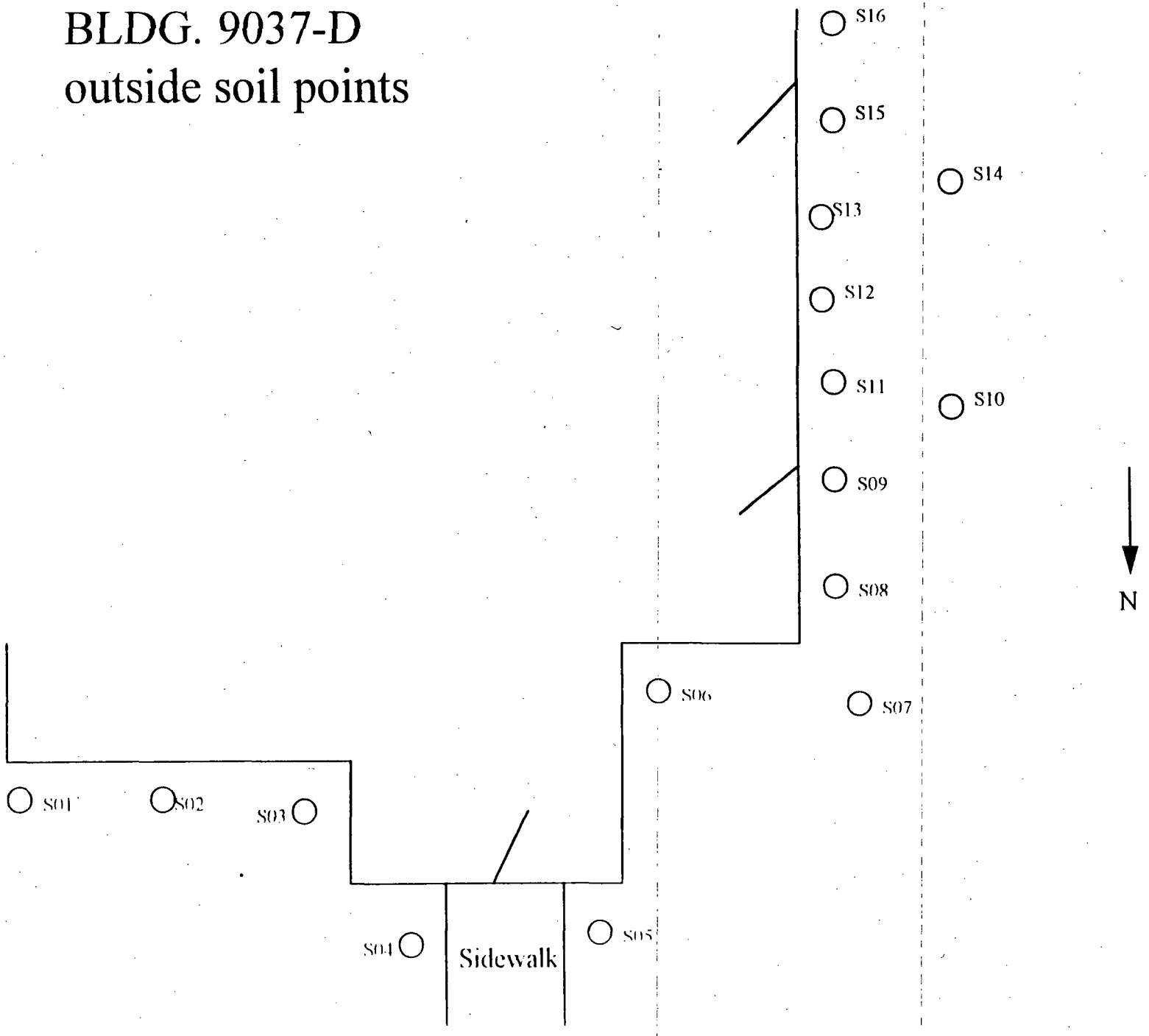
Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
Soil	24	Surface	Gross Alpha/Beta
Soil	24	Surface	Gross Gamma
	0		
	0		

Notes: PERFORM SOIL SAMPLING O/S OF BLDG

Prepared by:	Craig Miller	performed by:	ELLIOTT
prep date:	8/7/97	performed date:	8/7/97

BLDG. 9037-D
outside soil points



GAMMA COUNTS

SURVEY #	1615	SURVEY DATE	8/8/97	TECHNICIAN	ELLIOTT		
ZONE	3	SUBZONE	9037D	BUILDING	N/A	COUNT TIME	0
Gamma bkg uR/hr	9	Instrument Serial #	926	Probe Serial #	723416		

SAMPLE POINT	ROOM	GAMMA COUNTS (uR/hr)	COMMENT
S01	NA	9	
S02	NA	11	
S03	NA	15	
S04	NA	8	
S05	NA	11	
S06	NA	14	
S07	NA	10	
S08	NA	10	
S09	NA	9	
S10	NA	7	
S11	NA	7	
S12	NA	8	
S13	NA	8	
S14	NA	7	
S15	NA	8	
S16	NA	8	
Total Sample Points:		16	

04-Mar-98

FIELD TECHNICAL SUPPORT DATA

SOIL

LOCATION

ZONE: 3 SUBZONE: NA BUILDING: 9037D

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
S01 - S16	ELLIOTT	08-Aug-97	00926	723416							9	N/A

ZONE 3 SUBZONE 9037D

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION	SOIL		
	ZONE: 3	SUBZONE: NA	BUILDING: 9037D

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
S01 - S16	1615	01 - 20	

04-Mar-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 3 SUBZONE: NA BUILDING: 9037D

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
S01	0	2.534	0.551	3.713	0.497	Sum	3.808E+00
						CS-137	2.940E-01
						K-40	2.530E+00
						RA-226	4.459E-01
						TH-232	4.795E-01
						U-235	5.894E-02
S02	2	1.922	0.508	5.240	0.483	Sum	6.126E+00
						CS-137	7.913E-01
						K-40	3.701E+00
						RA-226	7.576E-01
						TH-232	7.183E-01
						U-235	1.581E-01
S03	6	3.165	0.450	6.135	0.454	Sum	7.188E+00
						CS-137	8.450E-01
						K-40	4.437E+00
						RA-226	9.374E-01
						TH-232	8.788E-01
						U-235	8.976E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S04	-1	2.406	0.712	7.249	0.558	Sum	4.393E+00
						CS-137	4.912E-01
						K-40	3.047E+00
						RA-226	4.222E-01
						TH-232	3.735E-01
						U-235	5.867E-02
S05	2	3.045	0.460	4.308	0.466	Sum	7.659E+00
						CS-137	6.927E-01
						K-40	5.547E+00
						RA-226	6.566E-01
						TH-232	6.276E-01
						U-235	1.356E-01
S06	5	2.393	0.521	3.958	0.484	Sum	6.961E+00
						CS-137	5.052E-01
						K-40	4.703E+00
						RA-226	8.162E-01
						TH-232	8.140E-01
						U-235	1.226E-01
S07	1	2.982	0.401	5.800	0.435	Sum	6.930E+00
						CS-137	7.838E-01
						K-40	4.551E+00
						RA-226	6.727E-01
						TH-232	7.991E-01
						U-235	1.238E-01

ZONE 3 SUBZONE 9037D

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S08	1	2.454	0.454	5.474	0.459	Sum	7.759E+00
						CS-137	1.096E+00
						K-40	4.881E+00
						RA-226	8.712E-01
						TH-232	7.695E-01
						U-235	1.408E-01
S09	0	1.778	0.470	5.919	0.469	Sum	7.793E+00
						CS-137	1.325E+00
						K-40	4.633E+00
						RA-226	7.447E-01
						TH-232	7.961E-01
						U-235	2.943E-01
S10	-2	2.736	0.506	8.627	0.485	Sum	5.661E+00
						CS-137	1.524E+00
						K-40	3.066E+00
						RA-226	3.906E-01
						TH-232	5.784E-01
						U-235	1.022E-01
S11	-2	1.223	0.411	4.874	0.442	Sum	4.119E+00
						CS-137	7.502E-01
						K-40	2.271E+00
						RA-226	4.653E-01
						TH-232	4.899E-01
						U-235	1.422E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S12	-1	1.551	0.370	3.695	0.424	Sum	4.361E+00
						CS-137	3.965E-01
						K-40	2.927E+00
						RA-226	3.907E-01
						TH-232	5.716E-01
						U-235	7.523E-02
S13	-1	2.518	0.466	6.917	0.463	Sum	4.045E+00
						CS-137	3.847E-01
						K-40	2.048E+00
						RA-226	7.236E-01
						TH-232	7.799E-01
						U-235	1.090E-01
S14	-2	2.456	0.423	4.598	0.446	Sum	3.925E+00
						CS-137	7.972E-01
						K-40	2.140E+00
						RA-226	4.051E-01
						TH-232	4.595E-01
						U-235	1.229E-01
S15	-1	3.961	0.480	9.761	0.469	Sum	8.744E+00
						CS-137	3.417E+00
						K-40	4.165E+00
						RA-226	5.504E-01
						TH-232	5.132E-01
						U-235	9.793E-02

ZONE 3 SUBZONE 9037D

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S16	-1	3.942	0.729	6.581	0.561	Sum	8.554E+00
						CS-137	3.046E-01
						K-40	6.830E+00
						RA-226	7.181E-01
						TH-232	5.985E-01
						U-235	1.028E-01

		Alpha		Beta		Gamma (Sum)
Minimum	-2	1.223	0.370	3.695	0.424	3.808E+00
Maximum	6	3.961	0.729	9.761	0.561	8.744E+00
Average	0	2.567	0.495	5.803	0.475	6.127E+00

ZONE 3 SUBZONE 9037D

Survey Number:	1615
Date Issued:	8/7/97
Date Completed:	8/7/97

Site information

Zone:	3	Sub Zone:	9037D
Bldg. #	NA	Room:	NA
Grid:	S01	Thru Grid:	S16

Survey Type: Affected Open Land

Work Permit Required: ☐ (If permit required is checked, ensure that the permit is complete and attached before beginning work)

Sampling Plan

Field Readings

Alpha readings: ☐

Beta readings: ☐

Gamma Readings: ☐

Laboratory Samples

Sample Type	Number	Proximity:	Analysis:
Soil	24	Surface	Gross Alpha/Beta
Soil	24	Surface	Gross Gamma
	0		
	0		

Notes: PERFORM SOIL SAMPLING O/S OF BLDG.

Prepared by:	Craig Miller	performed by:	ELLIOTT
prep date:	8/7/97	performed date:	8/7/97

Chain of Custody

	Sample Description												
Laboratory ID	ar Code	Zone	Sub Zone	Building	Room	Location	#	Proximity	Sample Type	Analyses Requested		Collected	Technician
1615 .01		3	9037D	N/A	NA	S01	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:42:03	ELLIOTT
1615 .02		3	9037D	N/A	NA	S02	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:42:14	ELLIOTT
1615 .03		3	9037D	N/A	NA	S03	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:42:29	ELLIOTT
1615 .04		3	9037D	N/A	NA	S04	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:42:38	ELLIOTT
1615 .05		3	9037D	N/A	NA	S05	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:42:56	ELLIOTT
1615 .06		3	9037D	N/A	NA	S06	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:43:08	ELLIOTT
1615 .07		3	9037D	N/A	NA	S07	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:43:20	ELLIOTT
1615 .08		3	9037D	N/A	NA	S08	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:43:33	ELLIOTT
1615 .09		3	9037D	N/A	NA	S09	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:43:48	ELLIOTT
1615 .10		3	9037D	N/A	NA	S10	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:44:02	ELLIOTT
1615 .11		3	9037D	N/A	NA	S10	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:44:10	ELLIOTT
1615 .12		3	9037D	N/A	NA	S10	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:44:16	ELLIOTT
1615 .13		3	9037D	N/A	NA	S10	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:44:21	ELLIOTT
1615 .14		3	9037D	N/A	NA	S10	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:44:27	ELLIOTT

	Sample Description												
Laboratory ID	ar Code	Zone	Sub Zone	Building	Room	Location	#	Proximity	Sample Type	Analyses Requested		Collected	Technician
1615 .15	3		9037D	N/A	NA	S11	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:44:52	ELLIOTT
1615 .16	3		9037D	N/A	NA	S12	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:45:02	ELLIOTT
1615 .17	3		9037D	N/A	NA	S13	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:45:17	ELLIOTT
1615 .18	3		9037D	N/A	NA	S14	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:45:28	ELLIOTT
1615 .19	3		9037D	N/A	NA	S15	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:45:40	ELLIOTT
1615 .20	3		9037D	N/A	NA	S16	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:45:49	ELLIOTT
1615 .21	3		9037D	N/A	NA	S16	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:45:59	ELLIOTT
1615 .22	3		9037D	N/A	NA	S16	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:46:07	ELLIOTT
1615 .23	3		9037D	N/A	NA	S16	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:46:14	ELLIOTT
1615 .24	3		9037D	N/A	NA	S16	1	SURFACE	SOIL	GROSS ALPHA BETA	GROSS GAMMA	08-08-97 06:46:26	ELLIOTT

Laboratory ID	Sample Description: ar Code	Zone	Sub Zone	Building	Room	Location	#	Proximity	Sample Type	Analyses Requested	Collected	Technician

Comments:

Relinquished by: Duane Whetstone **Date:** 8-8-97 **Time:** 0905 **Received by:** Lewis Elliott **Purpose:** Sample log-in

Relinquished by: _____ **Date:** _____ **Time:** _____ **Received by:** _____ **Purpose:** _____

Relinquished by: _____ **Date:** _____ **Time:** _____ **Received by:** _____ **Purpose:** _____

Relinquished by: _____ **Date:** _____ **Time:** _____ **Received by:** _____ **Purpose:** _____

Relinquished by: _____ **Date:** _____ **Time:** _____ **Received by:** _____ **Purpose:** _____

Sample Log-in Check Sheet

Survey # 1615

Chain-of-custody:	Yes	No
Does the survey number on the requirements form match the laboratory identification number on the Chain-of-Custody?	✓	
Do samples correlate with the data listed on the Chain-of-Custody?	✓	
Are all samples labeled and intact?	✓	
Are the sample labels complete and legible?	✓	
Are samples of sufficient volume to complete the analyses required?	✓	
Were duplicate soil samples collected at a rate of at least 10%?	✓	
Has the data contained on the Chain-of-Custody been appended to the master log?	✓	
Is the Chain-of-Custody complete and signed?	✓	

Instructions:

If **all** of the above questions are answered "**YES**", attach this form to the other documentation and copy the package. Place the original in a corresponding file and the copy with the samples.

If **any** of the above questions are answered "**NO**", prepare a non-conformance statement and see the project manager immediately.

Comments:

Statement:

I agree that the above information is correct and the sample log-in procedure was completed correctly in accordance with all corresponding Standard Operating Procedures.

Signature: James A Elliott Date: 08Aug97

Sample Log-in Non-Conformance Statement

Explain the nature of the non-conformance

Explain corrective actions taken

Disposition (circle applicable):

Sample label corrected	Site map amended	Chain-of Custody amended
Additional volume collected	Additional duplicates collected	Tentative log-in: review pending
Sample recollected/replaced	Samples rejected	Survey package rejected

Supervisory Review complete (y/n): Y

Supervisors Initials: DJ

NET WEIGHT REPORT

Survey Number	ID	Maranelli Tare	Maranelli plus Soil	Gamma Soil	Gamma Final	A/B Tare	A/B Gross	A/B Sample Mass	Planchet Tare	Planchet Gross	Residual Mass	Collection Date	Collection Time
1615	.01	149.65	1,155.55	1,005.90	1,003.88	0.0000	2.0200	2.0200				08-Aug-97	6:42:03 AM
1615	.02	150.17	1,015.93	865.76	863.76	0.0000	2.0000	2.0000				08-Aug-97	6:42:14 AM
1615	.03	149.42	1,031.00	881.58	879.54	0.0000	2.0400	2.0400				08-Aug-97	6:42:29 AM
1615	.04	149.34	1,107.13	957.79	955.80	0.0000	1.9900	1.9900				08-Aug-97	6:42:38 AM
1615	.05	149.19	1,022.99	873.80	871.82	0.0000	1.9800	1.9800				08-Aug-97	6:42:56 AM
1615	.06	149.67	1,027.41	877.74	875.71	0.0000	2.0300	2.0300				08-Aug-97	6:43:08 AM
1615	.07	149.24	1,016.37	867.13	865.11	0.0000	2.0200	2.0200				08-Aug-97	6:43:20 AM
1615	.08	149.28	1,002.99	853.71	851.70	0.0000	2.0100	2.0100				08-Aug-97	6:43:33 AM
1615	.09	149.28	980.27	830.99	829.00	0.0000	1.9900	1.9900				08-Aug-97	6:43:48 AM
1615	.10	148.76	1,122.91	974.15	972.17	0.0000	1.9800	1.9800				08-Aug-97	6:44:02 AM
1615	.11	149.16	1,199.81	1,050.65	1,048.63	0.0000	2.0200	2.0200				08-Aug-97	6:44:10 AM
1615	.12											08-Aug-97	6:44:16 AM

NET WEIGHT REPORT

Survey Number	ID	Maranelli Tare	Maranelli plus Soil	Gamma Soil	Gamma Final	A/B Tare	A/B Gross	A/B Sample Mass	Planchet Tare	Planchet Gross	Residual Mass	Collection Date	Collection Time
1615	.13	149.36	1,138.81	989.45	987.45	0.0000	2.0000	2.0000				08-Aug-97	6:44:21 AM
1615	.14	149.38	1,134.09	984.71	982.70	0.0000	2.0100	2.0100				08-Aug-97	6:44:27 AM
1615	.15	148.88	1,136.18	987.30	985.30	0.0000	2.0000	2.0000				08-Aug-97	6:44:52 AM
1615	.16	149.03	1,150.36	1,001.33	999.34	0.0000	1.9900	1.9900				08-Aug-97	6:45:02 AM
1615	.17	149.18	1,216.27	1,067.09	1,065.07	0.0000	2.0200	2.0200				08-Aug-97	6:45:17 AM
1615	.18	149.03	1,217.10	1,068.07	1,066.06	0.0000	2.0100	2.0100				08-Aug-97	6:45:28 AM
1615	.19	149.05	1,088.21	939.16	937.14	0.0000	2.0200	2.0200				08-Aug-97	6:45:40 AM
1615	.20	149.27	1,043.76	894.49	892.48	0.0000	2.0100	2.0100				08-Aug-97	6:45:49 AM
1615	.21	149.52	1,018.35	868.83	866.83	0.0000	2.0000	2.0000				08-Aug-97	6:45:59 AM
1615	.22											08-Aug-97	6:46:07 AM
1615	.23	150.15	913.21	763.06	761.08	0.0000	1.9800	1.9800				08-Aug-97	6:46:14 AM
1615	.24	149.34	949.73	800.39	798.39	0.0000	2.0000	2.0000				08-Aug-97	6:46:26 AM

NET WEIGHT REPORT

Survey Number	ID	Maranelli Tare	Maranelli plus Soil	Gamma Soil	Gamma Final	A/B Tare	A/B Gross	A/B Sample Mass	Planchet Tare	Planchet Gross	Residual Mass	Collection Date	Collection Time
1615	.b	0.00	0.00	0.00	-2.00	0.0000	2.0000	2.0000	0.0000	0.0000	0.0000		

VMS Gamma Spectroscopy Report generated 13-FEB-1998 08:57:53

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_01_GE3_800GSANDMG20_4535.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .01 Sample Quantity : 1.00388E+03 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4535 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:42:03.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:42:03. Acquisition date : 13-FEB-1998 08:45:02
Decay time : 189 02:02:59.95 % dead time : 0.0%
Elapsed live time: 0 00:12:29.19 Elapsed real time: 0 00:12:29.37

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.530E-06	6.457E-07	3.536E-07	3.637E-08
CO-60	0.000E+00	0.000E+00	3.511E-08	3.476E-09
NB-94	0.000E+00	0.000E+00	3.340E-08	3.074E-09
RU-106	0.000E+00	0.000E+00	5.307E-07	8.585E-08
SB-125	0.000E+00	0.000E+00	1.346E-07	1.605E-08
BA-133	0.000E+00	0.000E+00	4.746E-08	8.756E-09
CS-134	0.000E+00	0.000E+00	4.460E-08	5.613E-09
CS-137	2.940E-07	6.713E-08	4.070E-08	5.067E-09
CE-144	0.000E+00	0.000E+00	3.617E-07	6.563E-08
EU-152	0.000E+00	0.000E+00	8.867E-08	1.227E-08

RA-226	4.459E-07	1.147E-07	7.247E-08	9.107E-09		
TH-232	4.795E-07	1.634E-07	6.400E-08	1.180E-08		
U-235	5.894E-08	5.427E-08	5.137E-08	7.262E-09		
AM-241	0.000E+00	0.000E+00	9.505E-08	1.442E-08		

Total:	3.808E-06					

GLP

VMS Gamma Spectroscopy Report generated 13-FEB-1998 09:15:39

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_02_GE3_800GSANDMG20_4537.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .02 Sample Quantity : 8.63760E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4537 Spctrm Collector :
Sample Collector : Sample Analyst :

--- Sample Deposition Information ---

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:42:14.

--- Sample Decay/Count Information ---

Sample Date : 8-AUG-1997 06:42:14. Acquisition date : 13-FEB-1998 09:02:46
Decay time : 189 02:20:32.47 % dead time : 0.0%
Elapsed live time: 0 00:12:32.18 Elapsed real time: 0 00:12:32.41

--- Detector Parameters ---

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

--- Processing Parameters ---

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	3.995E-06	9.445E-07	5.698E-07	5.861E-08
CO-60	0.000E+00	0.000E+00	4.468E-08	4.246E-09
NB-94	0.000E+00	0.000E+00	4.422E-08	5.329E-09
RU-106	2.915E-06	5.961E-07	5.455E-07	8.824E-08
SB-125	0.000E+00	0.000E+00	1.608E-07	1.918E-08
BA-133	0.000E+00	0.000E+00	6.400E-08	1.181E-08
CS-134	0.000E+00	0.000E+00	5.728E-08	7.210E-09
CS-137	7.784E-07	1.354E-07	5.029E-08	6.261E-09
CE-144	0.000E+00	0.000E+00	4.667E-07	8.469E-08
EU-152	0.000E+00	0.000E+00	1.095E-07	1.515E-08

RA-226	7.388E-07	1.704E-07	8.987E-08	1.129E-08
TH-232	5.668E-07	2.030E-07	7.922E-08	1.461E-08
U-235	1.409E-07	5.742E-08	5.756E-08	8.137E-09
AM-241	0.000E+00	0.000E+00	1.434E-07	2.175E-08

Total:	9.135E-06			

VMS Gamma Spectroscopy Report generated 13-FEB-1998 09:33:30

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_02_GE3_800GSANDMG20_4539.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .02 Sample Quantity : 8.63760E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4539 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:42:14.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:42:14. Acquisition date : 13-FEB-1998 09:20:32
Decay time : 189 02:38:18.12 % dead time : 0.0%
Elapsed live time: 0 00:12:37.79 Elapsed real time: 0 00:12:38.04

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	3.701E-06	9.432E-07	6.148E-07	6.324E-08
CO-60	0.000E+00	0.000E+00	6.059E-08	5.758E-09
NB-94	0.000E+00	0.000E+00	3.605E-08	3.318E-09
RU-106	0.000E+00	0.000E+00	4.463E-07	7.221E-08
SB-125	0.000E+00	0.000E+00	1.600E-07	1.908E-08
BA-133	0.000E+00	0.000E+00	5.642E-08	1.041E-08
CS-134	0.000E+00	0.000E+00	6.093E-08	7.669E-09
CS-137	7.913E-07	1.406E-07	5.502E-08	6.850E-09
CE-144	0.000E+00	0.000E+00	4.981E-07	9.039E-08
EU-152	0.000E+00	0.000E+00	1.191E-07	1.648E-08

RA-226	7.576E-07	1.647E-07	8.530E-08	1.358E-08				
TH-232	7.183E-07	2.178E-07	8.002E-08	1.476E-08				
U-235	1.581E-07	6.969E-08	6.264E-08	8.855E-09				
AM-241	0.000E+00	0.000E+00	1.340E-07	2.032E-08				

Total:	6.126E-06							

VMS Gamma Spectroscopy Report generated 13-FEB-1998 09:56:04

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_03_GE3_800GSANDMG20_4541.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .03 Sample Quantity : 8.79540E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4541 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:42:29.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:42:29. Acquisition date : 13-FEB-1998 09:43:10
Decay time : 189 03:00:41.16 % dead time : 0.0%
Elapsed live time: 0 00:12:33.76 Elapsed real time: 0 00:12:34.04

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	4.437E-06	1.166E-06	6.474E-07	6.659E-08
CO-60	0.000E+00	0.000E+00	5.834E-08	5.775E-09
NB-94	0.000E+00	0.000E+00	2.783E-08	2.561E-09
RU-106	0.000E+00	0.000E+00	5.606E-07	9.069E-08
SB-125	0.000E+00	0.000E+00	1.646E-07	1.964E-08
BA-133	0.000E+00	0.000E+00	5.532E-08	1.020E-08
CS-134	0.000E+00	0.000E+00	5.596E-08	7.044E-09
CS-137	8.450E-07	1.508E-07	5.722E-08	7.124E-09
CE-144	0.000E+00	0.000E+00	6.025E-07	1.093E-07
EU-152	0.000E+00	0.000E+00	1.341E-07	1.856E-08

RA-226	9.374E-07	1.864E-07	9.542E-08	1.199E-08
TH-232	8.788E-07	2.275E-07	9.718E-08	1.792E-08
U-235	8.976E-08	5.517E-08	6.799E-08	9.611E-09
AM-241	0.000E+00	0.000E+00	1.460E-07	2.215E-08

Total:	7.188E-06			

GLP
Am241

VMS Gamma Spectroscopy Report generated 13-FEB-1998 10:12:56

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_04_GE3_800GSANDMG20_4543.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .04 Sample Quantity : 9.55800E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4543 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:42:38.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:42:38. Acquisition date : 13-FEB-1998 10:00:08
Decay time : 189 03:17:30.77 % dead time : 0.0%
Elapsed live time: 0 00:12:27.10 Elapsed real time: 0 00:12:27.26

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.932E-06	7.469E-07	1.344E-06	1.383E-07
CO-60	0.000E+00	0.000E+00	3.483E-08	3.448E-09
NB-94	0.000E+00	0.000E+00	3.055E-08	3.681E-09
RU-106	0.000E+00	0.000E+00	3.350E-07	5.419E-08
SB-125	0.000E+00	0.000E+00	1.233E-07	1.471E-08
BA-133	0.000E+00	0.000E+00	4.635E-08	8.551E-09
CS-134	0.000E+00	0.000E+00	3.822E-08	4.811E-09
CS-137	4.163E-07	8.449E-08	5.043E-08	6.279E-09
CE-144	0.000E+00	0.000E+00	3.691E-07	6.697E-08
EU-152	0.000E+00	0.000E+00	8.606E-08	1.191E-08

RA-226	3.481E-07	1.133E-07	7.151E-08	8.987E-09			
TH-232	3.117E-07	1.098E-07	6.529E-08	1.204E-08			
U-235	4.199E-08	4.872E-08	5.148E-08	7.277E-09			
AM-241	6.187E-08	7.671E-08	9.404E-08	1.427E-08			

Total:	4.112E-06						

VMS Gamma Spectroscopy Report generated 13-FEB-1998 10:38:40

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_04_GE3_800GSANDMG20_4544.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .04 Sample Quantity : 9.55800E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4544 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:42:38.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:42:38. Acquisition date : 13-FEB-1998 10:25:48
Decay time : 189 03:43:10.75 % dead time : 0.0%
Elapsed live time: 0 00:12:30.31 Elapsed real time: 0 00:12:30.46

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	3.047E-06	8.305E-07	9.506E-08	9.777E-09
CO-60	0.000E+00	0.000E+00	3.919E-08	3.724E-09
NB-94	0.000E+00	0.000E+00	3.180E-08	3.832E-09
RU-106	0.000E+00	0.000E+00	4.508E-07	7.293E-08
SB-125	0.000E+00	0.000E+00	1.073E-07	1.280E-08
BA-133	0.000E+00	0.000E+00	4.981E-08	9.189E-09
CS-134	0.000E+00	0.000E+00	3.993E-08	4.298E-09
CS-137	4.912E-07	9.204E-08	3.730E-08	4.644E-09
CE-144	0.000E+00	0.000E+00	3.835E-07	6.959E-08
EU-152	0.000E+00	0.000E+00	8.772E-08	1.214E-08

RA-226	4.222E-07	9.884E-08	7.267E-08	1.157E-08			
TH-232	3.735E-07	1.500E-07	6.057E-08	1.117E-08			
U-235	5.867E-08	4.062E-08	4.604E-08	6.508E-09			
AM-241	0.000E+00	0.000E+00	1.008E-07	1.529E-08			

Total:	4.393E-06						

Cs-134 GLP

VMS Gamma Spectroscopy Report generated 13-FEB-1998 11:04:19

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_05_GE3_800GSANDMG20_4546.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .05 Sample Quantity : 8.71820E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4546 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:42:56.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:42:56. Acquisition date : 13-FEB-1998 10:51:33
Decay time : 189 04:08:37.15 % dead time : 0.0%
Elapsed live time: 0 00:12:26.52 Elapsed real time: 0 00:12:26.75

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	5.147E-06	1.121E-06	4.086E-07	4.203E-08
CO-60	0.000E+00	0.000E+00	5.270E-08	5.217E-09
NB-94	0.000E+00	0.000E+00	3.759E-08	3.460E-09
RU-106	0.000E+00	0.000E+00	5.653E-07	9.145E-08
SB-125	0.000E+00	0.000E+00	1.461E-07	1.743E-08
BA-133	0.000E+00	0.000E+00	6.168E-08	1.138E-08
CS-134	3.195E-08	2.288E-08	5.390E-08	6.784E-09
CS-137	6.059E-07	1.181E-07	4.703E-08	5.856E-09
CE-144	0.000E+00	0.000E+00	4.914E-07	8.917E-08
EU-152	0.000E+00	0.000E+00	1.189E-07	1.646E-08

RA-226	6.459E-07	1.435E-07	8.813E-08	1.108E-08
TH-232	8.199E-07	1.952E-07	9.559E-08	1.763E-08
U-235	9.481E-08	7.481E-08	6.765E-08	9.563E-09
AM-241	0.000E+00	0.000E+00	1.301E-07	1.973E-08

Total:	7.345E-06			

VMS Gamma Spectroscopy Report generated 13-FEB-1998 11:21:05

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_05_GE3_800GSANDMG20_4548.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .05 Sample Quantity : 8.71820E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4548 Spctrm Collector :
Sample Collector : Sample Analyst :

----Sample Deposition Information----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:42:56.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:42:56. Acquisition date : 13-FEB-1998 11:08:16
Decay time : 189 04:25:20.01 % dead time : 0.0%
Elapsed live time: 0 00:12:30.03 Elapsed real time: 0 00:12:30.27

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	5.547E-06	1.091E-06	4.534E-07	4.664E-08
CO-60	0.000E+00	0.000E+00	3.979E-08	3.782E-09
NB-94	0.000E+00	0.000E+00	4.164E-08	3.833E-09
RU-106	0.000E+00	0.000E+00	6.451E-07	1.044E-07
SB-125	0.000E+00	0.000E+00	1.763E-07	2.103E-08
BA-133	0.000E+00	0.000E+00	5.290E-08	9.759E-09
CS-134	0.000E+00	0.000E+00	4.641E-08	5.841E-09
CS-137	6.927E-07	1.287E-07	6.212E-08	7.734E-09
CE-144	0.000E+00	0.000E+00	5.394E-07	9.789E-08
EU-152	0.000E+00	0.000E+00	1.245E-07	1.723E-08

RA-226	6.566E-07	1.553E-07	8.037E-08	8.063E-09			
TH-232	6.276E-07	1.826E-07	8.348E-08	1.539E-08			
U-235	1.356E-07	7.061E-08	6.972E-08	9.856E-09			
AM-241	0.000E+00	0.000E+00	1.315E-07	1.995E-08			

Total:	7.659E-06						

VMS Gamma Spectroscopy Report generated 13-FEB-1998 11:56:54

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_06_GE3_800GSANDMG20_4550.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .06 Sample Quantity : 8.75710E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4550 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:43:08.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:43:08. Acquisition date : 13-FEB-1998 11:44:05
Decay time : 189 05:00:57.90 % dead time : 0.0%
Elapsed live time: 0 00:12:29.06 Elapsed real time: 0 00:12:29.28

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	4.703E-06	9.936E-07	3.501E-07	3.601E-08
CO-60	0.000E+00	0.000E+00	3.792E-08	3.754E-09
NB-94	0.000E+00	0.000E+00	5.374E-08	6.477E-09
RU-106	0.000E+00	0.000E+00	5.686E-07	9.199E-08
SB-125	0.000E+00	0.000E+00	1.639E-07	1.955E-08
BA-133	0.000E+00	0.000E+00	6.024E-08	1.111E-08
CS-134	0.000E+00	0.000E+00	3.983E-08	5.013E-09
CS-137	5.052E-07	9.981E-08	5.783E-08	7.200E-09
CE-144	0.000E+00	0.000E+00	4.922E-07	8.932E-08
EU-152	0.000E+00	0.000E+00	1.150E-07	1.591E-08

RA-226	8.162E-07	1.634E-07	8.647E-08	1.377E-08			
TH-232	8.140E-07	2.004E-07	8.452E-08	1.559E-08			
U-235	1.226E-07	6.388E-08	6.073E-08	8.585E-09			
AM-241	0.000E+00	0.000E+00	1.355E-07	2.055E-08			

Total:	6.961E-06						

VMS Gamma Spectroscopy Report generated 13-FEB-1998 12:26:30

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_07_GE3_800GSANDMG20_4552.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .07 Sample Quantity : 8.65110E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4552 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:43:20.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:43:20. Acquisition date : 13-FEB-1998 12:13:34
Decay time : 189 05:30:14.38 % dead time : 0.0%
Elapsed live time: 0 00:12:34.21 Elapsed real time: 0 00:12:34.44

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	4.551E-06	1.016E-06	4.285E-07	4.407E-08
CO-60	0.000E+00	0.000E+00	6.063E-08	6.003E-09
NB-94	0.000E+00	0.000E+00	2.582E-08	2.376E-09
RU-106	0.000E+00	0.000E+00	4.504E-07	7.287E-08
SB-125	0.000E+00	0.000E+00	1.799E-07	2.146E-08
BA-133	0.000E+00	0.000E+00	5.428E-08	1.001E-08
CS-134	0.000E+00	0.000E+00	4.136E-08	5.206E-09
CS-137	7.838E-07	1.358E-07	8.892E-08	1.107E-08
CE-144	0.000E+00	0.000E+00	5.006E-07	9.084E-08
EU-152	0.000E+00	0.000E+00	1.250E-07	1.730E-08

RA-226	6.727E-07	1.694E-07	8.124E-08	1.021E-08				
TH-232	7.991E-07	1.844E-07	7.224E-08	1.332E-08				
U-235	1.238E-07	5.868E-08	6.173E-08	8.726E-09				
AM-241	0.000E+00	0.000E+00	1.357E-07	2.059E-08				

Total:	6.931E-06							

VMS Gamma Spectroscopy Report generated 13-FEB-1998 13:18:27

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_08_GE3_800GSANDMG20_4554.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .08 Sample Quantity : 8.51700E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4554 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:43:33.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:43:33. Acquisition date : 13-FEB-1998 13:05:30
Decay time : 189 06:21:57.50 % dead time : 0.0%
Elapsed live time: 0 00:12:36.26 Elapsed real time: 0 00:12:36.52

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	4.881E-06	1.031E-06	4.128E-07	4.246E-08
CO-60	0.000E+00	0.000E+00	4.476E-08	4.431E-09
NB-94	0.000E+00	0.000E+00	4.487E-08	5.407E-09
RU-106	0.000E+00	0.000E+00	5.838E-07	9.444E-08
SB-125	0.000E+00	0.000E+00	1.762E-07	2.102E-08
BA-133	0.000E+00	0.000E+00	7.294E-08	1.346E-08
CS-134	0.000E+00	0.000E+00	5.443E-08	6.851E-09
CS-137	1.096E-06	1.737E-07	6.695E-08	8.335E-09
CE-144	0.000E+00	0.000E+00	5.180E-07	9.399E-08
EU-152	0.000E+00	0.000E+00	1.269E-07	1.756E-08

RA-226	8.712E-07	1.750E-07	8.159E-08	8.186E-09
TH-232	7.695E-07	2.177E-07	8.803E-08	1.623E-08
U-235	1.408E-07	7.014E-08	7.038E-08	9.949E-09
AM-241	0.000E+00	0.000E+00	1.476E-07	2.240E-08

Total:	7.758E-06			

Ce-144, Am-241 FLP

VMS Gamma Spectroscopy Report generated 13-FEB-1998 13:35:33

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_09_GE3_800GSANDMG20_4555.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .09 Sample Quantity : 8.29000E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4555 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:43:48.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:43:48. Acquisition date : 13-FEB-1998 13:22:42
Decay time : 189 06:38:54.59 % dead time : 0.0%
Elapsed live time: 0 00:12:29.02 Elapsed real time: 0 00:12:29.27

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	4.343E-06	1.009E-06	1.448E-06	1.490E-07
CO-60	0.000E+00	0.000E+00	5.654E-08	5.598E-09
NB-94	0.000E+00	0.000E+00	4.024E-08	3.704E-09
RU-106	0.000E+00	0.000E+00	5.898E-07	9.541E-08
SB-125	0.000E+00	0.000E+00	1.627E-07	1.941E-08
BA-133	0.000E+00	0.000E+00	5.935E-08	1.095E-08
CS-134	0.000E+00	0.000E+00	5.516E-08	6.942E-09
CS-137	1.187E-06	1.913E-07	5.957E-08	7.416E-09
CE-144	2.653E-07	3.541E-07	4.583E-07	8.316E-08
EU-152	0.000E+00	0.000E+00	1.251E-07	1.731E-08

RA-226	7.123E-07	1.715E-07	7.896E-08	9.924E-09
TH-232	6.944E-07	2.140E-07	8.139E-08	1.501E-08
U-235	1.311E-07	6.355E-08	6.416E-08	9.069E-09
AM-241	9.057E-08	1.048E-07	1.341E-07	2.035E-08

Total:	7.424E-06			

VMS Gamma Spectroscopy Report generated 13-FEB-1998 13:52:16

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_09_GE3_800GSANDMG20_4556.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .09 Sample Quantity : 8.29000E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4556 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:43:48.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:43:48. Acquisition date : 13-FEB-1998 13:39:25
Decay time : 189 06:55:37.53 % dead time : 0.0%
Elapsed live time: 0 00:12:31.26 Elapsed real time: 0 00:12:31.52

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	4.633E-06	1.094E-06	4.761E-07	4.897E-08
CO-60	0.000E+00	0.000E+00	6.136E-08	5.831E-09
NB-94	0.000E+00	0.000E+00	4.271E-08	3.931E-09
RU-106	0.000E+00	0.000E+00	6.149E-07	9.947E-08
SB-125	0.000E+00	0.000E+00	1.767E-07	2.108E-08
BA-133	0.000E+00	0.000E+00	6.629E-08	1.223E-08
CS-134	0.000E+00	0.000E+00	5.250E-08	6.607E-09
CS-137	1.325E-06	2.068E-07	4.915E-08	6.119E-09
CE-144	0.000E+00	0.000E+00	4.903E-07	8.897E-08
EU-152	0.000E+00	0.000E+00	1.241E-07	1.717E-08

RA-226	7.447E-07	1.595E-07	9.210E-08	1.157E-08			
TH-232	7.961E-07	2.155E-07	9.236E-08	1.703E-08			
U-235	2.943E-07	3.337E-07	6.897E-08	9.749E-09			
AM-241	0.000E+00	0.000E+00	1.395E-07	2.116E-08			

Total:	7.793E-06						

VMS Gamma Spectroscopy Report generated 17-FEB-1998 08:37:25

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_10_GE3_800GSANDMG20_4559.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .10 Sample Quantity : 9.72170E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4559 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:44:02.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:44:02. Acquisition date : 17-FEB-1998 08:24:23
Decay time : 193 01:40:21.26 % dead time : 0.0%
Elapsed live time: 0 00:12:38.76 Elapsed real time: 0 00:12:38.98

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	3.066E-06	7.296E-07	3.605E-07	3.708E-08
CO-60	0.000E+00	0.000E+00	8.894E-09	8.452E-10
NB-94	0.000E+00	0.000E+00	3.635E-08	3.346E-09
RU-106	0.000E+00	0.000E+00	4.965E-07	8.032E-08
SB-125	0.000E+00	0.000E+00	1.567E-07	1.870E-08
BA-133	0.000E+00	0.000E+00	5.545E-08	1.023E-08
CS-134	0.000E+00	0.000E+00	4.371E-08	4.705E-09
CS-137	1.524E-06	2.283E-07	4.883E-08	6.080E-09
CE-144	0.000E+00	0.000E+00	4.302E-07	7.807E-08
EU-152	0.000E+00	0.000E+00	9.428E-08	1.305E-08

RA-226	3.906E-07	1.270E-07	8.585E-08	1.367E-08
TH-232	5.784E-07	1.414E-07	7.162E-08	1.321E-08
U-235	1.022E-07	6.406E-08	5.340E-08	7.549E-09
AM-241	0.000E+00	0.000E+00	1.251E-07	1.898E-08

Total:	5.662E-06			

VMS Gamma Spectroscopy Report generated 17-FEB-1998 08:56:25

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_11_GE3_800GSANDMG20_4561.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .11 Sample Quantity : 1.04811E+03 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4561 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:44:10.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:44:10. Acquisition date : 17-FEB-1998 08:43:19
Decay time : 193 01:59:09.31 % dead time : 0.0%
Elapsed live time: 0 00:12:44.69 Elapsed real time: 0 00:12:44.92

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.567E-06	6.394E-07	4.619E-07	4.751E-08
CO-60	0.000E+00	0.000E+00	3.602E-08	3.566E-09
NB-94	0.000E+00	0.000E+00	3.252E-08	3.919E-09
RU-106	0.000E+00	0.000E+00	4.488E-07	7.260E-08
SB-125	0.000E+00	0.000E+00	1.439E-07	1.716E-08
BA-133	0.000E+00	0.000E+00	5.751E-08	1.061E-08
CS-134	0.000E+00	0.000E+00	3.836E-08	4.828E-09
CS-137	1.262E-06	1.886E-07	4.240E-08	5.278E-09
CE-144	0.000E+00	0.000E+00	4.283E-07	7.773E-08
EU-152	0.000E+00	0.000E+00	1.005E-07	1.391E-08

RA-226	4.903E-07	1.158E-07	4.867E-08	4.566E-09			
TH-232	3.650E-07	1.648E-07	6.479E-08	1.195E-08			
U-235	4.482E-08	5.694E-08	5.783E-08	8.175E-09			
AM-241	0.000E+00	0.000E+00	1.029E-07	1.561E-08			
---	---						
Total:	4.729E-06						

VMS Gamma Spectroscopy Report generated 17-FEB-1998 09:13:19

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_13_GE3_800GSANDMG20_4563.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .13 Sample Quantity : 9.87450E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4563 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:44:21.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:44:21. Acquisition date : 17-FEB-1998 09:00:33
Decay time : 193 02:16:12.13 % dead time : 0.0%
Elapsed live time: 0 00:12:25.89 Elapsed real time: 0 00:12:26.10

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.397E-06	6.263E-07	2.476E-07	2.546E-08
CO-60	0.000E+00	0.000E+00	3.382E-08	3.348E-09
NB-94	0.000E+00	0.000E+00	3.425E-08	4.127E-09
RU-106	0.000E+00	0.000E+00	4.792E-07	7.752E-08
SB-125	0.000E+00	0.000E+00	1.409E-07	1.681E-08
BA-133	0.000E+00	0.000E+00	5.167E-08	9.533E-09
CS-134	0.000E+00	0.000E+00	4.634E-08	5.833E-09
CS-137	9.653E-07	1.574E-07	4.613E-08	5.744E-09
CE-144	0.000E+00	0.000E+00	4.065E-07	7.376E-08
EU-152	0.000E+00	0.000E+00	1.054E-07	1.459E-08

GLP

Ru-106

VMS Gamma Spectroscopy Report generated 17-FEB-1998 09:49:59

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_14_GE3_800GSANDMG20_4567.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .14 Sample Quantity : 9.82700E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4567 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:44:27.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:44:27. Acquisition date : 17-FEB-1998 09:36:57
Decay time : 193 02:52:30.58 % dead time : 0.0%
Elapsed live time: 0 00:12:42.08 Elapsed real time: 0 00:12:42.30

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.394E-06	6.734E-07	3.959E-07	4.072E-08
CO-60	0.000E+00	0.000E+00	2.379E-08	2.261E-09
NB-94	0.000E+00	0.000E+00	3.385E-08	3.116E-09
RU-106	3.391E-07	2.089E-07	4.768E-07	7.714E-08
SB-125	0.000E+00	0.000E+00	1.450E-07	1.730E-08
BA-133	0.000E+00	0.000E+00	5.359E-08	9.886E-09
CS-134	0.000E+00	0.000E+00	4.279E-08	5.386E-09
CS-137	1.296E-06	1.981E-07	4.393E-08	5.470E-09
CE-144	0.000E+00	0.000E+00	4.231E-07	7.678E-08
EU-152	0.000E+00	0.000E+00	9.291E-08	1.286E-08

RA-226	4.881E-07	1.234E-07	7.917E-08	1.260E-08				
TH-232	5.054E-07	1.439E-07	7.172E-08	1.323E-08				
U-235	1.938E-07	2.047E-07	5.772E-08	8.159E-09				
AM-241	0.000E+00	0.000E+00	1.095E-07	1.661E-08				

Total:	5.217E-06							

GLP
Ce-144

Sheet1

VMS Gamma Spectroscopy Report generated 17-FEB-1998 09:31:50

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_14_GE3_800GSANDMG20_4565.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .14 Sample Quantity : 9.82700E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4565 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:44:27.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:44:27. Acquisition date : 17-FEB-1998 09:18:59
Decay time : 193 02:34:32.88 % dead time : 0.0%
Elapsed live time: 0 00:12:30.85 Elapsed real time: 0 00:12:31.06

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.633E-06	6.569E-07	4.384E-07	4.509E-08
CO-60	0.000E+00	0.000E+00	8.891E-09	8.449E-10
NB-94	0.000E+00	0.000E+00	3.508E-08	4.227E-09
RU-106	0.000E+00	0.000E+00	6.121E-07	9.902E-08
SB-125	0.000E+00	0.000E+00	1.298E-07	1.549E-08
BA-133	0.000E+00	0.000E+00	4.772E-08	8.804E-09
CS-134	0.000E+00	0.000E+00	3.770E-08	4.745E-09
CS-137	1.276E-06	1.941E-07	1.088E-07	1.354E-08
CE-144	2.901E-07	3.125E-07	4.358E-07	7.908E-08
EU-152	0.000E+00	0.000E+00	1.085E-07	1.502E-08

RA-226	4.642E-07	1.047E-07	6.645E-08	8.351E-09				
TH-232	5.619E-07	1.488E-07	6.656E-08	1.227E-08				
U-235	2.711E-08	6.329E-08	5.672E-08	8.017E-09				
AM-241	0.000E+00	0.000E+00	1.097E-07	1.665E-08				

Total:	5.253E-06							

VMS Gamma Spectroscopy Report generated 17-FEB-1998 10:06:30

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_14_GE3_800GSANDMG20_4569.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .14 Sample Quantity : 9.82700E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4569 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:44:27.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:44:27. Acquisition date : 17-FEB-1998 09:53:34
Decay time : 193 03:09:07.66 % dead time : 0.0%
Elapsed live time: 0 00:12:33.72 Elapsed real time: 0 00:12:33.94

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	1.799E-06	5.923E-07	9.775E-07	1.005E-07
CO-60	0.000E+00	0.000E+00	4.888E-08	4.645E-09
NB-94	0.000E+00	0.000E+00	3.186E-08	2.932E-09
RU-106	0.000E+00	0.000E+00	4.813E-07	7.787E-08
SB-125	0.000E+00	0.000E+00	1.365E-07	1.629E-08
BA-133	0.000E+00	0.000E+00	4.505E-08	8.310E-09
CS-134	0.000E+00	0.000E+00	3.880E-08	4.177E-09
CS-137	1.424E-06	2.129E-07	5.368E-08	6.683E-09
CE-144	0.000E+00	0.000E+00	4.471E-07	8.113E-08
EU-152	0.000E+00	0.000E+00	1.146E-07	1.586E-08

RA-226	4.704E-07	1.253E-07	6.894E-08	8.664E-09				
TH-232	4.653E-07	1.277E-07	7.010E-08	1.293E-08				
U-235	1.299E-07	5.485E-08	5.762E-08	8.146E-09				
AM-241	0.000E+00	0.000E+00	1.095E-07	1.662E-08				

Total:	4.288E-06							

GLP

Ce144

VMS Gamma Spectroscopy Report generated 17-FEB-1998 10:24:47

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_15_GE3_800GSANDMG20_4571.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .15 Sample Quantity : 9.85300E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4571 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:44:52.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:44:52. Acquisition date : 17-FEB-1998 10:11:58
Decay time : 193 03:27:06.24 % dead time : 0.0%
Elapsed live time: 0 00:12:28.75 Elapsed real time: 0 00:12:28.95

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.079E-06	6.485E-07	2.472E-07	2.542E-08
CO-60	0.000E+00	0.000E+00	3.376E-08	3.342E-09
NB-94	0.000E+00	0.000E+00	4.058E-08	4.890E-09
RU-106	0.000E+00	0.000E+00	3.841E-07	6.213E-08
SB-125	0.000E+00	0.000E+00	1.266E-07	1.510E-08
BA-133	0.000E+00	0.000E+00	5.549E-08	1.024E-08
CS-134	0.000E+00	0.000E+00	2.599E-08	2.797E-09
CS-137	7.823E-07	1.320E-07	4.308E-08	5.364E-09
CE-144	1.921E-07	2.688E-07	4.395E-07	7.976E-08
EU-152	0.000E+00	0.000E+00	9.059E-08	1.253E-08

RA-226	4.157E-07	1.150E-07	6.050E-08	7.604E-09			
TH-232	4.413E-07	1.356E-07	6.389E-08	1.178E-08			
U-235	1.181E-07	4.820E-08	5.154E-08	7.286E-09			
AM-241	0.000E+00	0.000E+00	1.118E-07	1.697E-08			

Total:	4.028E-06						

VMS Gamma Spectroscopy Report generated 17-FEB-1998 10:41:50

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_15_GE3_800GSANDMG20_4573.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .15 Sample Quantity : 9.85300E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4573 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:44:52.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:44:52. Acquisition date : 17-FEB-1998 10:29:00
Decay time : 193 03:44:08.17 % dead time : 0.0%
Elapsed live time: 0 00:12:30.22 Elapsed real time: 0 00:12:30.43

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.271E-06	6.005E-07	4.376E-07	4.501E-08
CO-60	0.000E+00	0.000E+00	4.078E-08	4.037E-09
NB-94	0.000E+00	0.000E+00	3.810E-08	4.591E-09
RU-106	0.000E+00	0.000E+00	6.035E-07	9.764E-08
SB-125	0.000E+00	0.000E+00	1.330E-07	1.587E-08
BA-133	0.000E+00	0.000E+00	5.647E-08	1.042E-08
CS-134	0.000E+00	0.000E+00	3.748E-08	4.717E-09
CS-137	7.502E-07	1.269E-07	1.151E-07	1.432E-08
CE-144	0.000E+00	0.000E+00	3.996E-07	7.251E-08
EU-152	0.000E+00	0.000E+00	8.781E-08	1.215E-08

RA-226	4.653E-07	1.203E-07	6.038E-08	7.589E-09				
TH-232	4.899E-07	1.324E-07	6.238E-08	1.150E-08				
U-235	1.422E-07	4.767E-08	5.309E-08	7.505E-09				
AM-241	0.000E+00	0.000E+00	1.056E-07	1.602E-08				

Total:	4.119E-06							

VMS Gamma Spectroscopy Report generated 17-FEB-1998 10:58:50

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_16_GE3_800GSANDMG20_4575.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .16 Sample Quantity : 9.99340E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4575 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:45:02.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:45:02. Acquisition date : 17-FEB-1998 10:45:49
Decay time : 193 04:00:47.19 % dead time : 0.0%
Elapsed live time: 0 00:12:29.03 Elapsed real time: 0 00:12:29.21

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.927E-06	7.353E-07	3.552E-07	3.654E-08
CO-60	0.000E+00	0.000E+00	2.637E-08	2.611E-09
NB-94	0.000E+00	0.000E+00	3.199E-08	3.855E-09
RU-106	0.000E+00	0.000E+00	4.438E-07	7.180E-08
SB-125	0.000E+00	0.000E+00	1.330E-07	1.586E-08
BA-133	0.000E+00	0.000E+00	4.953E-08	9.137E-09
CS-134	0.000E+00	0.000E+00	4.185E-08	5.267E-09
CS-137	3.965E-07	8.356E-08	4.090E-08	5.093E-09
CE-144	0.000E+00	0.000E+00	4.077E-07	7.398E-08
EU-152	0.000E+00	0.000E+00	8.556E-08	1.184E-08

RA-226	3.907E-07	1.128E-07	7.330E-08	9.212E-09				
TH-232	5.716E-07	1.741E-07	5.949E-08	1.097E-08				
U-235	7.523E-08	5.487E-08	5.162E-08	7.297E-09				
AM-241	0.000E+00	0.000E+00	1.119E-07	1.698E-08				

Total:	4.361E-06							

GLP
Ce-144

B

VMS Gamma Spectroscopy Report generated 17-FEB-1998 11:14:39

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_17_GE3_800GSANDMG20_4577.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .17 Sample Quantity : 1.06507E+03 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4577 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:45:17.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:45:17. Acquisition date : 17-FEB-1998 11:01:40
Decay time : 193 04:16:23.85 % dead time : 0.0%
Elapsed live time: 0 00:12:36.40 Elapsed real time: 0 00:12:36.68

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.735E-06	6.560E-07	3.301E-07	3.395E-08
CO-60	0.000E+00	0.000E+00	3.741E-08	3.704E-09
NB-94	0.000E+00	0.000E+00	3.517E-08	3.237E-09
RU-106	0.000E+00	0.000E+00	5.271E-07	8.527E-08
SB-125	0.000E+00	0.000E+00	1.284E-07	1.531E-08
BA-133	0.000E+00	0.000E+00	4.957E-08	9.145E-09
CS-134	0.000E+00	0.000E+00	4.237E-08	5.333E-09
CS-137	4.025E-07	8.119E-08	4.935E-08	6.144E-09
CE-144	2.734E-07	3.235E-07	4.282E-07	7.771E-08
EU-152	0.000E+00	0.000E+00	9.914E-08	1.680E-08

RA-226	7.454E-07	1.492E-07	7.455E-08	9.370E-09
TH-232	6.844E-07	1.744E-07	8.262E-08	1.523E-08
U-235	1.398E-07	8.138E-08	5.432E-08	7.679E-09
AM-241	0.000E+00	0.000E+00	1.115E-07	1.691E-08

Total:	4.980E-06			

VMS Gamma Spectroscopy Report generated 17-FEB-1998 11:34:56

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_17_GE3_800GSANDMG20_4579.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .17 Sample Quantity : 1.06507E+03 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4579 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:45:17.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:45:17. Acquisition date : 17-FEB-1998 11:22:10
Decay time : 193 04:36:53.78 % dead time : 0.0%
Elapsed live time: 0 00:12:25.20 Elapsed real time: 0 00:12:25.46

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.048E-06	6.254E-07	4.665E-07	4.798E-08
CO-60	0.000E+00	0.000E+00	4.672E-08	4.440E-09
NB-94	0.000E+00	0.000E+00	3.918E-08	4.722E-09
RU-106	0.000E+00	0.000E+00	5.429E-07	8.783E-08
SB-125	0.000E+00	0.000E+00	1.322E-07	1.577E-08
BA-133	0.000E+00	0.000E+00	4.893E-08	9.026E-09
CS-134	0.000E+00	0.000E+00	4.063E-08	4.373E-09
CS-137	3.847E-07	8.493E-08	5.332E-08	6.638E-09
CE-144	0.000E+00	0.000E+00	4.345E-07	7.884E-08
EU-152	0.000E+00	0.000E+00	1.066E-07	1.474E-08

RA-226	7.236E-07	1.452E-07	6.621E-08	6.643E-09
TH-232	7.799E-07	1.862E-07	7.144E-08	1.317E-08
U-235	1.090E-07	5.457E-08	5.480E-08	7.747E-09
AM-241	0.000E+00	0.000E+00	1.237E-07	1.877E-08

Total:	4.045E-06			

VMS Gamma Spectroscopy Report generated 17-FEB-1998 11:50:54

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_18_GE3_800GSANDMG20_4580.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .18 Sample Quantity : 1.06606E+03 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4580 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:45:28.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:45:28. Acquisition date : 17-FEB-1998 11:38:02
Decay time : 193 04:52:34.16 % dead time : 0.0%
Elapsed live time: 0 00:12:31.39 Elapsed real time: 0 00:12:31.60

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	2.140E-06	5.903E-07	2.867E-07	2.949E-08
CO-60	0.000E+00	0.000E+00	4.942E-08	4.892E-09
NB-94	0.000E+00	0.000E+00	3.421E-08	4.123E-09
RU-106	0.000E+00	0.000E+00	4.573E-07	7.399E-08
SB-125	0.000E+00	0.000E+00	1.362E-07	1.625E-08
BA-133	0.000E+00	0.000E+00	5.346E-08	9.863E-09
CS-134	0.000E+00	0.000E+00	3.747E-08	4.716E-09
CS-137	7.972E-07	1.383E-07	5.072E-08	6.315E-09
CE-144	0.000E+00	0.000E+00	3.968E-07	7.201E-08
EU-152	0.000E+00	0.000E+00	9.570E-08	1.324E-08

GLP
Ru-106

VMS Gamma Spectroscopy Report generated 17-FEB-1998 12:26:06

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_19_GE3_800GSANDMG20_4581.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : 19 Sample Quantity : 9.37140E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4581 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:45:40.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:45:40. Acquisition date : 17-FEB-1998 12:13:09
Decay time : 193 05:27:29.35 % dead time : 0.0%
Elapsed live time: 0 00:12:35.94 Elapsed real time: 0 00:12:36.23

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	3.615E-06	8.205E-07	3.754E-07	3.861E-08
CO-60	0.000E+00	0.000E+00	4.076E-08	4.035E-09
NB-94	0.000E+00	0.000E+00	3.533E-08	4.258E-09
RU-106	4.716E-07	2.781E-07	6.378E-07	1.032E-07
SB-125	0.000E+00	0.000E+00	2.072E-07	2.472E-08
BA-133	0.000E+00	0.000E+00	6.734E-08	1.242E-08
CS-134	0.000E+00	0.000E+00	4.058E-08	4.368E-09
CS-137	3.466E-06	4.691E-07	4.796E-08	5.972E-09
CE-144	0.000E+00	0.000E+00	4.812E-07	8.732E-08
EU-152	0.000E+00	0.000E+00	1.242E-07	1.719E-08

RA-226	4.339E-07	1.170E-07	8.707E-08	1.094E-08		
TH-232	4.802E-07	1.403E-07	9.686E-08	1.786E-08		
U-235	1.166E-07	7.559E-08	7.215E-08	1.020E-08		
AM-241	0.000E+00	0.000E+00	1.286E-07	1.951E-08		

Total:	8.584E-06					

VMS Gamma Spectroscopy Report generated 17-FEB-1998 13:41:03

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_19_GE3_800GSANDMG20_4585.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .19 Sample Quantity : 9.37140E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4585 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:45:40.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:45:40. Acquisition date : 17-FEB-1998 13:28:16
Decay time : 193 06:42:36.56 % dead time : 0.0%
Elapsed live time: 0 00:12:25.93 Elapsed real time: 0 00:12:26.21

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	4.165E-06	9.385E-07	3.114E-07	3.203E-08
CO-60	0.000E+00	0.000E+00	4.130E-08	4.089E-09
NB-94	0.000E+00	0.000E+00	3.396E-08	4.093E-09
RU-106	0.000E+00	0.000E+00	6.889E-07	1.115E-07
SB-125	0.000E+00	0.000E+00	1.881E-07	2.244E-08
BA-133	0.000E+00	0.000E+00	7.541E-08	1.391E-08
CS-134	0.000E+00	0.000E+00	4.894E-08	6.160E-09
CS-137	3.417E-06	4.633E-07	4.861E-08	6.052E-09
CE-144	0.000E+00	0.000E+00	5.195E-07	9.428E-08
EU-152	0.000E+00	0.000E+00	1.258E-07	1.741E-08

RA-226	5.504E-07	1.375E-07	8.960E-08	1.126E-08
TH-232	5.132E-07	1.763E-07	9.007E-08	1.661E-08
U-235	9.793E-08	7.886E-08	7.014E-08	9.915E-09
AM-241	0.000E+00	0.000E+00	1.347E-07	2.043E-08

Total:	8.744E-06			

VMS Gamma Spectroscopy Report generated 17-FEB-1998 13:59:23

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_20_GE3_800GSANDMG20_4586.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .20 Sample Quantity : 8.92480E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4586 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:45:49.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:45:49. Acquisition date : 17-FEB-1998 13:46:31
Decay time : 193 07:00:42.35 % dead time : 0.0%
Elapsed live time: 0 00:12:31.83 Elapsed real time: 0 00:12:32.04

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	6.830E-06	1.232E-06	4.821E-07	4.958E-08
CO-60	0.000E+00	0.000E+00	4.740E-08	4.505E-09
NB-94	0.000E+00	0.000E+00	3.996E-08	3.678E-09
RU-106	0.000E+00	0.000E+00	5.985E-07	9.683E-08
SB-125	0.000E+00	0.000E+00	1.646E-07	1.964E-08
BA-133	0.000E+00	0.000E+00	5.720E-08	1.055E-08
CS-134	0.000E+00	0.000E+00	4.985E-08	6.274E-09
CS-137	3.046E-07	8.266E-08	5.127E-08	6.383E-09
CE-144	0.000E+00	0.000E+00	4.914E-07	8.917E-08
EU-152	0.000E+00	0.000E+00	1.179E-07	1.632E-08

RA-226	7.181E-07	1.566E-07	7.832E-08	7.858E-09			
TH-232	5.985E-07	2.079E-07	8.005E-08	1.476E-08			
U-235	1.028E-07	6.379E-08	6.320E-08	8.934E-09			
AM-241	0.000E+00	0.000E+00	1.247E-07	1.893E-08			

Total:	8.554E-06						

VMS Gamma Spectroscopy Report generated 17-FEB-1998 14:16:44

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_21_GE3_800GSANDMG20_4588.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .21 Sample Quantity : 8.66830E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4588 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:45:59.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:45:59. Acquisition date : 17-FEB-1998 14:03:23
Decay time : 193 07:17:24.69 % dead time : 0.0%
Elapsed live time: 0 00:12:59.81 Elapsed real time: 0 00:13:00.03

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	5.675E-06	1.133E-06	4.386E-07	4.512E-08
CO-60	0.000E+00	0.000E+00	4.631E-08	4.585E-09
NB-94	0.000E+00	0.000E+00	4.653E-08	5.607E-09
RU-106	0.000E+00	0.000E+00	4.685E-07	7.579E-08
SB-125	0.000E+00	0.000E+00	1.540E-07	1.837E-08
BA-133	0.000E+00	0.000E+00	6.198E-08	1.144E-08
CS-134	0.000E+00	0.000E+00	5.321E-08	6.697E-09
CS-137	3.213E-07	6.851E-08	3.609E-08	4.493E-09
CE-144	0.000E+00	0.000E+00	5.075E-07	9.208E-08
EU-152	0.000E+00	0.000E+00	1.024E-07	1.735E-08

RA-226	7.072E-07	1.597E-07	7.613E-08	9.567E-09				
TH-232	5.788E-07	1.775E-07	6.898E-08	1.272E-08				
U-235	1.153E-07	4.828E-08	5.761E-08	8.144E-09				
AM-241	0.000E+00	0.000E+00	1.255E-07	1.905E-08				

Total:	7.397E-06							

VMS Gamma Spectroscopy Report generated 17-FEB-1998 14:32:42

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_23_GE3_800GSANDMG20_4590.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .23 Sample Quantity : 7.61080E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4590 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:46:14.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:46:14. Acquisition date : 17-FEB-1998 14:19:54
Decay time : 193 07:33:40.35 % dead time : 0.0%
Elapsed live time: 0 00:12:28.09 Elapsed real time: 0 00:12:28.27

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	5.927E-06	1.207E-06	3.203E-07	3.294E-08
CO-60	0.000E+00	0.000E+00	5.700E-08	5.643E-09
NB-94	0.000E+00	0.000E+00	4.362E-08	5.257E-09
RU-106	0.000E+00	0.000E+00	6.168E-07	9.979E-08
SB-125	0.000E+00	0.000E+00	1.496E-07	1.785E-08
BA-133	0.000E+00	0.000E+00	5.809E-08	1.072E-08
CS-134	0.000E+00	0.000E+00	5.794E-08	7.293E-09
CS-137	2.840E-07	7.848E-08	6.327E-08	7.877E-09
CE-144	0.000E+00	0.000E+00	4.993E-07	9.060E-08
EU-152	0.000E+00	0.000E+00	1.088E-07	1.505E-08

RA-226	6.583E-07	1.489E-07	8.444E-08	1.344E-08			
TH-232	6.688E-07	1.831E-07	8.189E-08	1.510E-08			
U-235	1.202E-07	6.938E-08	6.513E-08	9.206E-09			
AM-241	0.000E+00	0.000E+00	1.320E-07	2.003E-08			

Total:	7.659E-06						

GLP
Ba-133

VMS Gamma Spectroscopy Report generated 17-FEB-1998 14:55:05

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_24_GE3_800GSANDMG20_4592.CNF;1

--- Sample Information ---

Sample Title : 1615
Sample ID : .24 Sample Quantity : 7.98390E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4592 Spctrm Collector :
Sample Collector : Sample Analyst :

--- Sample Deposition Information ---

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:46:26.

--- Sample Decay/Count Information ---

Sample Date : 8-AUG-1997 06:46:26. Acquisition date : 17-FEB-1998 14:41:59
Decay time : 193 07:55:33.69 % dead time : 0.0%
Elapsed live time: 0 00:12:43.48 Elapsed real time: 0 00:12:43.69

--- Detector Parameters ---

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

--- Processing Parameters ---

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	6.425E-06	1.268E-06	6.074E-07	6.247E-08
CO-60	0.000E+00	0.000E+00	5.135E-08	5.084E-09
NB-94	0.000E+00	0.000E+00	3.570E-08	3.286E-09
RU-106	0.000E+00	0.000E+00	5.968E-07	9.655E-08
SB-125	0.000E+00	0.000E+00	1.469E-07	1.753E-08
BA-133	2.928E-08	4.317E-08	5.845E-08	1.078E-08
CS-134	0.000E+00	0.000E+00	5.349E-08	6.732E-09
CS-137	3.912E-07	8.614E-08	5.574E-08	6.940E-09
CE-144	0.000E+00	0.000E+00	4.798E-07	8.706E-08
EU-152	0.000E+00	0.000E+00	1.077E-07	1.490E-08

RA-226	6.696E-07	1.491E-07	8.696E-08	1.093E-08			
TH-232	6.307E-07	1.927E-07	6.848E-08	1.263E-08			
U-235	7.293E-08	5.789E-08	6.135E-08	8.673E-09			
AM-241	0.000E+00	0.000E+00	1.200E-07	1.820E-08			

Total:	8.219E-06						

VMS Gamma Spectroscopy Report generated 17-FEB-1998 15:10:33

Configuration : DKA300:[GAMMA.SCUSR.ARCHIVE]SMP_24_GE3_800GSANDMG20_4594.CNF;1

---- Sample Information ----

Sample Title : 1615
Sample ID : .24 Sample Quantity : 7.98390E+02 G
Sample Type : Soil Sample Geometry : Soil
Sample Number : 4594 Spctrm Collector :
Sample Collector : Sample Analyst :

---- Sample Deposition Information ----

Dep. Correction? : No Dep. Duration :
Deposition Start : Deposition End : 8-AUG-1997 06:46:26.

---- Sample Decay/Count Information ----

Sample Date : 8-AUG-1997 06:46:26. Acquisition date : 17-FEB-1998 14:57:39
Decay time : 193 08:11:13.19 % dead time : 0.0%
Elapsed live time: 0 00:12:32.80 Elapsed real time: 0 00:12:32.98

---- Detector Parameters ----

Energy cal. time : 2-FEB-1998 08:47:24. Energy cal. oper.:
Detector name : GE3 Counting geometry: 800G_sand_mg20
Effic. cal. time : 21-JAN-1998 10:03:52 Effic. cal. oper.:

---- Processing Parameters ----

Start channel : 50 End channel : 4096
Sensitivity : 3.00000 Gaussian Sens. : 5.00000
Critical level? : No Propagate Errors?: Yes
Empirical Eff? : Yes Library-based eff: Yes
Energy tolerance : 1.50000 Half life ratio : 8.00000
Abundance limit : 60.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Nuclide	Activity (uCi/G)	Activity 2-Sigma Error	MDA (uCi/G)	MDA 2-Sigma Error
K-40	6.646E-06	1.328E-06	2.124E-06	2.184E-07
CO-60	0.000E+00	0.000E+00	6.841E-08	6.772E-09
NB-94	0.000E+00	0.000E+00	5.439E-08	6.554E-09
RU-106	0.000E+00	0.000E+00	6.075E-07	9.828E-08
SB-125	0.000E+00	0.000E+00	1.539E-07	1.836E-08
BA-133	0.000E+00	0.000E+00	5.999E-08	1.107E-08
CS-134	0.000E+00	0.000E+00	4.676E-08	5.885E-09
CS-137	3.848E-07	9.356E-08	5.288E-08	6.584E-09
CE-144	0.000E+00	0.000E+00	4.727E-07	8.577E-08
EU-152	0.000E+00	0.000E+00	1.069E-07	1.480E-08

RA-226	6.622E-07	1.611E-07	1.054E-07	1.677E-08
TH-232	4.639E-07	1.736E-07	7.227E-08	1.333E-08
U-235	9.425E-08	6.805E-08	6.479E-08	9.159E-09
AM-241	0.000E+00	0.000E+00	1.278E-07	1.939E-08

Total:	8.251E-06			

LB5100-W Low Background Counting System -- Soil Analysis

Date: 2/27/98
Counting Unit Id: 1
Data file name: [1615.XLD]SOILAB2
Batch Ended: 2/26/98 18:24
Crosstalk Correction: Not Applied

Batch ID: 1615

Alpha activity action level (pCi/g): 4.50E+00
Beta activity action level (pCi/g): 6.00E+00
Certainty level for MDA and flags: 75.00%
Mass Error: 1.00%
Alpha Beta Voltage Setting: 1500
Application Revision: 2.1.3
Application Version: standard

Alpha efficiency log file: soil_a
Alpha Efficiency: 28.00%
Alpha to Beta Crosstalk: 30.38%
Alpha Background (CPM): 0.17
Alpha Correction Factor: 1.000

Beta efficiency log file: soil_b
Beta Efficiency: 36.67%
Beta into Alpha Crosstalk: 1.20%
Beta Background (CPM): 1.10
Beta Correction Factor: 1.000

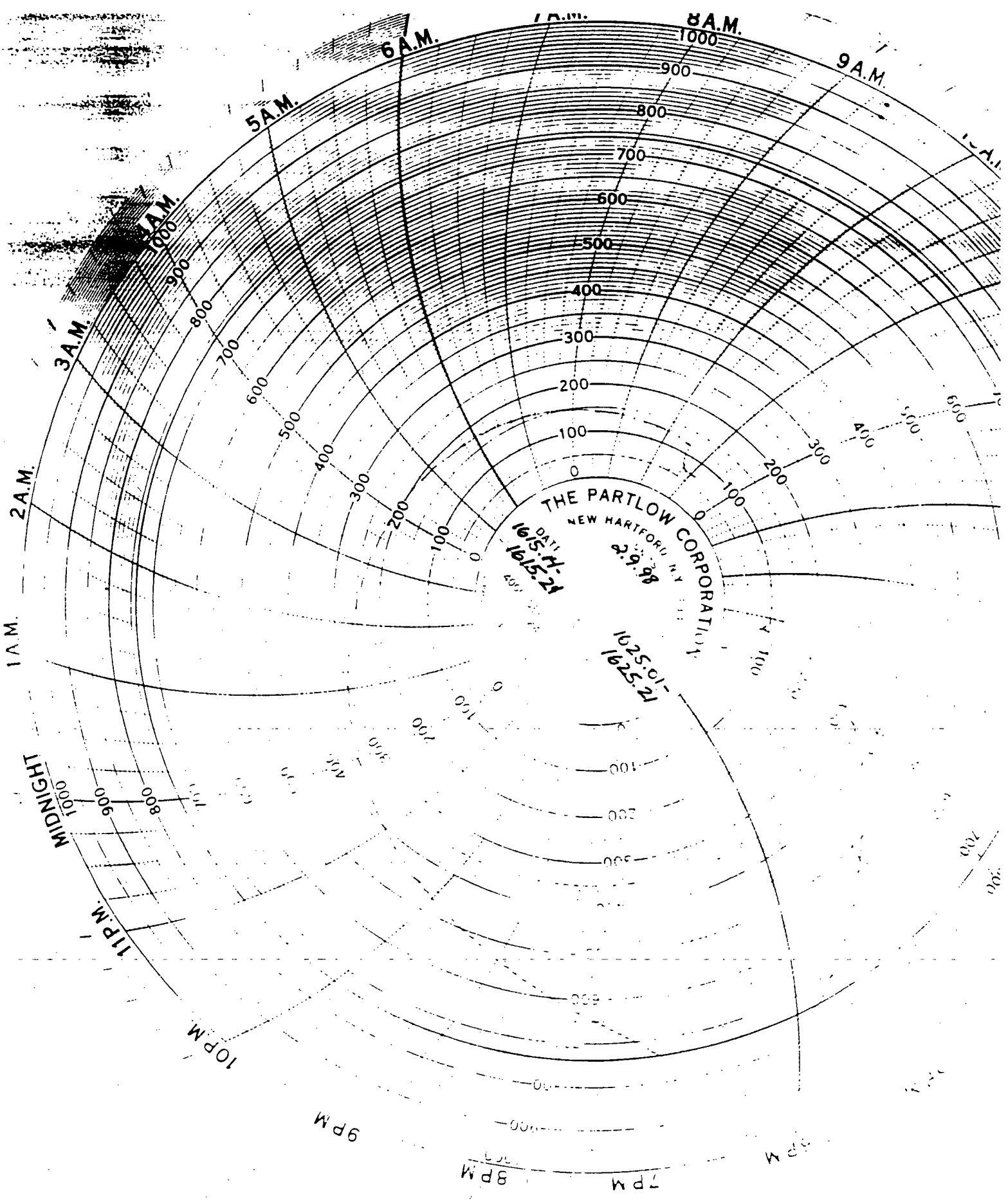
Carrier		Alpha Activity				Beta Activity				Mass		
										Residual	Sample	Completion
Number	ID	pCi/g	1σ	flags	MDA	pCi/g	1σ	flags	MDA	g	g	Date - Time
101	0.01	2.53E+00	8.80E-01	<AL	5.51E-01	3.71E+00	7.53E-01	<AL	4.97E-01	0.11	2.02	2/26/98 14:40
102	0.02	1.92E+00	7.36E-01	<AL	5.08E-01	5.24E+00	8.85E-01	<AL	4.83E-01	0.10	2.00	2/26/98 14:50
103	0.03	3.17E+00	8.83E-01	<AL	4.50E-01	6.14E+00	9.34E-01	At AL	4.54E-01	0.09	2.04	2/26/98 15:00
104	0.04	2.41E+00	9.93E-01	<AL	7.12E-01	7.25E+00	1.21E+00	>AL	5.58E-01	0.14	1.99	2/26/98 15:10
105	0.05	3.05E+00	8.73E-01	<AL	4.60E-01	4.31E+00	7.72E-01	<AL	4.66E-01	0.08	1.98	2/26/98 15:21
106	0.06	2.39E+00	8.28E-01	<AL	5.21E-01	3.96E+00	7.64E-01	<AL	4.84E-01	0.10	2.03	2/26/98 15:31
107	0.07	2.98E+00	8.05E-01	<AL	4.01E-01	5.80E+00	8.73E-01	At AL	4.35E-01	0.07	2.02	2/26/98 15:41
108	0.08	2.45E+00	7.77E-01	<AL	4.54E-01	5.47E+00	8.76E-01	At AL	4.59E-01	0.08	2.01	2/26/98 15:51
109	0.09	1.78E+00	6.79E-01	<AL	4.70E-01	5.92E+00	9.28E-01	At AL	4.69E-01	0.09	1.99	2/26/98 16:01
110	0.1	2.74E+00	8.70E-01	<AL	5.06E-01	8.63E+00	1.21E+00	>AL	4.85E-01	0.10	1.98	2/26/98 16:12
111	0.11	3.65E+00	1.03E+00	<AL	5.19E-01	1.01E+01	1.36E+00	>AL	4.85E-01	0.10	2.02	2/26/98 16:22
112	0.13	4.74E+02	6.20E+01	>AL	6.31E-01	6.47E+02	6.55E+01	>AL	5.29E-01	0.13	2.00	2/26/98 16:32
113	0.14	4.70E+02	5.73E+01	>AL	5.32E-01	6.21E+02	5.80E+01	>AL	4.91E-01	0.11	2.01	2/26/98 16:42
114	0.15	1.22E+00	5.33E-01	<AL	4.11E-01	4.87E+00	7.97E-01	<AL	4.42E-01	0.07	2.00	2/26/98 16:52
115	0.16	1.55E+00	5.56E-01	<AL	3.70E-01	3.70E+00	6.69E-01	<AL	4.24E-01	0.06	1.99	2/26/98 17:02
116	0.17	2.52E+00	7.98E-01	<AL	4.66E-01	6.92E+00	1.02E+00	>AL	4.63E-01	0.09	2.02	2/26/98 17:13
117	0.18	2.46E+00	7.48E-01	<AL	4.23E-01	4.60E+00	7.78E-01	<AL	4.46E-01	0.07	2.01	2/26/98 17:23
118	0.19	3.96E+00	1.03E+00	At AL	4.80E-01	9.76E+00	1.29E+00	>AL	4.69E-01	0.09	2.02	2/26/98 17:33
119	0.2	3.94E+00	1.29E+00	At AL	7.29E-01	6.58E+00	1.14E+00	At AL	5.61E-01	0.15	2.01	2/26/98 17:43
120	0.21	2.70E+00	9.90E-01	<AL	6.44E-01	4.65E+00	8.93E-01	<AL	5.34E-01	0.13	2.00	2/26/98 17:53
121	0.23	5.28E+02	7.82E+01	>AL	8.49E-01	6.72E+02	7.82E+01	>AL	6.03E-01	0.16	1.98	2/26/98 18:03
122	0.24	4.17E+02	4.98E+01	>AL	5.04E-01	5.79E+02	5.26E+01	>AL	4.81E-01	0.10	2.00	2/26/98 18:14
123	.b	3.50E-02	1.68E-01	<MDA	2.59E-01	1.29E-01	2.64E-01	<MDA	3.64E-01	0.01	2.00	2/26/98 18:24

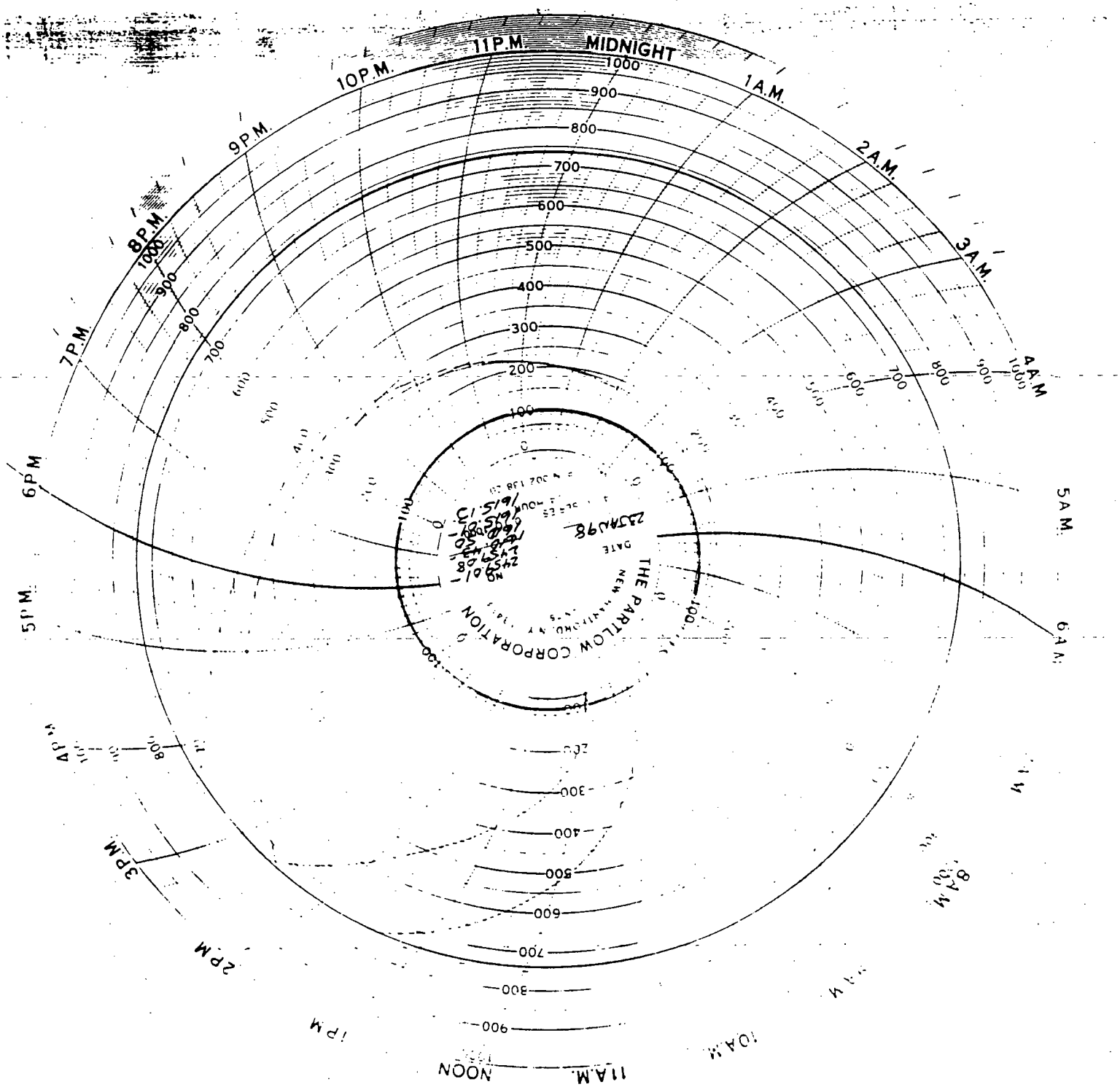
Carrier	Chan 0	Chan 1	Chan 2	Chan 3	Chan 4	Chan 5	Chan 6	Guard	Time	Aquisition	Main Bias	Aux Bias	Date/Time
101	13	53	67	0	0	0	10.0121	1958	10	0	1500	0	2/26/98 14:40:25
102	11	72	85	0	0	0	10.0127	2063	10	0	1500	0	2/26/98 14:50:30
103	19	87	107	0	0	0	10.0126	2036	10	0	1500	0	2/26/98 15:00:43
104	10	84	99	0	0	0	10.0124	2009	10	0	1500	0	2/26/98 15:10:57
105	18	63	89	0	0	0	10.0124	2002	10	0	1500	0	2/26/98 15:21:01
106	13	57	75	0	0	0	10.0123	1988	10	0	1500	0	2/26/98 15:31:15
107	20	86	109	0	0	0	10.0123	1991	10	0	1500	0	2/26/98 15:41:28
108	15	78	95	0	0	0	10.0127	2055	10	0	1500	0	2/26/98 15:51:33
109	11	82	96	0	0	0	10.0122	1973	10	0	1500	0	2/26/98 16:01:47
110	15	111	130	0	0	0	10.0122	1973	10	0	1500	0	2/26/98 16:12:00
111	19	128	151	0	0	0	10.013	2097	10	0	1500	0	2/26/98 16:22:05
112	1854	6886	9038	0	0	0	10.0223	2109	10	0	1500	0	2/26/98 16:32:18
113	2180	7119	9604	0	0	0	10.0223	2002	10	0	1500	0	2/26/98 16:42:32
114	9	73	83	0	0	0	10.0124	2012	10	0	1500	0	2/26/98 16:52:45
115	12	60	73	0	0	0	10.0118	1917	10	0	1500	0	2/26/98 17:02:50
116	15	95	112	0	0	0	10.0124	2012	10	0	1500	0	2/26/98 17:13:03
117	16	69	87	0	0	0	10.0121	1962	10	0	1500	0	2/26/98 17:23:17
118	22	128	151	0	0	0	10.0127	2046	10	0	1500	0	2/26/98 17:33:22
119	15	77	93	0	0	0	10.0126	2039	10	0	1500	0	2/26/98 17:43:35
120	12	60	79	0	0	0	10.0119	1924	10	0	1500	0	2/26/98 17:53:40
121	1535	6279	8073	0	0	0	10.0207	2007	10	0	1500	0	2/26/98 18:03:53
122	2043	6769	9102	0	0	0	10.0217	2003	10	0	1500	0	2/26/98 18:14:07
123	2	13	17	0	0	0	10.0122	1992	10	0	1500	0	2/26/98 18:24:20

Quality Control Log Form

Batch #: 1614

Date	Time	QC Type	Count Value (dpm)	True Value (dpm)	± 20% T.V. Yes/No	Technician
26Feb98	1632	alpha	2104.56	1975.80	6.52%	JE
26Feb98	1632	beta	2872.68	2029.20	41.57%	JE
26Feb98	1642	alpha	2097.23	1975.80	6.15%	JE
26Feb98	1642	beta	2771.03	2029.20	36.56%	JE
26Feb98	1803	alpha	2320.88	1975.80	17.47%	JE
26Feb98	1803	beta	2953.84	2029.20	45.57%	JE
26Feb98	1814	alpha	1851.48	1975.80	-6.29%	JE
26Feb98	1814	beta	2570.76	2029.20	26.69%	JE


6A.M.
7A.M.
8A.M.
9A.M.
5A.M.
4A.M.
3A.M.
2A.M.
1A.M.
MIDNIGHT
11P.M.
10PM
9PM
8PM
7PM
1000
900
800
700
600
500
400
300
200
100
0
THE PARTLOW CORPORATION
NEW HARTFORD, N.Y.
DATE
1615.H-
1615.21
2.9.98
1625.01-
1625.21


MIDNIGHT
11P.M.
10P.M.
9P.M.
8P.M.
7PM
6PM
5PM
1A.M.
2A.M.
3A.M.
4A.M
5A.M.
6A.M.
1000
900
800
700
600
500
400
300
200
100
0
NOON
11A.M.
10A.M.
1PM
2PM
3PM
THE PARTLOW CORPORATION
DATE

A R C H I V E S H E E T

Batch Number: 1615.01 Through: 1615.24

Archive Location: Building 9019

Archive Area: _____

- Has all required analysis been completed? ✓
- Do the samples within the batch reconcile to the Chain-of Custody? ✓
- Are the sample labels intact? ✓
- Does the data package contain the following?
  - Survey Requirements Form? ✓
  - Site Map? N
  - Field Survey Report? N
  - Log-In Check Sheet? ✓
  - Sample Non-Conformance Statement Form? ✓
  - Sample Chronicle? ✓
  - Results and supporting data for the analyses required by the Chain-of Custody? ✓

Technician: James Elliott Date: 03.02.98

Radiological Engineering non-Conformance and Corrective Action Form

1. Date: 2.17.98 Report No: 29

2. Filed By: TIM MURPHY

3. Problem(s): FALSE POSITIVES

4. Instrument (if any): GE-3

5. What Data was impacted? (place a **copy** of this form in data folder, n/a if none):
1615.02, 1615.04, 1615.05, 1615.09, 1615.14, 1615.15
1615.17, 1615.19, 1615.24

6. SOP Citation: GLP

---

7. Major Area/Situation(s) investigated: RAW DATA FILES, DATA SPECTRUM

8. Conclusions of investigation: FALSE POSITIVES ARE FALSE PEAKS FOUND.

9. Corrective Actions Taken - Date: 2/17/98
RERUN SAMPLES AFTER SPECTRUM ANALYZED.

Laboratory Manager Approval: B. MK Date: 3/4/98

Project Manager Approval: DEC Date: 5/6/98

Follow-up inspection Findings: _____

Inspector: _____ Date: ___/___/___

CECOM Safety Radiological Engineering Laboratory

Sample Chronicle

Survey/Batch Number: 1615

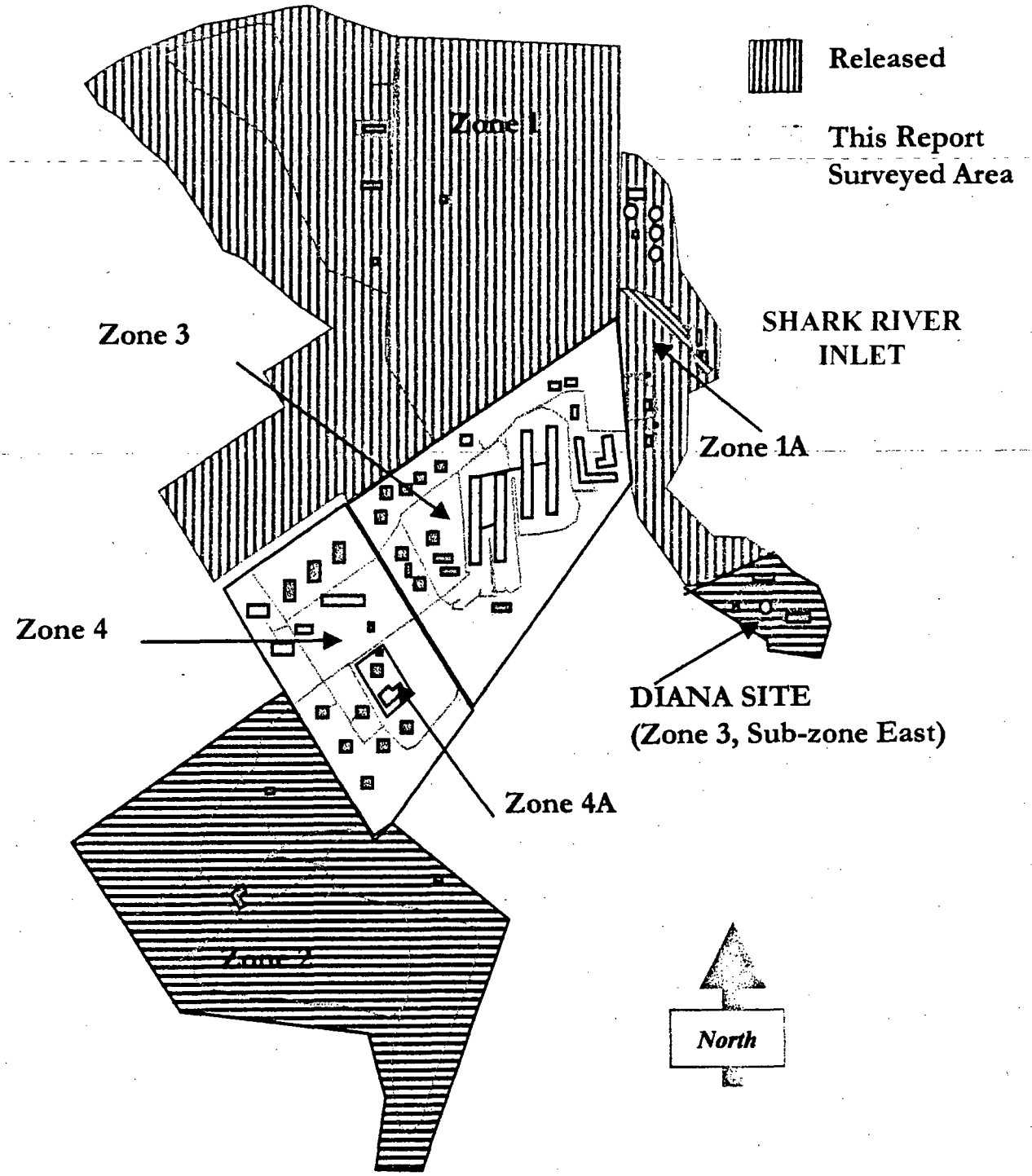
Date	Time	Purpose of Transfer	Technician
DBAug97	0905	sample log-in	JE
2.10.98	0830	GAMMA PREP. (.01 - .13)	TM
2.12.98	1000	GAMMA PREP (.14-.24)	TM
2.13.98	0930	GAMMA ANALYSIS (.01-.09)	TM
2.17.98	0800	GAMMA ANALYSIS (.10-.24)	TM
2.24.98	0900	α/β PREP. (.01-24)	TM
2.26.98	1500	α/β ANALYSIS (.01-.24)	TM
03.02.98	0900	Archive	JE

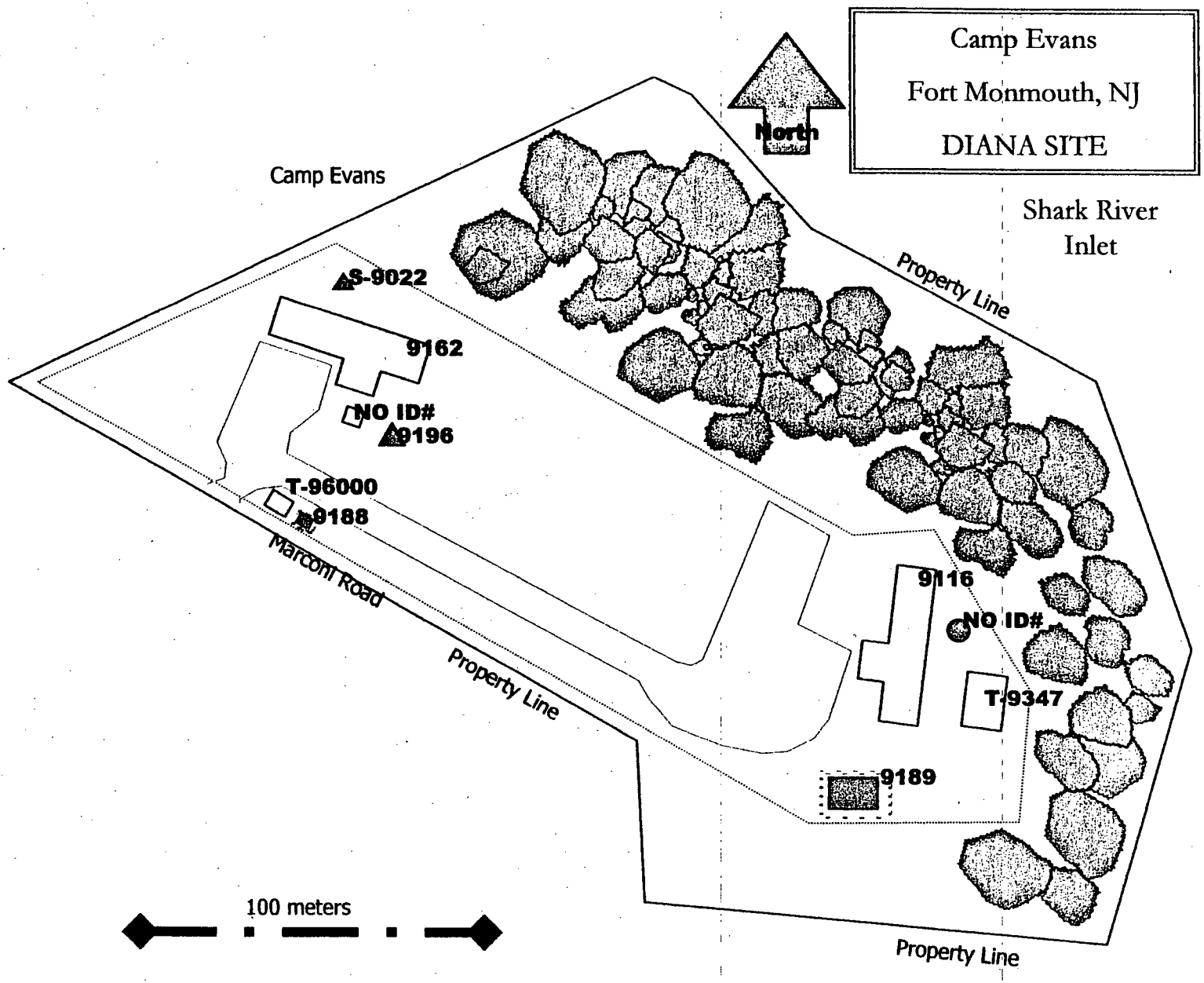
APPENDIX D

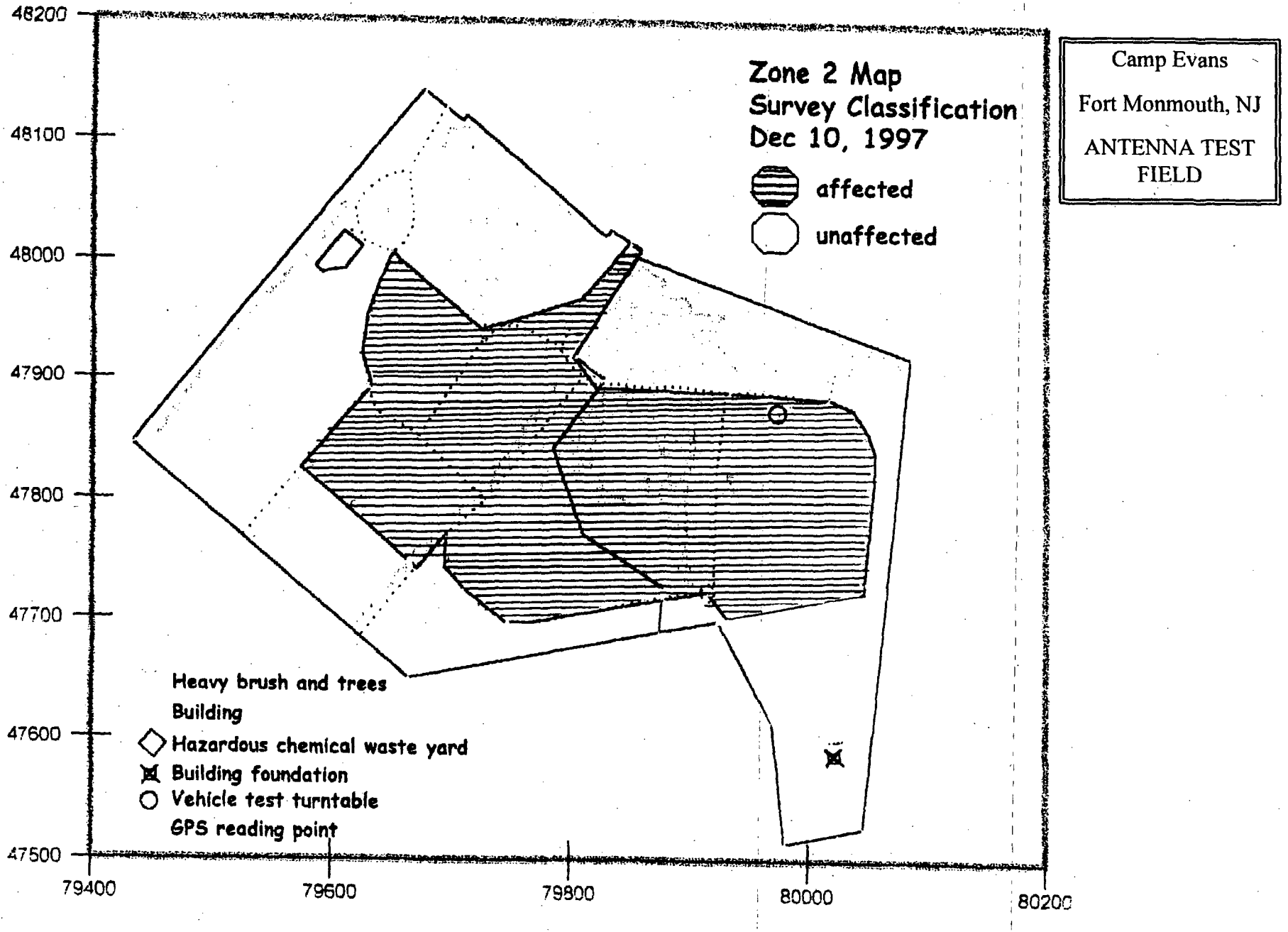
CAMP EVANS MAPS

A. Camp Evans
B. DIANA Project Site, zone 3 sub-zone East
C. Antenna Test Field, survey zone 2

Camp Evans Map




Camp Evans
Fort Monmouth, NJ
DIANA SITE
North
Camp Evans
Shark River
Inlet
Property Line
S-9022
9162
NO ID#
9196
T-96000
9188
Marconi Road
Property Line
9116
NO ID#
T-9347
9189
100 meters
Property Line


Zone 2 Map
Survey Classification
Dec 10, 1997
affected
unaffected
Camp Evans
Fort Monmouth, NJ
ANTENNA TEST FIELD
Heavy brush and trees
Building
Hazardous chemical waste yard
Building foundation
Vehicle test turntable
GPS reading point
48200
48100
48000
47900
47800
47700
47600
47500
79400
79600
79800
80000
80200

APPENDIX E

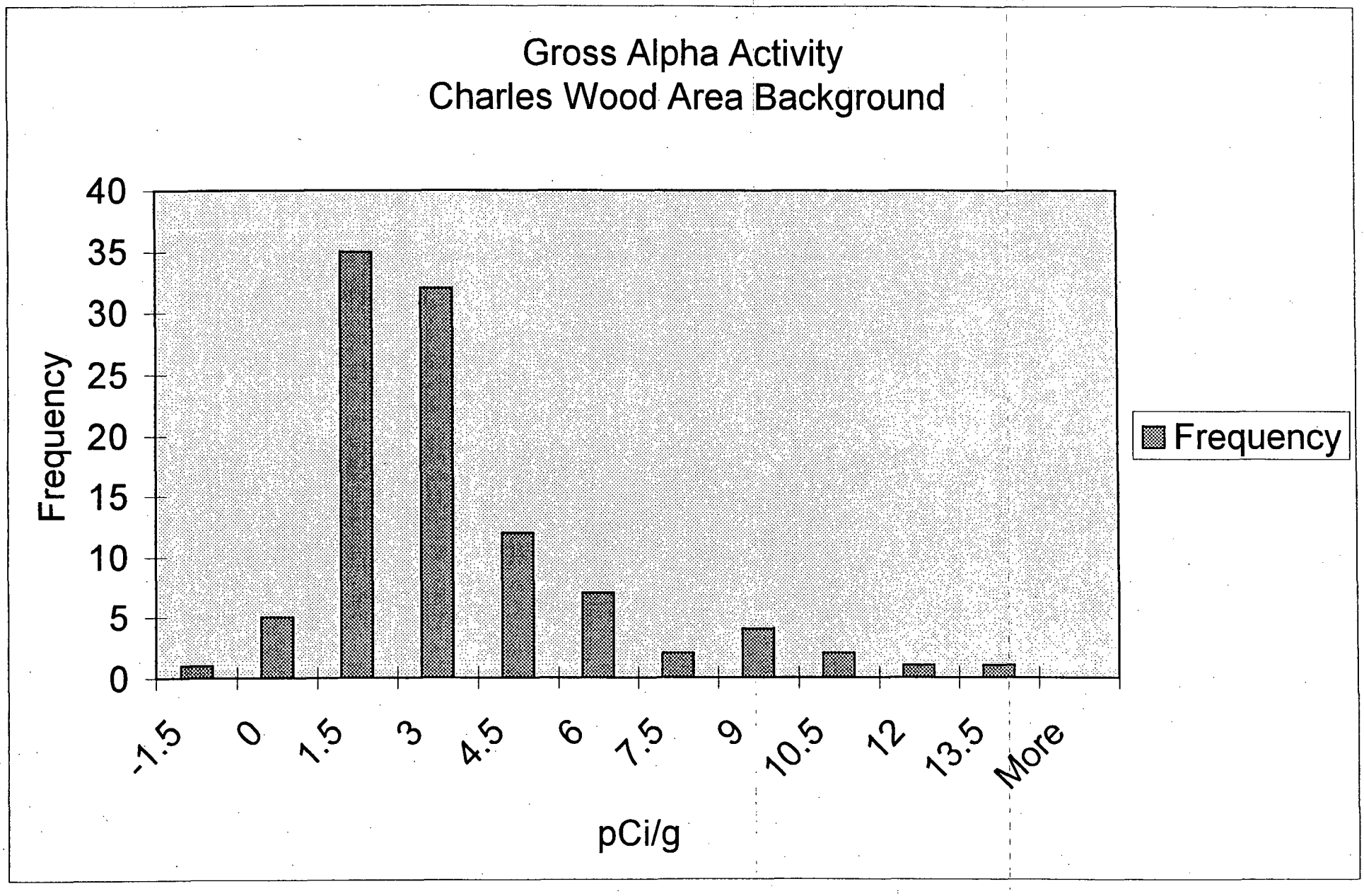
GRAPHS SOIL ACTIVITY AND CHARLES WOOD AREA BACKGROUND

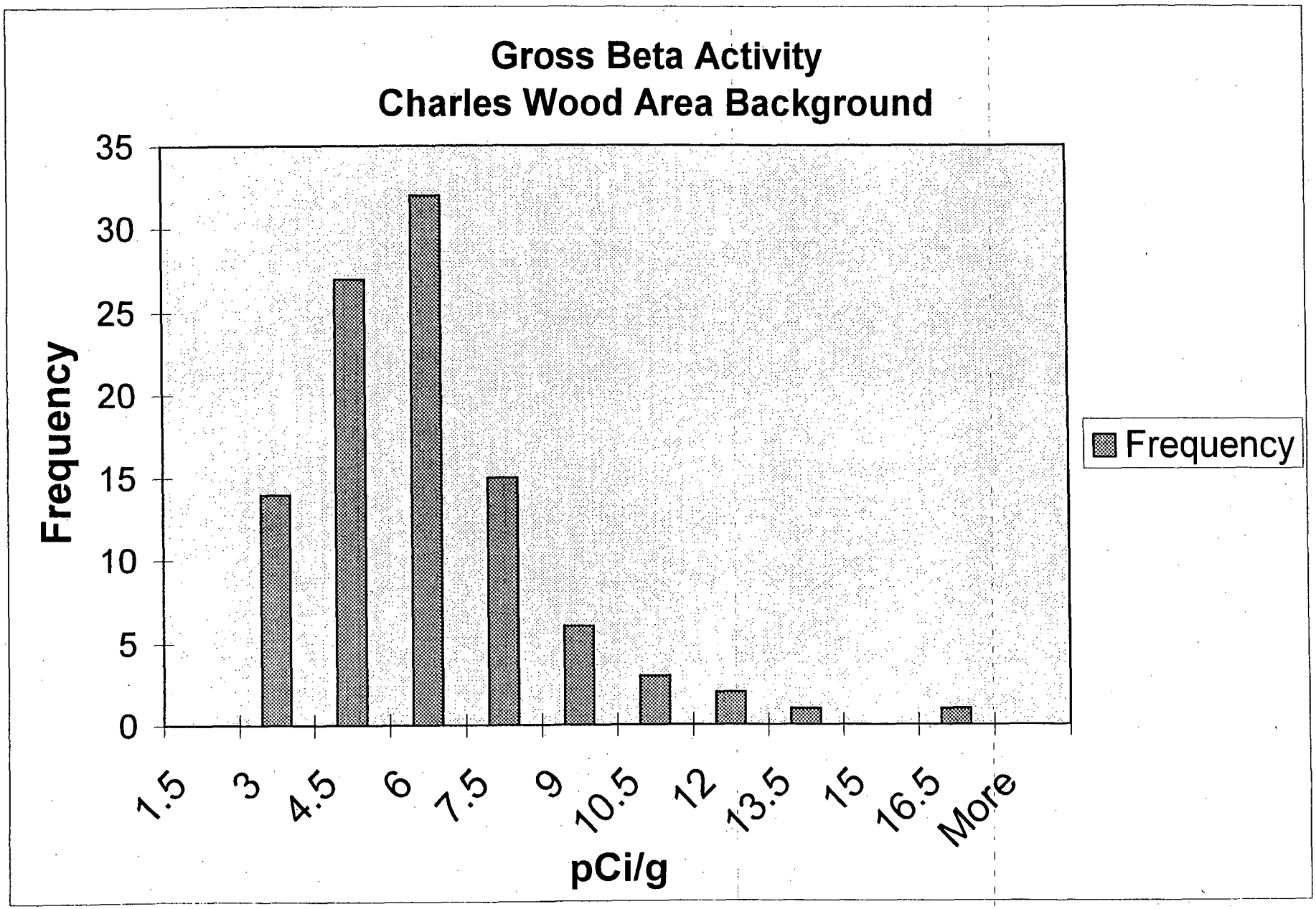
Charles Wood Area:

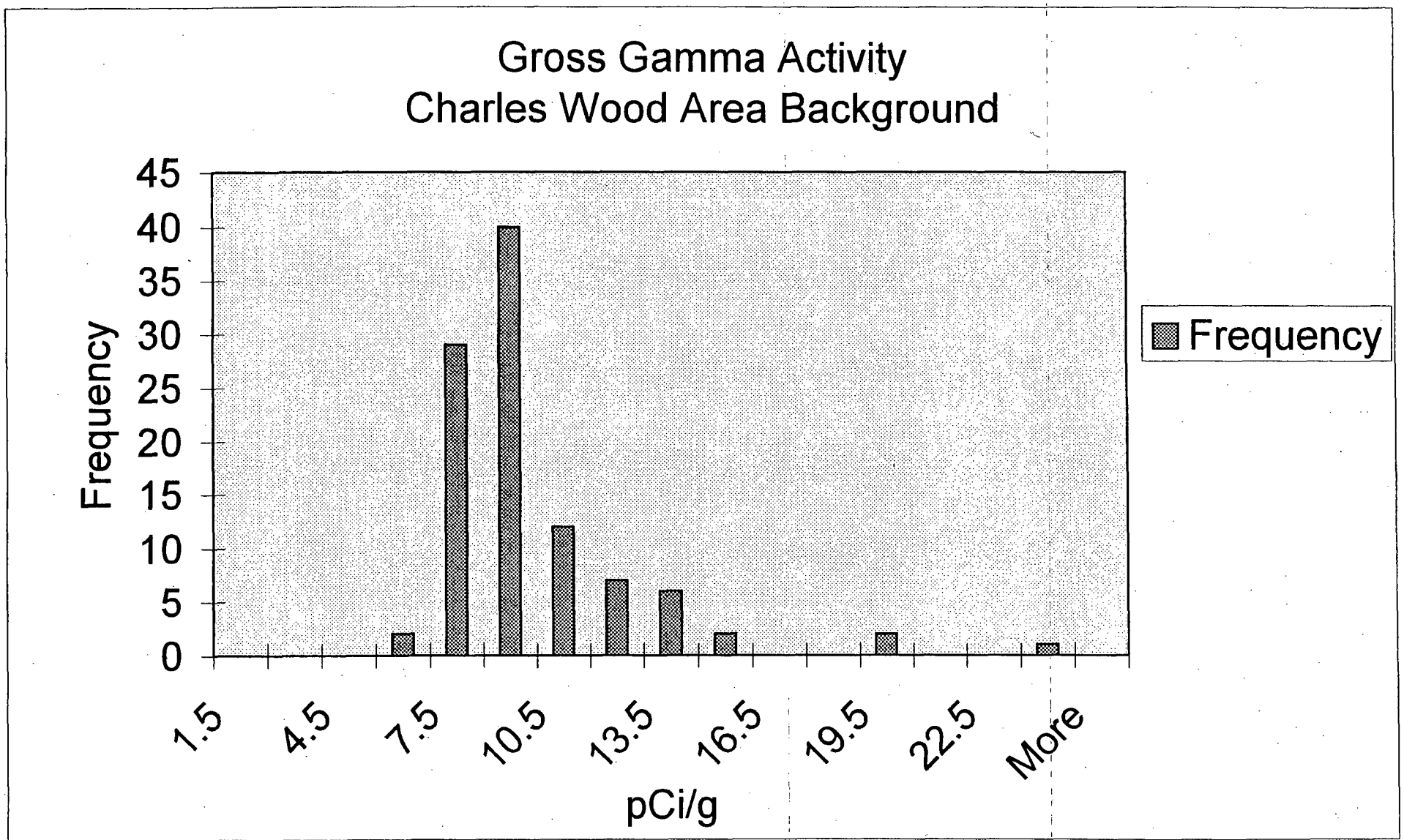
A. Gross alpha activity level vs. frequency (stem and leaf)
B. Gross beta activity level vs. frequency (stem and leaf)
C. Gross gamma activity level vs. frequency (stem and leaf)
D. Gross alpha activity ranked high to low w/plus and minus one sigma deviation from average.
E. Gross beta activity ranked high to low w/plus and minus one sigma deviation from average.
F. Gross gamma activity ranked high to low w/plus and minus one sigma deviation from average.

Zone 2:

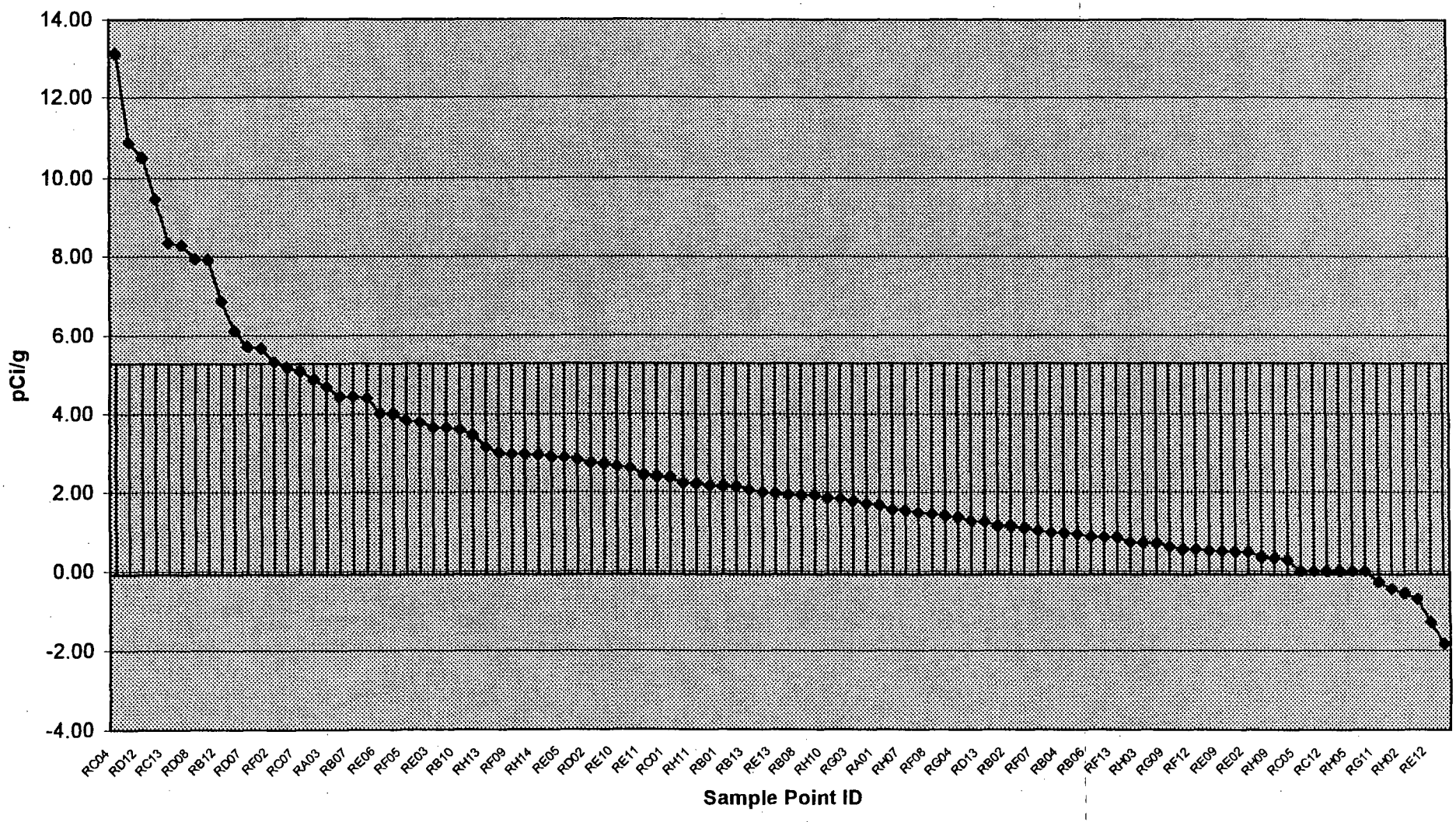
G. Sub-zones A through F and H through N gross alpha activity level vs. frequency (steam and leaf).
H. Sub-zones A through F and H through N gross beta activity level vs. frequency (steam and leaf).
I. Sub-zones A through F and H through N gross gamma activity level vs. frequency (steam and leaf).
J. Sub-zones A through F and H through N gross alpha activity ranked high to low with plus and minus one sigma deviation from average.
K. Sub-zones A through F and H through N gross beta activity ranked high to low with plus and minus one sigma deviation from average.
L. Sub-zones A through F and H through N gross gamma activity ranked high to low w/plus and minus one sigma deviation from average.


Gross Alpha Activity
Charles Wood Area Background
Frequency
40
35
30
25
20
15
10
5
0
-1.5
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
More
pCi/g
Frequency

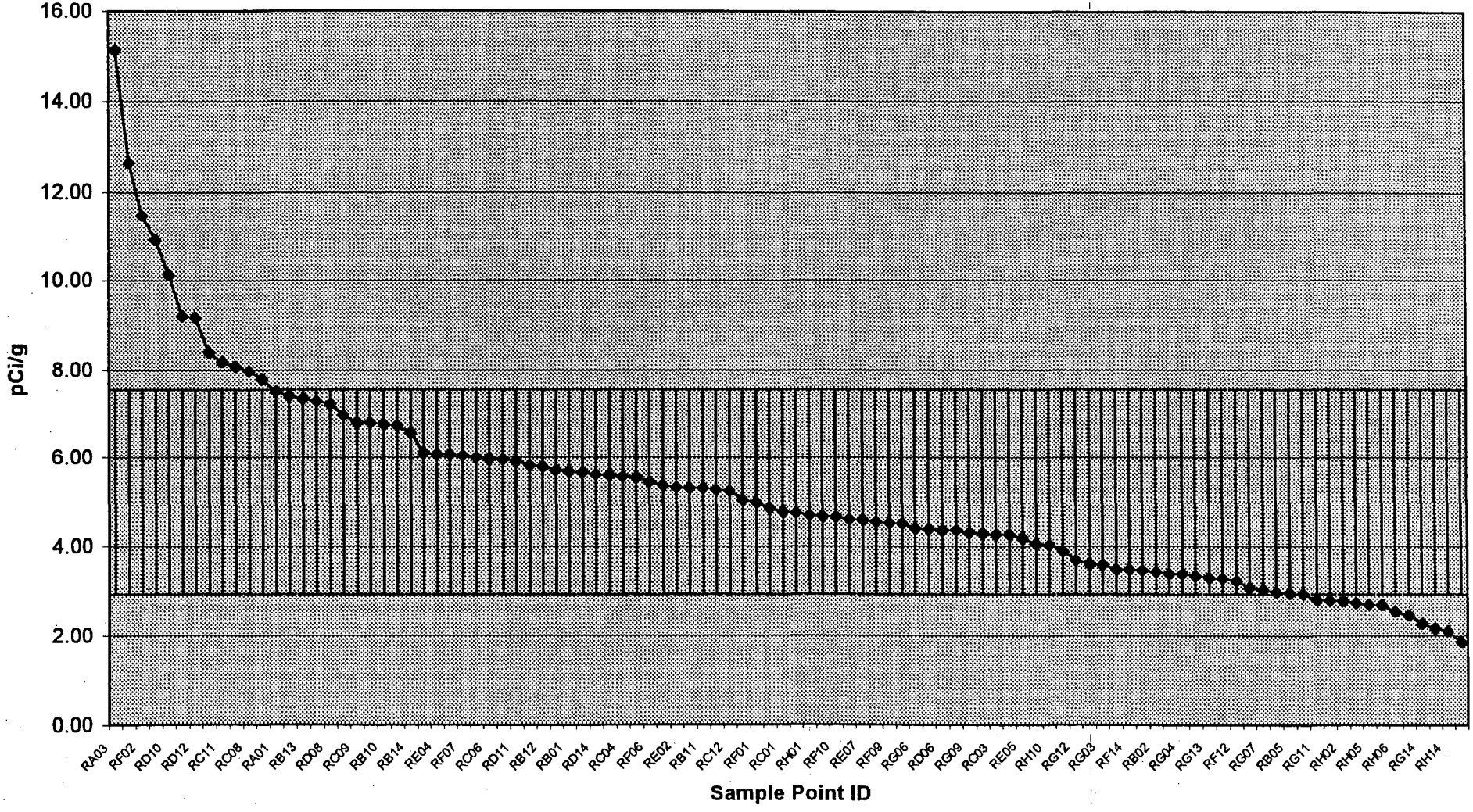

Gross Beta Activity
Charles Wood Area Background
Frequency
35
30
25
20
15
10
5
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
More
pCi/g
Frequency


Gross Gamma Activity
Charles Wood Area Background
Frequency
45
40
35
30
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
More
pCi/g
Frequency

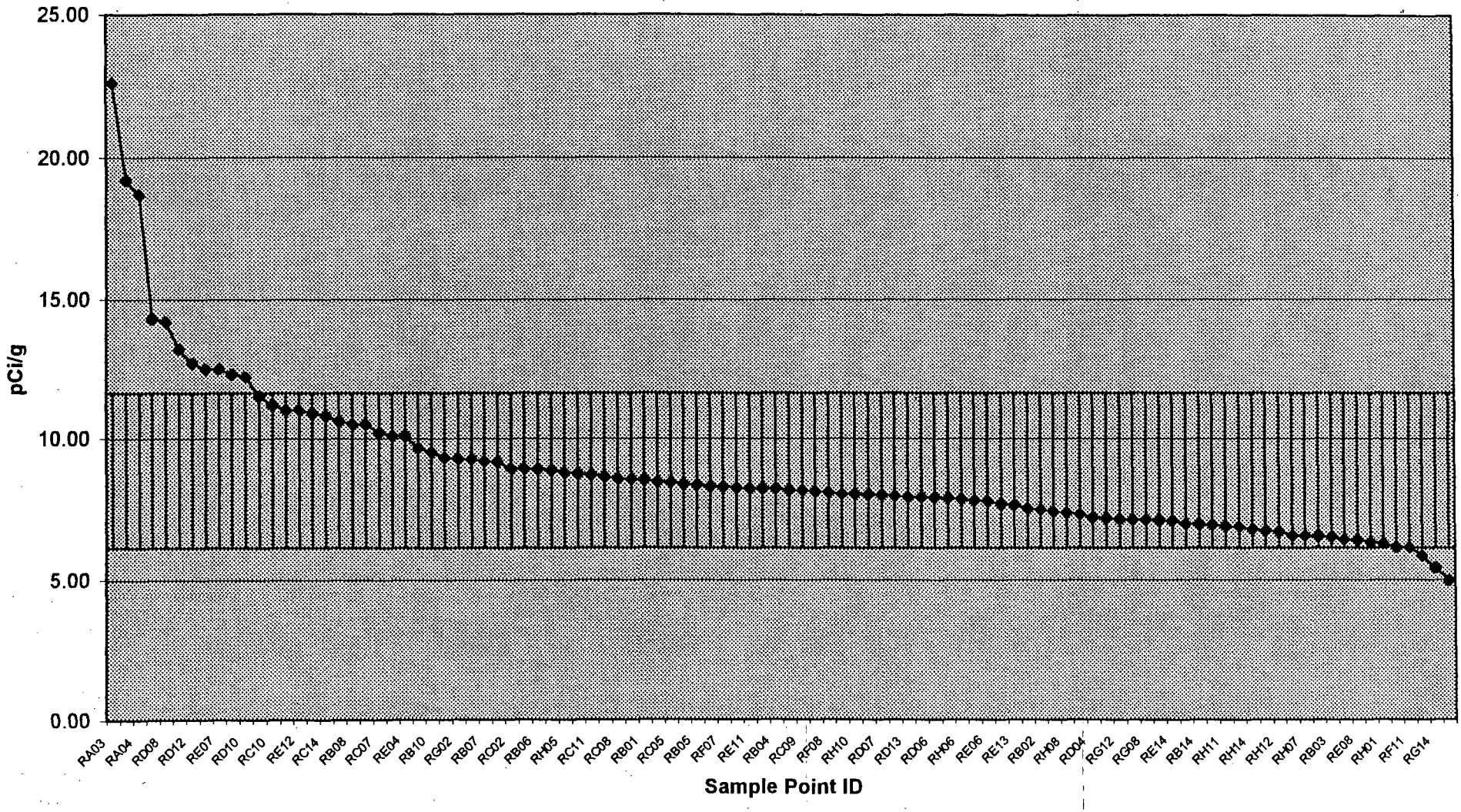
Soil Gross Alpha Results (1 Sigma)
Charles Wood Background

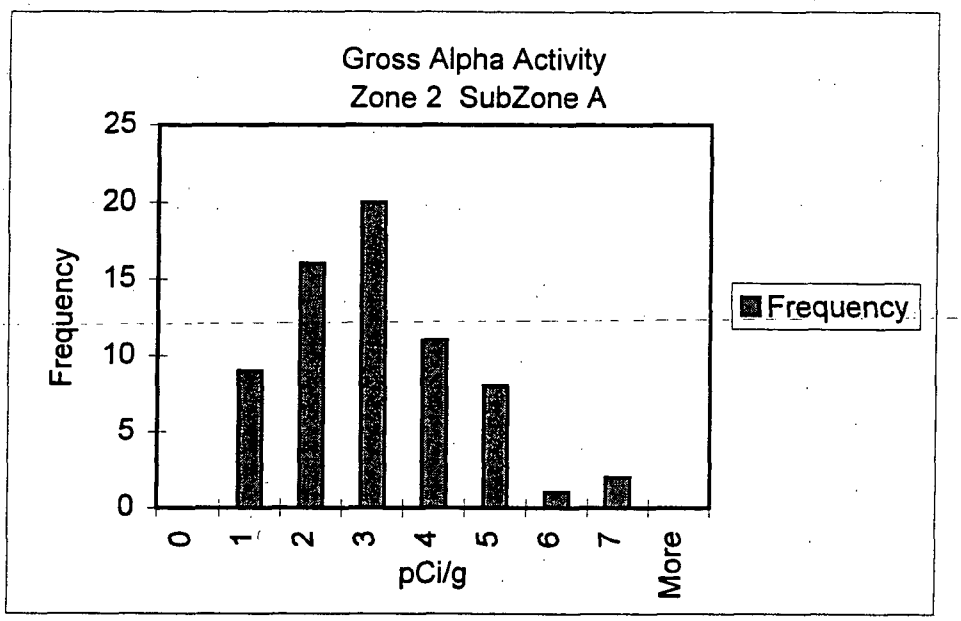


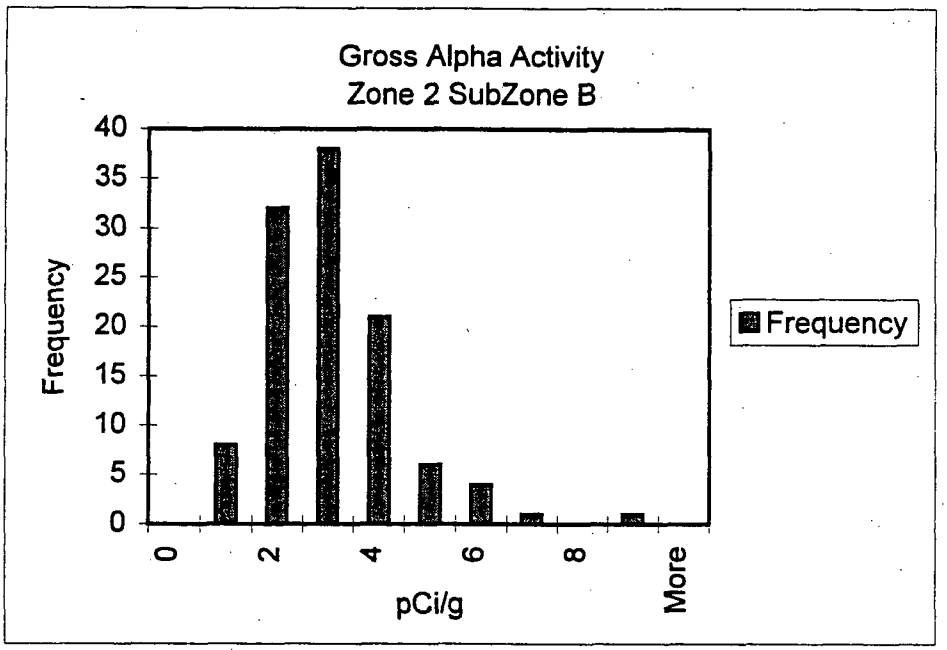
Soil Gross Beta Results (1 Sigma)
Charles Wood Area Background

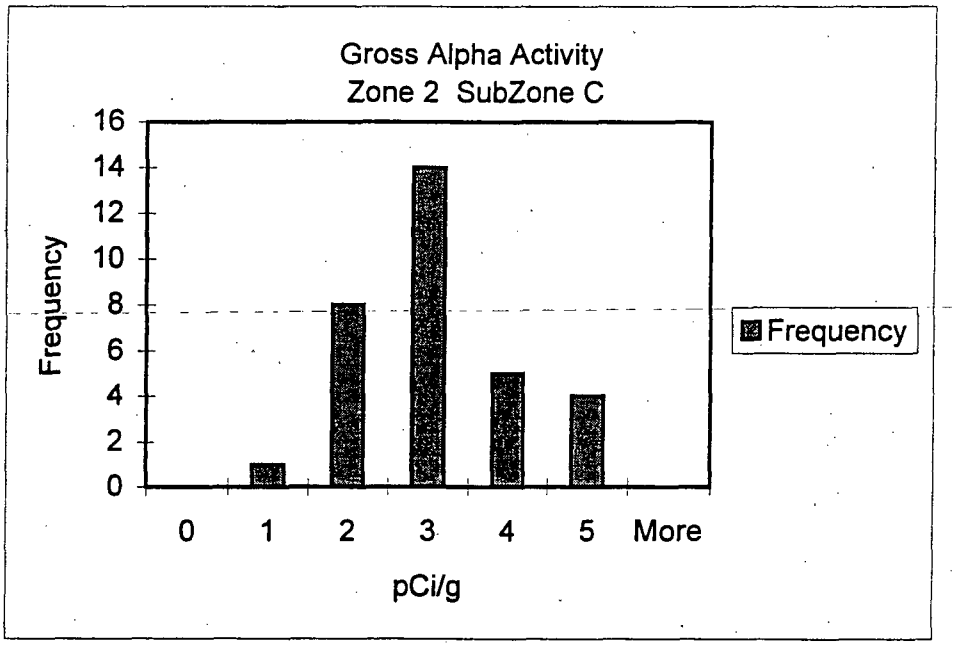


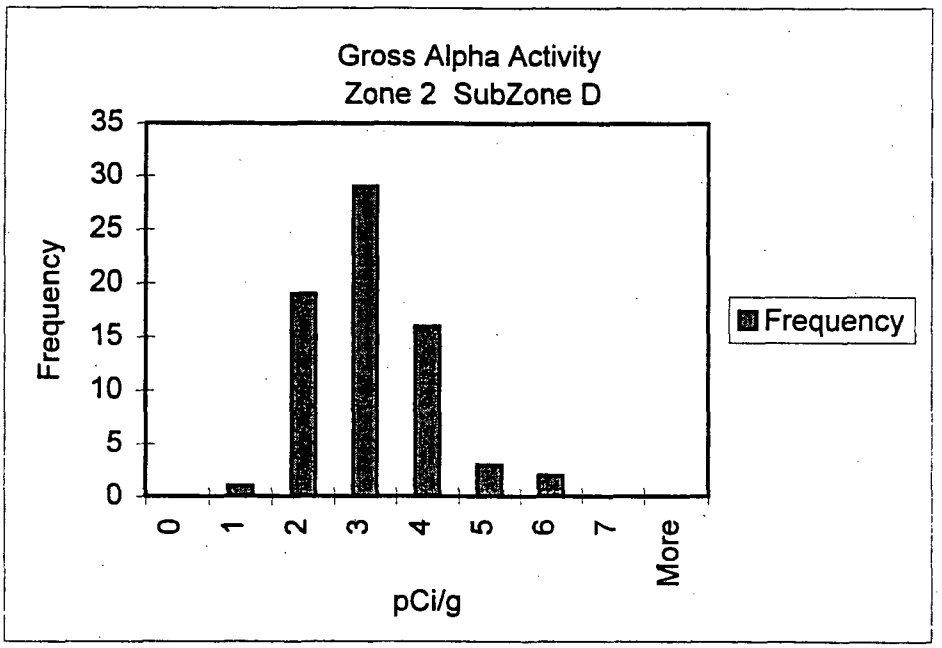
Soil Gross Gamma Results (1 Sigma)
Charles Wood Area Background

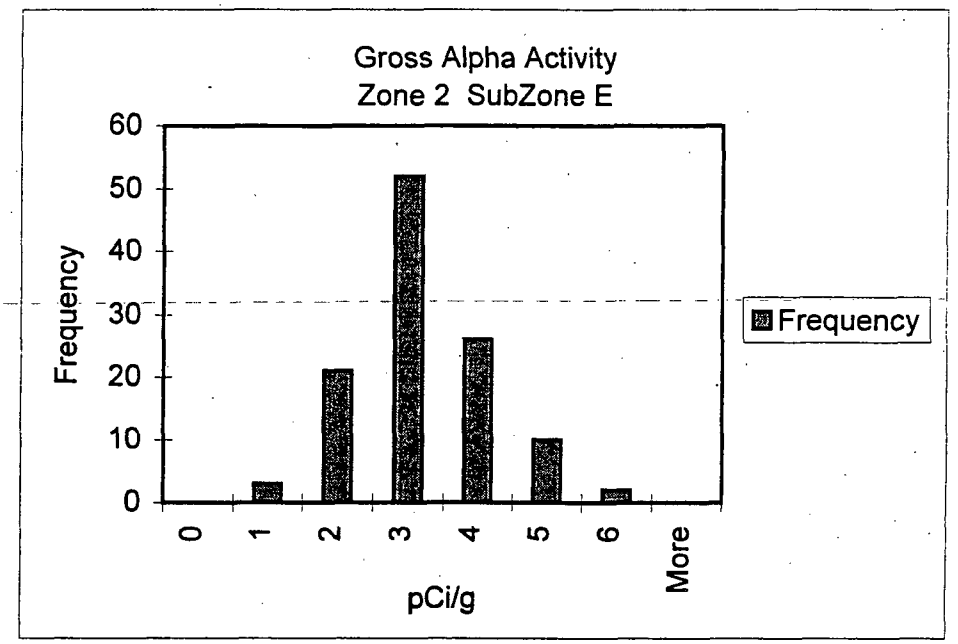


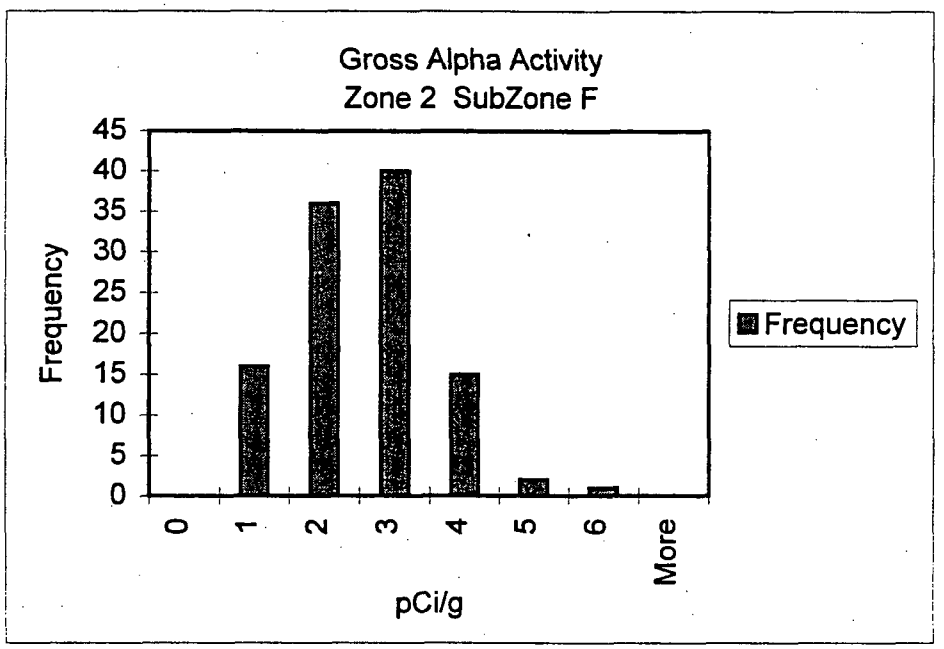

Gross Alpha Activity
Zone 2 SubZone A
Frequency
25
20
15
10
5
0
0
1
2
3
4
5
6
7
More
pCi/g
Frequency

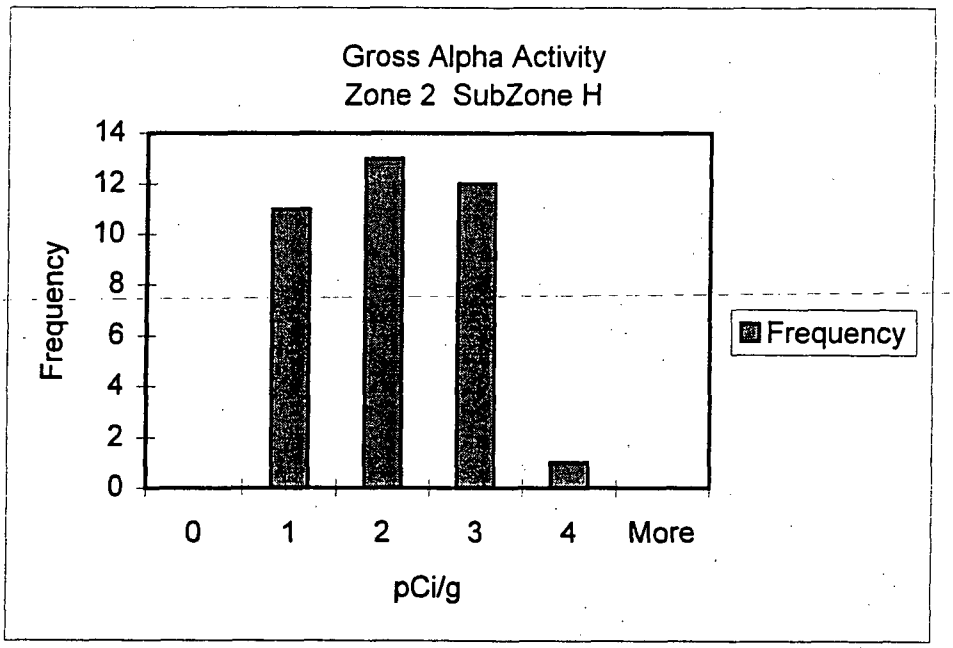

Gross Alpha Activity
Zone 2 SubZone B
Frequency
40
35
30
25
20
15
10
5
0
0
2
4
6
8
More
pCi/g
Frequency

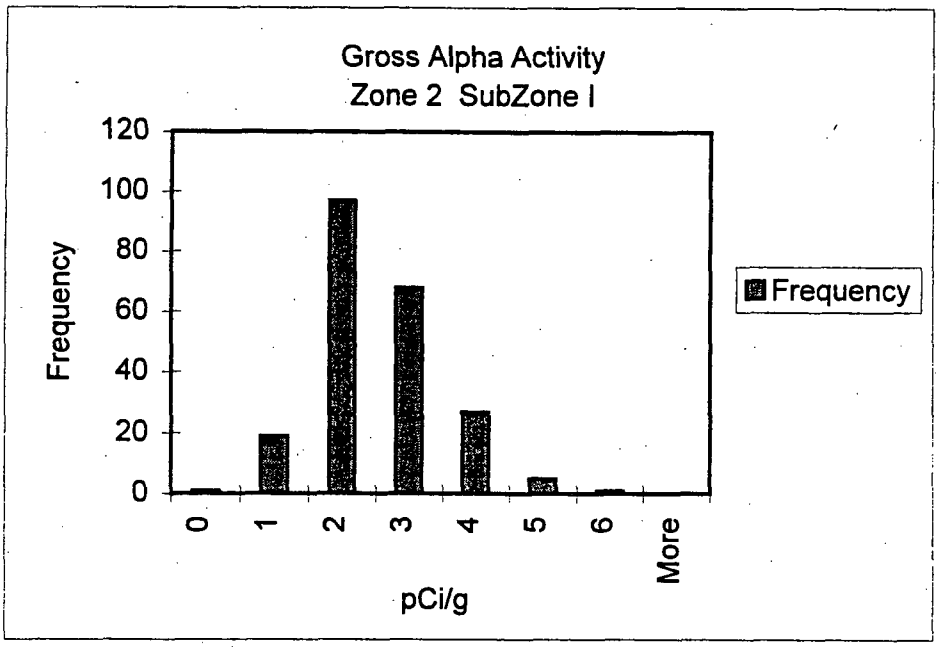

Gross Alpha Activity
Zone 2 SubZone C
Frequency
16
14
12
10
8
6
4
2
0
0
1
2
3
4
5
More
pCi/g
Frequency

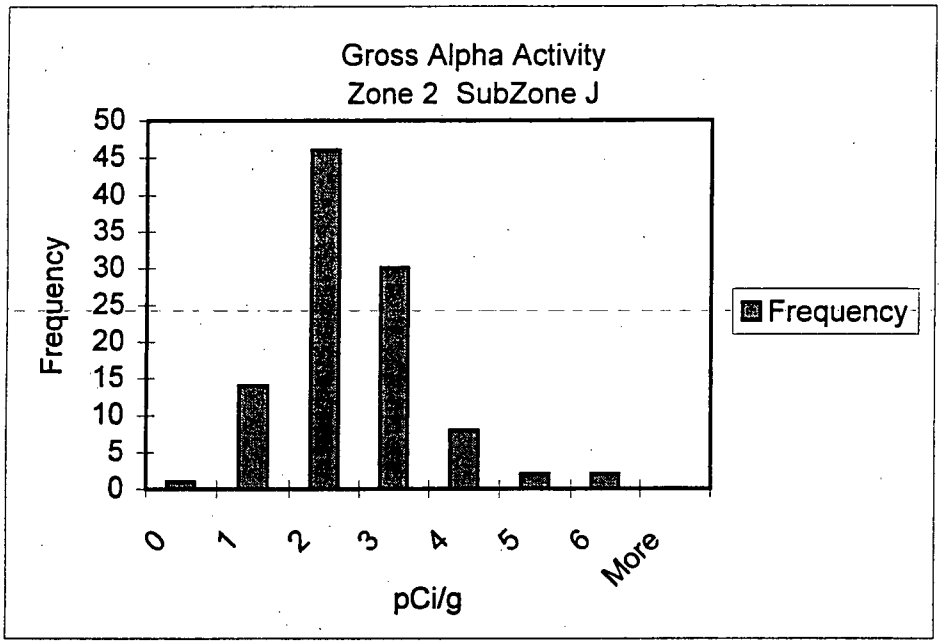

Gross Alpha Activity
Zone 2 SubZone D
Frequency
35
30
25
20
15
10
5
0
0
1
2
3
4
5
6
7
More
pCi/g
Frequency

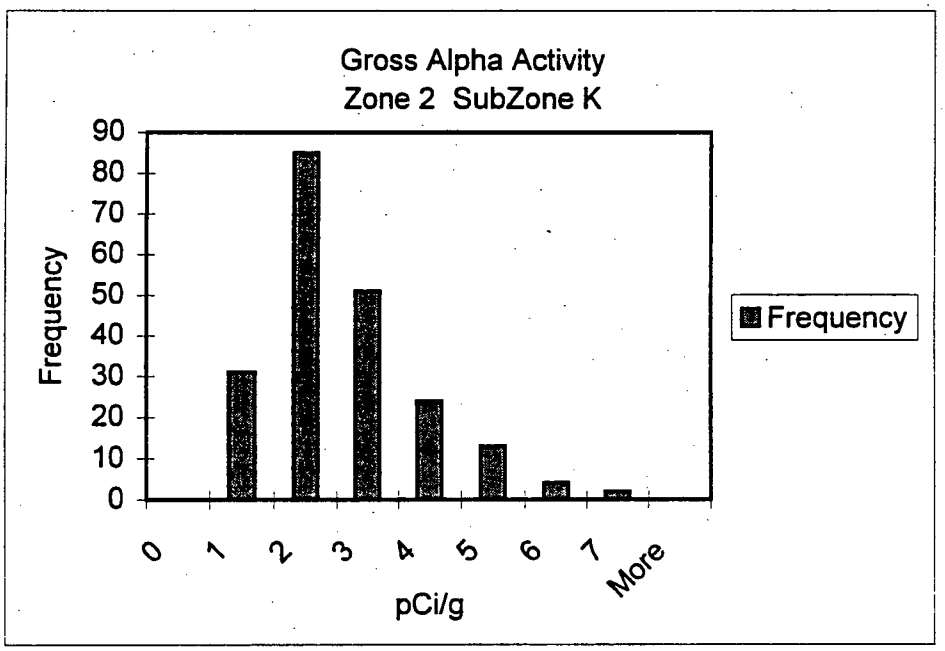

Gross Alpha Activity
Zone 2 SubZone E
Frequency
60
50
40
30
20
10
0
0
1
2
3
4
5
6
More
pCi/g
Frequency

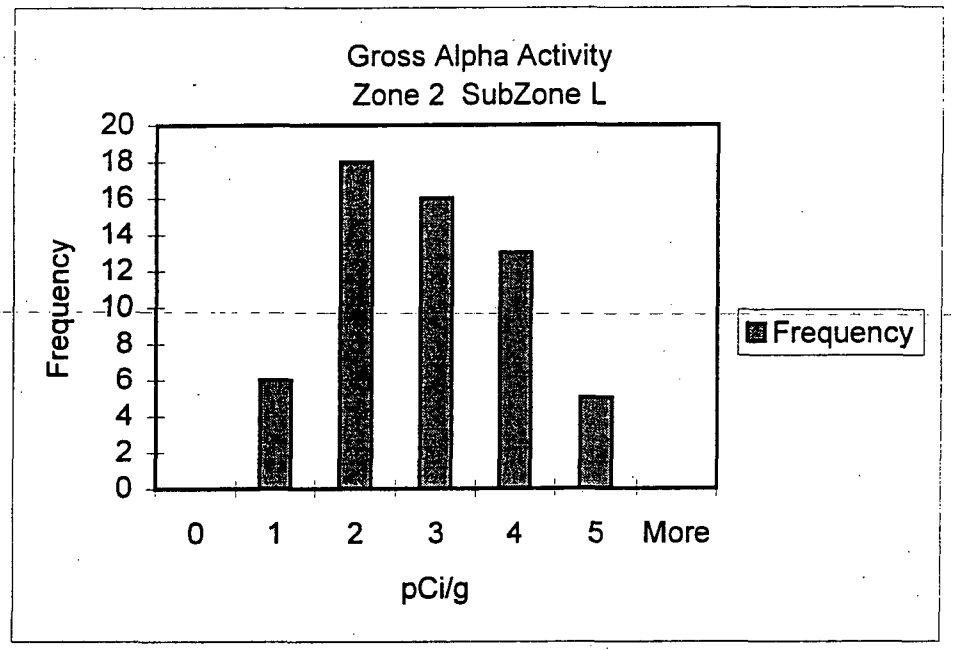

Gross Alpha Activity
Zone 2 SubZone F
Frequency
45
40
35
30
25
20
15
10
5
0
0
1
2
3
4
5
6
More
pCi/g
Frequency

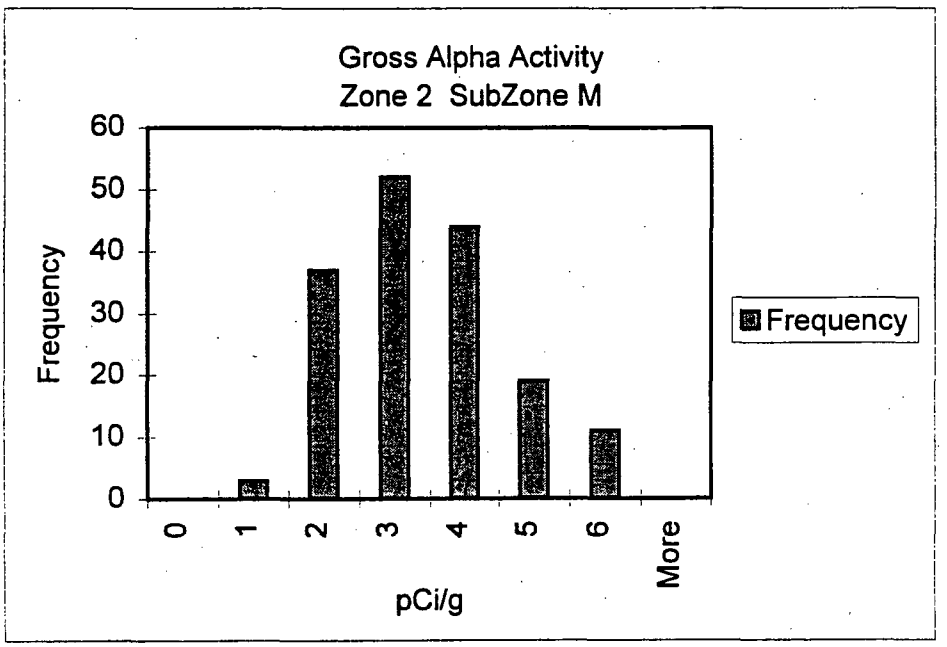

Gross Alpha Activity
Zone 2 SubZone H
Frequency
14
12
10
8
6
4
2
0
0
1
2
3
4
More
pCi/g
Frequency

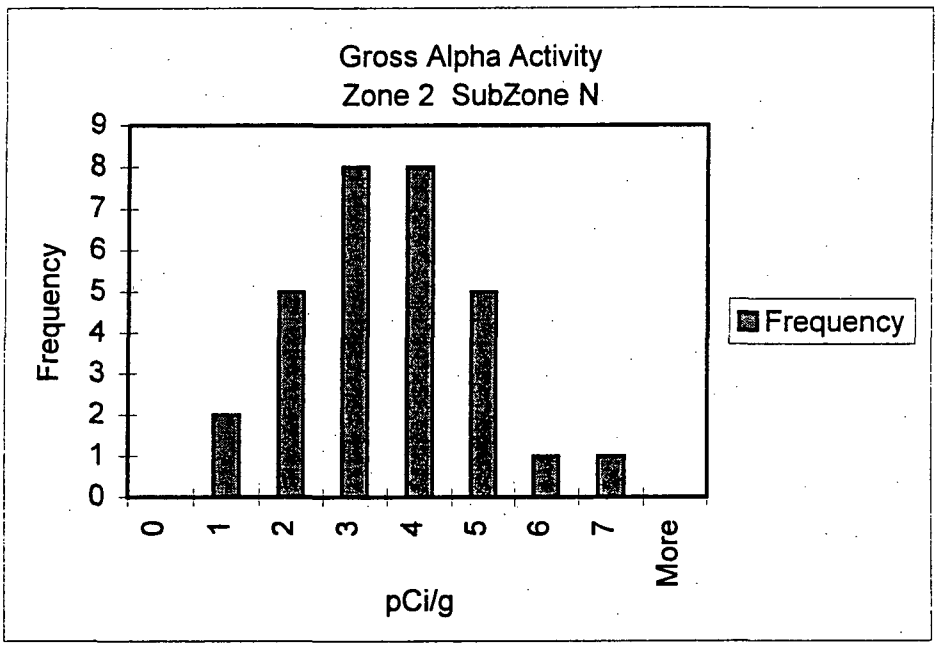

Gross Alpha Activity
Zone 2 SubZone I
Frequency
120
100
80
60
40
20
0
0
1
2
3
4
5
6
More
pCi/g
Frequency

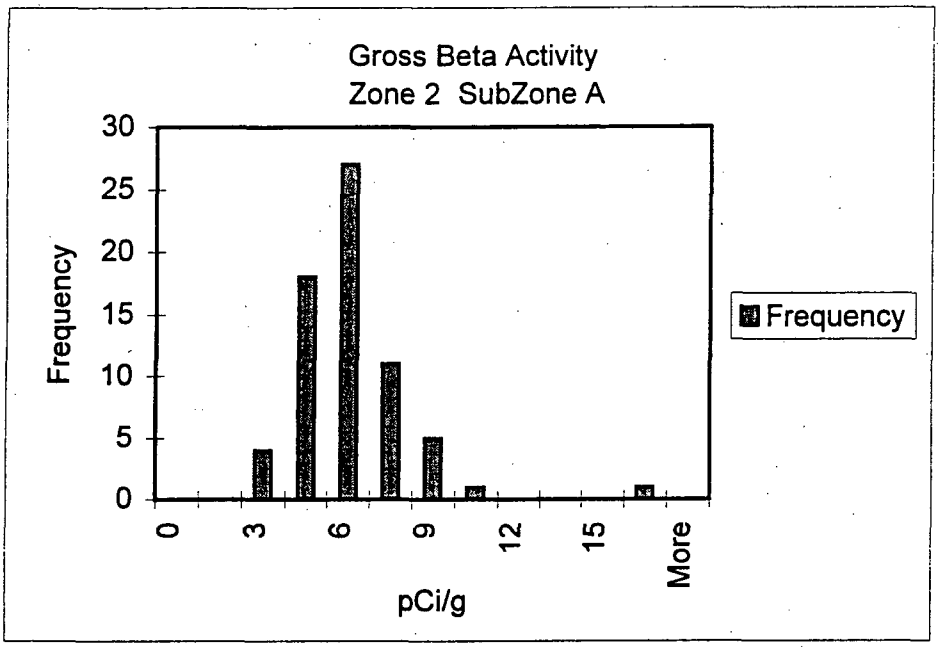

Gross Alpha Activity
Zone 2 SubZone J
Frequency
50
45
40
35
30
25
20
15
10
5
0
0
1
2
3
4
5
6
More
pCi/g
Frequency

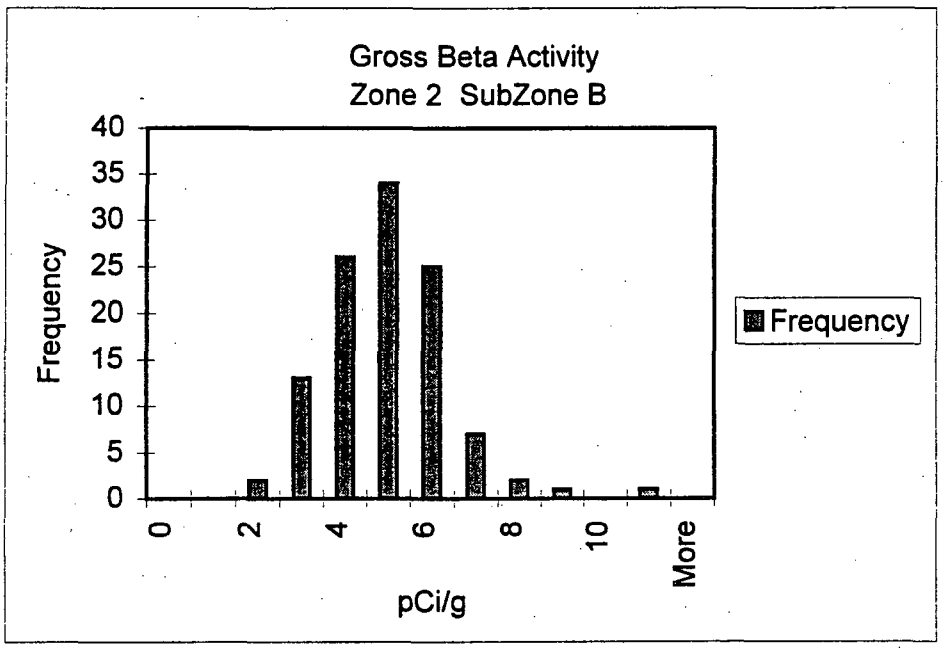

Gross Alpha Activity
Zone 2 SubZone K
Frequency
90
80
70
60
50
40
30
20
10
0
0
1
2
3
4
5
6
7
More
pCi/g
Frequency

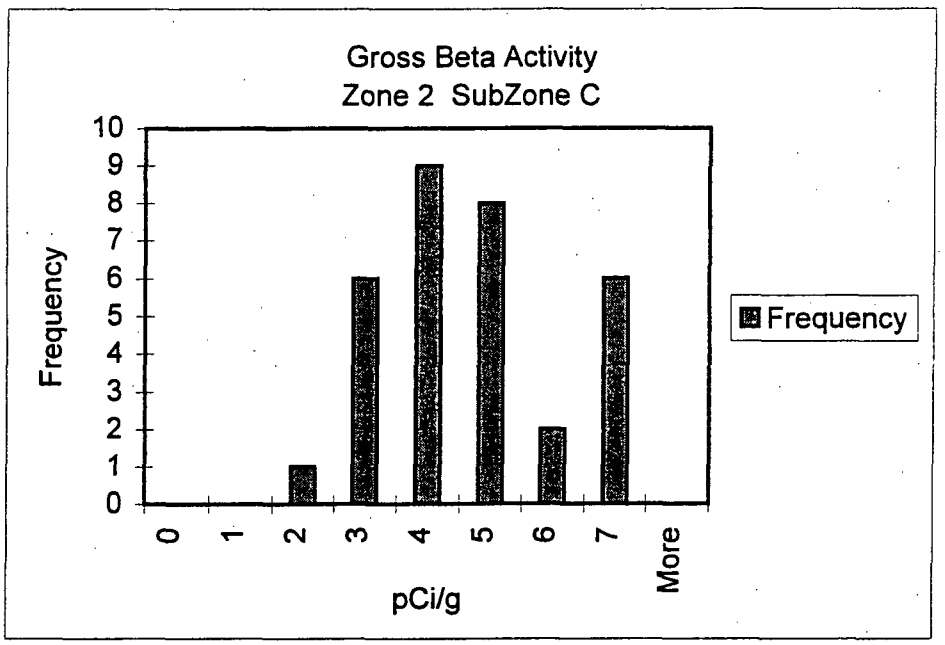

Gross Alpha Activity
Zone 2 SubZone L
Frequency
20
18
16
14
12
10
8
6
4
2
0
0
1
2
3
4
5
More
pCi/g
Frequency

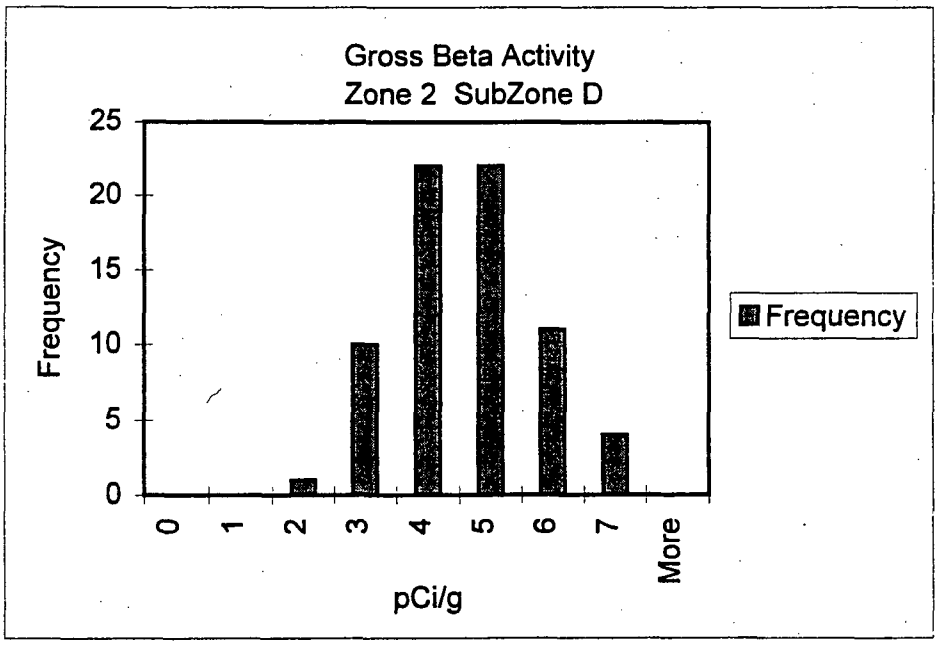

Gross Alpha Activity
Zone 2 SubZone M
Frequency
60
50
40
30
20
10
0
0
1
2
3
4
5
6
More
pCi/g
Frequency

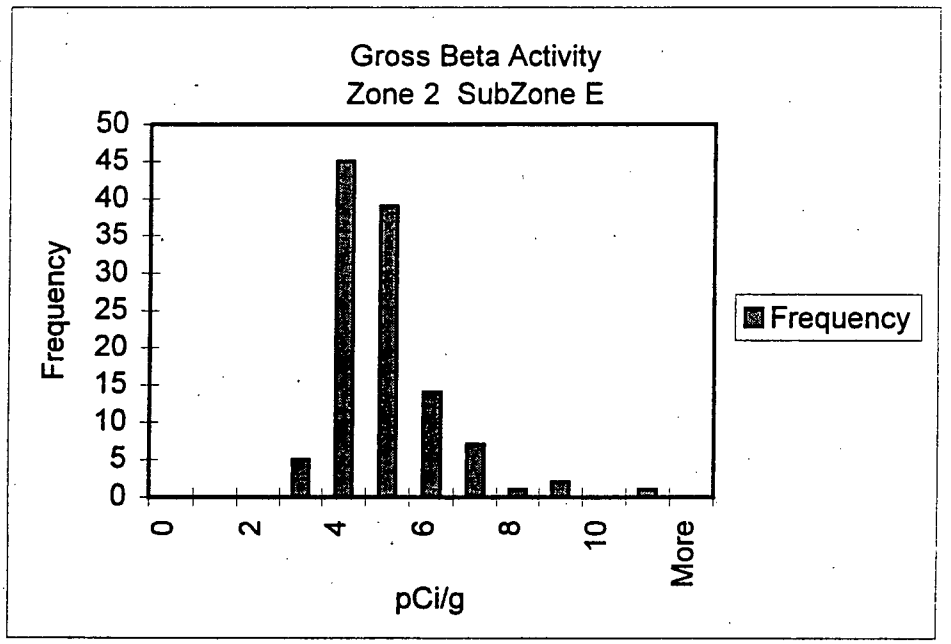

Gross Alpha Activity
Zone 2 SubZone N
Frequency
9
8
7
6
5
4
3
2
1
0
0
1
2
3
4
5
6
7
More
pCi/g
Frequency

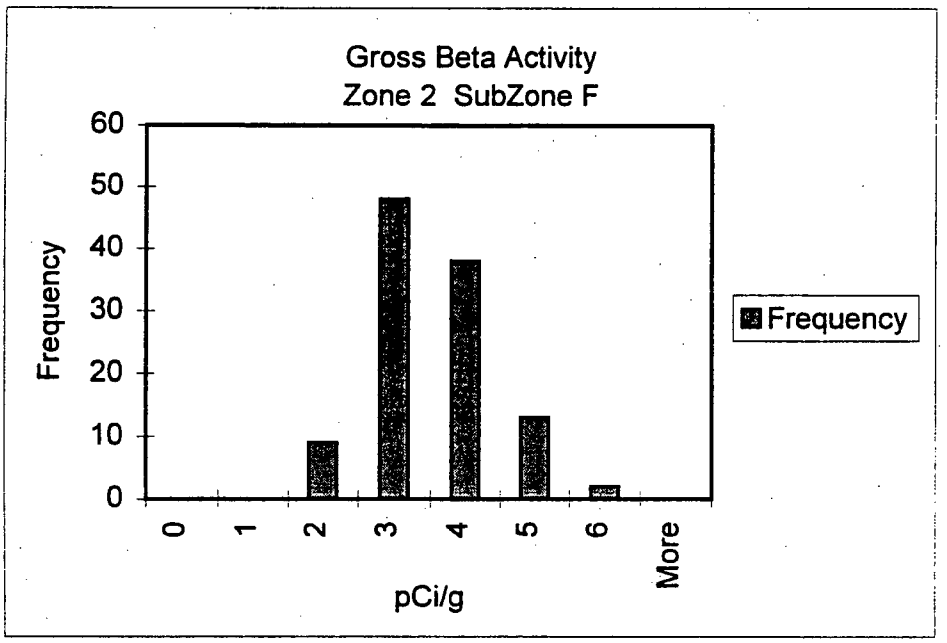

Gross Beta Activity
Zone 2 SubZone A
Frequency
30
25
20
15
10
5
0
0
3
6
9
12
15
More
pCi/g
Frequency

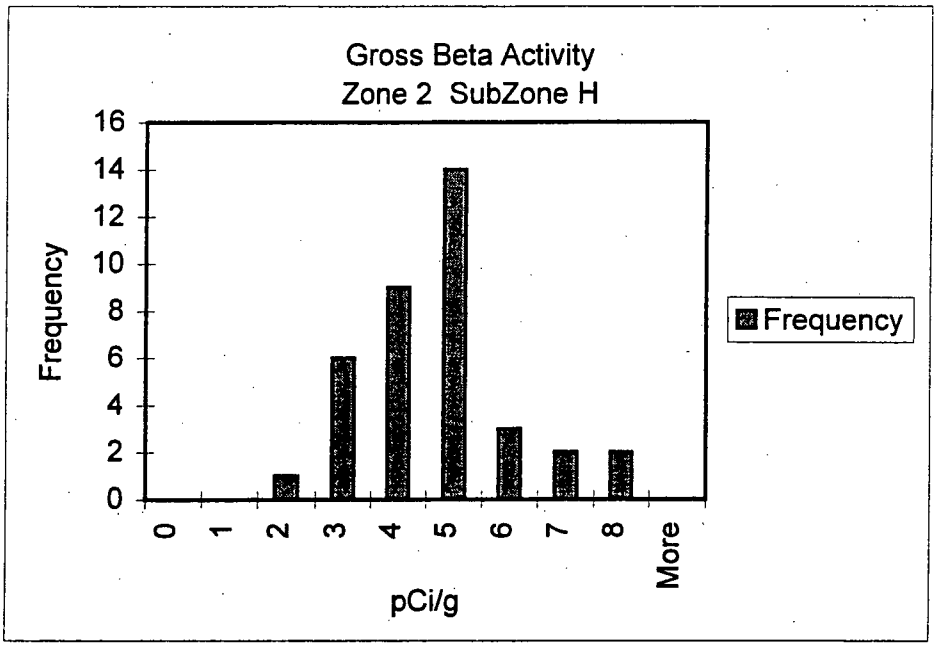

Gross Beta Activity
Zone 2 SubZone B
Frequency
40
35
30
25
20
15
10
5
0
0
2
4
6
8
10
More
pCi/g
Frequency

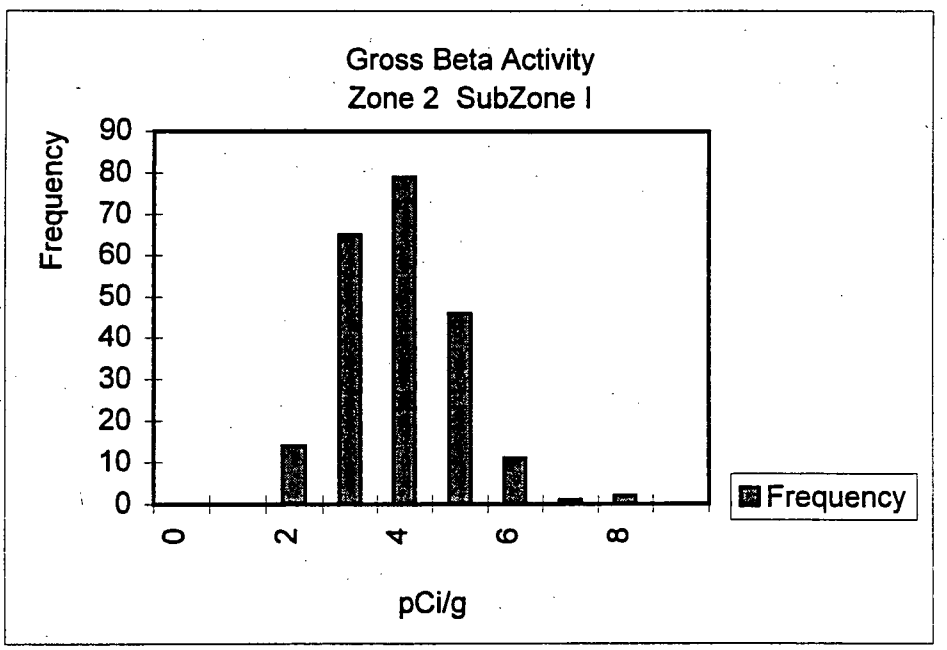

Gross Beta Activity
Zone 2 SubZone C
Frequency
10
9
8
7
6
5
4
3
2
1
0
0
1
2
3
4
5
6
7
More
pCi/g
Frequency

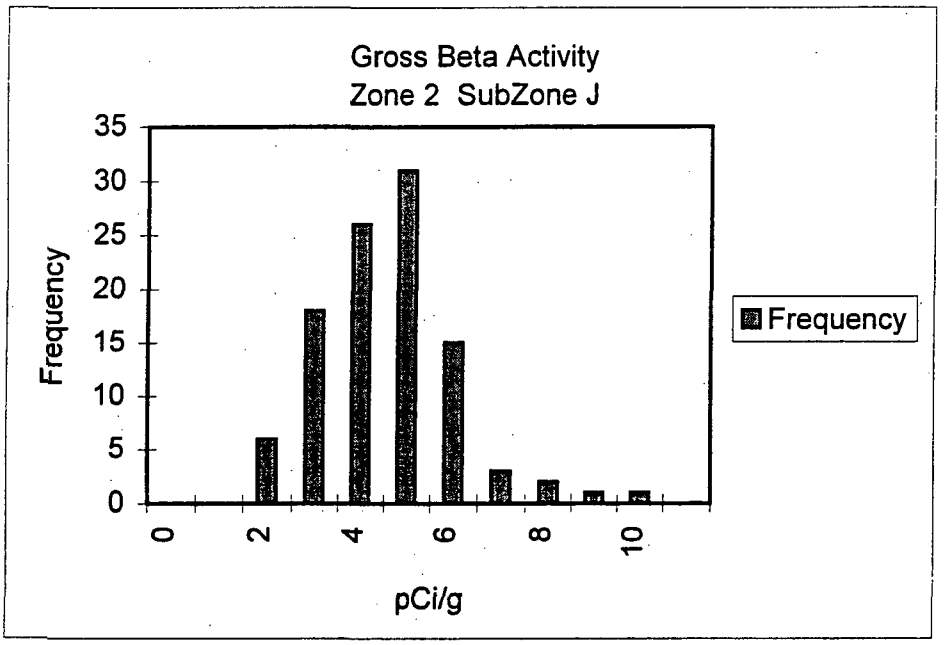

Gross Beta Activity
Zone 2 SubZone D
Frequency
25
20
15
10
5
0
0
1
2
3
4
5
6
7
More
pCi/g
Frequency

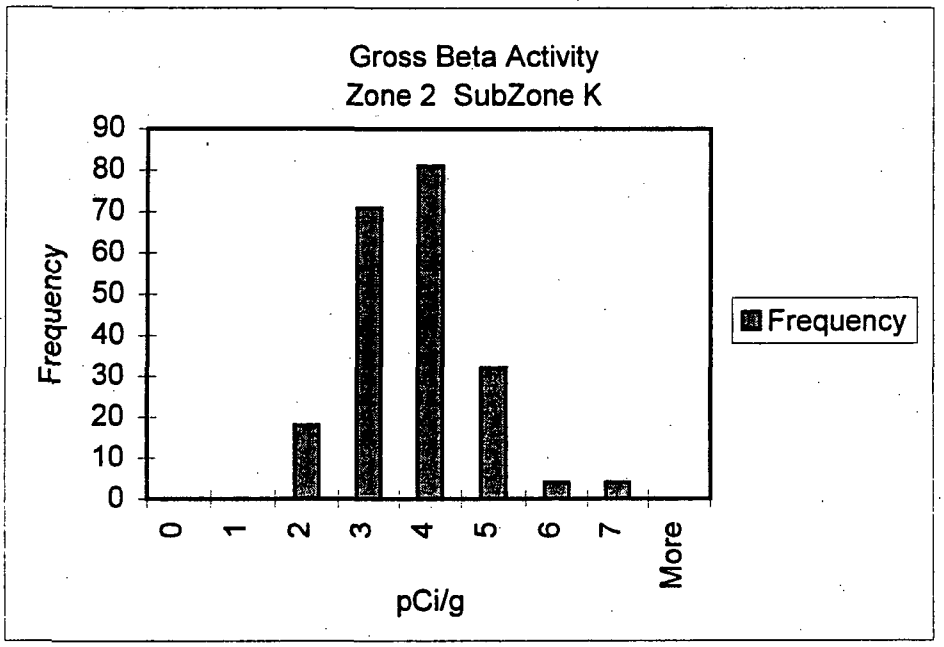

Gross Beta Activity
Zone 2 SubZone E
Frequency
50
45
40
35
30
25
20
15
10
5
0
0
2
4
6
8
10
More
pCi/g
Frequency

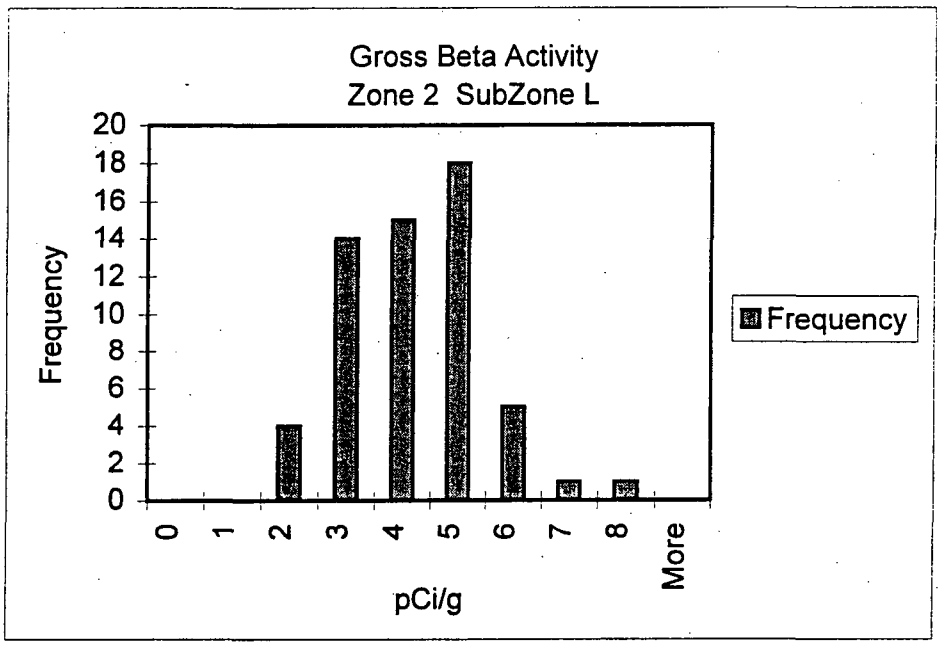

Gross Beta Activity
Zone 2 SubZone F
Frequency
60
50
40
30
20
10
0
0
1
2
3
4
5
6
More
pCi/g
Frequency

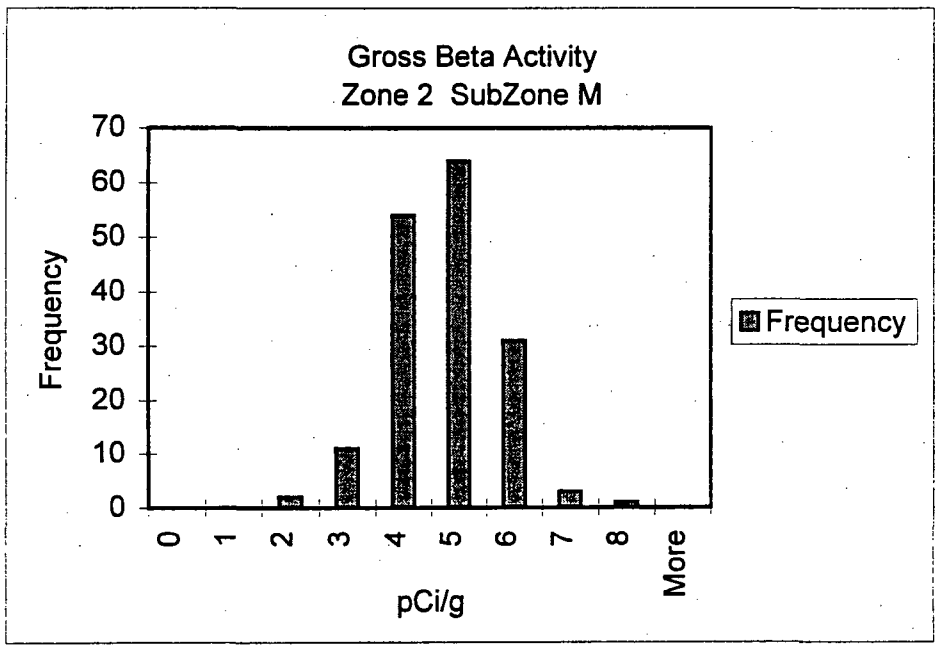

Gross Beta Activity
Zone 2 SubZone H
Frequency
16
14
12
10
8
6
4
2
0
0
1
2
3
4
5
6
7
8
More
pCi/g
Frequency

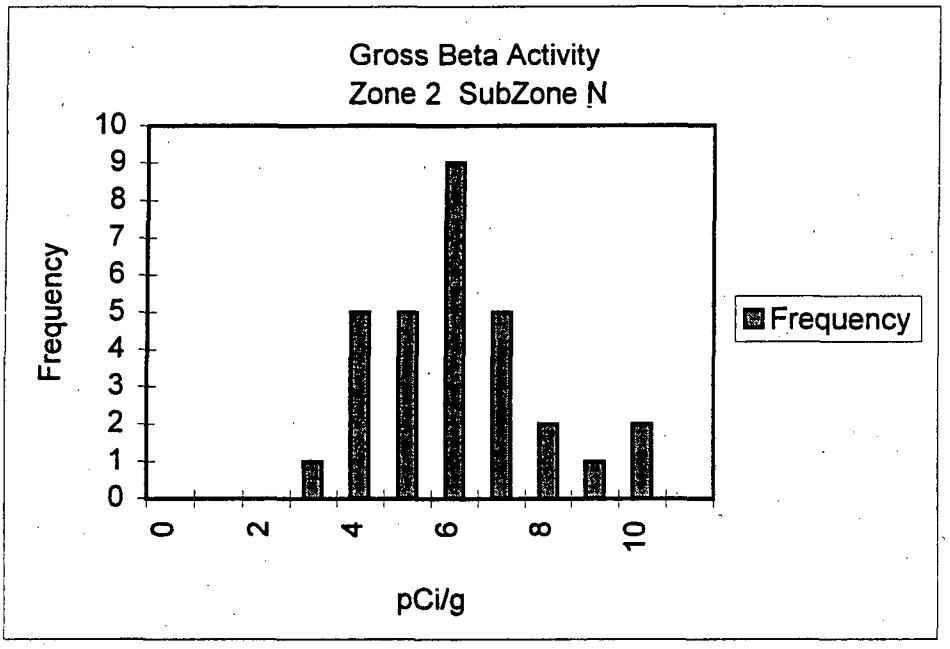

Gross Beta Activity
Zone 2 SubZone I
Frequency
90
80
70
60
50
40
30
20
10
0
0
2
4
6
8
pCi/g
Frequency

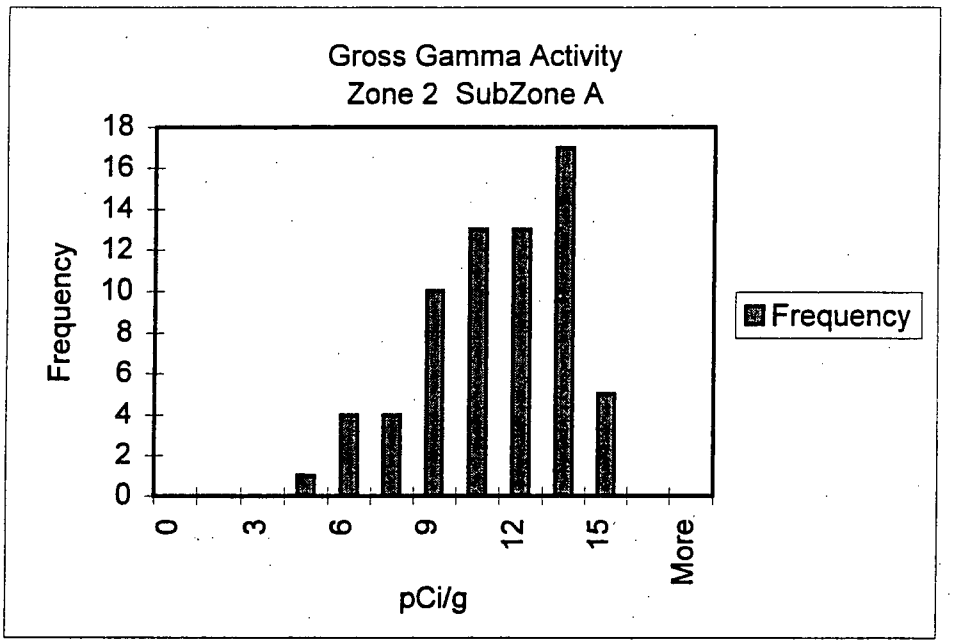

Gross Beta Activity
Zone 2 SubZone J
Frequency
35
30
25
20
15
10
5
0
0
2
4
6
8
10
pCi/g
Frequency

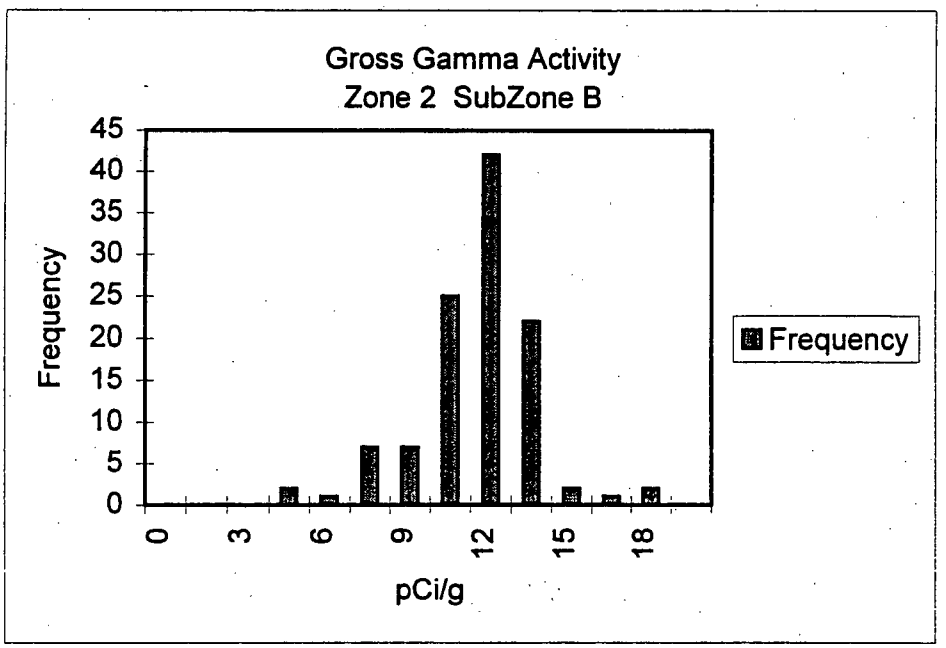

Gross Beta Activity
Zone 2 SubZone K
Frequency
90
80
70
60
50
40
30
20
10
0
0
1
2
3
4
5
6
7
More
pCi/g
Frequency

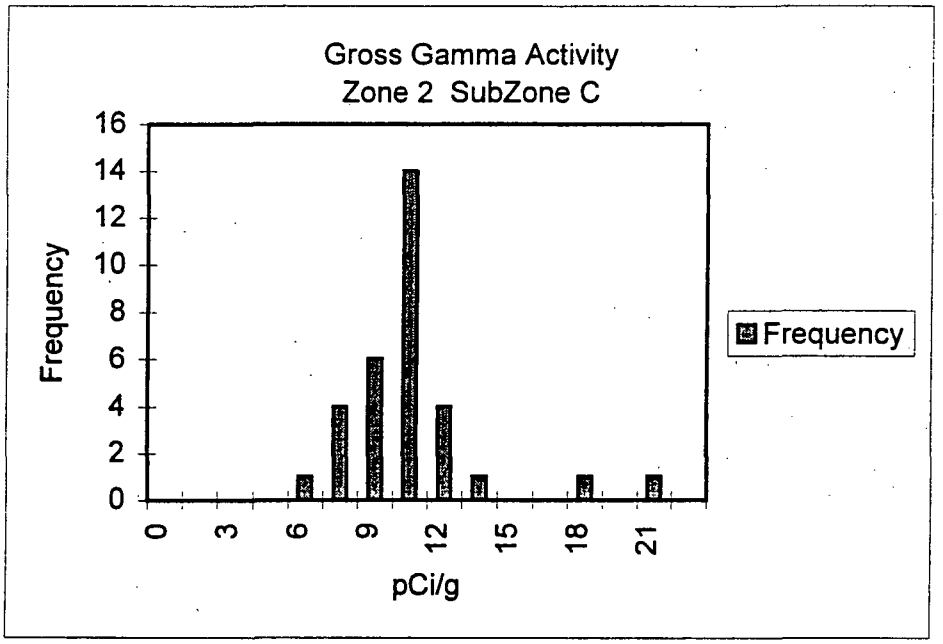

Gross Beta Activity
Zone 2 SubZone L
Frequency
20
18
16
14
12
10
8
6
4
2
0
0
1
2
3
4
5
6
7
8
More
pCi/g
Frequency

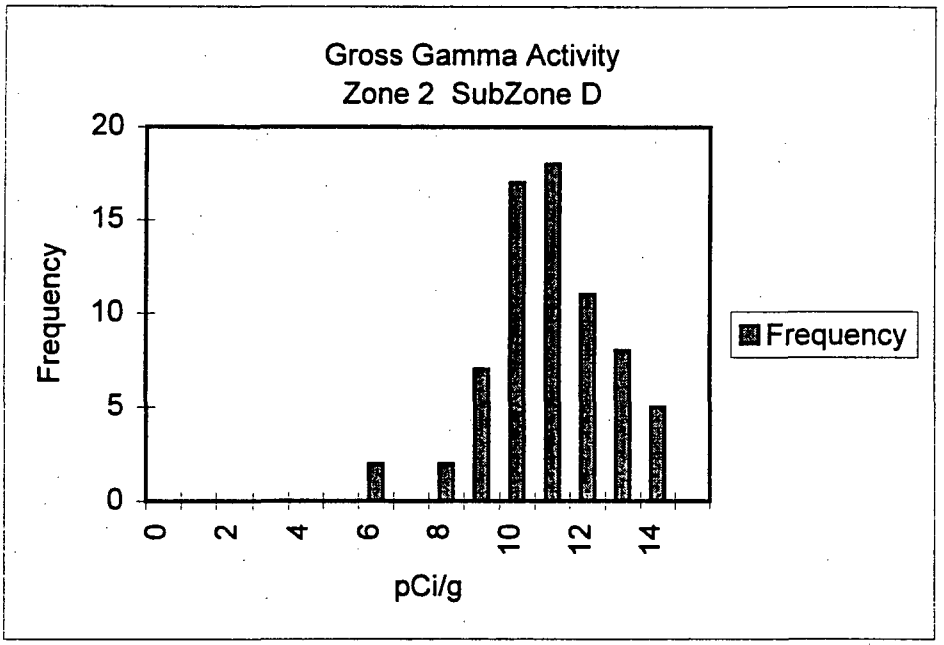

Gross Beta Activity
Zone 2 SubZone M
Frequency
70
60
50
40
30
20
10
0
0
1
2
3
4
5
6
7
8
More
pCi/g
Frequency

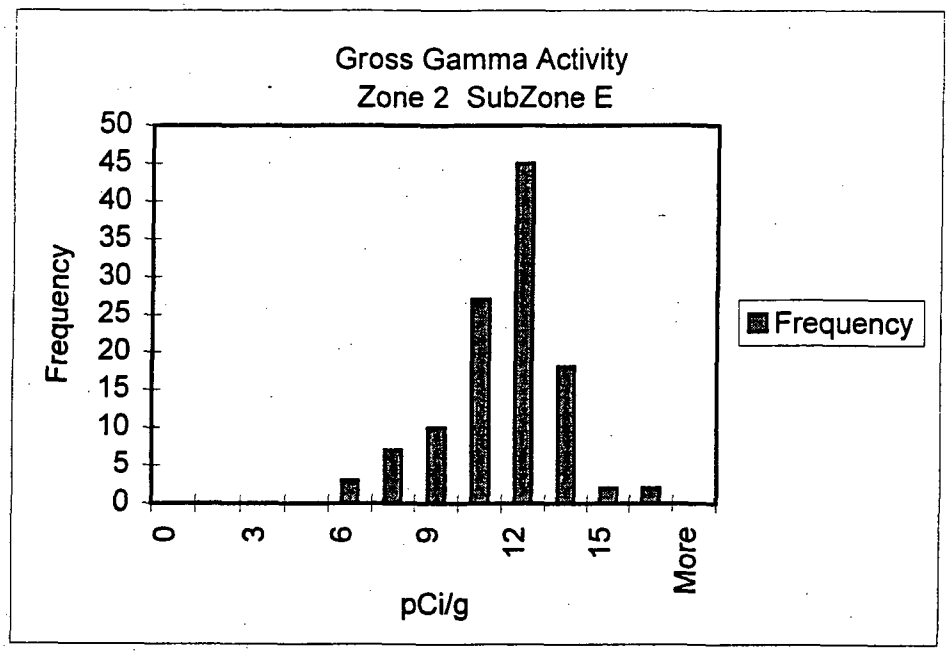

Gross Beta Activity
Zone 2 SubZone N
Frequency
10
9
8
7
6
5
4
3
2
1
0
0
2
4
6
8
10
pCi/g
Frequency

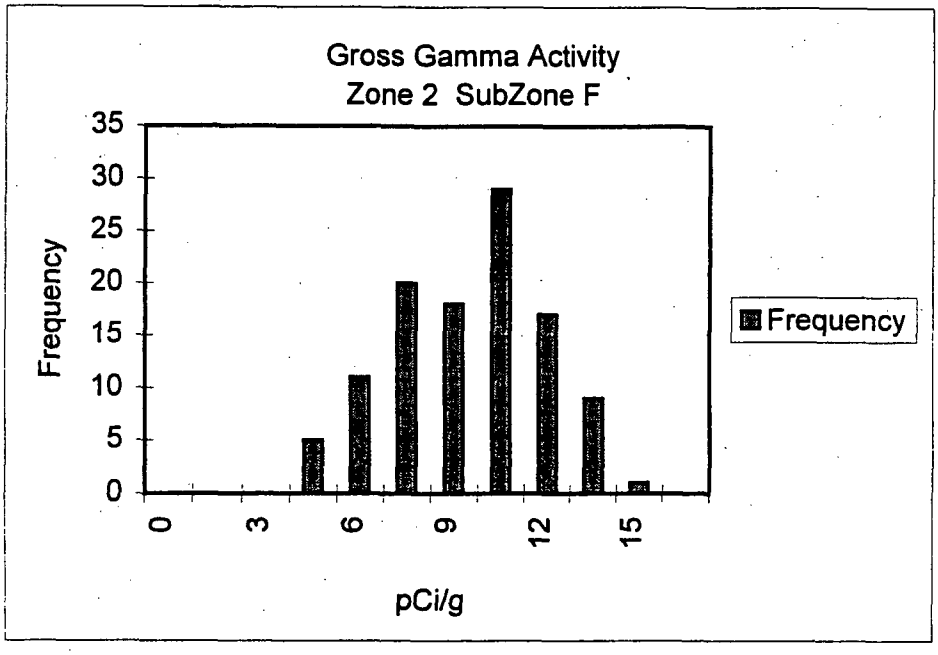

Gross Gamma Activity
Zone 2 SubZone A
Frequency
18
16
14
12
10
8
6
4
2
0
0
3
6
9
12
15
More
pCi/g
Frequency

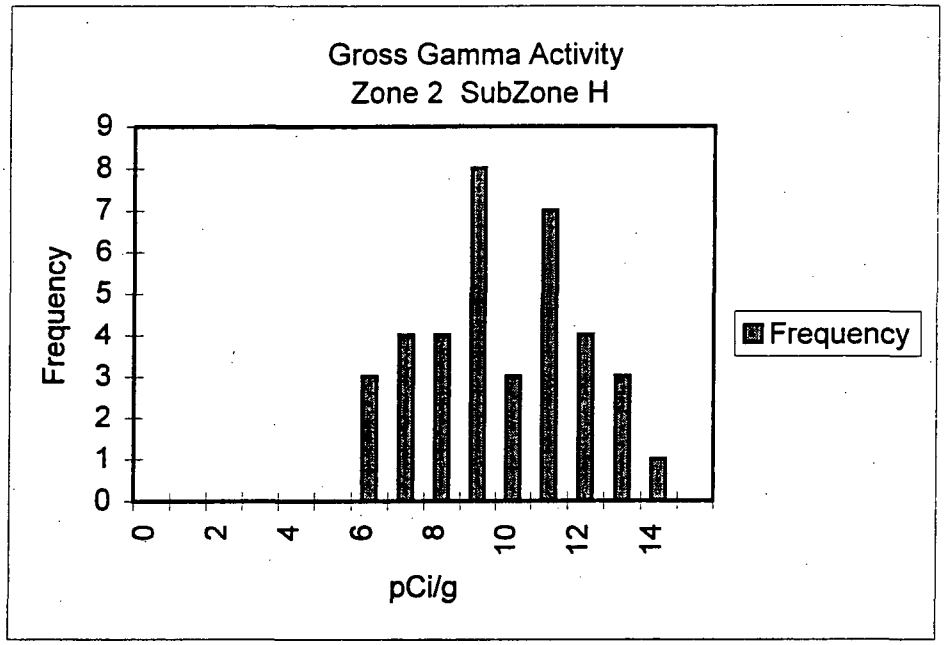

Gross Gamma Activity
Zone 2 SubZone B
Frequency
45
40
35
30
25
20
15
10
5
0
0
3
6
9
12
15
18
pCi/g
Frequency

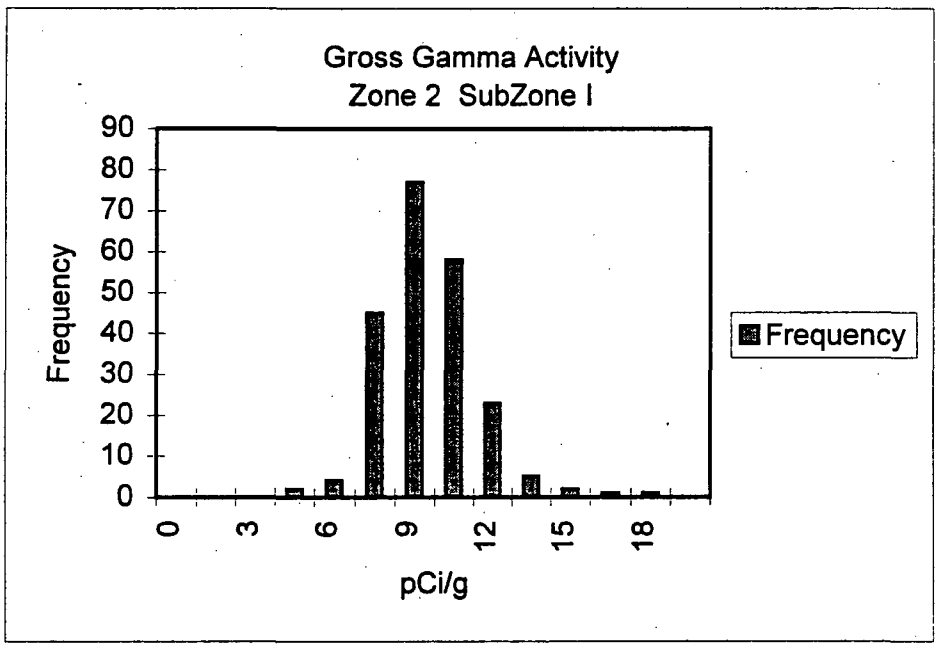

Gross Gamma Activity
Zone 2 SubZone C
Frequency
16
14
12
10
8
6
4
2
0
0
3
6
9
12
15
18
21
pCi/g
Frequency

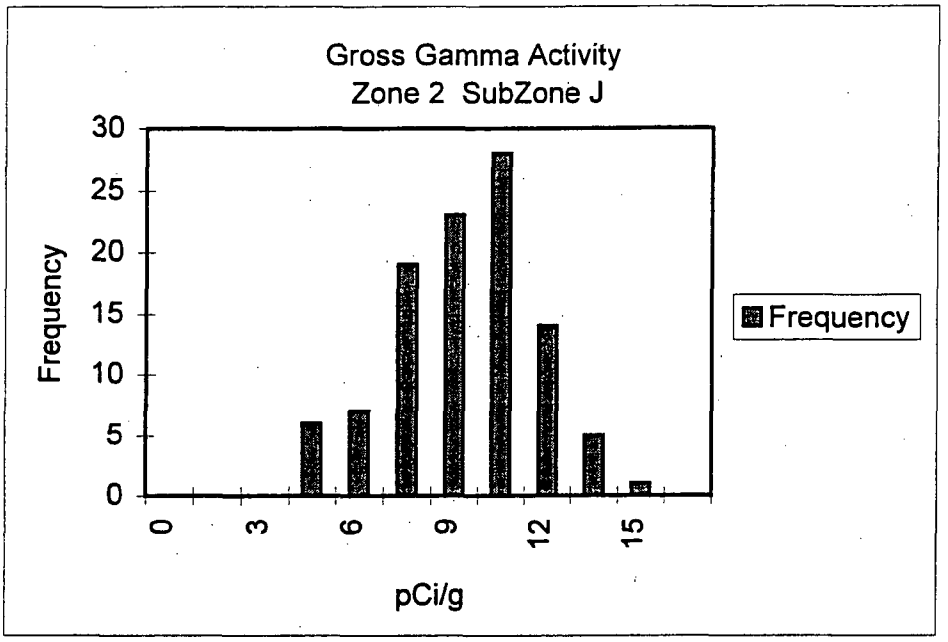

Gross Gamma Activity
Zone 2 SubZone D
Frequency
20
15
10
5
0
0
2
4
6
8
10
12
14
pCi/g
Frequency

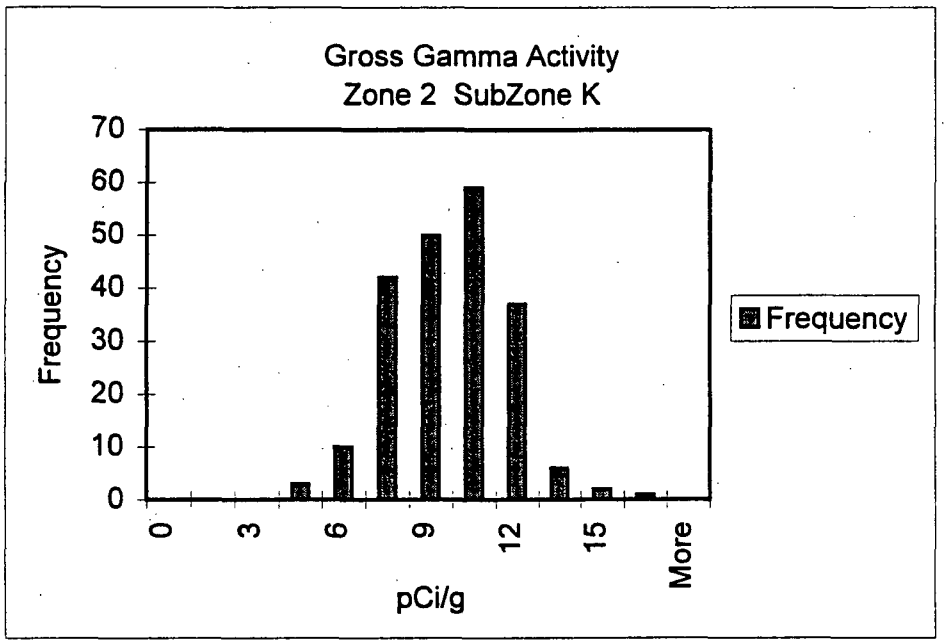

Gross Gamma Activity
Zone 2 SubZone E
Frequency
50
45
40
35
30
25
20
15
10
5
0
0
3
6
9
12
15
More
pCi/g
Frequency

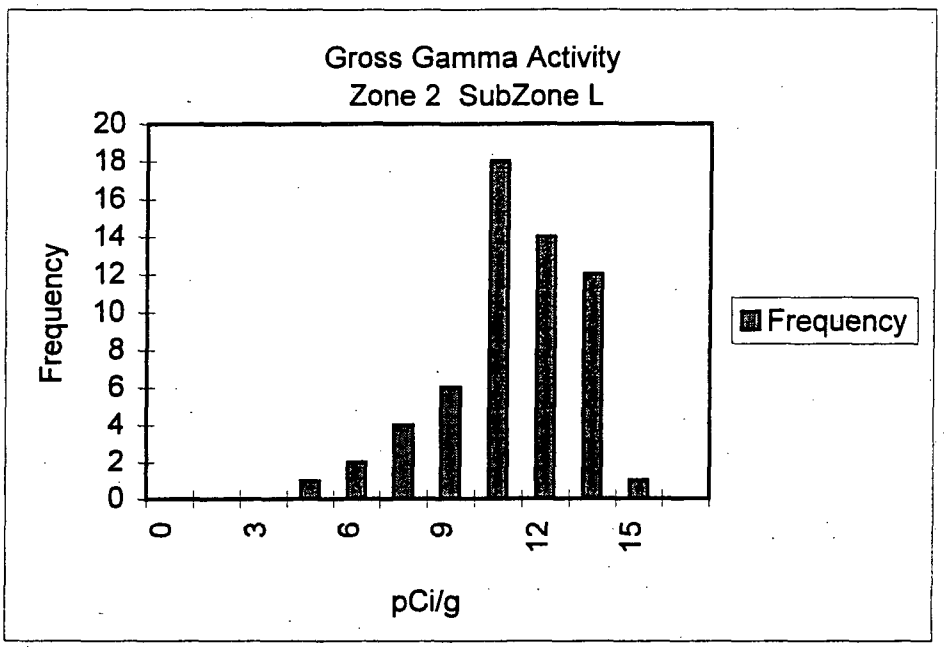

Gross Gamma Activity
Zone 2 SubZone F
Frequency
35
30
25
20
15
10
5
0
0
3
6
9
12
15
pCi/g
Frequency

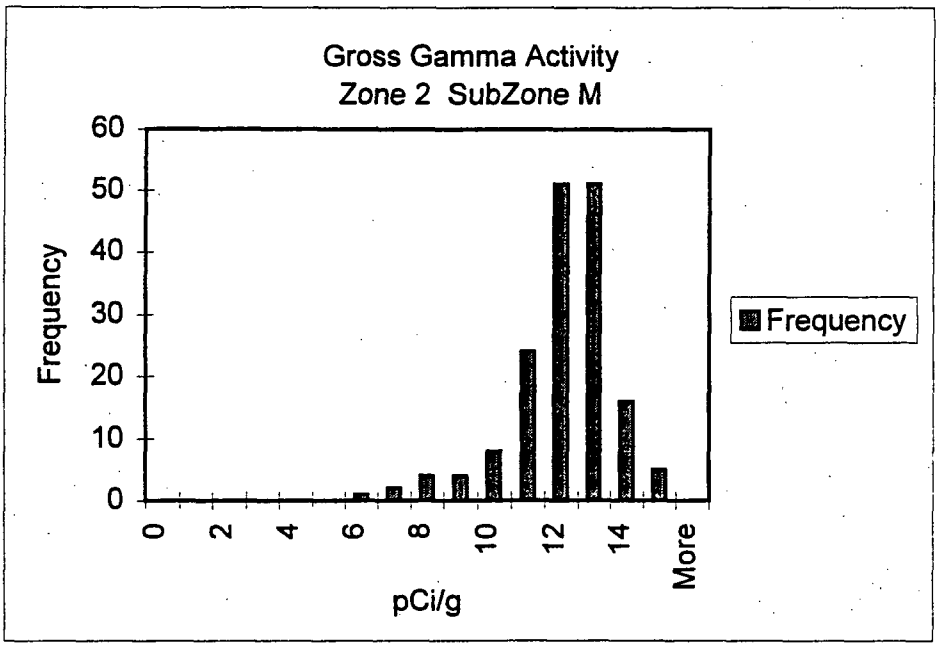

Gross Gamma Activity
Zone 2 SubZone H
Frequency
0
1
2
3
4
5
6
7
8
9
0
2
4
6
8
10
12
14
pCi/g
Frequency

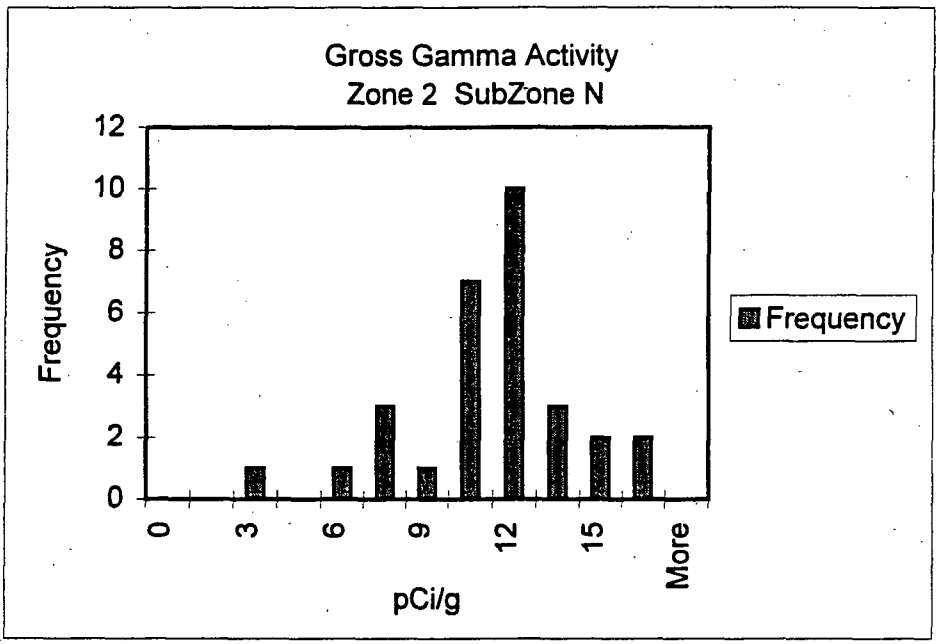

Gross Gamma Activity
Zone 2 SubZone I
Frequency
0
10
20
30
40
50
60
70
80
90
0
3
6
9
12
15
18
pCi/g
Frequency


Gross Gamma Activity
Zone 2 SubZone J
Frequency
30
25
20
15
10
5
0
0
3
6
9
12
15
pCi/g
Frequency

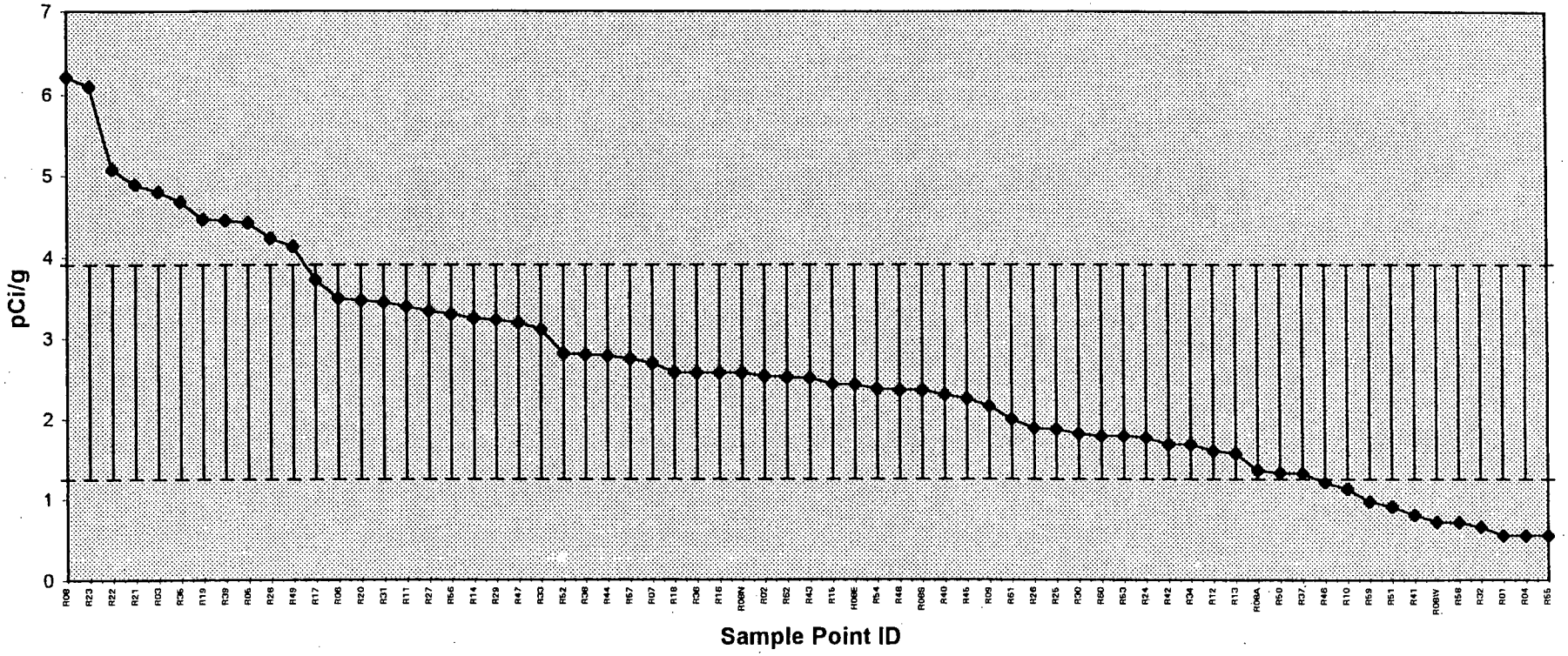

Gross Gamma Activity
Zone 2 SubZone K
Frequency
70
60
50
40
30
20
10
0
0
3
6
9
12
15
More
pCi/g
Frequency


Gross Gamma Activity
Zone 2 SubZone L
Frequency
20
18
16
14
12
10
8
6
4
2
0
0
3
6
9
12
15
pCi/g
Frequency

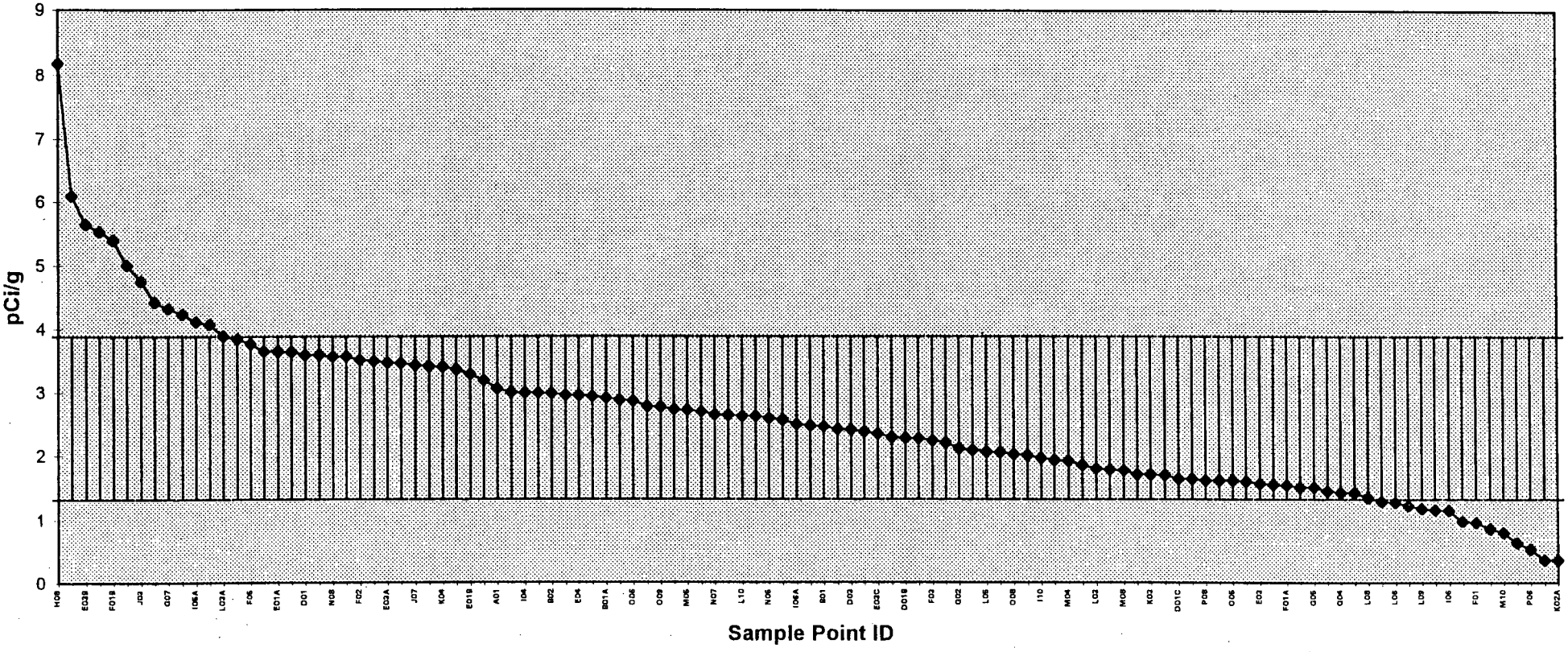

Gross Gamma Activity
Zone 2 SubZone M
Frequency
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
More
pCi/g
Frequency


Gross Gamma Activity
Zone 2 SubZone N
Frequency
12
10
8
6
4
2
0
0
3
6
9
12
15
More
pCi/g
Frequency

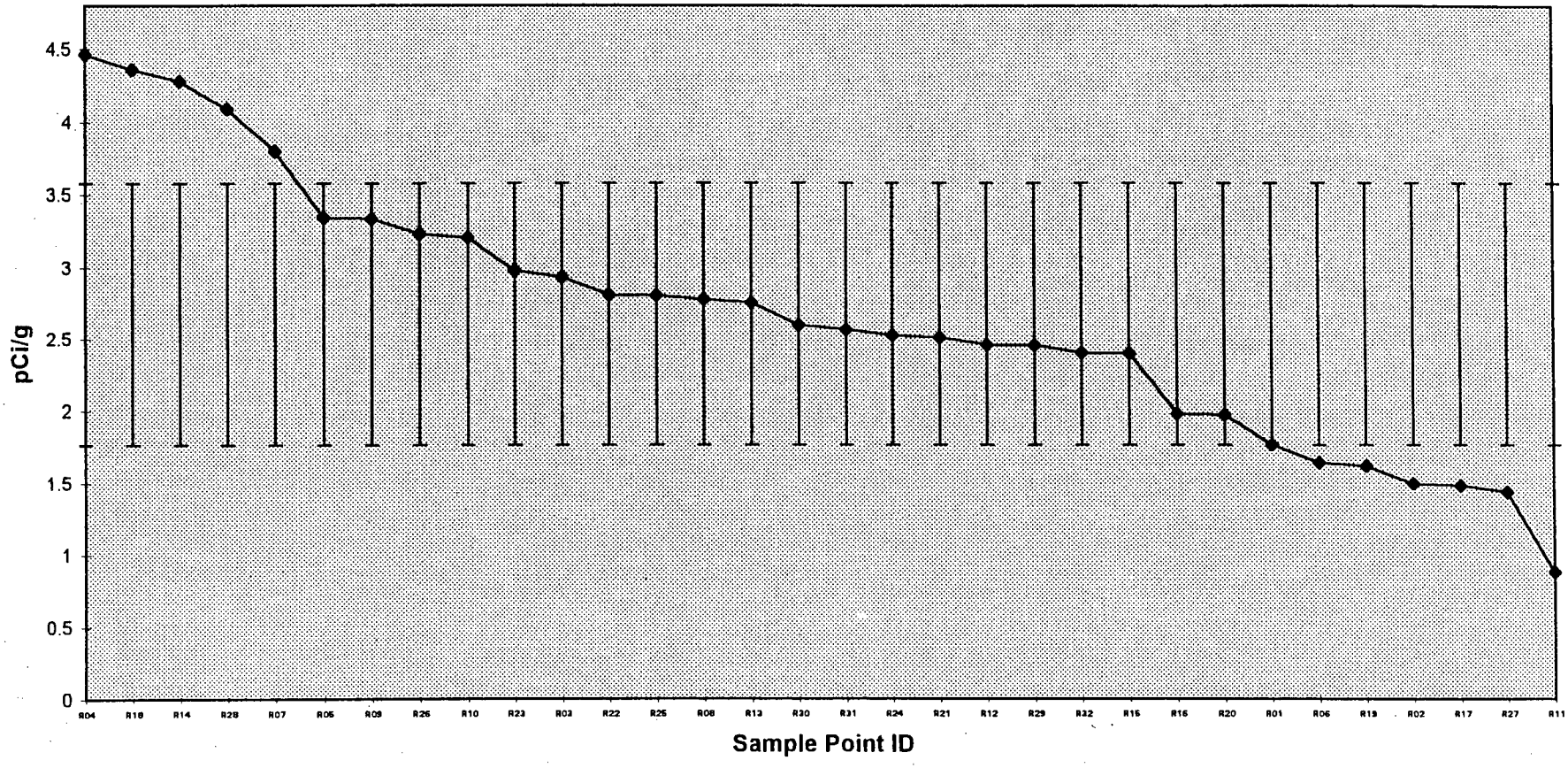
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone A



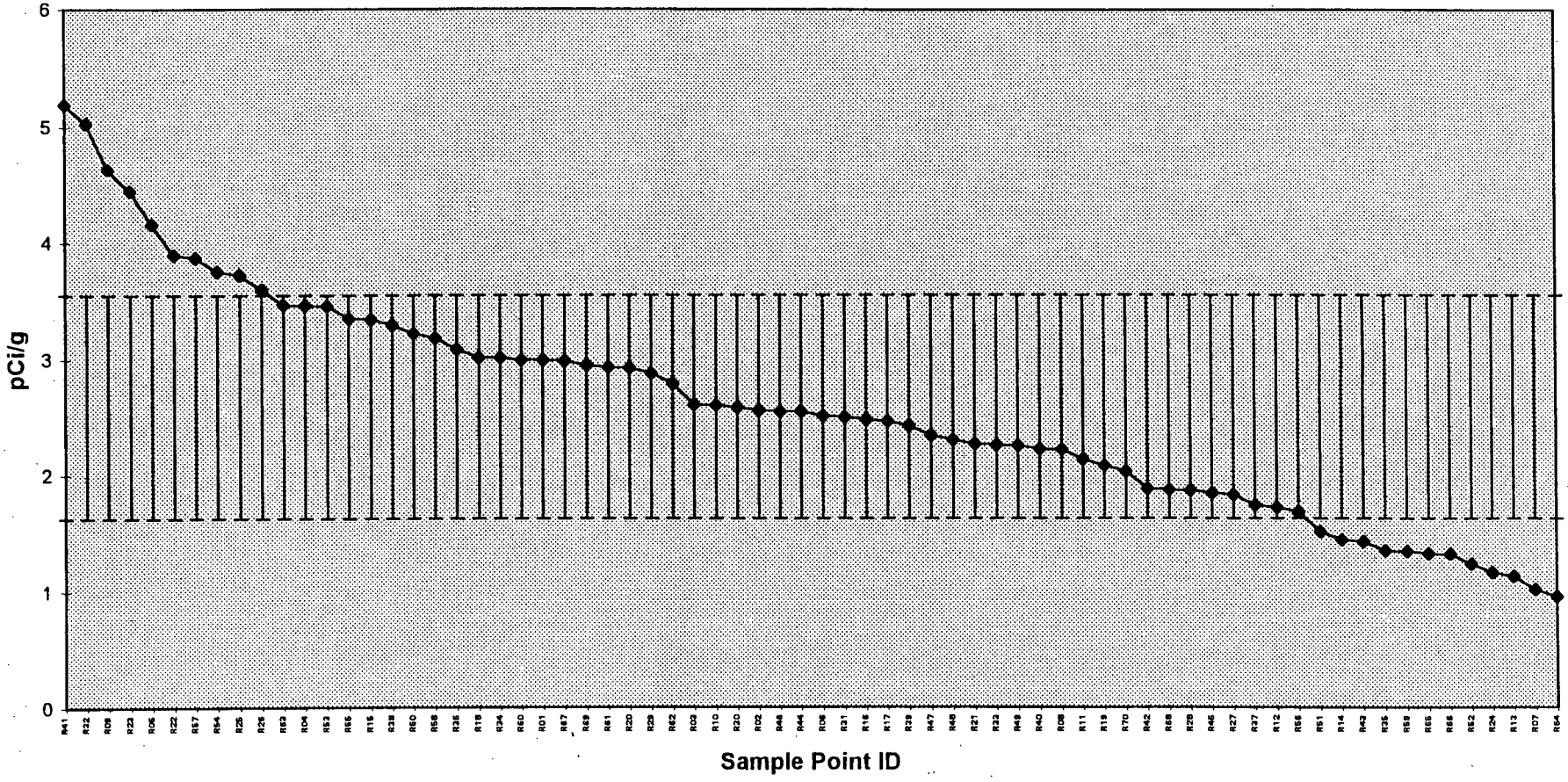
Soil Gross Alpha Results (1Sigma)
Zone 2 SubZone B



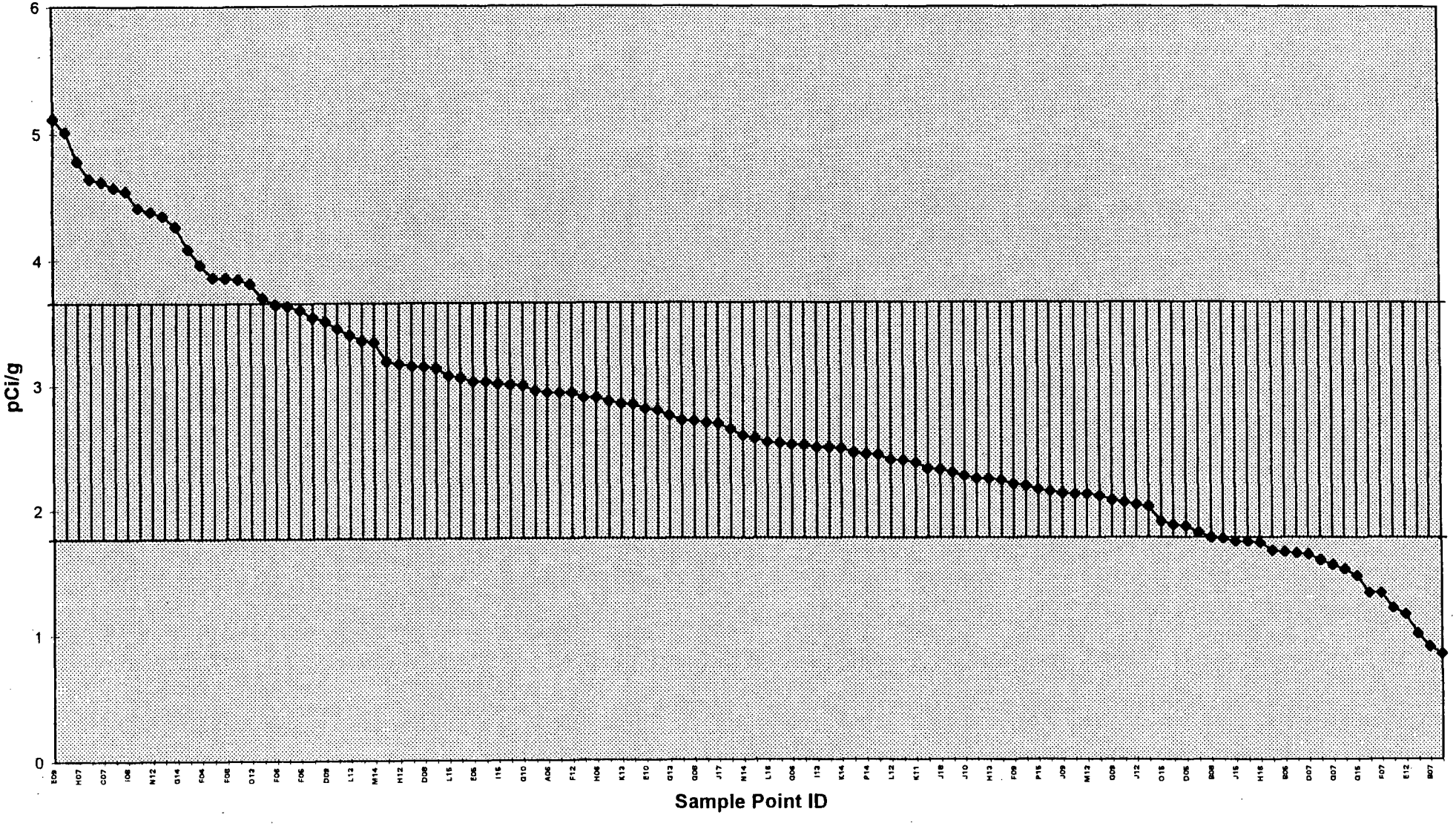
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone C



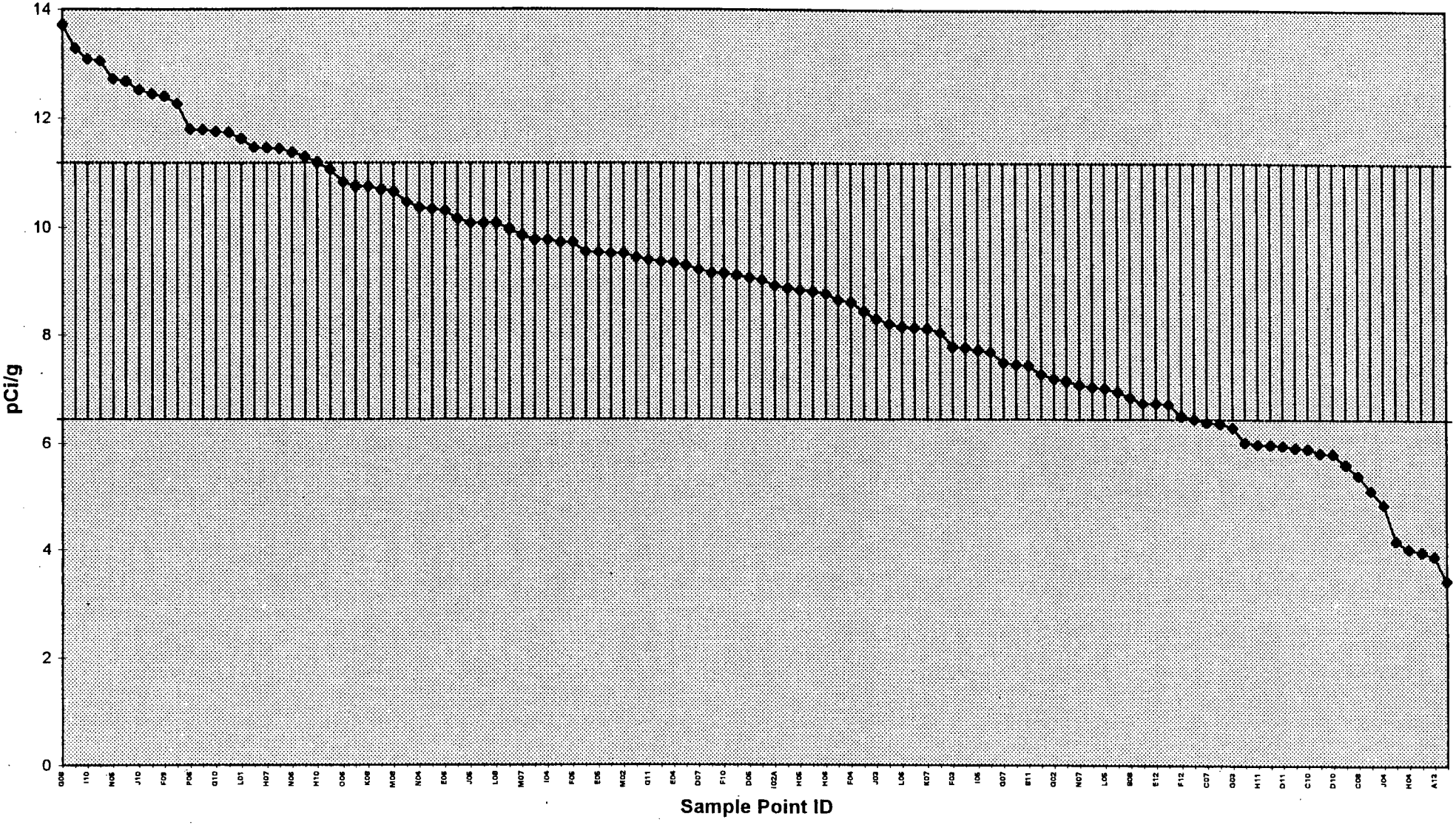
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone D



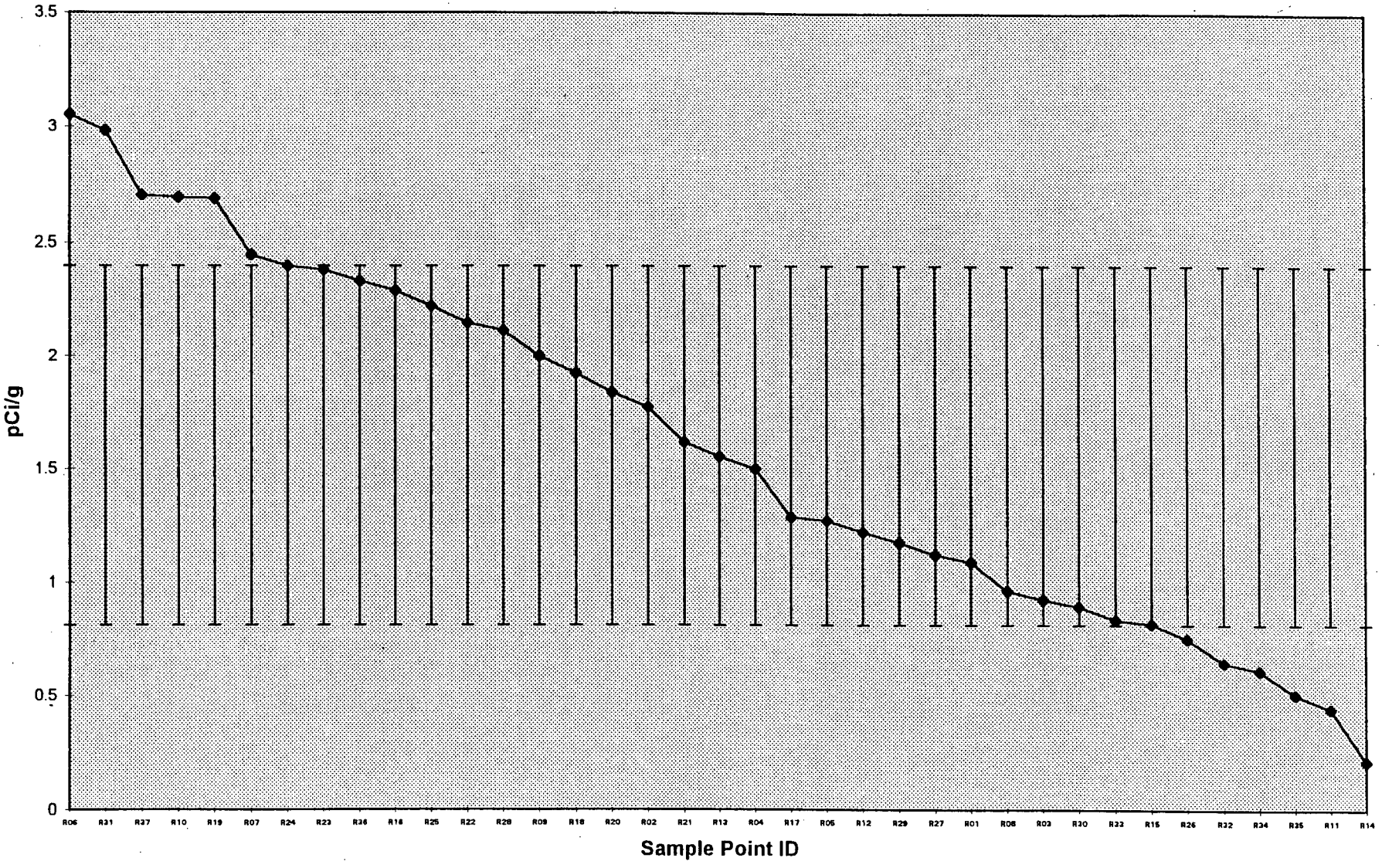
Soil Gross Alpha Results (1Sigma)
Zone 2 SubZone E



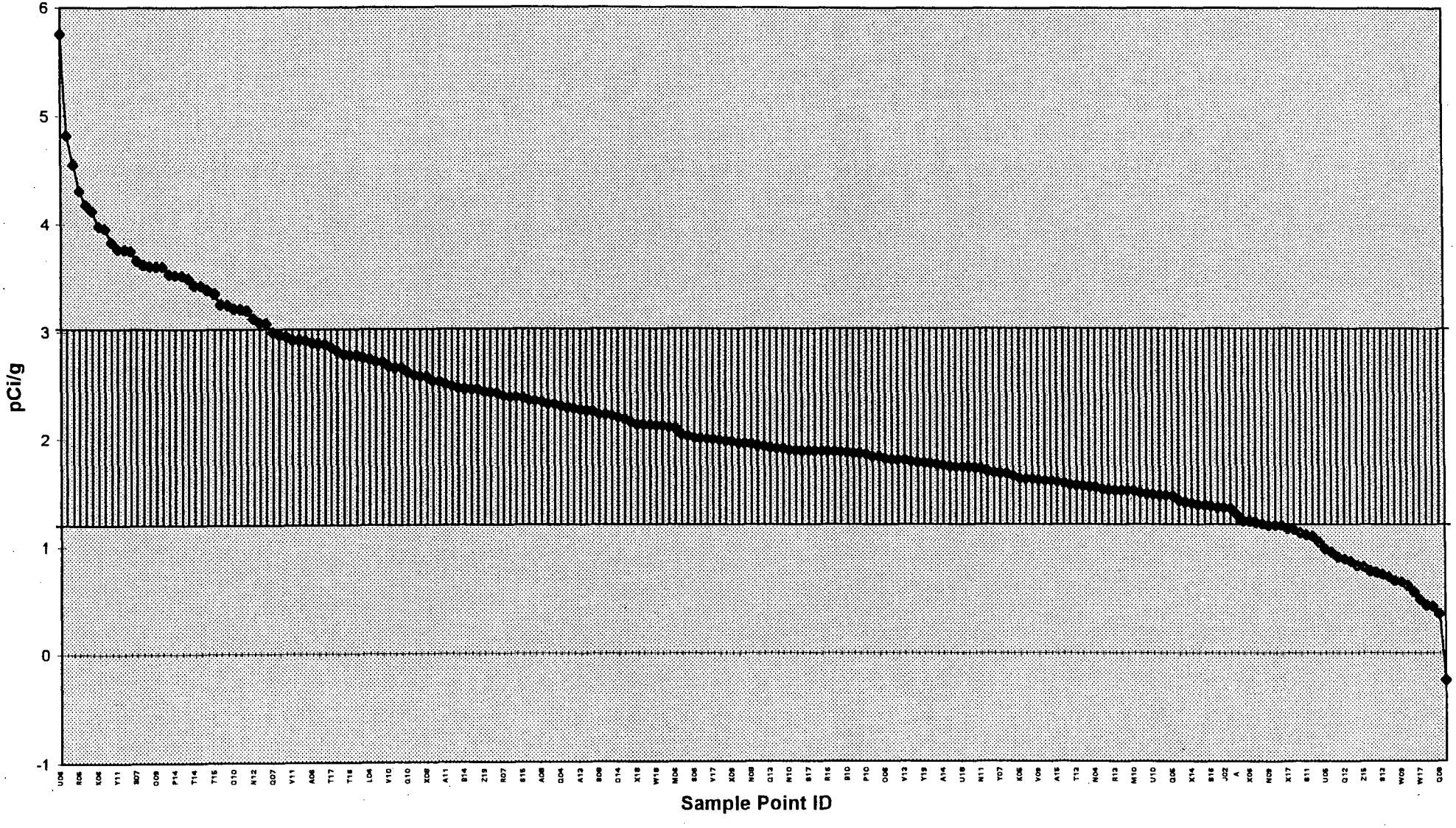
Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone F



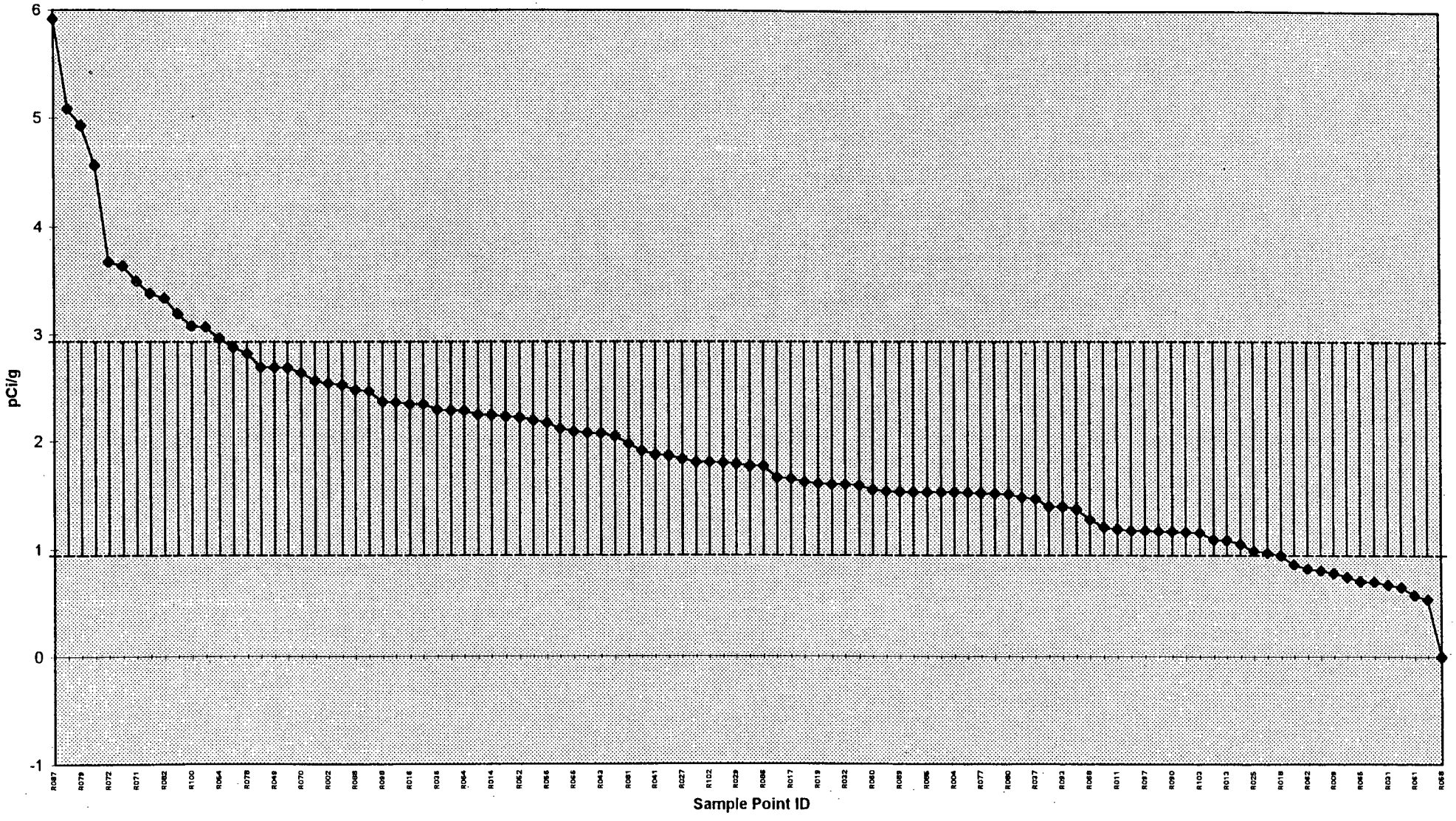
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone H



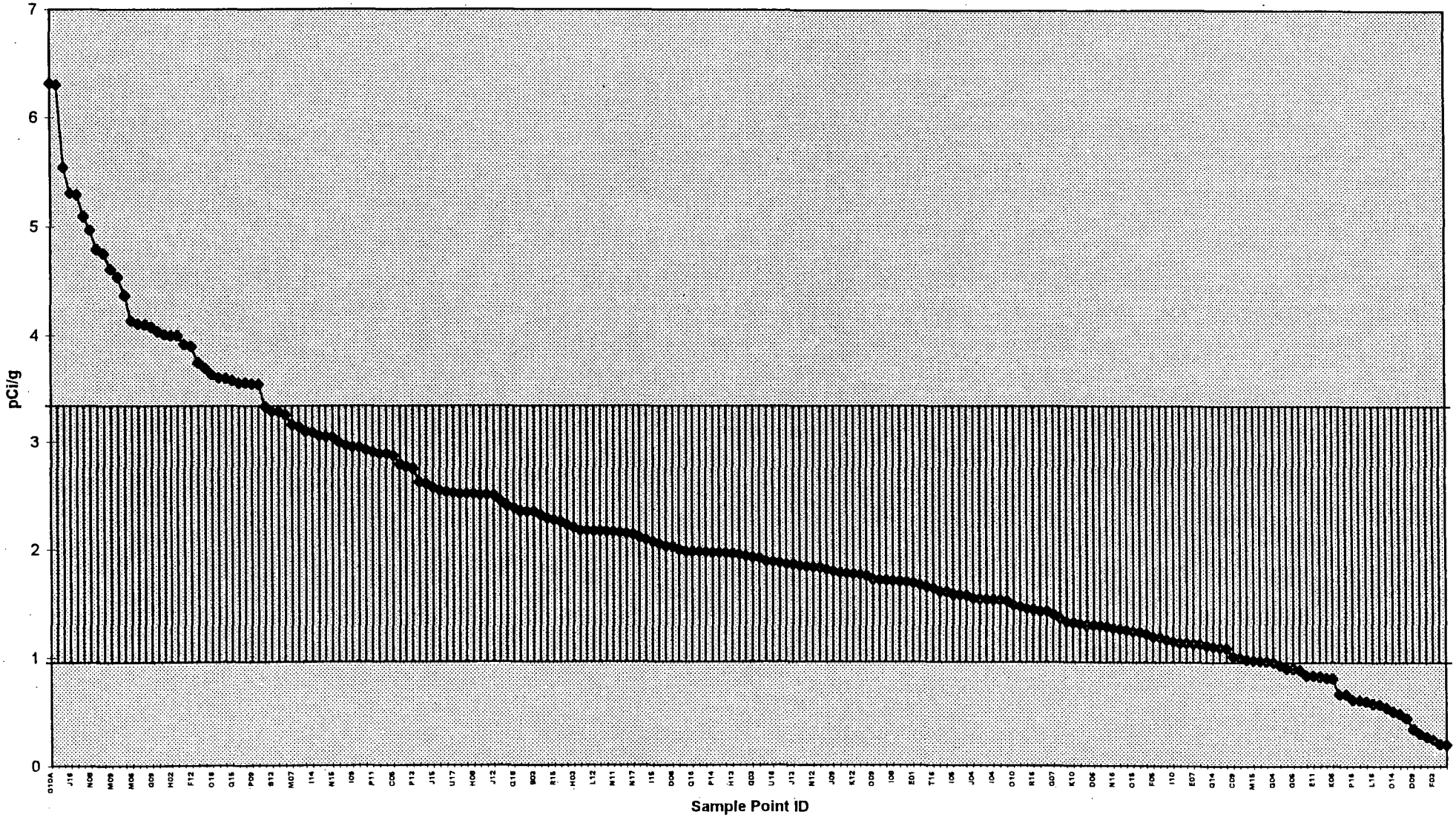
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone I



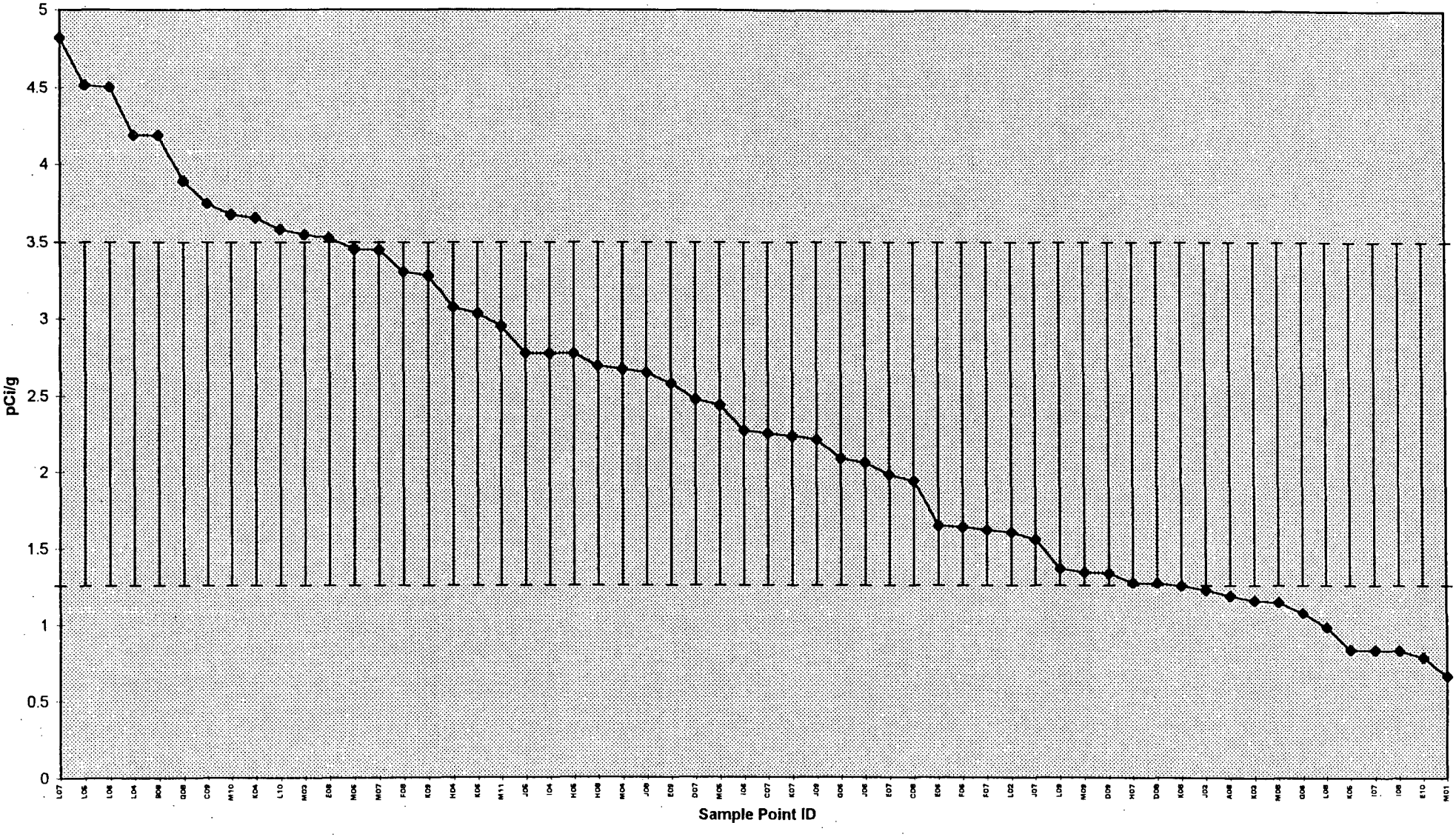
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone J



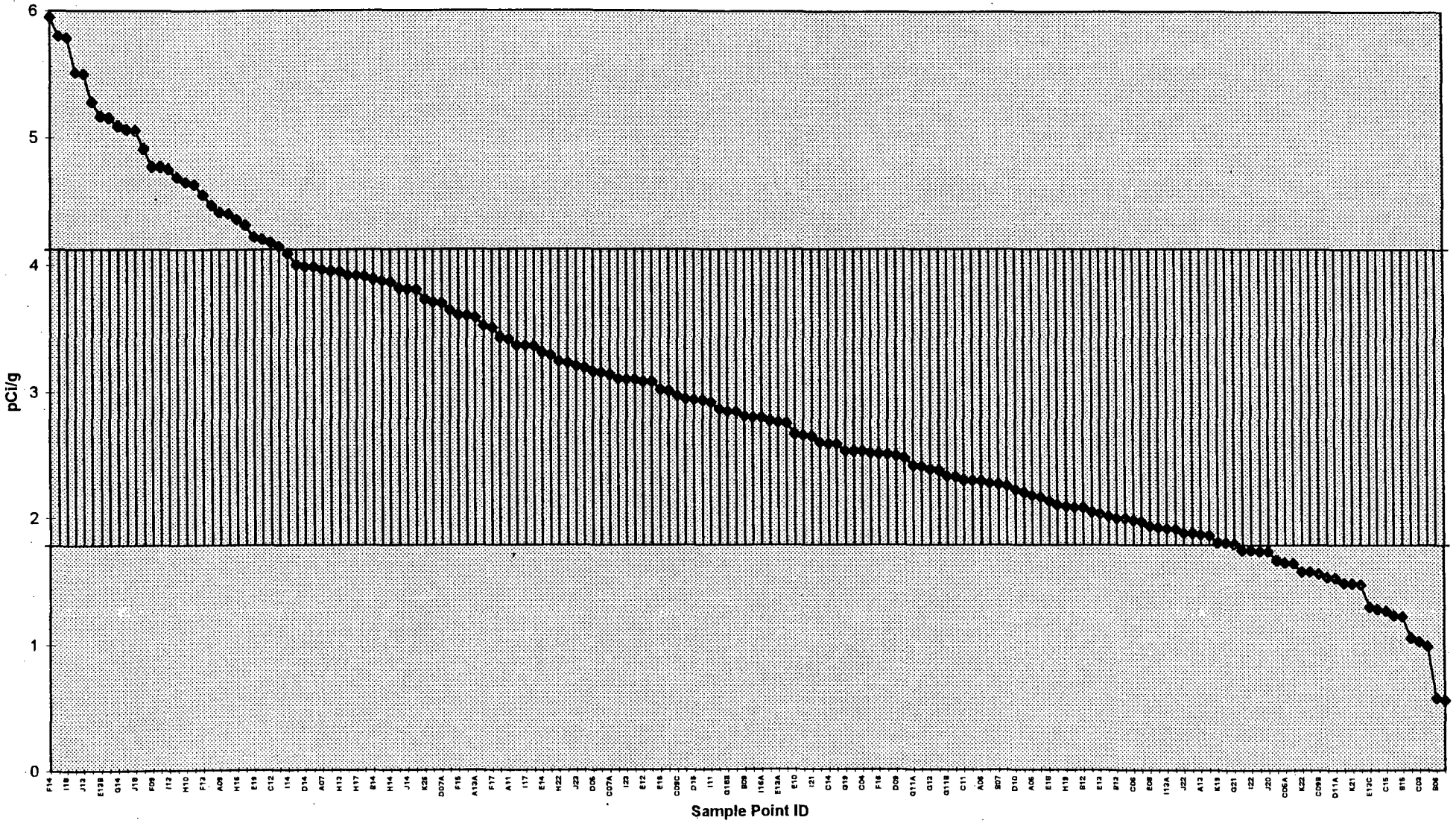
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone K



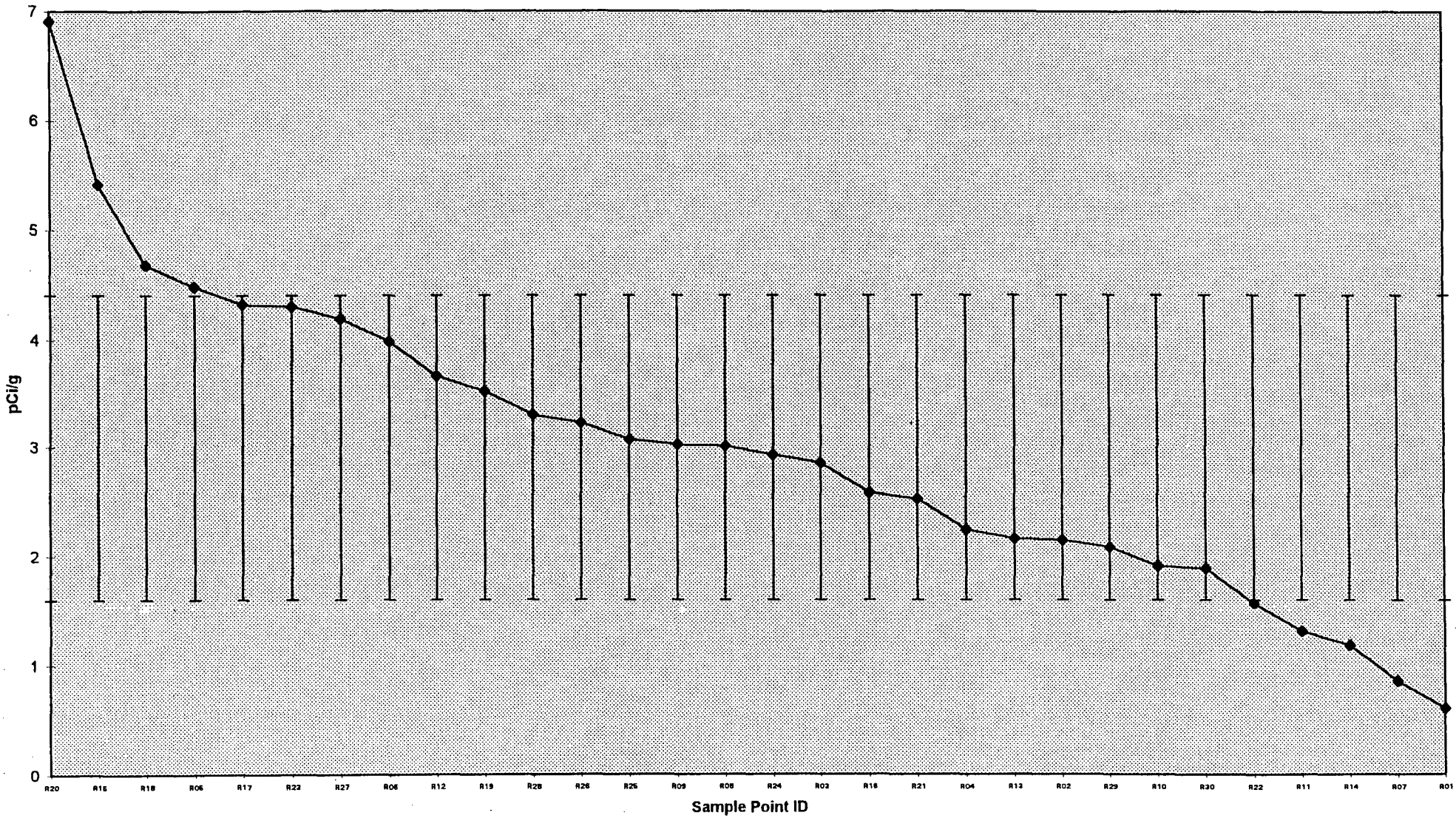
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone L



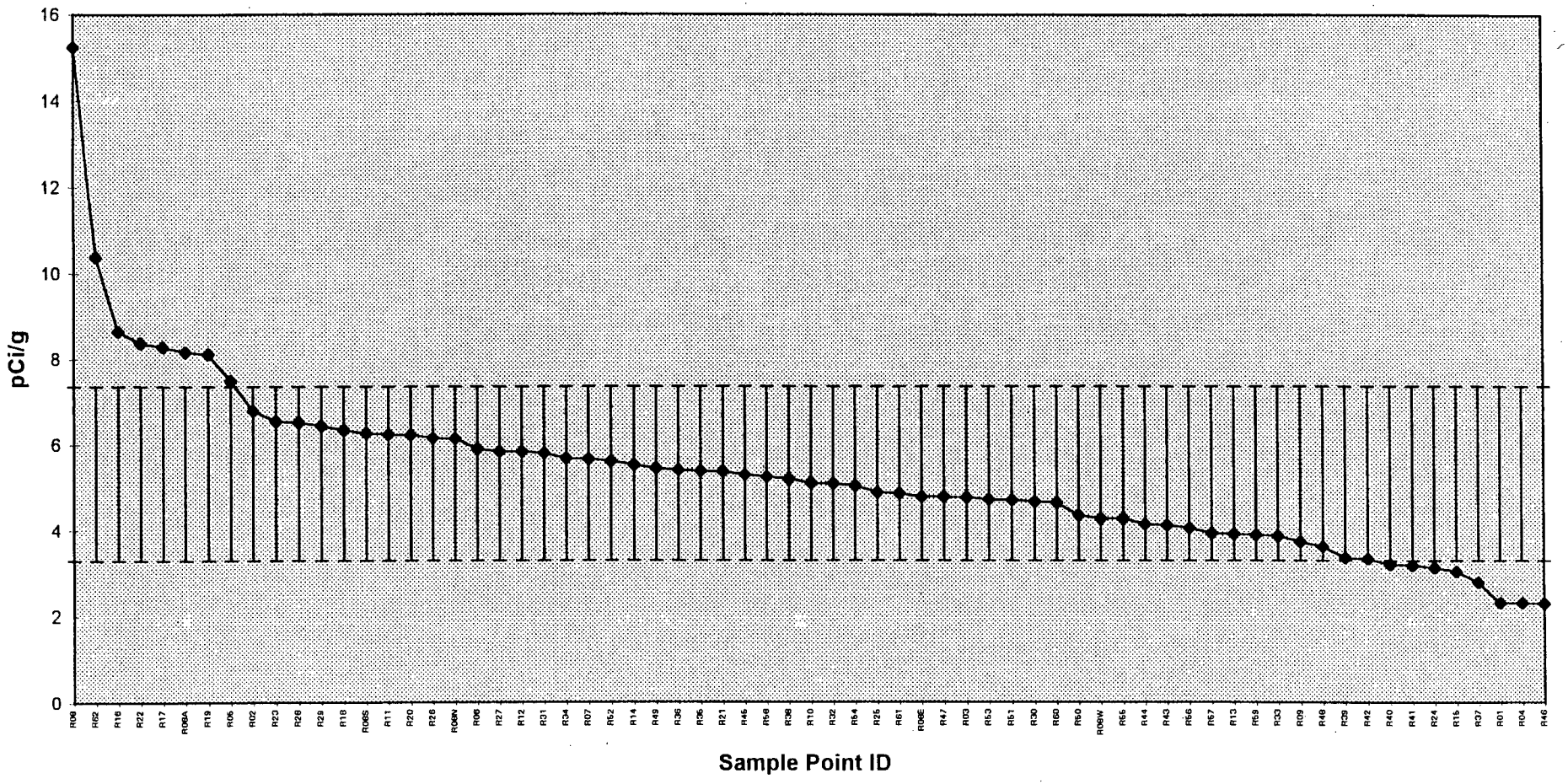
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone M



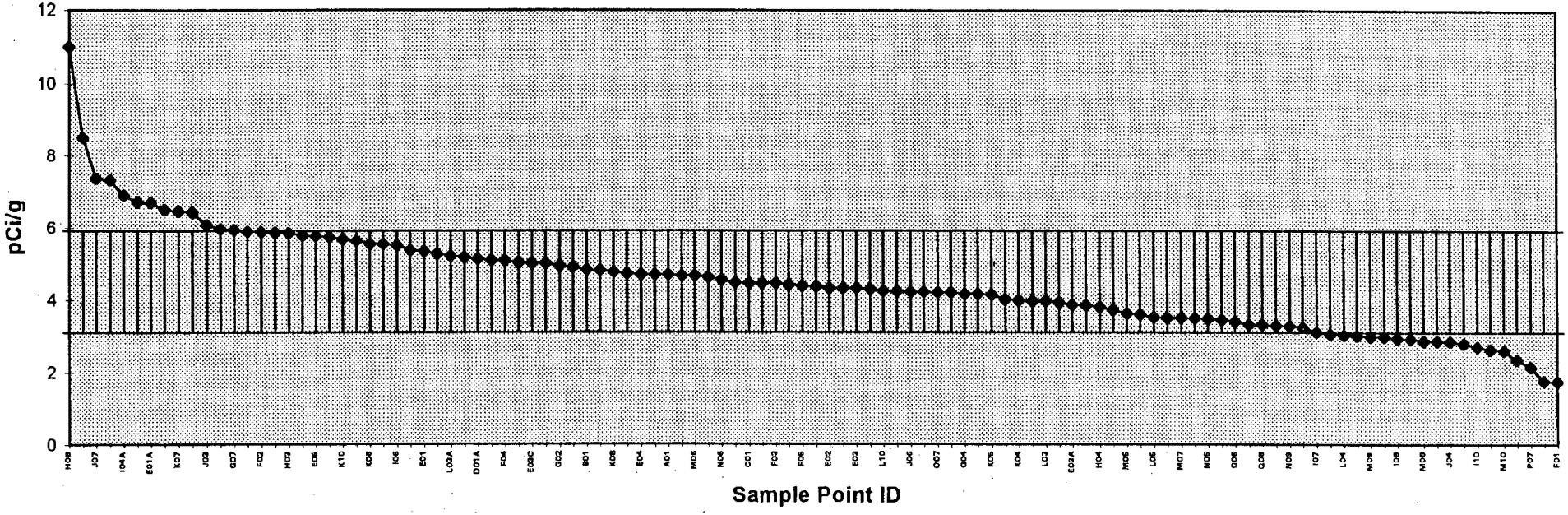
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone N



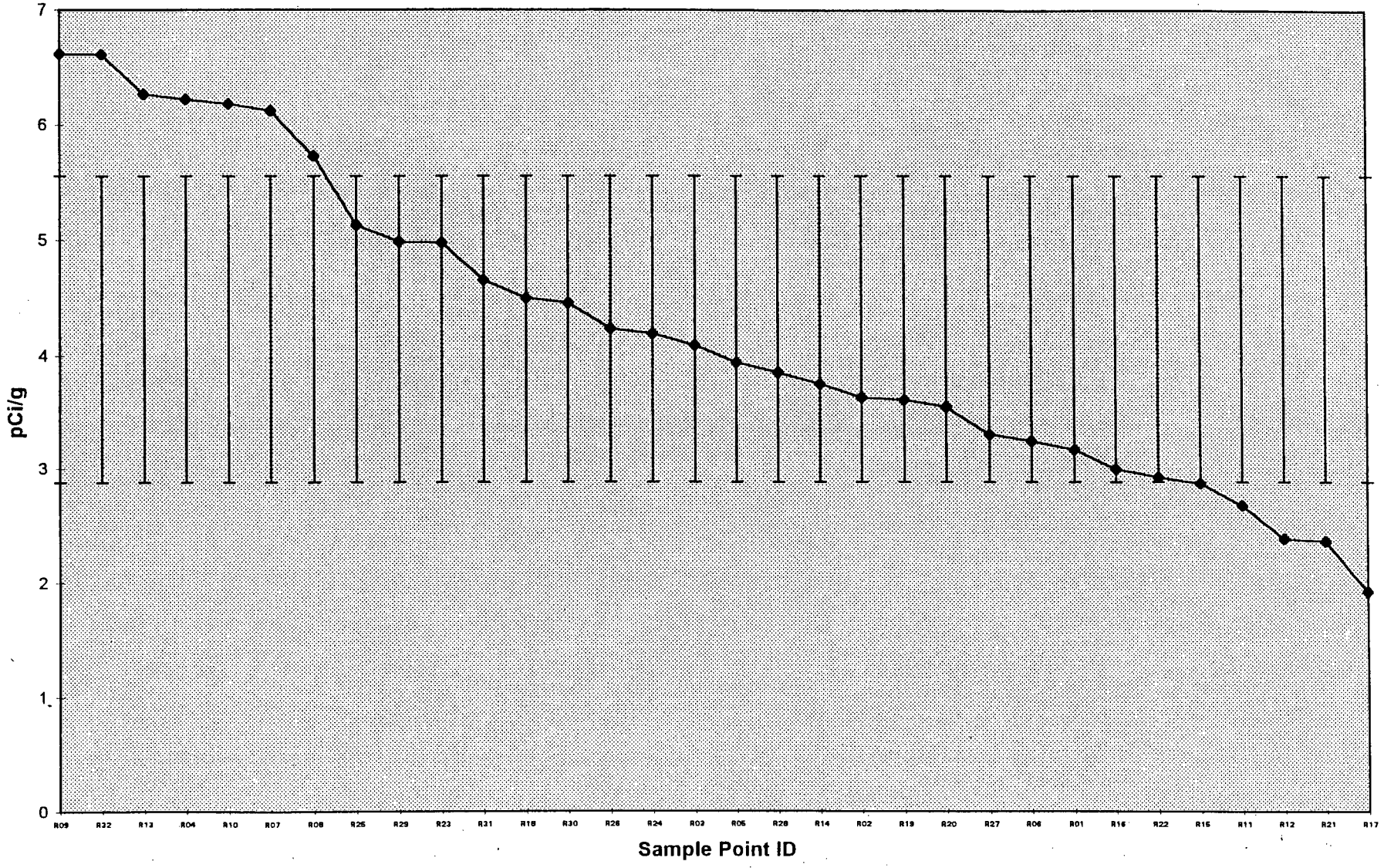
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone A



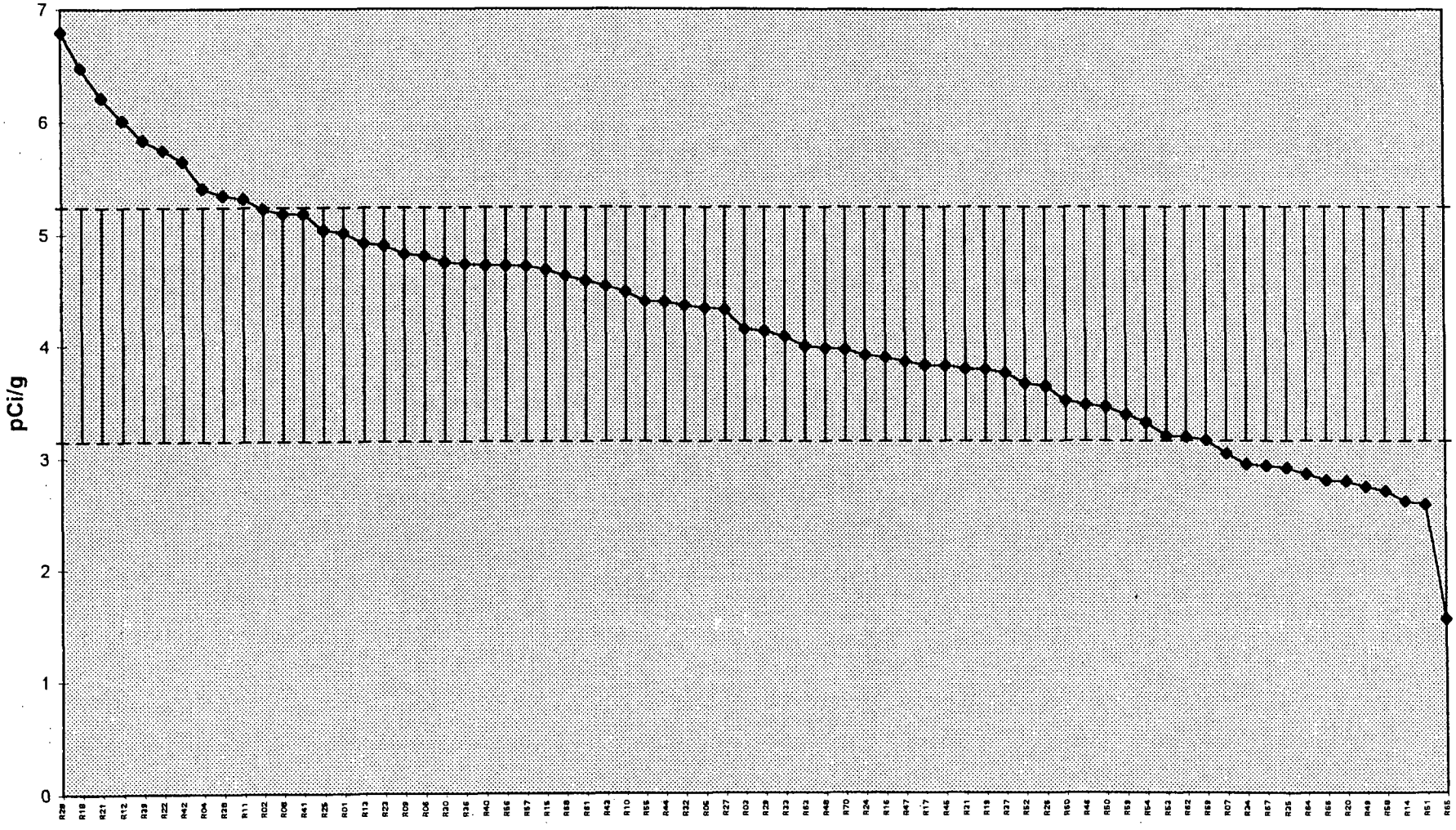
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone B



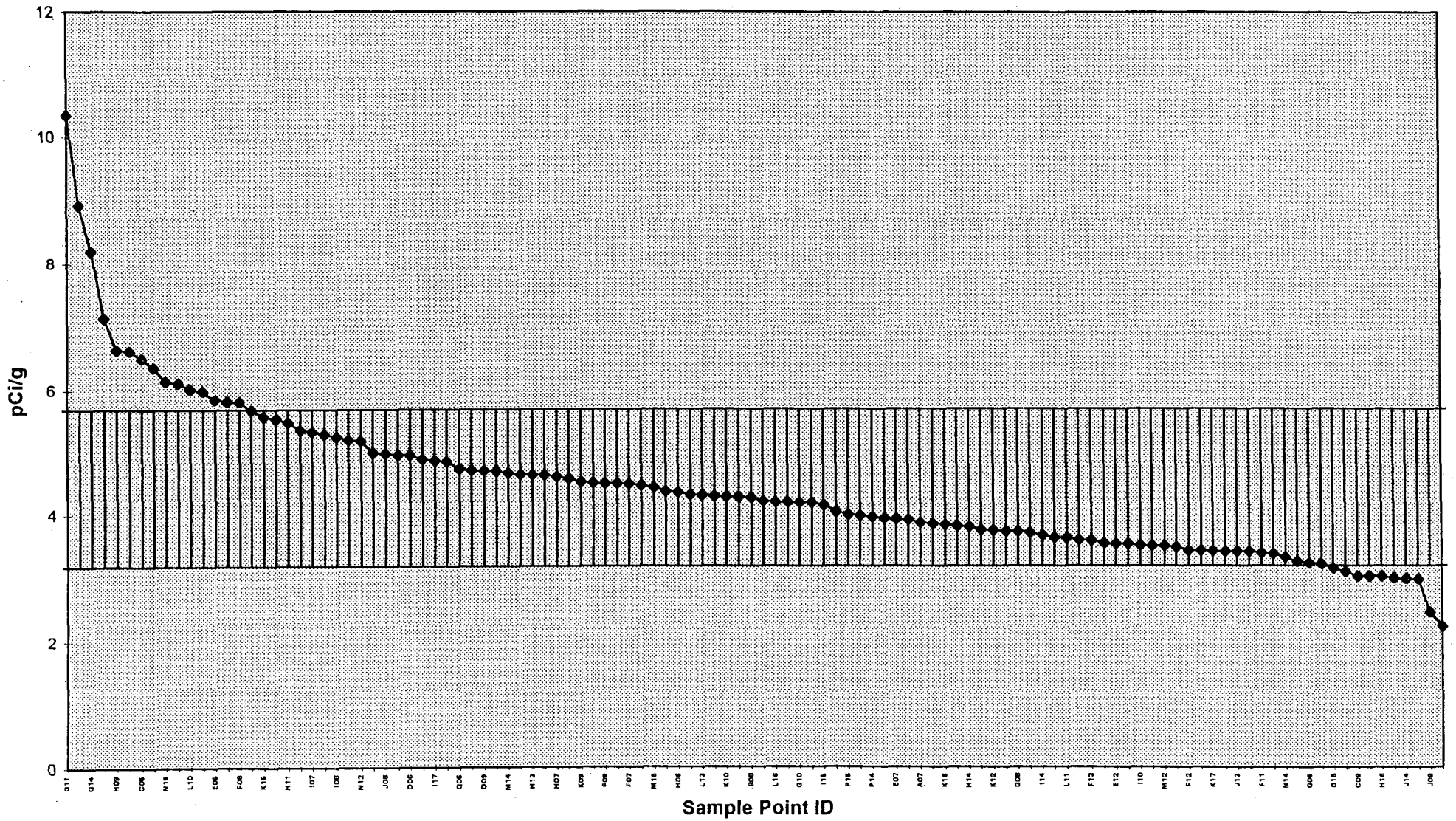
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone C



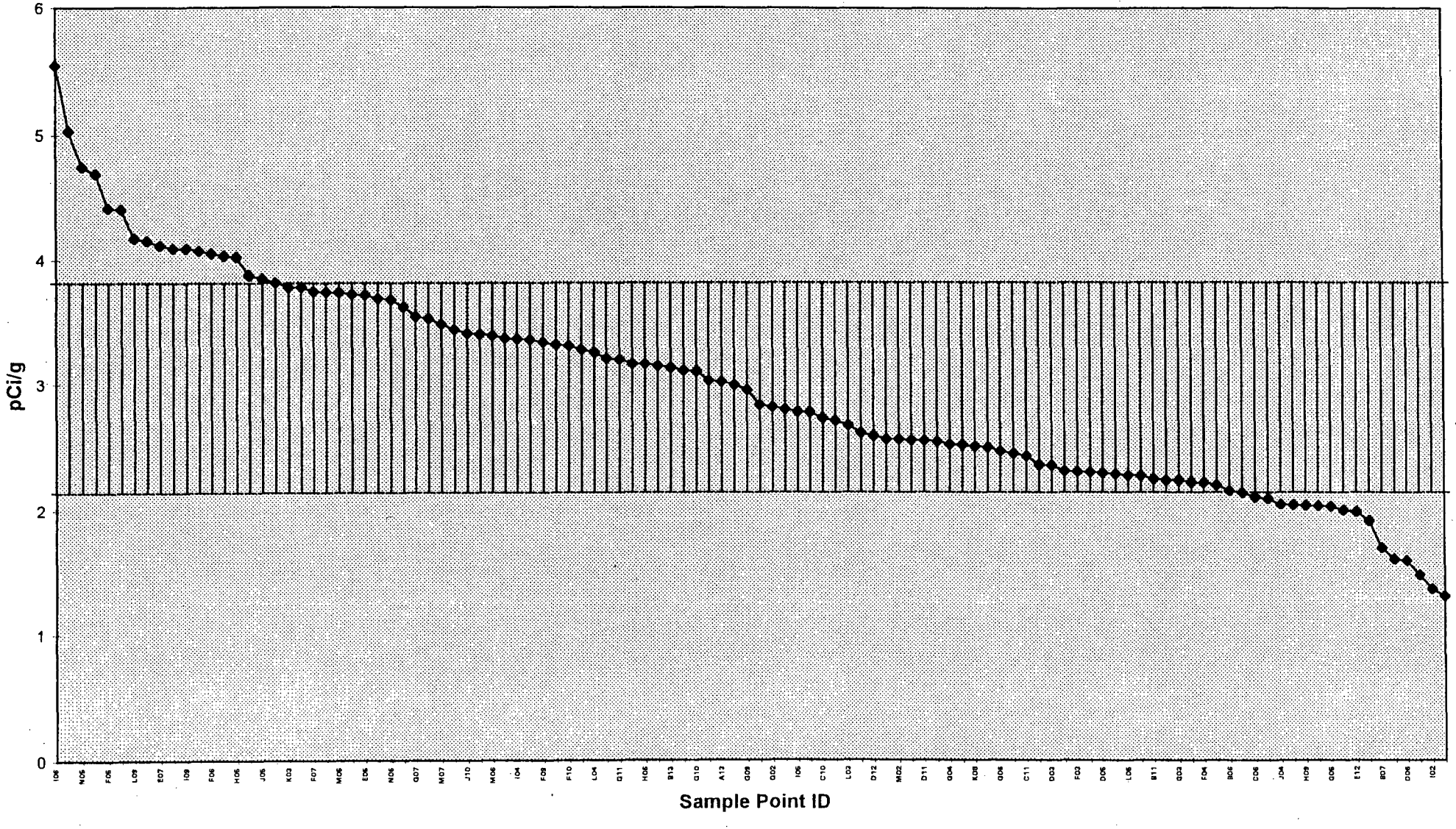
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone D



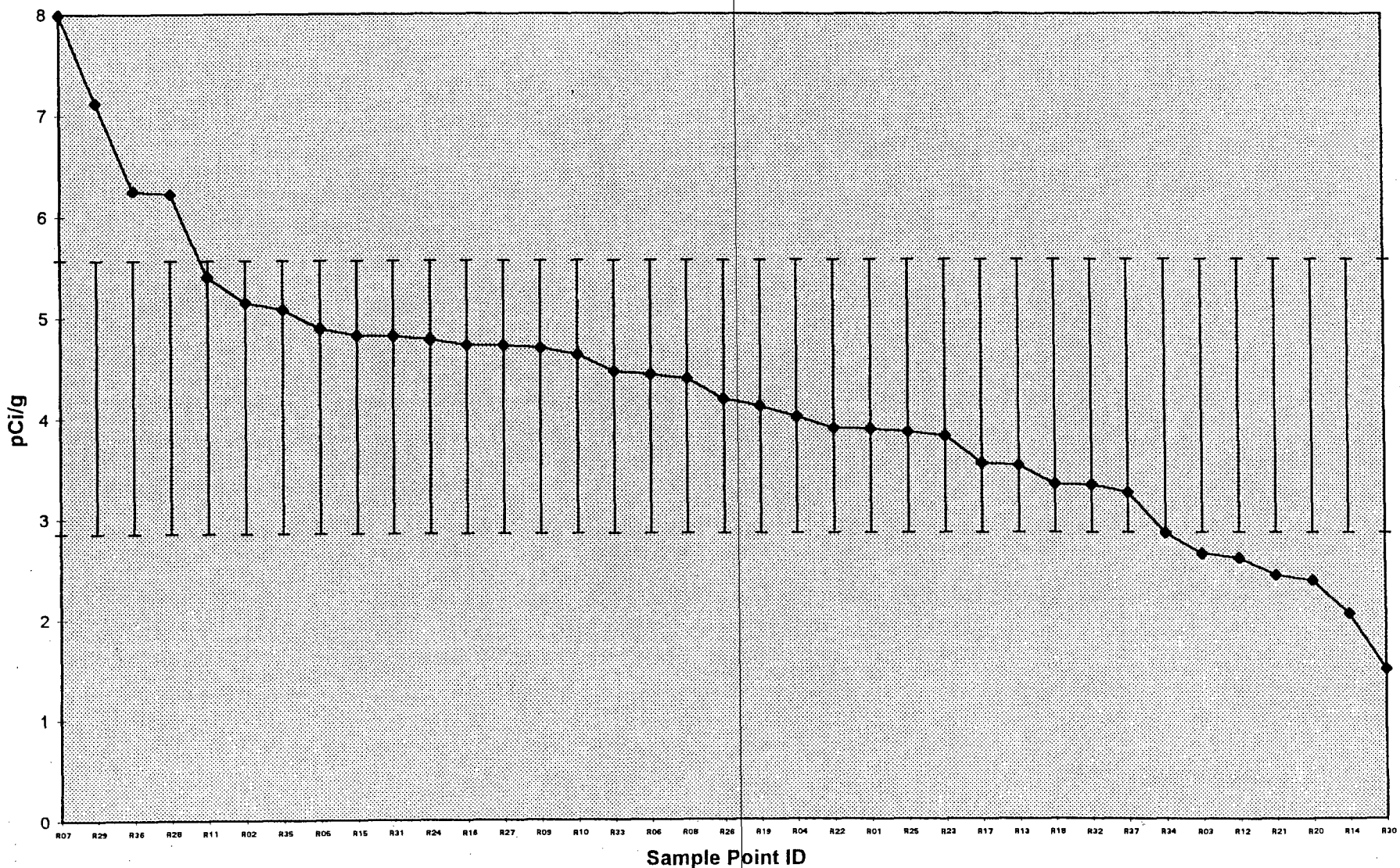
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone E



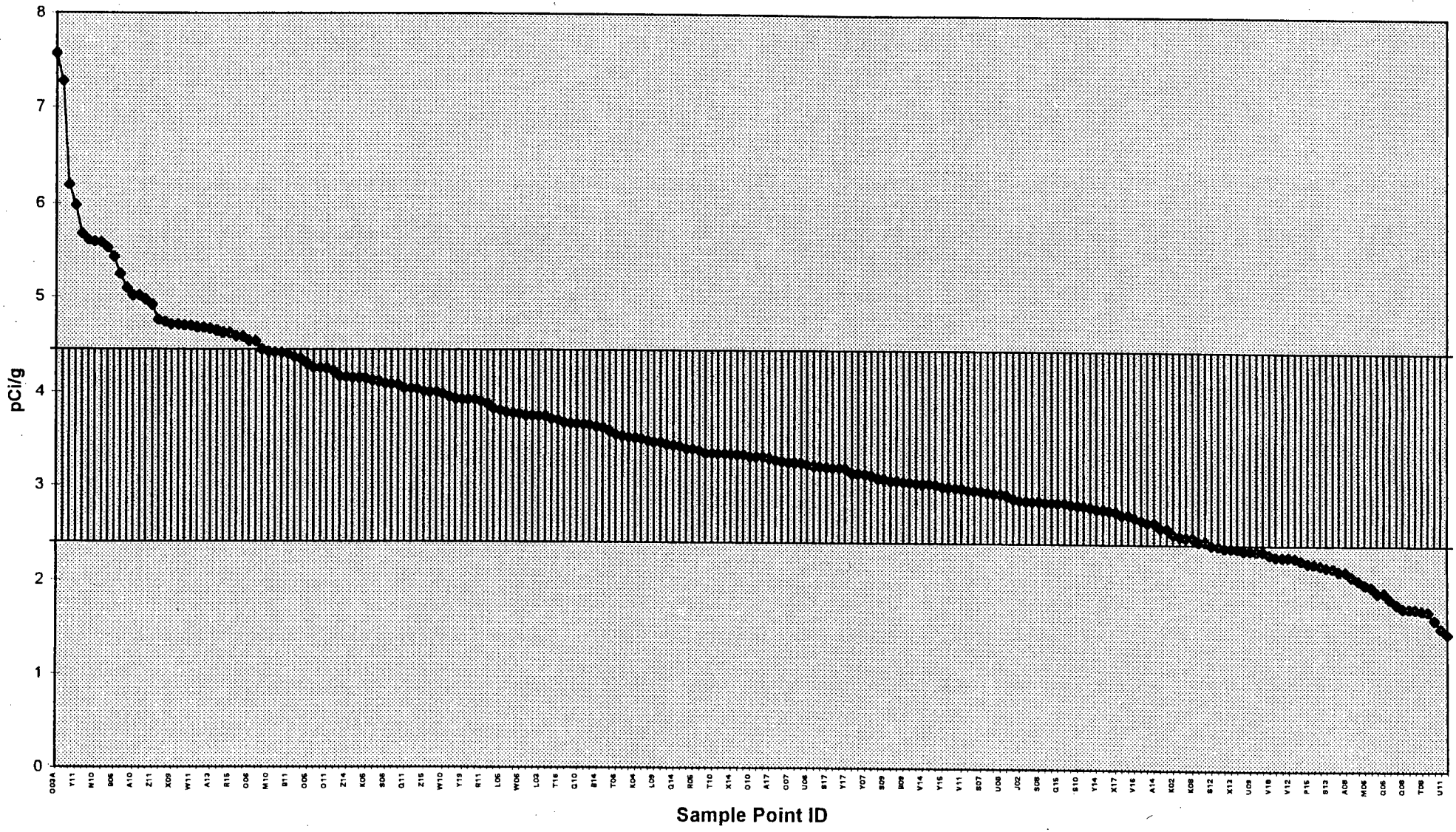
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone F



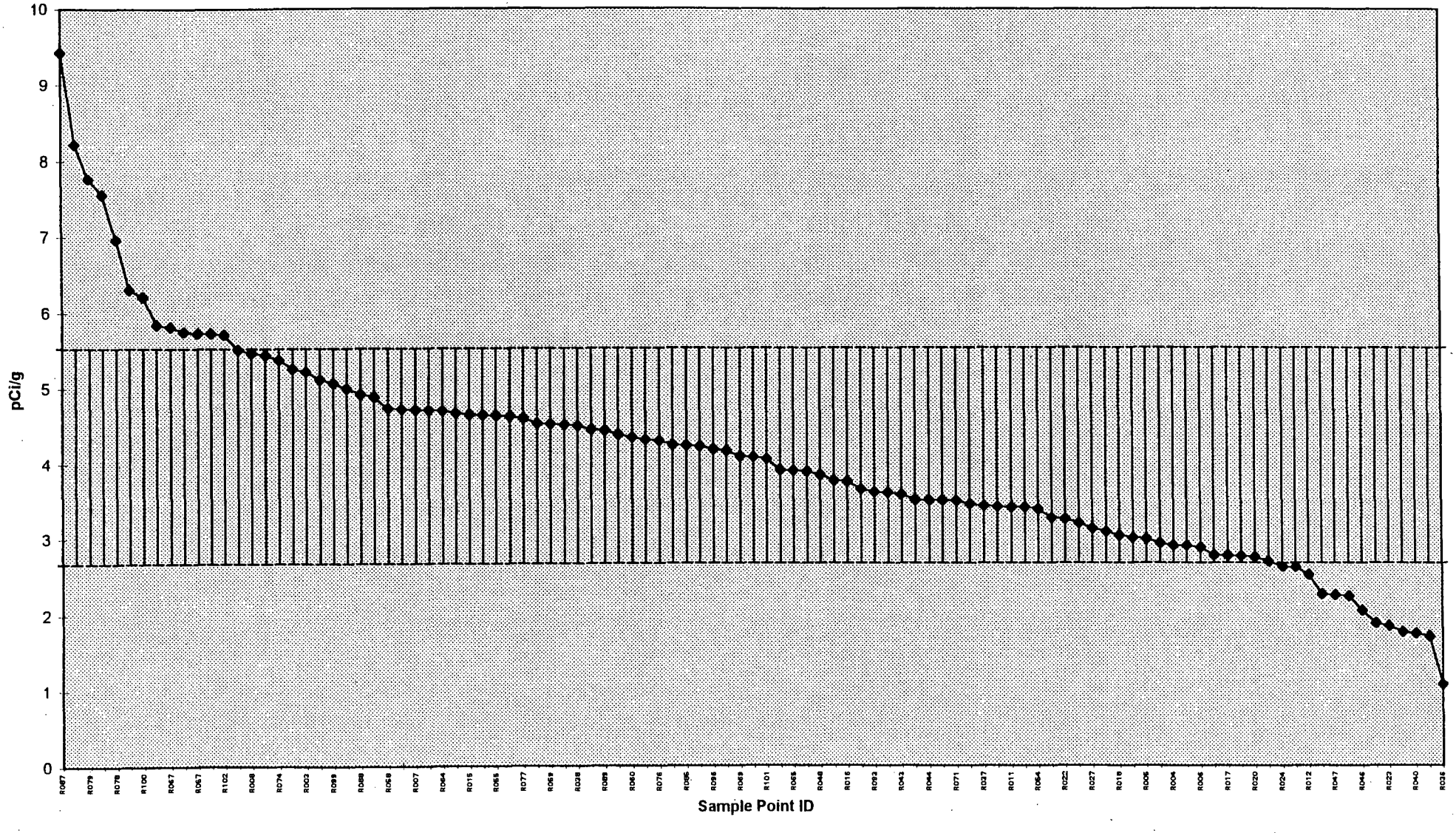
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone H



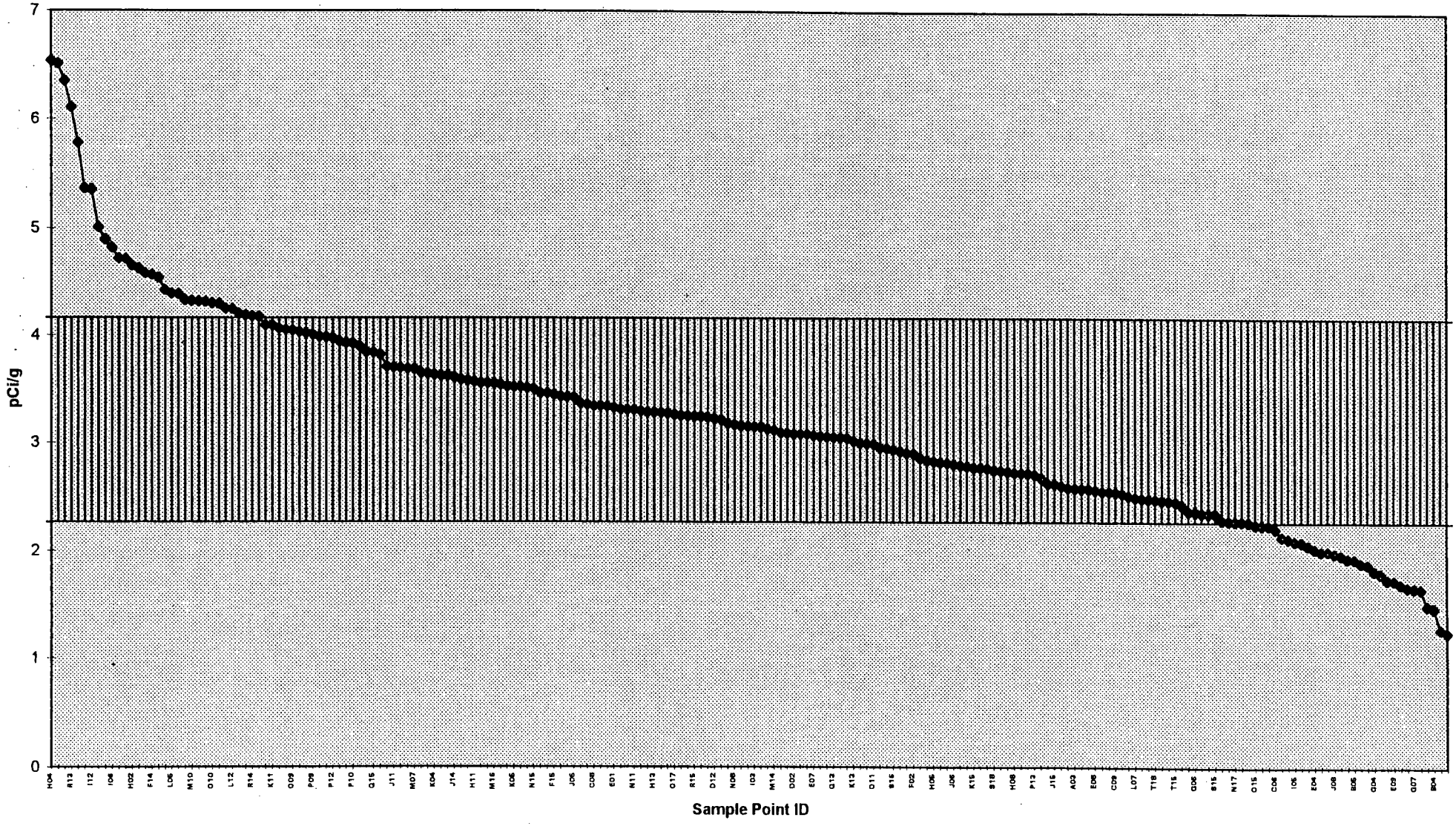
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone I



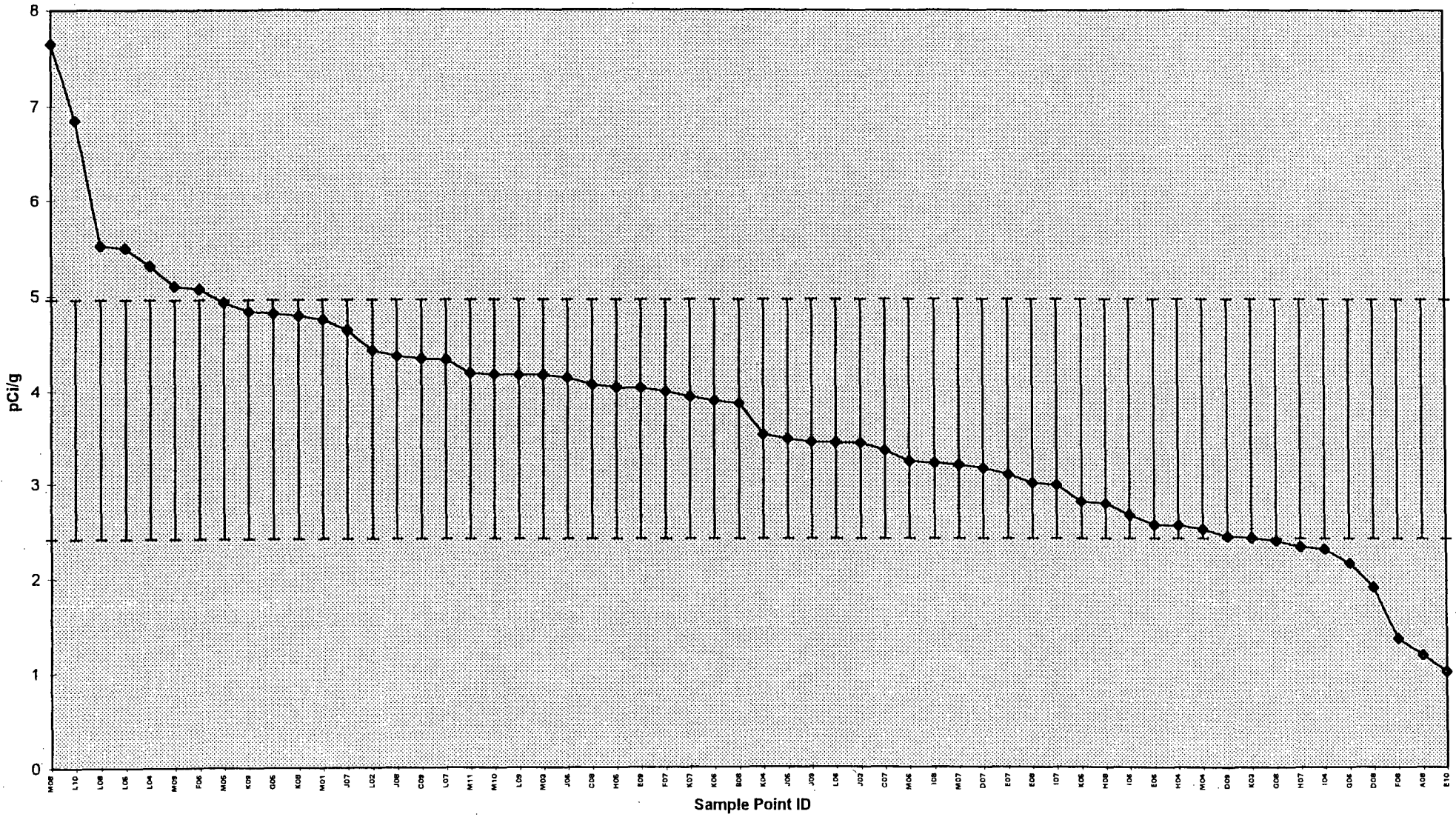
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone J



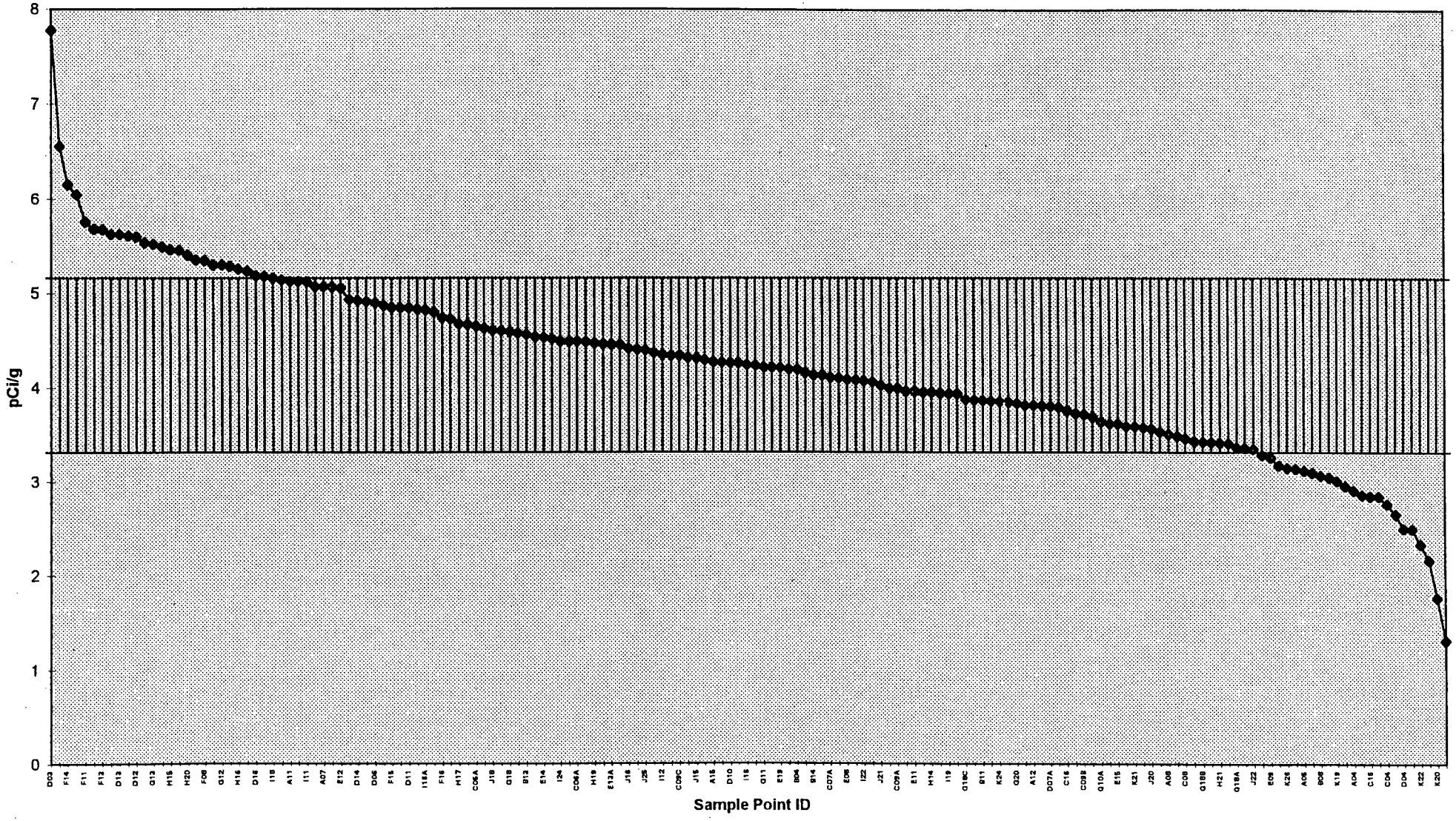
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone K



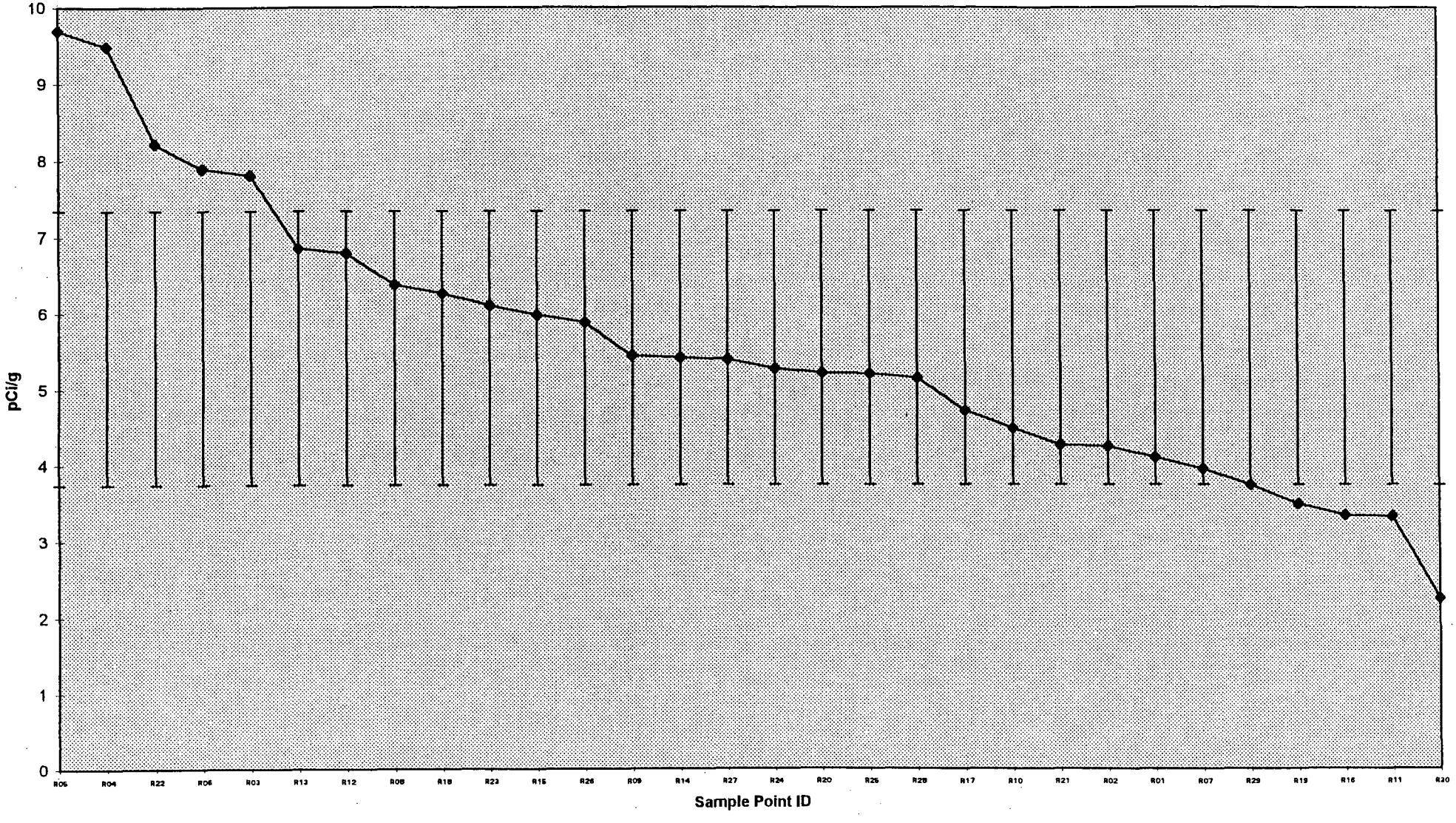
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone L



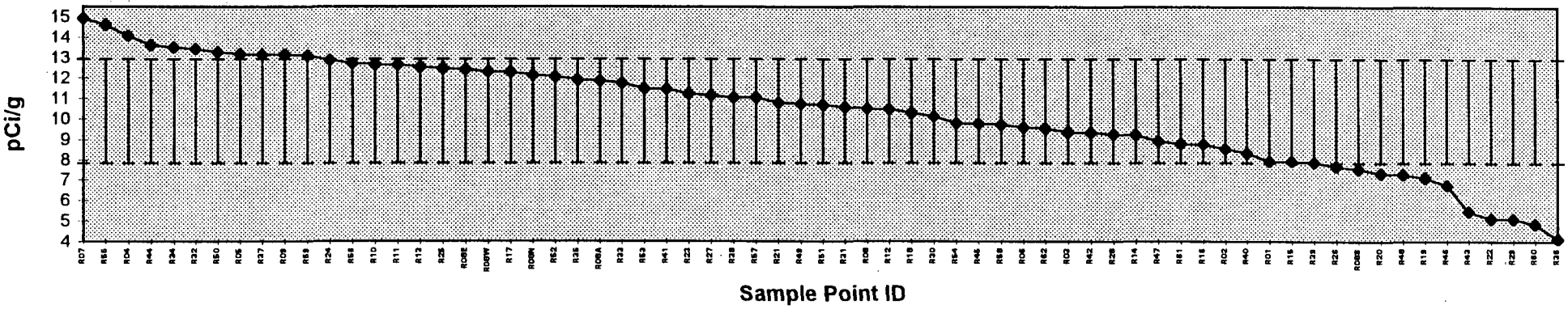
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone M



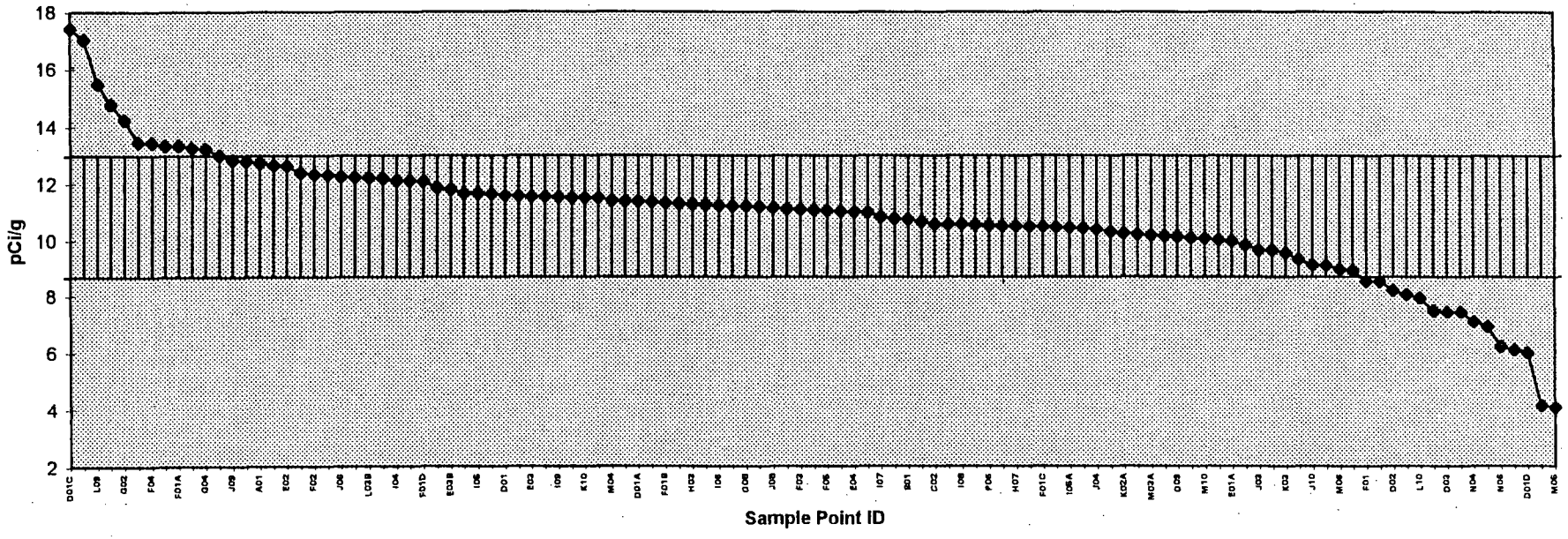
Soil Gross Beta Results (1 Sigma)
Zone 2 SubZone N



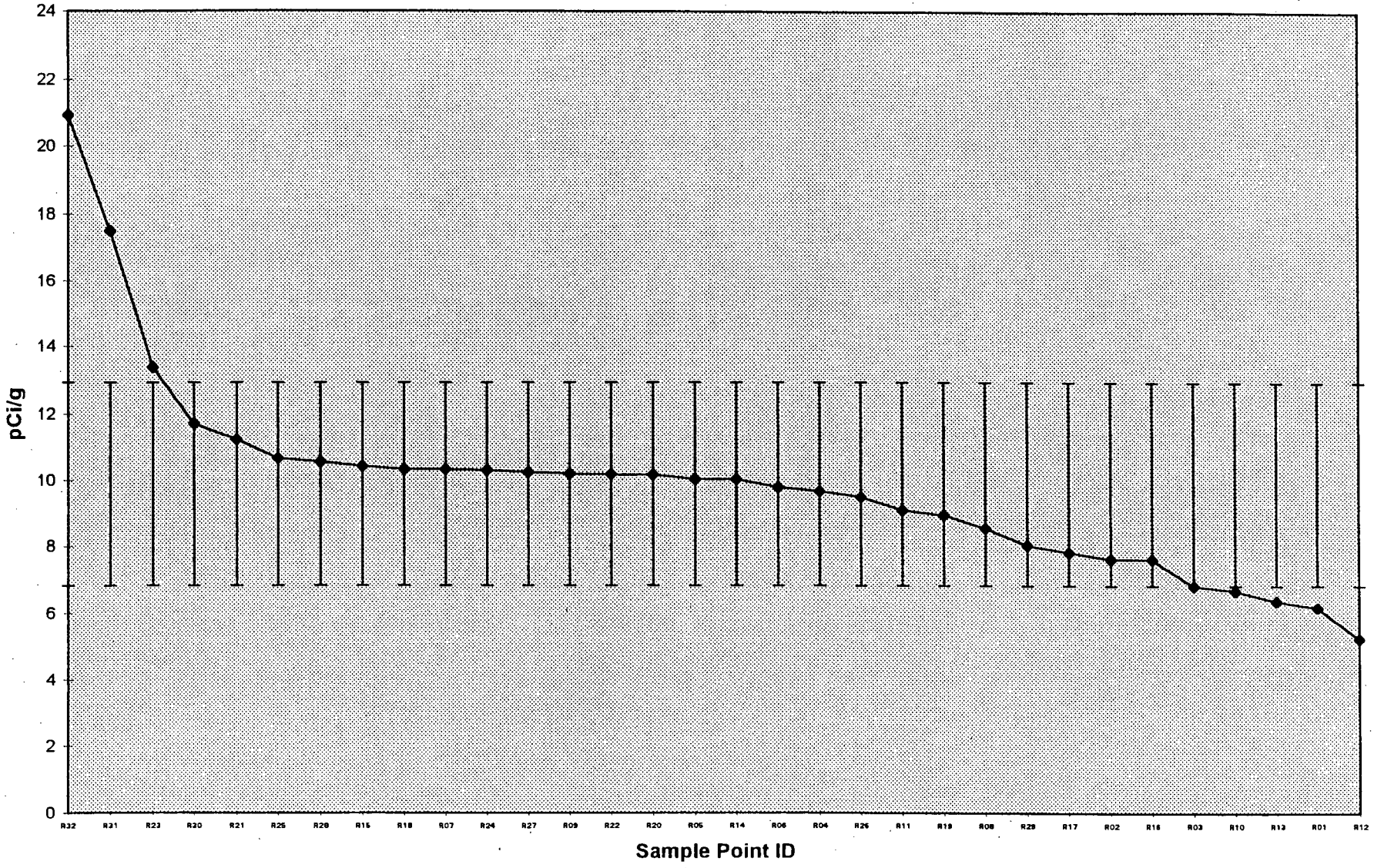
Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone A



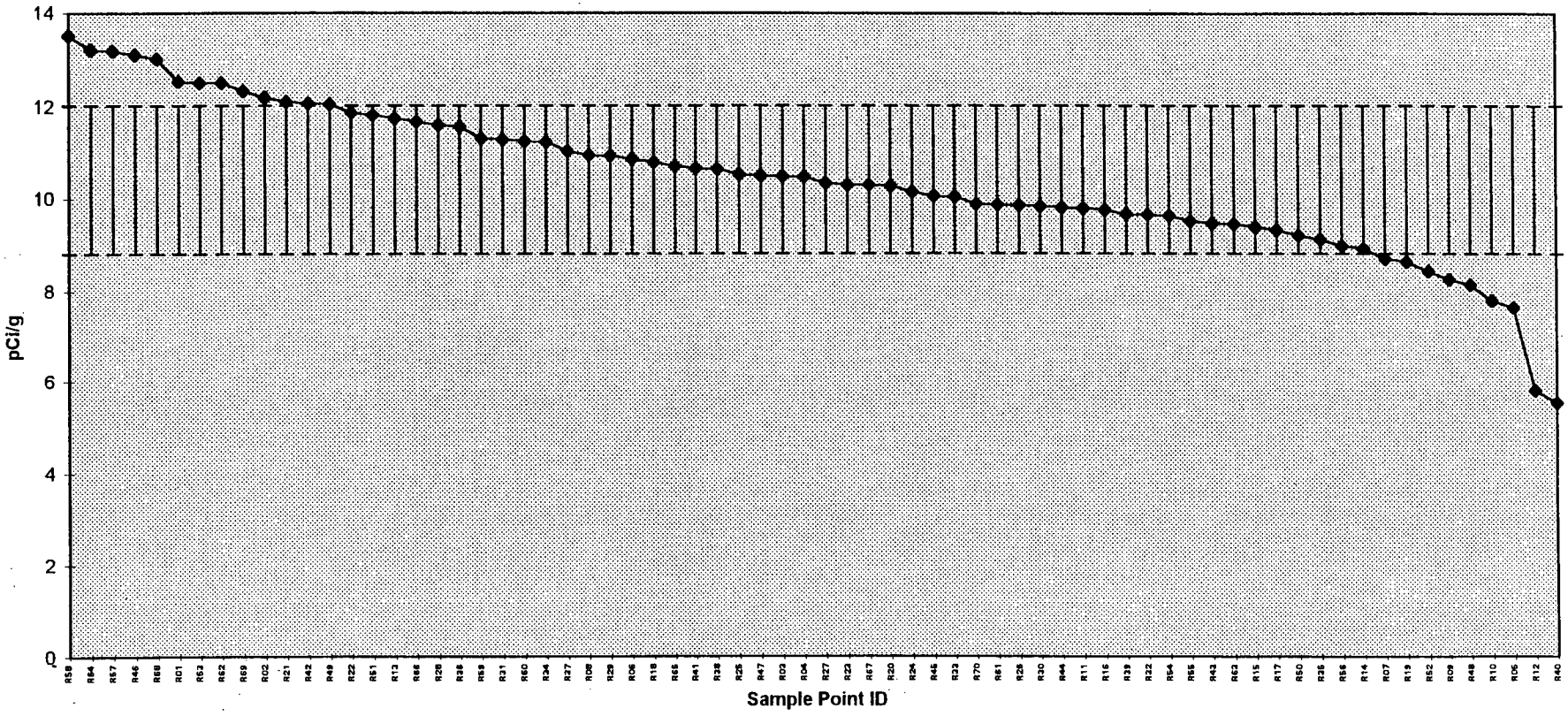
Soil Gross Gamma Results (1Sigma)
Zone 2 SubZone B



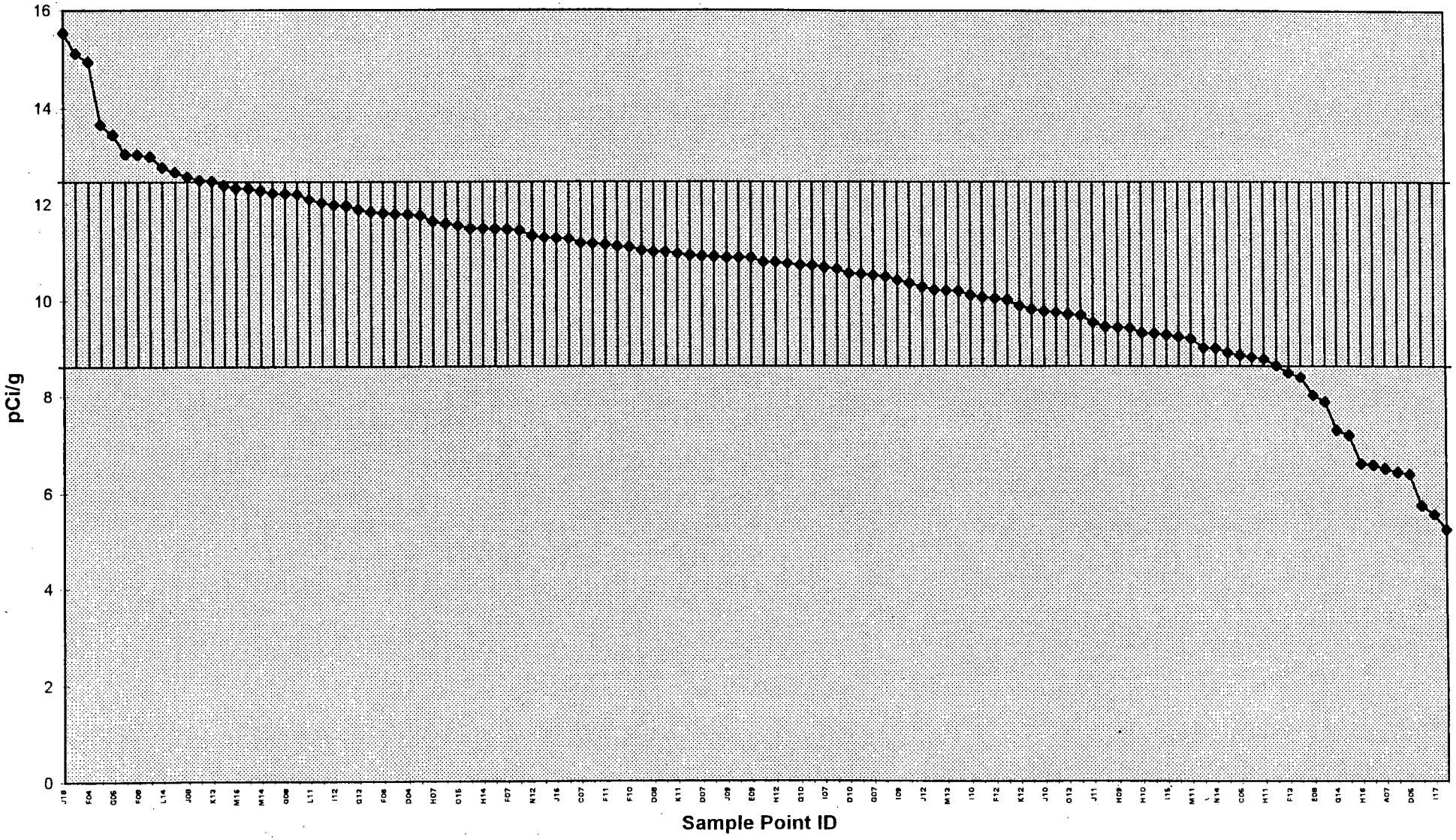
Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone C



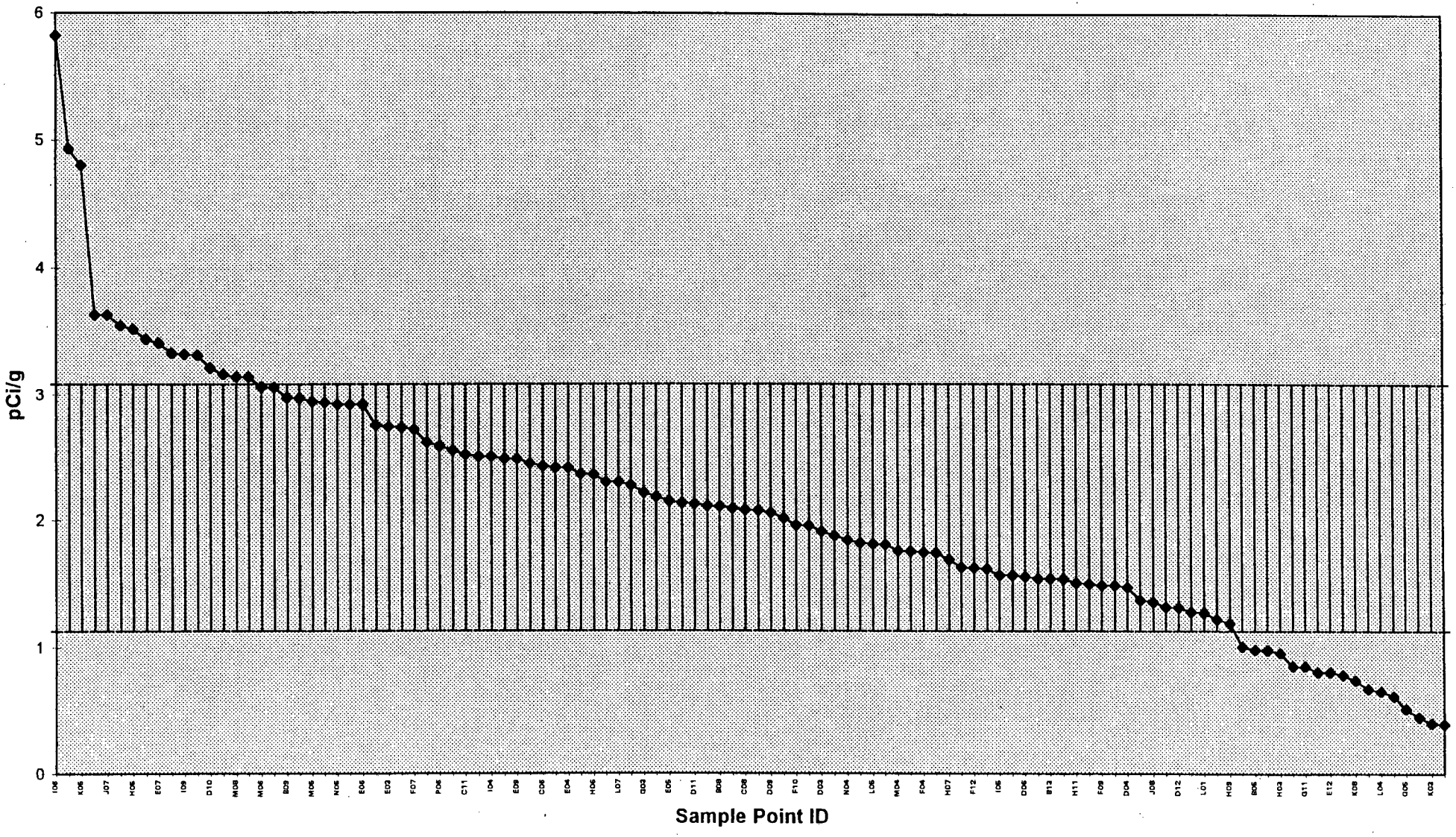
Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone D



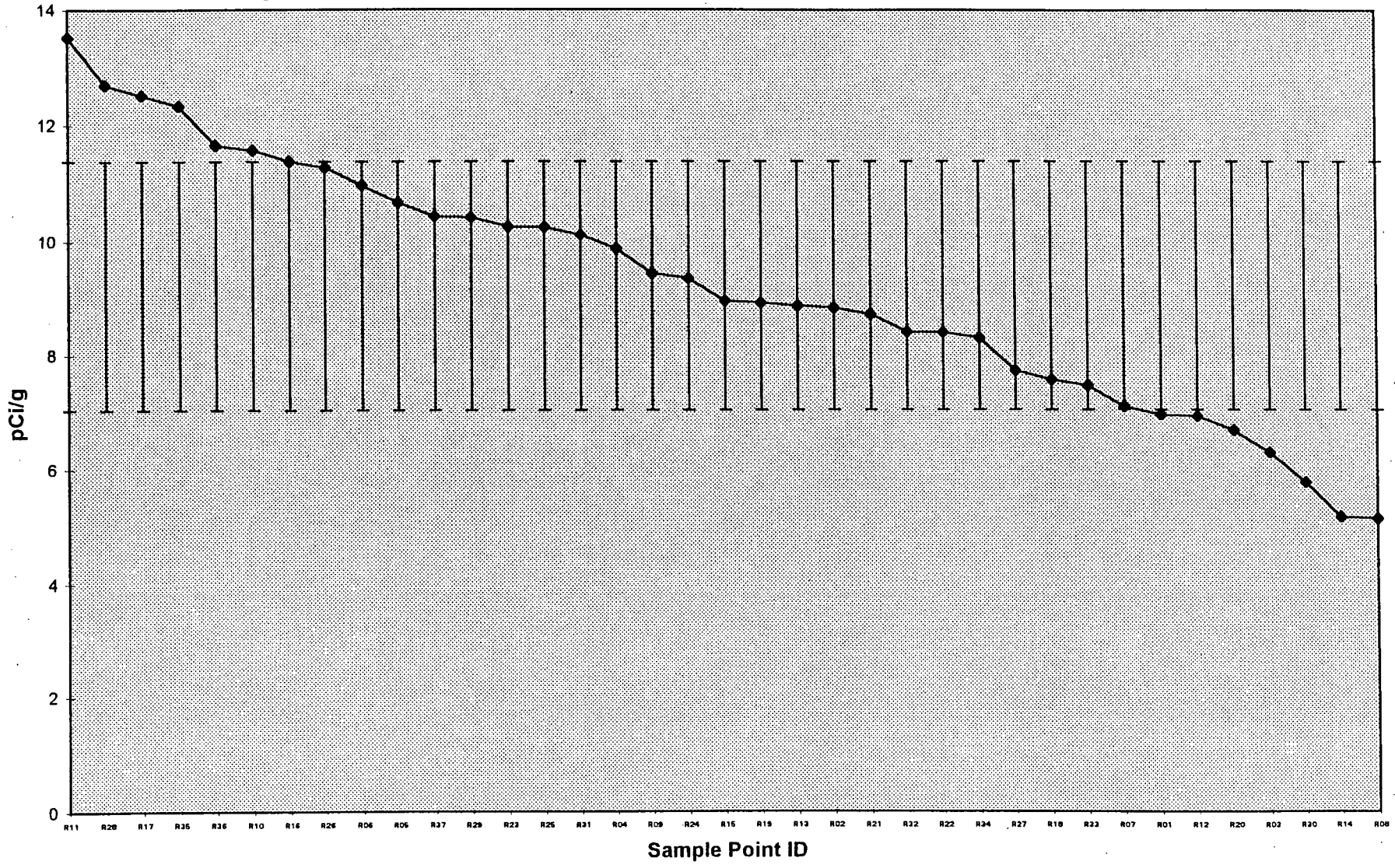
Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone E



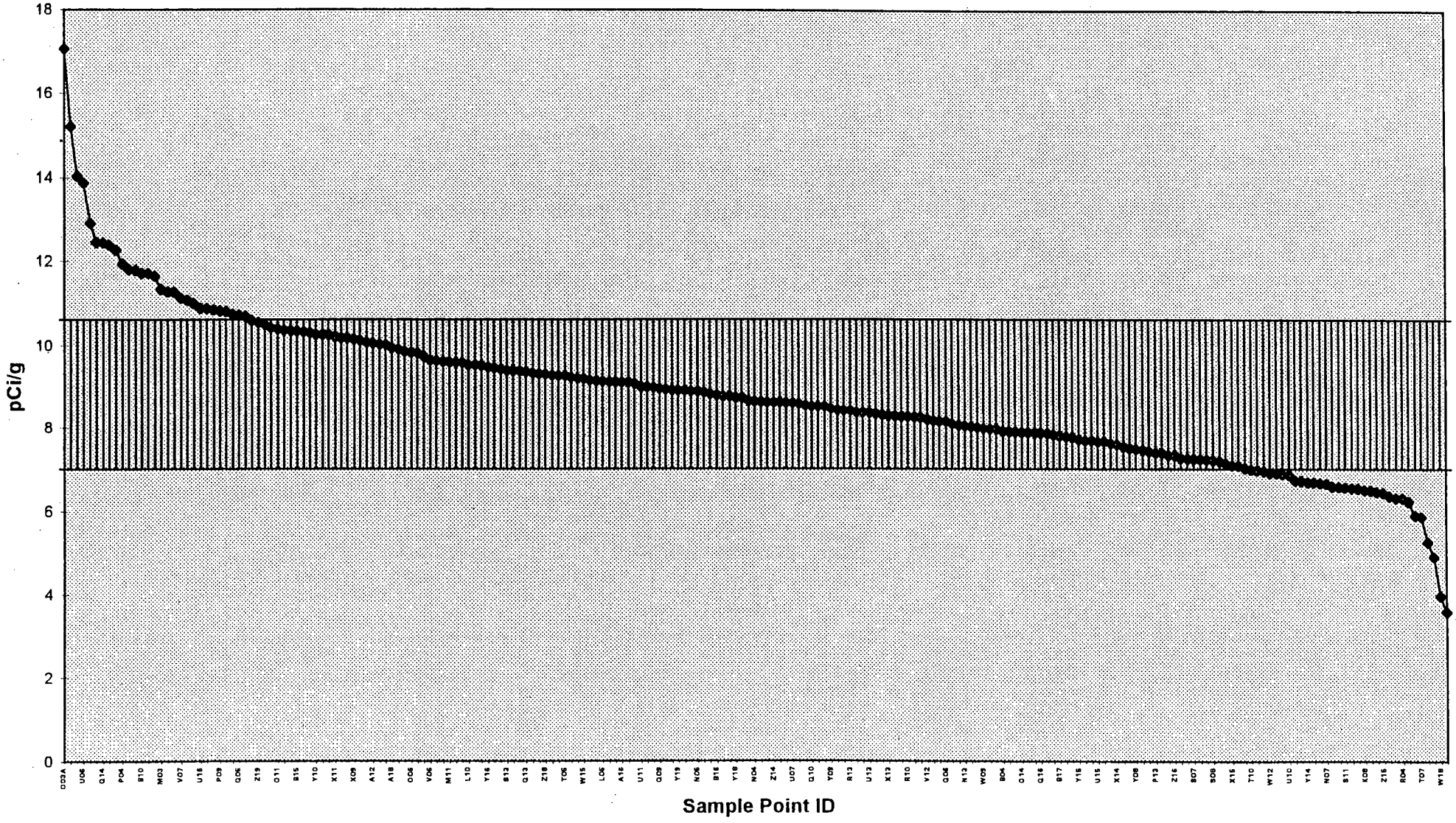
Soil Gross Alpha Results (1 Sigma)
Zone 2 SubZone F



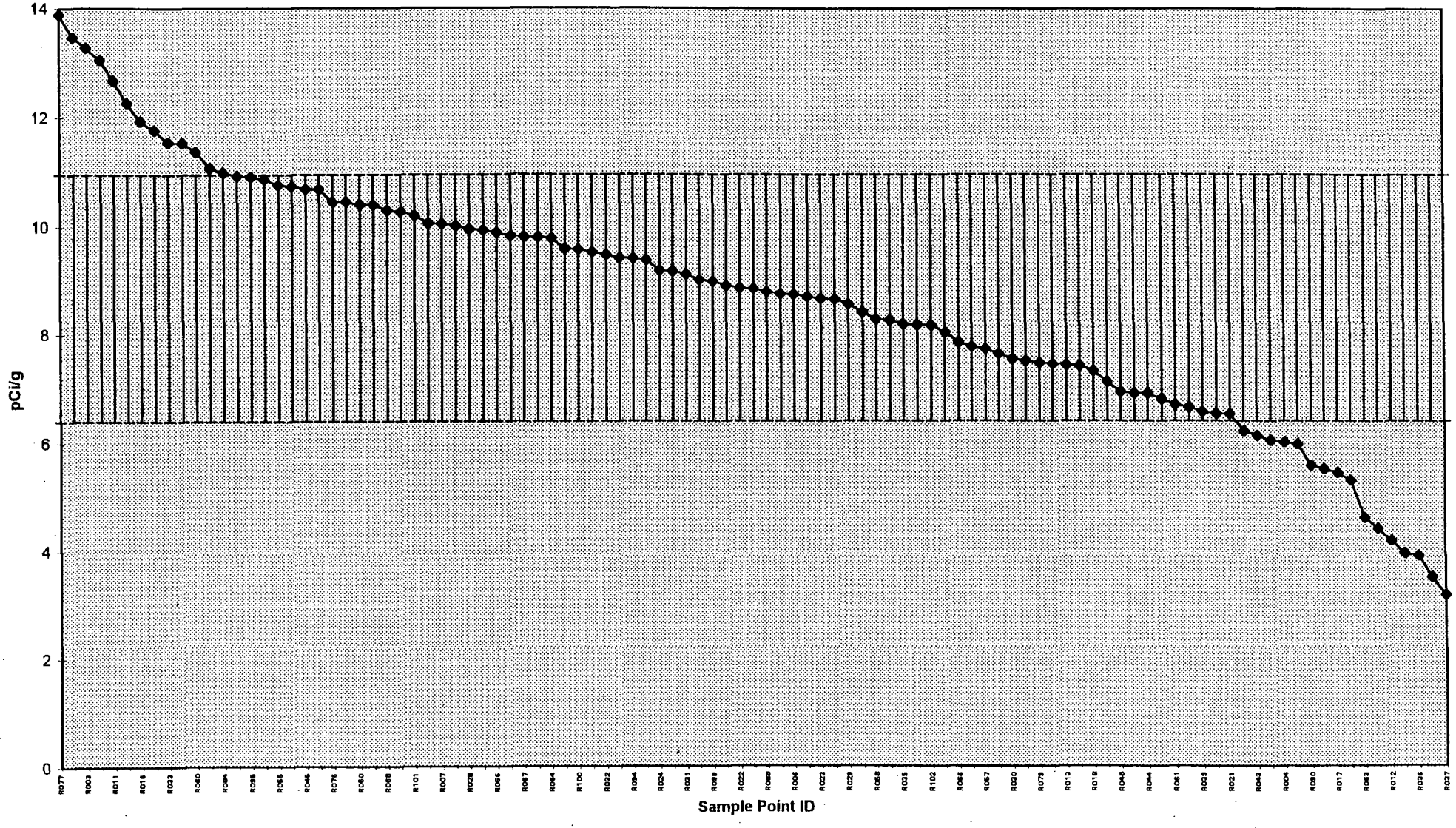
Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone H



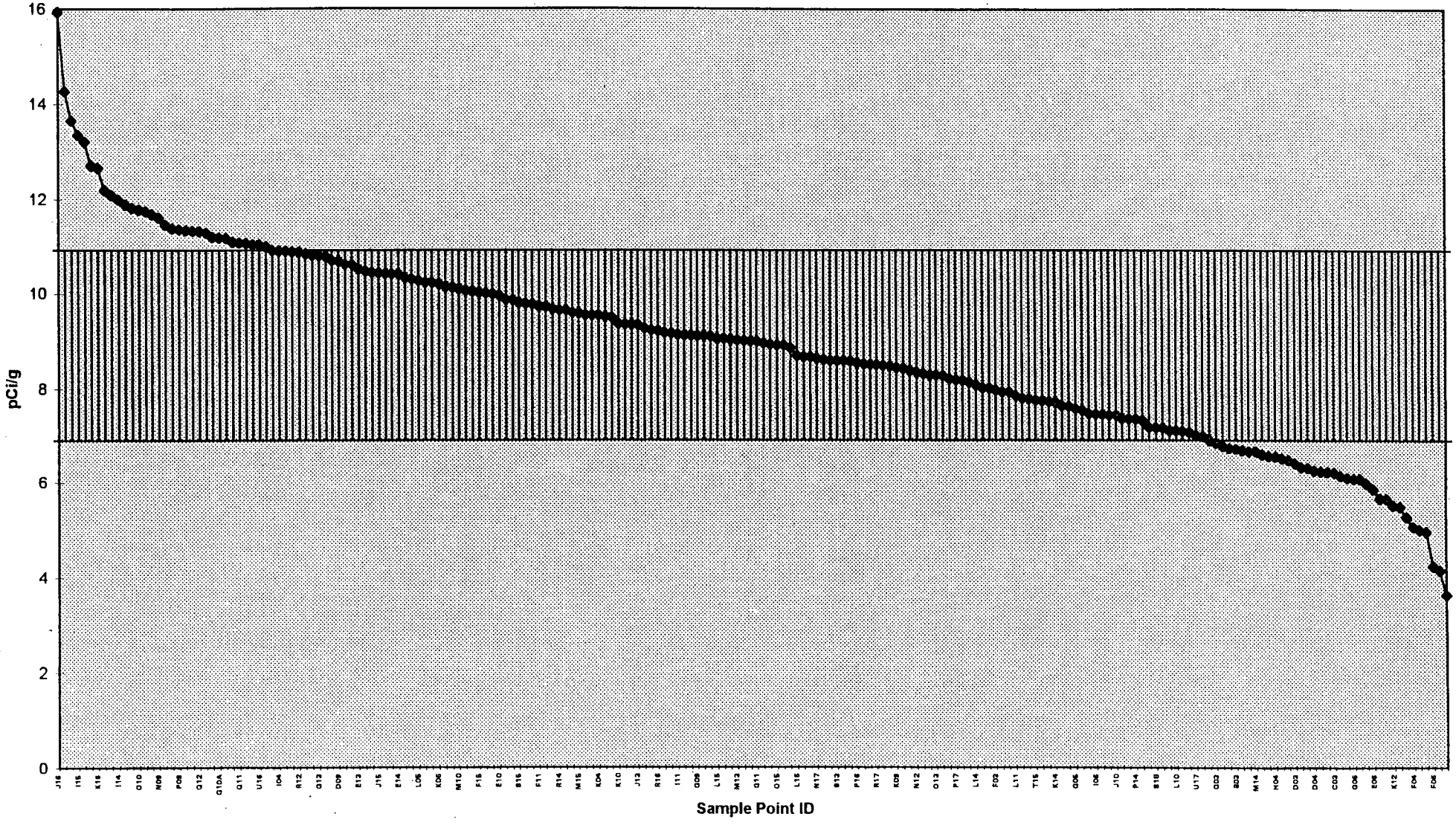
Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone I



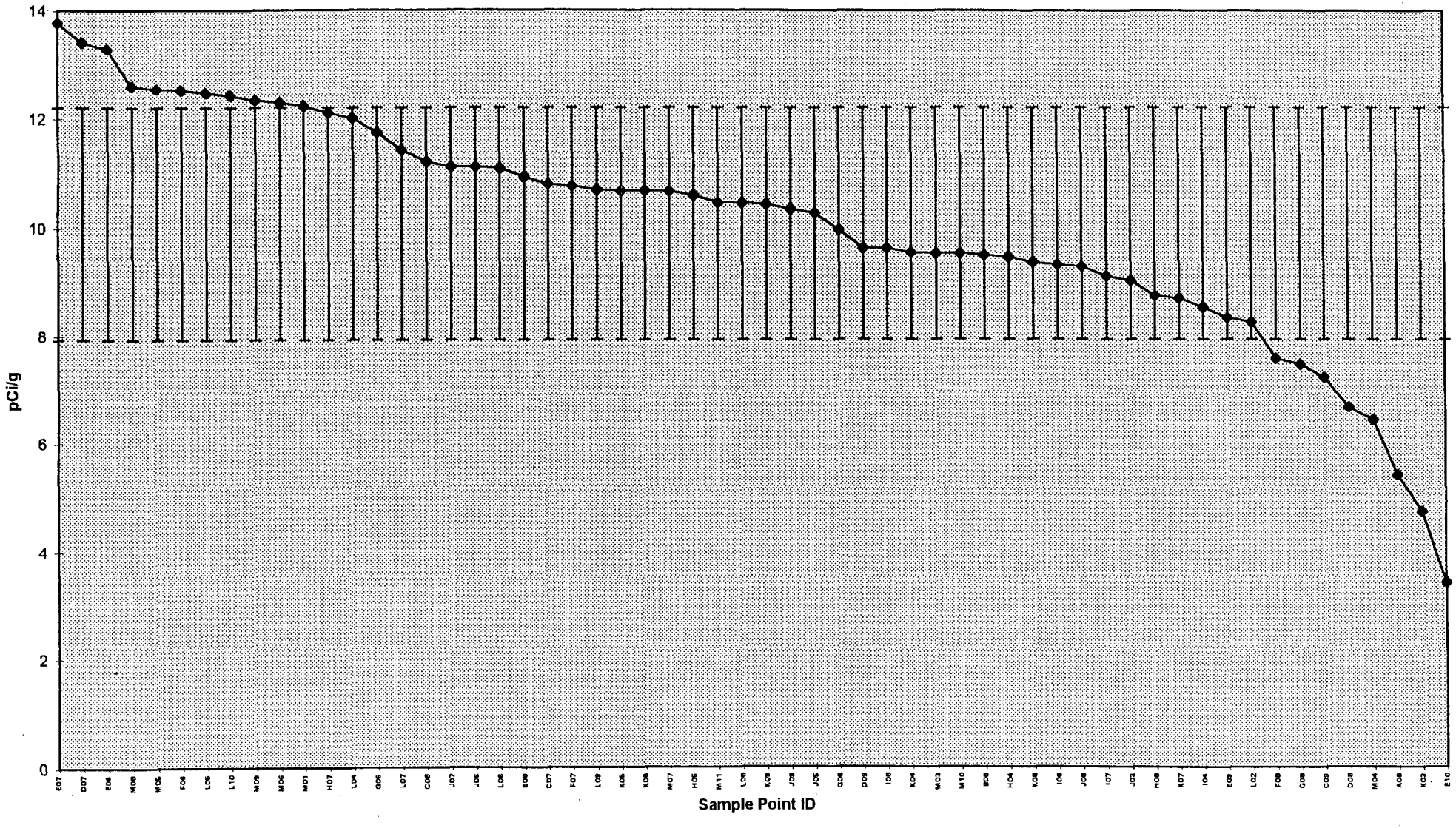
Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone J



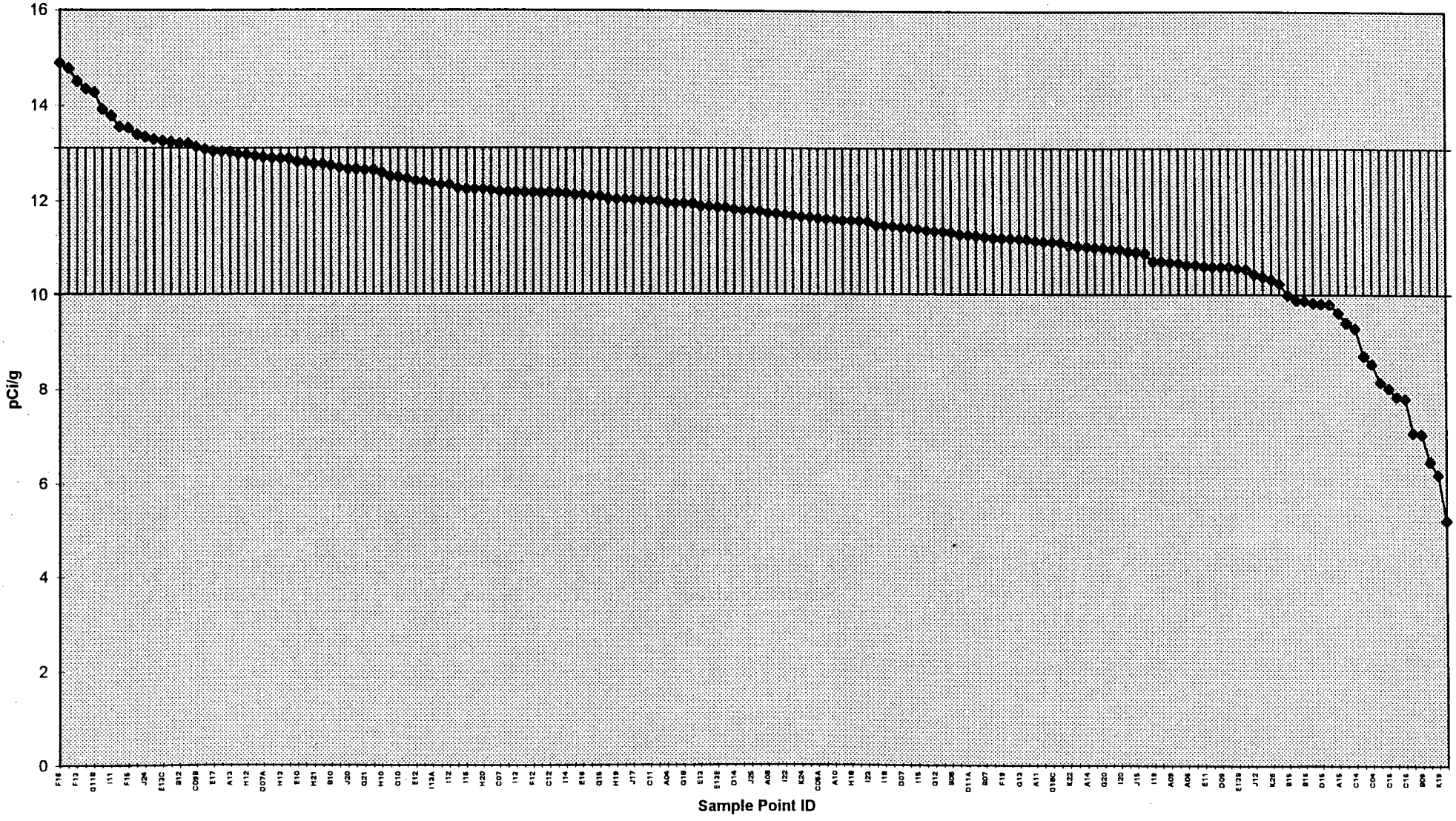
Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone K



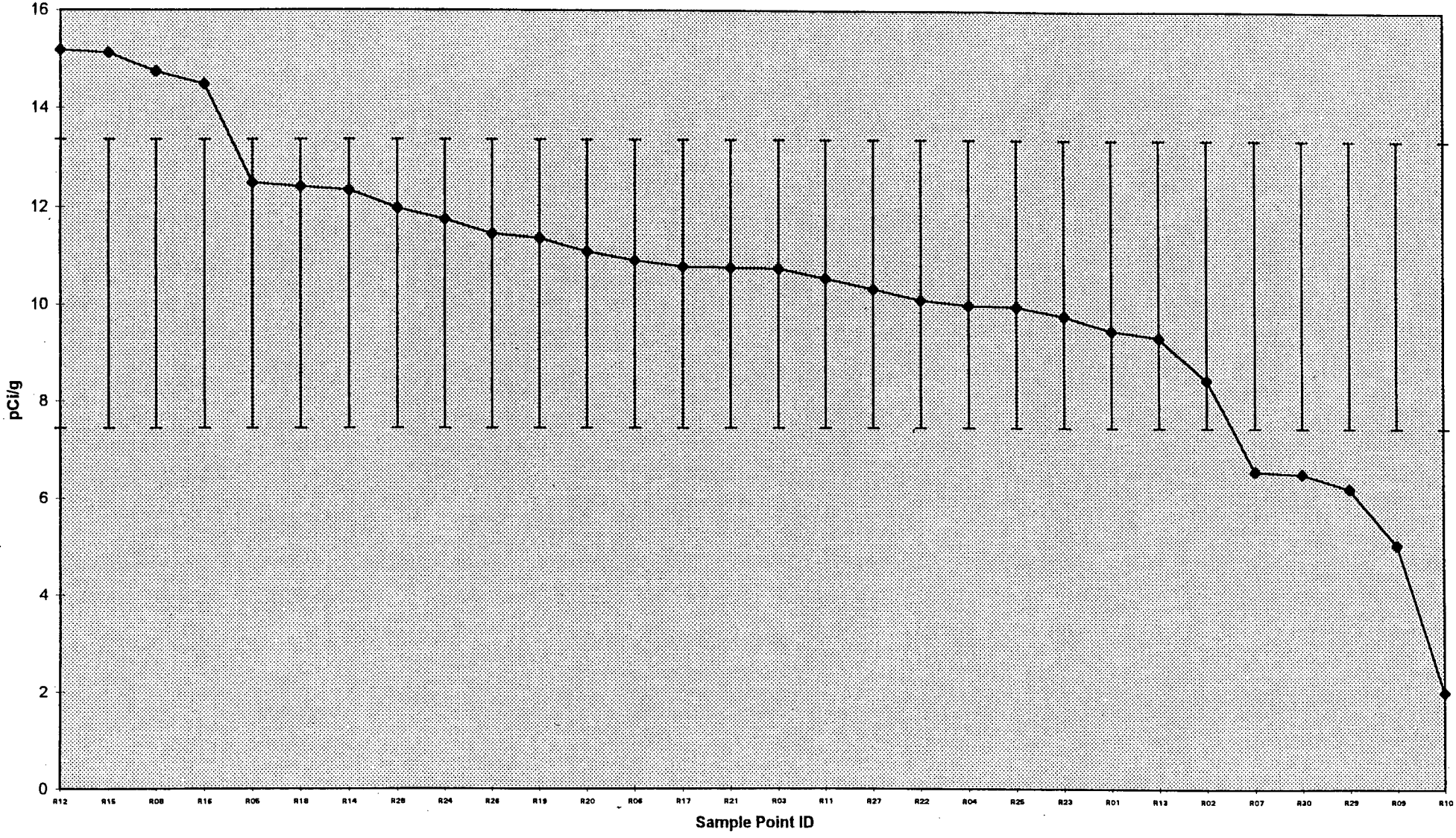
Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone L



Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone M



Soil Gross Gamma Results (1 Sigma)
Zone 2 SubZone N



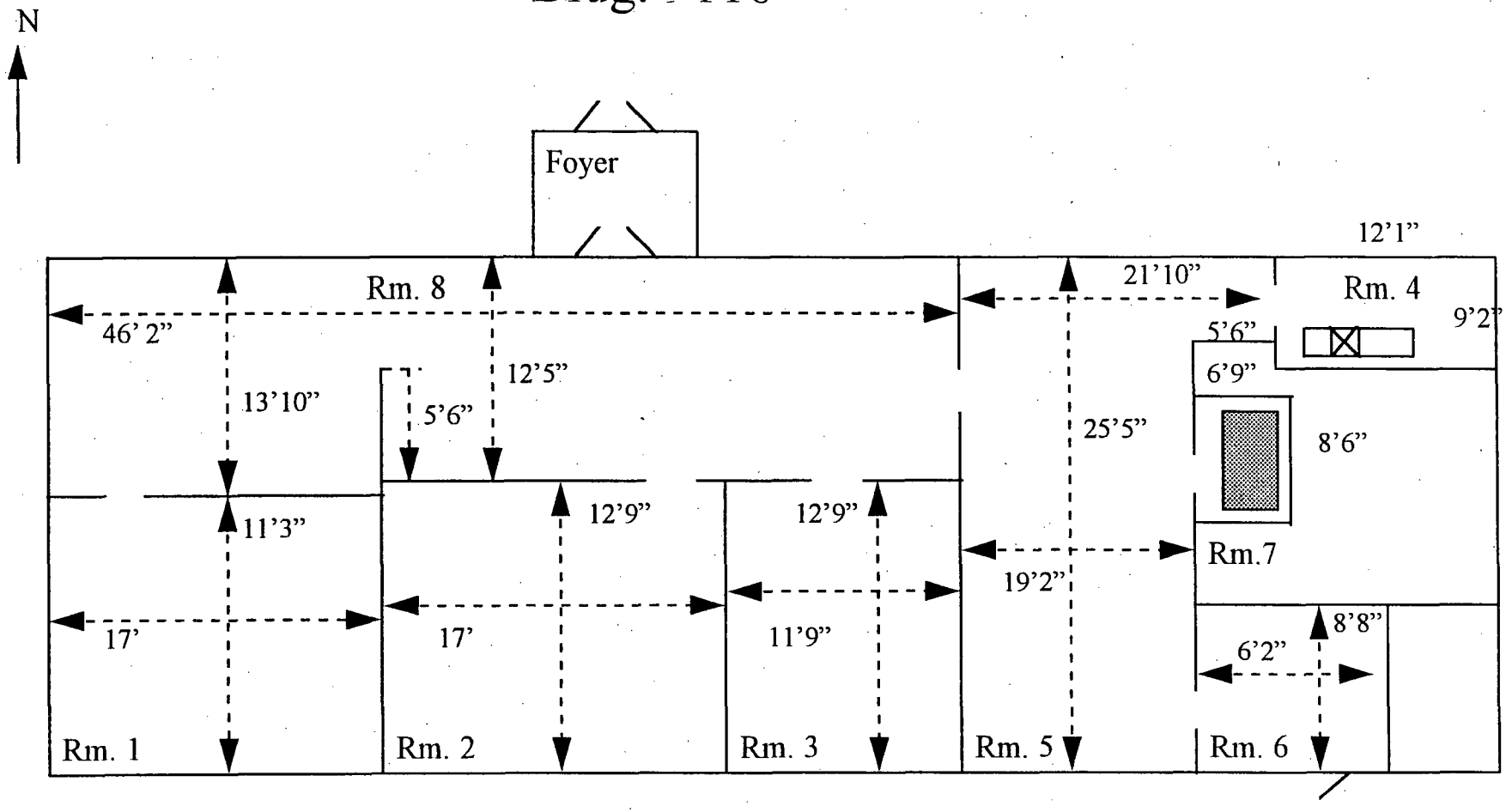
APPENDIX F

DIANA Project Site, zone 3 sub-zone East
SURVEY MAPS
SURVEY DATA
SURVEY REPORTS
FIELD TECHNICAL DATA

Survey Maps and Data.

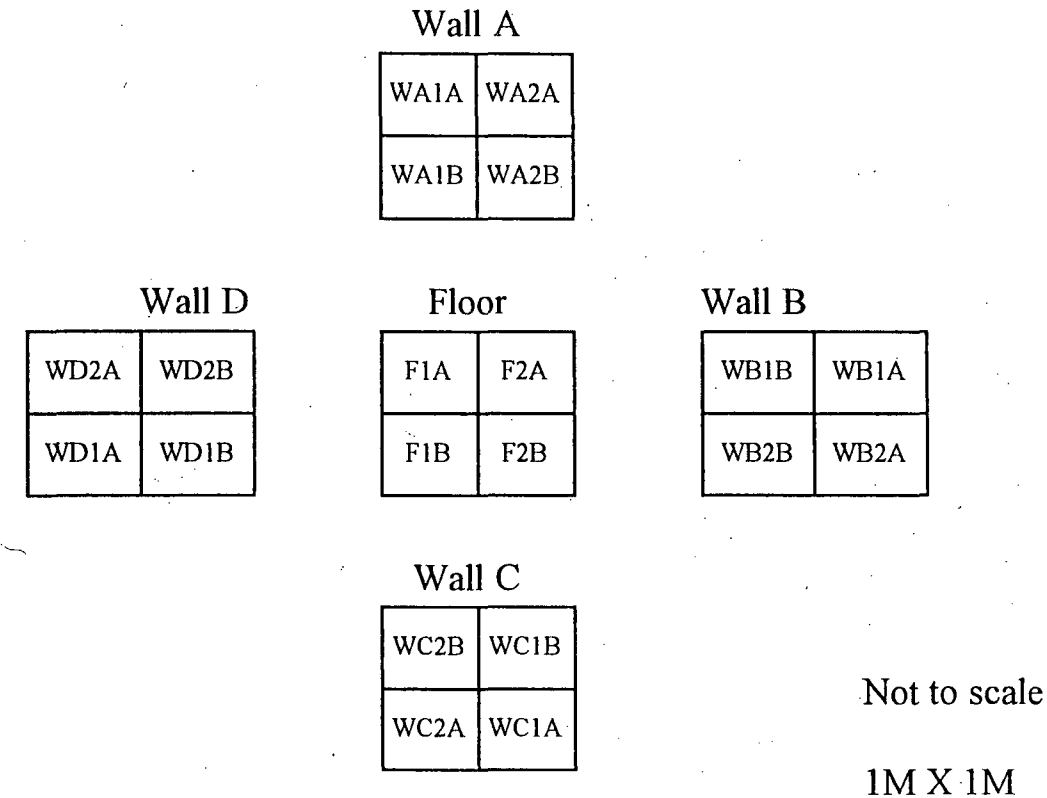
A. Building 9116, Rooms 1 through 8, affected
B. Building 9162, unaffected
C. Building 9600, unaffected
D. Soil Samples, unaffected

Bldg. 9116



Not to scale

Bldg. 9116
Foyer



Not to scale

1M X 1M

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: FOYER

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
F1A - R01	GATES	13-Jan-98	00914	179	13 dpm/100cm² (5 cpm)	35	37.35	1345 dpm/100cm² (226 cpm)	432	16.80		100 cm²
F1A - R01	GATES	13-Jan-98	00926	723412							2.93	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: FOYER

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
F1A - R01	26-Jan-98	0.354 dpm/100cm² (0.100 cpm)	2.300	28.3	2.144 dpm/100cm² (0.967 cpm)	3.222	45.1	
F1A - R01	27-Jan-98							14.80

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: FOYER

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

	GAMMA	ALPHA		BETA		LSC
Grids	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F1A	0.84	-0.354	10.7	4.733	142.9	-9.93
F2A	0.35	0.354	5.4	2.071	41.7	-8.07
F1B	0.54	-0.354	8.0	2.736	-35.7	-8.03
F2B	0.71	0.354	2.7	2.292	178.6	-9.72
WA1A	0.41	0.000	10.7	1.405	-154.8	-1.79
WA2A	0.23	-0.354	2.7	0.296	17.9	-3.56
WA1B	1.18	-0.354	8.0	0.074	-47.6	-8.33
WA2B	0.64	0.000	16.1	1.849	-6.0	-9.33
WB1A	1.28	-0.354	-2.7	1.627	148.8	5.75
WB2A	0.25	-0.354	13.4	0.961	71.4	0.43
WB1B	0.70	0.000	16.1	1.627	6.0	-3.89
WB2B	0.50	0.000	10.7	0.296	190.5	-5.29
WC1A	1.08	-0.354	5.4	0.961	11.9	-6.17
WC2A	1.21	-0.354	16.1	1.405	-11.9	-2.21
WC1B	0.73	-0.354	2.7	0.296	-17.9	-8.48
WC2B	1.16	0.354	10.7	0.961	-125.0	-0.88
WD1A	1.13	0.000	13.4	3.180	202.4	-3.11
WD2A	0.19	-0.354	13.4	3.623	142.9	-6.49

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WD1B	0.89	-0.354	10.7	0.739	232.1	-6.91
WD2B	-0.05	-0.354	16.1	1.405	214.3	-8.26
R01	0.69	0.354	13.4	0.961	458.3	-0.44

Bldg.9116
Rm. 1

Wall A

	WA1A	WA2A	WA3A	WA4A	WA5A
	WA1B	WA2B	WA3B	WA4B	WA5B

Wall D

WD4A	WD4B
WD3A	WD3B
WD2A	WD2B
WD1A	WD1B

Floor

F1A	F2A	F3A	F4A	F5A
F1B	F2B	F3B	F4B	F5B
F1C	F2C	F3C	F4C	F5C
F1D	F2D	F3D	F4D	F5D

Wall B

WB1B	WB1A
WB2B	WB2A
WB3B	WB3A
WB4B	WB4A

Wall C

WC5B	WC4B	WC3B	WC2B	WC1B
WC5A	WC4A	WC3A	WC2A	WC1A

Random 1: Located above WA3A

: Shows open doorway no door

Not to scale

1M X 1M

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 1

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA			BETA			GAMMA	PROBE AREA
					BKG (dpm/100cm²)	MDA (dpm/100cm²)	EFF. %	BKG (dpm/100cm²)	MDA (dpm/100cm²)	EFF. %	BKG (µR/hr)	
F1A - R01	EAVES	30-Dec-97	133663	136345	3 dpm/100cm² (1 cpm)	17	36.46	882 dpm/100cm² (160 cpm)	266	18.14		100 cm²
F1A - R01	EAVES	30-Dec-97	00926	723416							3.29	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 1

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
F1A - R01	15-Jan-98	0.118 dpm/100cm² (0.033 cpm)	1.727	28.4	2.447 dpm/100cm² (1.100 cpm)	3.406	44.9	
F1A - R01	14-Jan-98							12.60

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 1

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F1A	2.04	0.940	0.0	1.557	308.7	1.18
F2A	1.28	0.235	11.0	2.225	270.1	-8.15
F3A	1.85	0.588	0.0	2.447	253.6	0.00
F4A	0.28	0.940	2.7	2.225	380.4	-3.52
F5A	1.24	0.940	5.5	3.337	215.0	5.56
F1B	2.49	0.588	11.0	0.222	248.1	-5.64
F2B	1.05	0.588	2.7	1.780	402.4	1.33
F3B	1.59	0.235	2.7	1.112	165.4	-15.45
F4B	1.58	0.235	8.2	1.557	231.5	-2.64
F5B	0.75	-0.118	5.5	-0.667	297.7	-1.26
F1C	2.18	0.940	0.0	0.000	237.0	-15.28
F2C	1.17	0.588	-2.7	1.335	336.3	-5.04
F3C	1.09	0.235	0.0	1.780	325.2	-3.91
F4C	1.25	0.940	19.2	2.002	341.8	-0.64
F5C	1.37	0.235	0.0	1.335	231.5	-10.74
F1D	2.64	0.588	2.7	1.335	237.0	-7.15
F2D	1.48	0.940	8.2	1.112	204.0	1.26
F3D	1.10	0.235	2.7	0.890	226.0	3.68

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F4D	1.64	0.235	2.7	0.000	215.0	1.26
F5D	1.13	1.293	-2.7	-0.222	231.5	-3.11
WA1A	1.10	0.588	0.0	2.002	248.1	0.56
WA2A	1.78	0.588	0.0	2.670	110.3	1.09
WA3A	1.67	-0.118	0.0	1.780	33.1	-0.56
WA4A	1.31	-0.118	5.5	1.335	44.1	-5.34
WA5A	0.66	0.235	-2.7	-0.667	71.7	-2.15
WA1B	1.55	1.293	11.0	0.222	77.2	-9.03
WA2B	1.75	0.235	0.0	0.445	93.7	-1.60
WA3B	0.80	0.588	5.5	1.112	104.7	5.92
WA4B	0.69	0.235	2.7	0.667	170.9	1.36
WA5B	1.43	-0.118	-2.7	-0.222	38.6	8.94
WB1A	0.81	0.588	5.5	0.000	159.9	7.24
WB2A	0.83	0.235	5.5	1.335	181.9	-5.54
WB3A	0.37	-0.118	5.5	1.335	33.1	0.00
WB4A	0.62	0.588	5.5	0.667	159.9	-2.22
WB1B	1.10	0.235	2.7	-0.222	242.6	3.69
WB2B	0.99	0.235	2.7	0.667	121.3	9.82
WB3B	0.77	1.645	11.0	1.780	66.2	3.11
WB4B	0.79	0.940	8.2	2.225	192.9	3.96
WC1A	1.22	0.588	8.2	1.112	82.7	4.43
WC2A	1.58	-0.118	2.7	0.890	44.1	3.54
WC3A	2.21	0.235	2.7	1.112	121.3	0.44
WC4A	1.38	-0.118	5.5	0.222	82.7	3.29

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WC5A	2.37	0.235	2.7	2.892	181.9	3.86
WC1B	1.50	0.588	-2.7	0.890	5.5	1.75
WC2B	1.38	1.645	5.5	-0.667	143.3	5.77
WC3B	1.27	1.293	2.7	0.890	154.4	9.70
WC4B	2.02	-0.118	0.0	2.670	38.6	13.25
WC5B	0.94	-0.118	5.5	0.667	137.8	-4.00
WD1A	0.90	0.588	11.0	1.335	700.1	9.34
WD2A	1.91	0.235	11.0	1.557	490.6	4.01
WD3A	2.19	-0.118	2.7	0.445	347.3	9.18
WD4A	2.41	0.940	8.2	0.890	187.4	5.80
WD1B	1.12	0.940	0.0	1.780	209.5	-5.33
WD2B	0.68	0.588	5.5	-0.222	281.1	-3.54
WD3B	1.47	0.235	5.5	1.780	237.0	8.41
WD4B	1.41	0.588	8.2	2.447	192.9	4.86
R01	0.86	0.235	11.0	0.890	159.9	2.26

Bldg. 9116
Rm. 2

Wall A

WA1A	WA2A	WA3A	WA4A	WA5A	
WA1B	WA2B	WA3B	WA4B	WA5B	

Wall D

WD4A	WD4B
WD3A	WD3B
WD2A	WD2B
WD1A	WD1B

Floor

F1A	F2A	F3A	F4A	F5A
F1B	F2B	F3B	F4B	F5B
F1C	F2C	F3C	F4C	F5C
F1D	F2D	F3D	F4D	F5D

Wall B

WB1B	WB1A
WB2B	WB2A
WB3B	WB3A
WB4B	WB4A

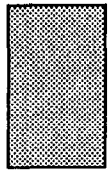
Wall C

WC5B	WC4B	WC3B	WC2B	WC1B
WC5A	WC4A	WC3A	WC2A	WC1A

Random 1: located on vent above WA3A
Random 2: located on vent in F1D

Not to scale

1M X 1M



Shows open doorway no door

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 2

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG (dpm/100cm²)	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG (dpm/100cm²)	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
F1A - F5D	GATES	30-Dec-97	133661	139658	3 dpm/100cm² (1 cpm)	17	36.93	1054 dpm/100cm² (185 cpm)	294	17.55		100 cm²
WA1A - R02	GATES	30-Dec-97	133661	139658	8 dpm/100cm² (3 cpm)	24	36.93	946 dpm/100cm² (166 cpm)	280	17.55		100 cm²
F1A - R02	GATES	30-Dec-97	00926	723416							3.62	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 2

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
F1A - R02	16-Jan-98	0.233 dpm/100cm² (0.067 cpm)	2.029	28.6	2.377 dpm/100cm² (1.067 cpm)	3.370	44.9	
F1A - R02	15-Jan-98							13.40

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 2

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

	GAMMA	ALPHA		BETA		LSC
Grids	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F1A	0.82	0.466	5.4	0.520	188.0	10.75
F2A	0.19	-0.233	2.7	-0.149	-136.8	0.00
F3A	0.83	0.466	2.7	1.189	-17.1	-1.54
F4A	0.22	0.815	13.5	0.520	62.7	1.50
F5A	0.22	-0.233	-2.7	-0.371	131.1	-10.57
F1B	0.62	-0.233	5.4	1.412	-11.4	1.01
F2B	0.84	0.116	-2.7	2.080	114.0	0.51
F3B	0.41	-0.233	-2.7	2.080	22.8	2.87
F4B	0.56	1.165	0.0	0.966	-142.5	0.96
F5B	1.15	-0.233	10.8	0.743	-119.7	-7.94
F1C	-0.34	-0.233	2.7	2.303	-51.3	-1.02
F2C	1.38	0.466	0.0	1.857	-5.7	0.00
F3C	0.54	0.116	0.0	1.857	28.5	-1.96
F4C	0.13	-0.233	2.7	1.189	-205.1	-0.50
F5C	-0.07	0.116	-2.7	0.520	102.6	-1.51
F1D	0.27	-0.233	2.7	1.857	-51.3	-2.57
F2D	-0.25	-0.233	0.0	1.634	45.6	-0.50
F3D	0.96	-0.233	5.4	0.743	136.8	-9.18

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F4D	1.05	0.116	0.0	1.857	28.5	-4.33
F5D	0.03	0.466	2.7	1.412	-5.7	5.59
WA1A	0.21	0.466	-5.4	1.857	22.8	2.27
WA2A	0.51	0.466	0.0	0.743	11.4	2.26
WA3A	0.69	0.815	8.1	2.080	-57.0	6.69
WA4A	0.08	0.815	-5.4	1.189	17.1	8.05
WA5A	-0.45	0.815	-2.7	1.634	-57.0	-2.25
WA1B	0.40	0.466	0.0	0.966	28.5	4.42
WA2B	-0.33	0.116	0.0	2.303	-136.8	-6.29
WA3B	0.64	0.116	-5.4	2.303	-74.1	12.08
WA4B	0.32	-0.233	-2.7	1.189	-131.1	7.53
WA5B	1.12	0.815	-2.7	1.634	-45.6	1.32
WB1A	0.83	-0.233	0.0	1.412	-57.0	3.18
WB2A	0.89	0.116	-2.7	1.189	-85.5	0.00
WB3A	0.15	0.466	-8.1	0.743	74.1	0.45
WB4A	0.40	0.116	-8.1	1.189	45.6	4.04
WB1B	0.50	-0.233	8.1	2.526	-57.0	3.59
WB2B	0.15	0.116	-5.4	0.743	-17.1	1.78
WB3B	0.65	-0.233	0.0	1.189	74.1	2.21
WB4B	0.85	0.815	2.7	0.743	136.8	-1.34
WC1A	0.74	0.116	5.4	2.526	85.5	2.20
WC2A	0.75	0.116	-8.1	2.080	34.2	4.90
WC3A	0.40	-0.233	5.4	3.195	-79.8	0.00
WC4A	1.16	0.116	-5.4	3.417	136.8	3.61

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WC5A	0.91	-0.233	-5.4	1.189	-85.5	-5.06
WC1B	0.43	0.466	0.0	0.520	34.2	13.80
WC2B	1.59	0.116	-8.1	0.297	-182.3	0.90
WC3B	0.48	0.466	2.7	0.966	-62.7	0.45
WC4B	1.57	0.116	-2.7	0.520	-96.9	1.79
WC5B	0.61	0.116	-5.4	-0.149	34.2	4.50
WD1A	-0.06	-0.233	5.4	3.195	5.7	3.11
WD2A	-0.77	0.815	2.7	1.857	-45.6	-3.97
WD3A	0.89	0.116	0.0	1.412	0.0	2.71
WD4A	0.71	-0.233	-2.7	1.189	-51.3	-3.55
WD1B	0.03	0.466	2.7	2.526	153.8	0.89
WD2B	0.06	0.466	-5.4	0.966	-11.4	0.45
WD3B	1.09	0.116	0.0	1.189	-45.6	8.43
WD4B	0.96	0.116	-5.4	2.080	51.3	1.82
R01	-0.16	0.466	0.0	0.966	-136.8	10.40
R02	0.04	-0.233	16.2	0.520	376.1	-9.30

Bldg. 9116
Rm. 3

WAll A

WA1A			WA2A	WA3A	WA4A
WA1B			WA2B	WA3B	WA4B

Wall D

WD4A	WD4B
WD3A	WD3B
WD2A	WD2B
WD1A	WD1B

Floor

F1A	F2A	F3A	F4A
F1B	F2B	F3B	F4B
F1C	F2C	F3C	F4C
F1D	F2D	F3D	F4D

Wall B

WB1B	WB1A
WB2B	WB2A
WB3B	WB3A
WB4B	WB4A

Wall C

WC4B	WC3B	WC2B	WC1B
WC4A	WC3A	WC2A	WC1A

Random 1: Located above WA2A
Random 2: Located in F2D

Shows open doorway no door

Not to scale

1M X 1M

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 3

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
F1A - R02	EAVES	05-Jan-98	00916	200	18 dpm/100cm² (7 cpm)	38	38.87	1022 dpm/100cm² (190 cpm)	359	18.60		100 cm²
F1A - R02	EAVES	05-Jan-98	00926	723416							3.36	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION	ZONE: 3	SUBZONE: EAST	STATUS: AFFECTED
	BUILDING: 9116	ROOM: 3	

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
F1A - R02	17-Jan-98	0.717 dpm/100cm² (0.200 cpm)	2.898	27.9	3.178 dpm/100cm² (1.400 cpm)	3.843	44.1	
F1A - R02	16-Jan-98							15.80

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 3

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F1A	0.20	0.717	-12.9	1.135	258.1	-1.96
F2A	0.23	0.717	2.6	1.135	430.1	-9.33
F3A	-0.22	0.717	0.0	-0.227	344.1	-5.83
F4A	0.12	0.000	-10.3	1.362	354.8	-4.65
F1B	-0.17	-0.717	-7.7	2.497	500.0	-3.87
F2B	-0.21	0.359	-7.7	0.681	344.1	-13.13
F3B	-0.33	0.359	0.0	0.908	118.3	2.45
F4B	0.58	-0.359	-10.3	0.454	284.9	-5.17
F1C	-0.12	-0.359	5.1	0.681	241.9	-0.48
F2C	0.91	0.717	-2.6	-0.681	204.3	-10.85
F3C	0.10	0.000	-7.7	2.724	301.1	-4.14
F4C	0.50	0.000	-7.7	0.227	274.2	2.93
F1D	0.54	0.000	-5.1	1.135	354.8	-3.75
F2D	0.77	0.359	-2.6	0.000	376.3	-10.93
F3D	-0.14	0.000	-2.6	0.227	215.1	-8.09
F4D	0.32	-0.717	12.9	0.908	328.0	-9.31
WA1A	-0.21	-0.717	-7.7	0.227	166.7	-6.18
WA2A	0.02	-0.359	7.7	2.043	64.5	-7.37

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WA3A	-0.01	0.000	2.6	-1.135	59.1	-4.85
WA4A	0.83	0.000	0.0	0.227	123.7	-5.66
WA1B	0.39	-0.359	12.9	0.227	274.2	0.44
WA2B	-0.37	-0.359	5.1	0.454	53.8	0.44
WA3B	0.14	-0.359	0.0	1.135	91.4	-11.11
WA4B	0.83	-0.359	-2.6	-0.908	75.3	-3.05
WB1A	-0.27	0.717	-2.6	-0.908	75.3	6.69
WB2A	0.06	0.000	5.1	-1.135	150.5	0.87
WB3A	0.56	-0.359	5.1	-1.135	155.9	6.91
WB4A	1.11	-0.359	2.6	0.227	225.8	-3.01
WB1B	0.31	0.717	0.0	1.589	155.9	0.44
WB2B	-0.02	0.359	2.6	0.227	247.3	-2.95
WB3B	0.64	0.000	-7.7	-1.589	150.5	1.75
WB4B	0.19	-0.717	7.7	2.043	139.8	0.00
WC1A	0.58	0.717	7.7	0.681	102.2	-3.61
WC2A	0.42	-0.359	10.3	1.589	107.5	-2.22
WC3A	0.70	-0.359	-2.6	-0.681	322.6	0.43
WC4A	0.44	-0.359	0.0	0.227	134.4	1.34
WC1B	0.15	-0.359	5.1	2.043	107.5	0.44
WC2B	-0.04	-0.717	-2.6	-0.454	408.6	0.87
WC3B	0.80	-0.717	-5.1	1.135	80.6	-5.65
WC4B	0.85	0.000	-2.6	0.227	182.8	3.41
WD1A	-0.18	0.000	5.1	0.681	231.2	-4.41
WD2A	0.48	0.359	-7.7	0.227	177.4	-3.06

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WD3A	0.46	0.000	2.6	-0.454	129.0	-5.70
WD4A	0.15	0.000	18.0	1.589	107.5	3.55
WD1B	0.52	-0.717	2.6	-0.908	134.4	-3.10
WD2B	0.15	-0.359	7.7	-0.227	86.0	-5.62
WD3B	0.12	-0.359	-5.1	-0.227	236.6	5.05
WD4B	0.12	0.359	-5.1	1.589	274.2	1.30
R01	0.09	-0.359	10.3	0.000	134.4	-6.57
R02	-0.02	-0.717	12.9	0.454	650.5	-0.90

Bldg. 9116
Rm. 4

Wall A

WA1A	WA2A	WA3A	WA 4A
WA1B	WA2B	WA3B	WA 4B

Wall D

WD3A	WD3B
WD2A	WD2B
WD1A	WD1B

Floor

F1A	F2A	F3A	F4A
F1B	F2B	F3B	F4B
F1C			F4C

Wall B

WB1B	WB1A
WB2B	WB2A
WB3B	WB3A

Not to scale

1M X 1M

Inaccessible

Wall C

WC 4B	WC3B	WC2B	WC1B
WC 4A	WC3A	WC2A	WC1A

R01: On first shelf WC1A
R02: On 2nd shelf WC2A
R03: On 3rd shelf WC2A
R04: On 4th shelf WC1A
R05: On 1st shelf WC2A
R06: On 2nd shelf WC2A
R07: On 3rd shelf WC4B
R08: On loose shelf
R09: On shelf under sink
R10: On shelf in lower cabinet
R11: On right side of upper shelves
R12: On right side of lower cabinet
R13: On left side of upper cabinet
R14: On left side of lower cabinet
R15: In bottom drawer
R16: On left side inside lower cabinet shelf
R17: On right side inside lower cabinet shelf
R18: In sink
R19: On top of cabinet to the right of the sink

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 4

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
F1A - R19	GATES	05-Jan-98	00951	578	8 dpm/100cm² (3 cpm)	29	37.11	1327 dpm/100cm² (203 cpm)	450	15.30		100 cm²
F1A - R19	GATES	05-Jan-98	00926	723416							3.42	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 4

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
F1A - R19	20-Jan-98	0.352 dpm/100cm² (0.100 cpm)	2.288	28.4	2.146 dpm/100cm² (0.967 cpm)	3.223	45.1	
F1A - R19	20-Jan-98							14.30

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 4

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F1A	0.84	0.352	0.0	2.294	169.9	-3.52
F2A	1.03	0.352	0.0	0.740	209.2	-13.60
F3A	-0.12	0.703	2.7	2.294	307.2	-10.21
F4A	-0.21	1.055	10.8	2.737	189.5	-7.76
F1B	0.11	0.352	18.9	2.515	366.0	-8.15
F2B	0.13	0.000	5.4	1.628	346.4	1.25
F3B	0.16	0.703	5.4	0.962	764.7	8.63
F4B	0.91	-0.352	2.7	0.962	424.8	-7.68
F1C	0.93	-0.352	5.4	0.740	261.4	-4.43
F4C	1.46	-0.352	2.7	1.184	333.3	1.84
WA1A	1.14	-0.352	8.1	3.181	183.0	8.17
WA2A	0.71	0.352	16.2	2.294	-26.1	6.01
WA3A	1.20	0.000	10.8	2.072	-65.4	-3.32
WA4A	0.77	1.407	8.1	0.074	117.6	8.24
WA1B	0.56	-0.352	10.8	2.515	-85.0	0.23
WA2B	0.12	-0.352	5.4	1.184	-137.3	-1.11
WA3B	0.37	0.352	8.1	1.850	-85.0	-1.10
WA4B	1.56	-0.352	10.8	2.294	-32.7	2.43

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WB1A	-0.55	0.000	-2.7	0.962	39.2	-0.22
WB2A	0.09	0.000	13.5	1.184	-176.5	-5.23
WB3A	-0.25	0.703	2.7	1.184	-91.5	-2.88
WB1B	0.68	-0.352	18.9	0.296	-39.2	-6.00
WB2B	-0.08	-0.352	5.4	1.628	-52.3	9.54
WB3B	-0.25	-0.352	8.1	2.072	-26.1	-0.67
WC1A	-0.29	-0.352	8.1	0.740	58.8	5.14
WC2A	0.15	-0.352	-2.7	3.403	-45.8	-2.89
WC3A	1.04	-0.352	10.8	0.518	-183.0	-6.87
WC4A	1.34	0.000	5.4	1.406	-143.8	9.70
WC1B	0.66	0.703	10.8	-0.148	-130.7	6.38
WC2B	-0.05	0.000	5.4	0.518	-19.6	-6.23
WC3B	0.85	-0.352	10.8	2.072	71.9	2.06
WC4B	1.07	0.000	0.0	0.962	-228.8	-0.23
WD1A	-0.09	0.352	10.8	1.628	-39.2	-4.64
WD2A	1.40	-0.352	13.5	2.737	-26.1	0.66
WD3A	0.37	1.055	13.5	1.628	-78.4	-5.92
WD1B	-0.15	0.000	2.7	0.518	143.8	-3.29
WD2B	-0.01	0.000	10.8	1.850	-104.6	5.12
WD3B	0.37	0.000	2.7	2.072	-6.5	0.22
R01	0.27	0.000	5.4	1.628	261.4	2.93
R02	0.65	2.110	0.0	1.406	150.3	-2.56
R03	1.08	1.055	0.0	1.628	189.5	-3.07
R04	0.78	0.000	8.1	1.406	143.8	-4.01

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R05	0.40	0.000	-2.7	1.184	235.3	3.51
R06	0.89	-0.352	2.7	0.962	274.5	-2.36
R07	0.32	-0.352	2.7	0.518	98.0	-0.75
R08	0.38	0.000	16.2	3.847	222.2	0.24
R09	0.16	0.352	0.0	-0.370	451.0	-3.57
R10	-0.47	0.000	5.4	2.294	-6.5	0.24
R11	0.73	0.703	8.1	1.184	-13.1	4.71
R12	0.66	0.703	5.4	2.294	-85.0	0.23
R13	0.29	0.000	5.4	1.628	-91.5	1.60
R14	0.03	-0.352	8.1	1.850	-137.3	0.23
R15	0.68	0.000	5.4	1.628	222.2	-2.67
R16	0.55	-0.352	0.0	1.184	-150.3	4.82
R17	0.49	0.000	-8.1	1.184	-91.5	-1.14
R18	0.68	-0.352	13.5	1.406	-19.6	-1.94
R19	0.07	0.000	10.8	0.296	176.5	-3.97

Bldg. 9116
Rm. 5



Wall A

WA1A	WA2A	WA3A	WA4A	WA5A	WA6A	WA7A
WA1B	WA2B	WA3B	WA4B	WA5B	WA6B	WA7B

Wall B

WB1A	WB2A
WB1B	WB2B

Wall C

WC2B	WC1B
WC2A	WC1A

Wall D

WD1B	WD1A
WD2B	WD2A
WD3B	WD3A
WD4B	WD4A
WD5B	WD5A
WD6B	WD6A

Wall F

WF8A	WF8B
WF7A	WF7B
WF6A	WF6B
WF4A	WF4B
WF3A	WF3B
WF2A	WF2B
WF1A	WF1B

Floor

	A					B
F1A	F2A	F3A	F4A	F5A	F6A	F7A
F1B	F2B	F3B	F4B	F5B	F6B	F7B
F1C	F2C	F3C	F4C	F5C	C	
F1D	F2D	F3D	F4D	F5D		
F1E	F2E	F3E	F4E	F5E	D	
F1F	F2F	F3F	F4F	F5F		
F1G	F2G	F3G	F4G	F5G		
F1H	F2H	F3H	F4H	F5H		

F

E

Wall E

WE5B	WE4B	WE3B	WE2B	WE1B
WE5A	WE4A	WE3A	WE2A	WE1A

Doorway no door

1M X 1M

Not to scale

BLDG. 9116
RM.5 Random Locations

Locations are all on the 3 shelf wide unit
R01: Top shelf far left hand side
R02: 2nd shelf down left side
R03: 3rd shelf down left side
R04: 4th shelf down left side
R05: 5th shelf down left side
R06: 6th shelf down left side
R07: Top shelf middle section
R08: 2nd shelf down middle section
R09: 3rd shelf down middle section
R10: 4th shelf down middle section
R11: 5th shelf down middle section
R12: 6th shelf down middle section
R13: Top shelf right hand side
R14: 2nd shelf down right side
R15: 3rd shelf down right side
R16: 4th shelf down right side
R17: 5th shelf down right side
R18: 6th shelf down right side
Located on the double wide shelves
R19: Top shelf left side
R20: 2nd shelf down left side
R21: 3rd shelf down left side
R22: 4th shelf down left side
R23: 5th shelf down left side
R24: 6th shelf down left side
R25: Top shelf right side
R26: 2nd shelf down right side
R27: 3rd shelf down right side
R28: 4th shelf down right side
R29: 5th shelf down right side
R30: 6th shelf down right side
Located on the work table
R31: Left side from behind
R32: Right side from behind
Located on the work bench with drawers
R33: On top of the table
R34: 1st drawer from top
R35: 2nd drawer from top
R36: 3rd drawer from top
R37: Bottom drawer

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 5

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
F1A - WD6B	EAVES	07-Jan-98	00951	580	23 dpm/100cm² (8 cpm)	44	35.54	1119 dpm/100cm² (184 cpm)	400	16.45		100 cm²
WE1A - R37	EAVES	08-Jan-98	00916	578	16 dpm/100cm² (6 cpm)	38	37.11	1216 dpm/100cm² (186 cpm)	432	15.30		100 cm²
F1A - F5H	EAVES	07-Jan-98	00926	723416							2.63	N/A
WA1A - R37	EAVES	07-Jan-98	00926	723416							2.63	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 5

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
F1A - F5H	21-Jan-98	1.082 dpm/100cm² (0.300 cpm)	3.349	27.7	2.643 dpm/100cm² (1.167 cpm)	3.554	44.1	
WA1A - R37	22-Jan-98	0.839 dpm/100cm² (0.233 cpm)	3.061	27.8	3.404 dpm/100cm² (1.500 cpm)	3.955	44.1	
F1A - F5H	21-Jan-98							14.00
WA1A - R37	22-Jan-98							16.30

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 5

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F1A	0.41	-0.361	-11.3	-0.378	358.7	-7.58
F2A	1.54	-1.082	0.0	1.208	455.9	-9.61
F3A	0.96	-0.721	-14.1	0.529	480.2	-11.04
F4A	1.18	-0.361	-16.9	0.529	395.1	-2.05
F5A	0.66	-0.361	-8.4	-0.604	522.8	1.05
F6A	0.27	-1.082	-11.3	2.567	455.9	-7.96
F7A	1.52	0.361	-16.9	-0.151	255.3	-2.34
F1B	1.33	-0.361	-14.1	1.208	103.3	-10.11
F2B	0.65	-0.361	-8.4	0.302	139.8	-3.66
F3B	0.86	0.000	-19.7	1.661	334.3	-8.42
F4B	1.07	-0.721	-19.7	1.888	164.1	0.00
F5B	0.78	-1.082	-11.3	0.755	425.5	-5.76
F6B	1.34	-0.721	-14.1	0.755	383.0	1.58
F7B	1.01	0.000	-14.1	1.435	346.5	-9.78
F1C	0.53	-0.721	-11.3	2.114	249.2	1.13
F2C	0.83	-1.082	0.0	-0.378	474.2	2.24
F3C	1.08	-0.361	-19.7	0.076	370.8	-6.25
F4C	1.60	-0.361	-11.3	1.435	419.5	0.00

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F5C	0.86	0.000	-8.4	-0.378	291.8	-4.81
F1D	1.77	-0.361	-19.7	-0.151	383.0	-10.58
F2D	1.61	-0.721	-5.6	0.755	194.5	-1.15
F3D	0.90	-0.361	-11.3	1.208	328.3	-3.30
F4D	0.76	-0.361	-8.4	2.114	285.7	-9.48
F5D	0.92	-0.721	0.0	0.302	352.6	-8.11
F1E	1.75	-0.361	-16.9	-0.151	401.2	-3.63
F2E	2.01	-0.721	-14.1	1.208	462.0	0.52
F3E	2.32	0.000	-11.3	0.529	200.6	-2.64
F4E	1.55	-0.721	-2.8	0.529	152.0	-2.65
F5E	1.30	-0.721	-16.9	0.529	316.1	-5.41
F1F	1.69	-1.082	-11.3	0.076	462.0	-6.69
F2F	1.54	-0.721	-8.4	-0.378	516.7	-6.78
F3F	1.48	0.000	0.0	1.208	127.7	-1.04
F4F	1.25	0.000	-11.3	-0.151	304.0	-7.92
F5F	1.63	0.361	-5.6	1.661	273.6	-10.63
F1G	1.82	0.000	-11.3	1.435	237.1	-8.21
F2G	1.34	0.361	-19.7	0.529	322.2	-6.88
F3G	0.50	-0.721	-8.4	0.529	480.2	-11.43
F4G	0.96	-1.082	-5.6	1.208	364.7	-2.59
F5G	1.50	-0.721	-11.3	0.529	212.8	-6.85
F1H	1.84	-1.082	-11.3	1.888	66.9	-3.97
F2H	1.29	0.000	-16.9	0.529	455.9	-1.54
F3H	1.72	-1.082	-19.7	0.302	164.1	-4.80

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F4H	0.85	-0.361	-11.3	0.302	462.0	-3.39
F5H	0.77	0.361	-14.1	0.982	328.3	-6.50
WA1A	1.27	0.240	-14.1	1.815	212.8	-5.37
WA2A	1.46	0.240	-8.4	3.404	60.8	-20.20
WA3A	0.67	0.240	-2.8	0.908	206.7	-2.54
WA4A	1.23	-0.120	-16.9	1.135	36.5	-5.75
WA5A	2.10	-0.120	-11.3	0.454	-18.2	-3.53
WA6A	0.98	-0.120	-2.8	0.227	-79.0	-8.16
WA7A	0.23	0.240	-8.4	0.227	60.8	-1.16
WA1B	0.24	-0.120	-14.1	-1.135	-36.5	-4.03
WA2B	1.05	-0.120	-14.1	0.681	54.7	-8.56
WA3B	1.29	-0.839	-5.6	0.454	152.0	-6.43
WA4B	0.58	-0.120	0.0	-1.588	18.2	-4.30
WA5B	0.11	-0.480	-5.6	0.908	-6.1	-8.87
WA6B	0.75	-0.120	-8.4	0.454	212.8	-10.65
WA7B	1.46	-0.120	-14.1	1.361	85.1	-9.44
WB1A	0.71	-0.120	-14.1	-2.042	36.5	-0.23
WB2A	1.23	-0.120	-14.1	0.000	-30.4	-8.90
WB1B	1.17	-0.480	-19.7	0.227	66.9	-10.18
WB2B	0.11	0.600	11.3	1.135	103.3	-2.03
WC1A	1.03	-0.120	-11.3	0.908	54.7	-3.39
WC2A	1.17	-0.120	-8.4	0.454	121.6	-7.56
WC1B	1.71	-0.120	-11.3	0.681	176.3	-12.11
WC2B	0.72	-0.839	-11.3	-0.227	182.4	-9.99

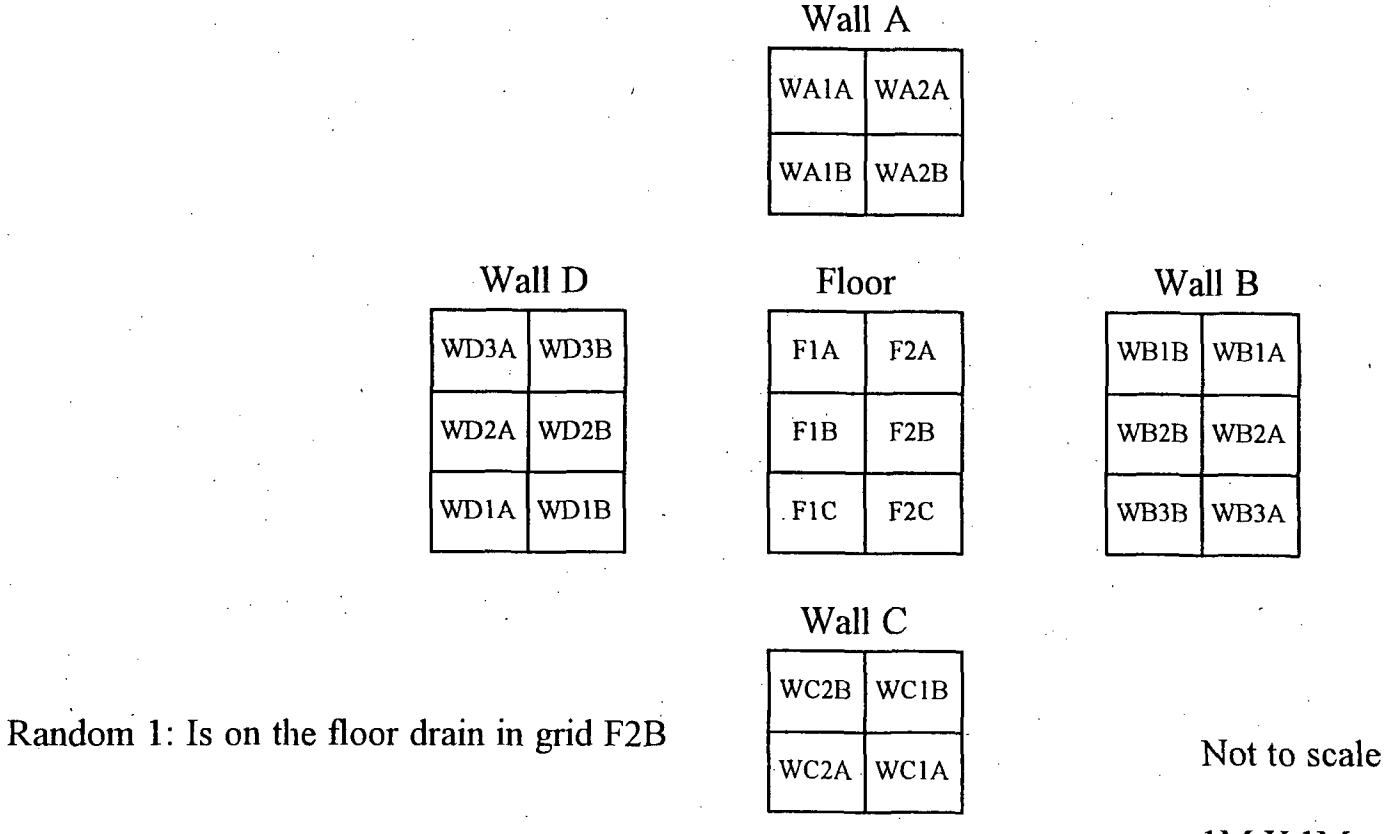
Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WD1A	0.74	-0.120	-2.8	2.269	85.1	-5.63
WD2A	1.34	-0.839	0.0	0.908	85.1	-9.00
WD3A	1.67	0.600	-19.7	0.681	145.9	-0.23
WD4A	0.83	0.240	-8.4	-0.227	237.1	-8.75
WD5A	1.33	-0.480	-5.6	0.454	-54.7	-4.76
WD6A	0.72	-0.480	-16.9	0.454	-103.3	-2.07
WD1B	2.11	-0.120	-14.1	0.000	24.3	-3.49
WD2B	0.98	-0.120	-2.8	-0.454	-18.2	-4.35
WD3B	0.63	1.319	-8.4	-1.135	145.9	-3.36
WD4B	1.08	-0.839	-5.6	2.496	127.7	-7.87
WD5B	1.24	0.240	-14.1	-0.681	121.6	-2.04
WD6B	1.23	-0.120	-14.1	0.227	-6.1	-9.23
WE1A	1.09	-0.839	-2.7	-1.135	150.3	-10.18
WE2A	0.78	-0.480	-13.5	-0.227	189.5	-4.70
WE3A	1.88	-0.480	-8.1	-0.908	300.7	-10.52
WE4A	1.96	-0.120	10.8	-0.454	169.9	-2.96
WE5A	1.33	-0.480	-5.4	0.908	176.5	-7.49
WE1B	2.11	0.600	-2.7	0.227	71.9	-7.62
WE2B	1.36	-0.839	0.0	2.042	78.4	-4.74
WE3B	1.09	0.959	-5.4	-0.908	-26.1	-7.36
WE4B	1.51	-0.480	-8.1	-0.908	352.9	-2.90
WE5B	1.51	-0.120	8.1	-0.908	209.2	-11.68
WF1A	1.08	-0.120	0.0	0.454	71.9	0.23
WF2A	1.69	-0.120	-2.7	-0.454	58.8	-8.23

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WF3A	1.70	0.240	-5.4	-0.227	65.4	-9.52
WF4A	1.54	-0.480	0.0	-1.135	32.7	-4.24
WF6A	1.09	-0.120	2.7	0.000	143.8	-5.61
WF7A	1.09	-0.120	-8.1	-0.908	78.4	-1.11
WF8A	1.42	0.240	-5.4	0.681	294.1	-4.66
WF1B	1.19	-0.120	2.7	2.496	359.5	-6.97
WF2B	1.27	-0.120	-8.1	0.000	26.1	-8.61
WF3B	1.73	0.240	-10.8	-0.908	26.1	-8.22
WF4B	1.10	-0.480	-8.1	-0.227	111.1	-6.45
WF6B	0.21	-0.839	-5.4	0.000	196.1	-2.42
WF7B	0.98	-0.839	0.0	0.000	85.0	-11.78
WF8B	1.00	-0.480	-8.1	1.135	457.5	-8.25
R01	1.47	-0.120	-5.4	-0.227	189.5	-6.90
R02	1.99	0.240	-10.8	0.227	241.8	-8.24
R03	2.13	0.600	-5.4	0.000	-6.5	-6.35
R04	0.89	-0.839	-8.1	1.361	222.2	-6.33
R05	1.86	-0.120	5.4	1.361	117.6	1.62
R06	0.56	-0.480	-8.1	-0.227	261.4	-16.96
R07	1.62	0.240	-8.1	-0.681	352.9	-9.02
R08	1.02	-0.120	-8.1	-0.227	241.8	-7.18
R09	1.05	-0.839	-10.8	-0.908	333.3	-13.46
R10	0.81	-0.120	-10.8	-0.454	372.5	-12.83
R11	0.66	0.240	2.7	0.227	451.0	-8.60
R12	1.11	-0.120	0.0	0.681	437.9	-6.10

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R13	1.54	-0.839	2.7	1.135	156.9	-9.40
R14	0.93	-0.480	5.4	1.135	248.4	-8.74
R15	1.39	-0.120	-8.1	0.454	268.0	-7.25
R16	0.99	-0.480	-5.4	1.361	196.1	-3.02
R17	0.97	0.240	-2.7	-0.454	320.3	-1.17
R18	1.09	0.600	-2.7	1.588	196.1	-14.65
R19	1.26	-0.839	-2.7	-0.908	169.9	-7.57
R20	1.01	0.959	-2.7	0.227	176.5	-8.82
R21	1.44	-0.120	-8.1	-0.454	254.9	-17.20
R22	1.47	-0.120	-10.8	0.000	313.7	-9.32
R23	0.82	0.240	-8.1	1.361	261.4	-14.79
R24	0.62	-0.480	-2.7	0.681	169.9	-8.58
R25	1.83	-0.839	-2.7	-1.135	366.0	-10.99
R26	1.21	-0.120	-13.5	0.227	183.0	-8.51
R27	1.81	-0.480	-2.7	0.227	176.5	-10.65
R28	1.92	-0.120	-8.1	0.908	209.2	-7.82
R29	1.61	-0.120	-8.1	0.681	398.7	-7.76
R30	1.27	-0.120	-10.8	0.454	346.4	-11.38
R31	1.10	-0.480	-5.4	-0.681	385.6	-8.53
R32	1.61	0.240	-8.1	0.227	418.3	-7.28
R33	0.94	-0.839	0.0	-0.227	202.6	-8.42
R34	0.97	-0.480	-5.4	0.681	228.8	-8.40
R35	0.99	0.959	-8.1	0.681	392.2	-9.04
R36	0.91	-0.120	-16.2	1.815	261.4	-17.11

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R37	0.69	-0.120	-13.5	0.681	300.7	-7.92

Bldg. 9116
Rm. 6



Random 1: Is on the floor drain in grid F2B

Not to scale

1M X 1M

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 6

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG (dpm/100cm²)	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG (dpm/100cm²)	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
F1A - F2C	GATES	06-Jan-98	00926	579	11 dpm/100cm² (4 cpm)	32	36.91	1789 dpm/100cm² (294 cpm)	502	16.43		100 cm²
WA1A - R01	GATES	06-Jan-98	00926	579	11 dpm/100cm² (4 cpm)	32	36.91	1187 dpm/100cm² (195 cpm)	411	16.43		100 cm²
F1A - R01	GATES	06-Jan-98	00926	723412							3.65	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION				
	ZONE: 3	SUBZONE: EAST	STATUS: AFFECTED	
	BUILDING: 9116	ROOM: 6		

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
F1A - R01	21-Jan-98	1.313 dpm/100cm² (0.367 cpm)	3.575	27.9	1.970 dpm/100cm² (0.867 cpm)	3.159	44.0	
F1A - R01	21-Jan-98							15.60

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

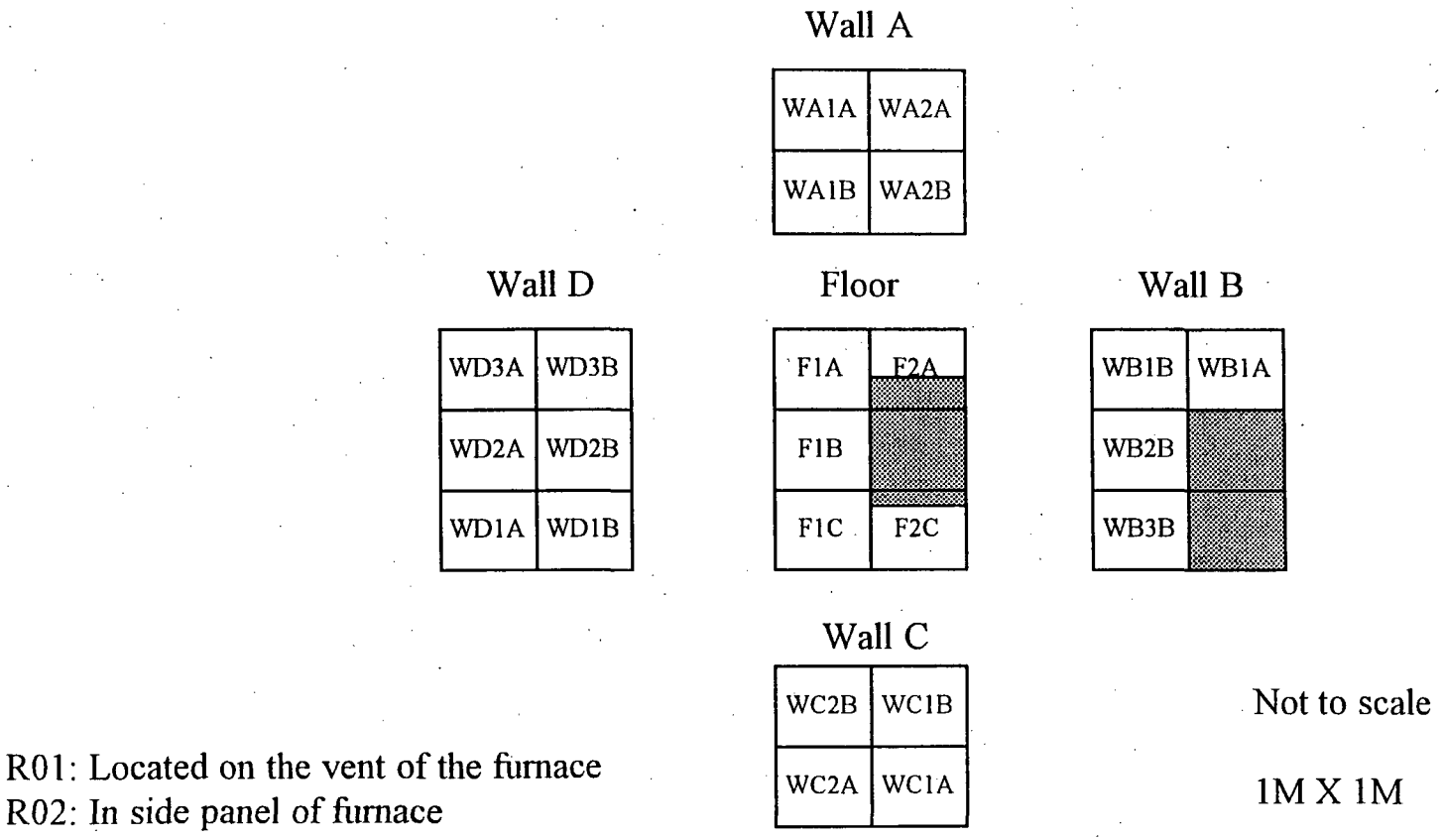
BUILDING: 9116 ROOM: 6

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F1A	0.36	-0.597	8.1	0.530	-85.2	-2.54
F2A	0.20	-0.955	8.1	0.985	-213.0	-6.79
F1B	0.26	0.119	8.1	1.667	-97.4	-7.30
F2B	0.23	-0.955	-2.7	2.577	-97.4	0.00
F1C	-0.29	-1.313	2.7	1.213	-67.0	-7.69
F2C	-0.09	-0.239	8.1	1.213	0.0	-5.52
WA1A	-0.11	-1.313	-2.7	2.349	79.1	-1.84
WA2A	0.02	0.119	-5.4	3.031	-79.1	-1.83
WA1B	-0.01	-0.955	10.8	1.667	54.8	-1.83
WA2B	0.68	-1.313	8.1	0.985	-48.7	2.71
WB1A	-0.35	-1.313	10.8	1.440	0.0	-4.16
WB2A	-0.17	-1.313	2.7	-0.606	-18.3	-2.87
WB3A	0.69	-0.597	10.8	0.758	-42.6	-5.86
WB1B	0.28	-0.955	8.1	3.259	-103.5	1.37
WB2B	0.78	-0.239	5.4	1.667	54.8	-5.49
WB3B	1.03	-0.597	8.1	2.349	-24.3	-4.52
WC1A	-0.26	-0.955	5.4	1.440	-133.9	-4.91
WC2A	-0.24	-0.597	16.3	2.122	-36.5	0.89

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WC1B	-0.82	-1.313	0.0	0.530	-140.0	0.89
WC2B	-0.19	-1.313	2.7	2.349	-18.3	-9.21
WD1A	0.43	-0.955	0.0	0.985	103.5	-2.73
WD2A	-0.07	-0.597	2.7	2.122	6.1	-2.30
WD3A	-0.45	-0.597	2.7	2.349	-91.3	-4.49
WD1B	0.00	-1.313	5.4	3.486	12.2	-1.80
WD2B	-0.20	-0.955	10.8	1.213	-152.2	-4.91
WD3B	0.42	-1.313	5.4	0.530	182.6	-12.14
R01	0.61	0.478	5.4	3.259	444.3	4.16

Bldg. 9116
Rm. 7



Not to scale

1M X 1M

R01: Located on the vent of the furnace
R02: In side panel of furnace

Area taken up by furnaces

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 7

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
F1A - R02	GATES	07-Jan-98	133663	136345	8 dpm/100cm² (3 cpm)	24	36.46	1058 dpm/100cm² (192 cpm)	290	18.14		100 cm²
F1A - R02	GATES	07-Jan-98	00914	723412							2.62	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION				
	ZONE: 3	SUBZONE: EAST	STATUS: AFFECTED	
	BUILDING: 9116	ROOM: 7		

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
F1A - R02	20-Jan-98	0.352 dpm/100cm² (0.100 cpm)	2.288	28.4	2.146 dpm/100cm² (0.967 cpm)	3.223	45.1	
F1A - R02	21-Jan-98							14.80

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

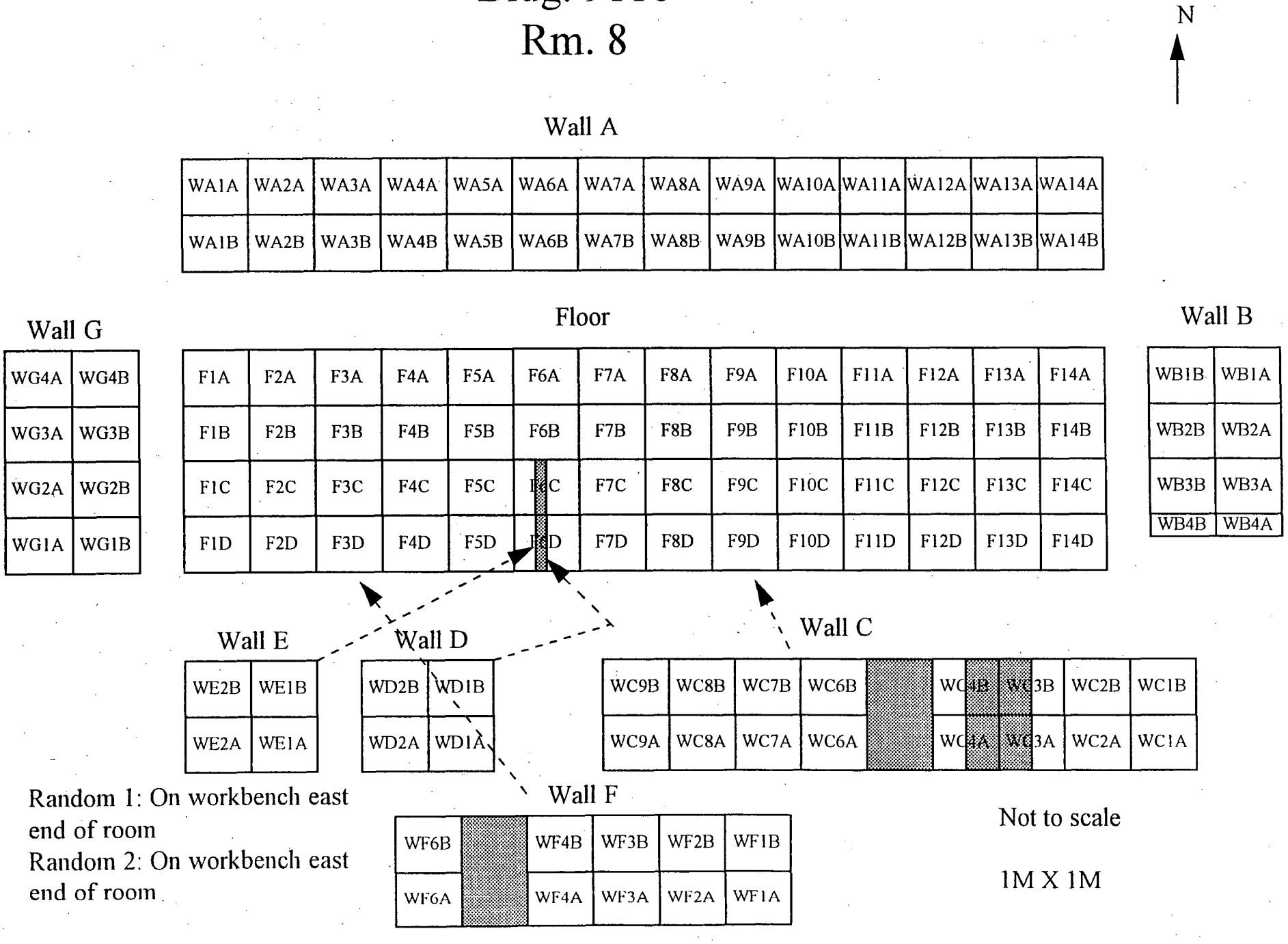
BUILDING: 9116 ROOM: 7

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F1A	0.43	1.055	-5.5	1.850	11.0	-2.87
F2A	0.43	0.352	-5.5	1.184	-99.2	-7.61
F1B	0.75	-0.352	-5.5	2.072	-115.8	-18.25
F1C	1.05	-0.352	-8.2	1.628	-33.1	-5.32
F2C	0.59	0.000	-2.7	1.850	-38.6	-10.69
WA1A	0.57	0.352	-5.5	0.296	-143.3	-3.57
WA2A	0.38	0.352	-5.5	1.850	-60.6	4.91
WA1B	-0.11	0.703	-5.5	1.184	-38.6	0.00
WA2B	0.42	-0.352	-2.7	0.518	-154.4	6.66
WB1A	0.63	-0.352	0.0	1.406	-126.8	-0.88
WB1B	0.26	0.000	8.2	2.959	-181.9	-4.07
WC1A	0.75	0.000	-5.5	0.074	-38.6	11.68
WC2A	0.28	0.000	-2.7	0.962	-264.6	-6.37
WC1B	0.77	0.352	0.0	0.074	-198.5	-4.99
WC2B	0.17	0.000	-2.7	-0.148	-104.7	0.90
WD1A	0.89	0.000	2.7	2.294	-270.1	-1.46
WD2A	0.84	0.352	-5.5	-0.148	-264.6	-7.18
WD3A	0.45	0.000	8.2	0.962	-170.9	-7.68

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WD1B	0.59	-0.352	0.0	1.184	-264.6	-6.96
WD2B	0.23	0.703	0.0	1.184	-319.7	-0.46
WD3B	0.57	-0.352	-2.7	1.406	-308.7	0.92
R01	-0.14	0.352	2.7	2.737	-242.6	-2.36
R02	0.21	-0.352	5.5	0.518	5.5	-13.44

Bldg. 9116
Rm. 8



Random 1: On workbench east end of room

Random 2: On workbench east end of room

Not to scale

1M X 1M

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 8

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
F1A - F14D	GATES	09-Jan-98	133661	139658	3 dpm/100cm² (1 cpm)	17	36.93	1020 dpm/100cm² (179 cpm)	290	17.55		100 cm²
WA1A - R02	GATES	12-Jan-98	00914	578	5 dpm/100cm² (2 cpm)	25	37.11	1209 dpm/100cm² (185 cpm)	431	15.30		100 cm²
F1A - F14D	GATES	09-Jan-98	00916	723412							3.08	N/A
WA1A - R02	GATES	09-Jan-98	00916	723412							3.44	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 8

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA			BETA			LSC
		BKG	MDA (dpm/100cm²)	EFF. %	BKG	MDA (dpm/100cm²)	EFF. %	BKG (cpm)
F1A - F14D	26-Jan-98	0.354 dpm/100cm² (0.100 cpm)	2.300	28.3	2.144 dpm/100cm² (0.967 cpm)	3.222	45.1	
WA1A - R02	26-Jan-98	0.482 dpm/100cm² (0.133 cpm)	2.564	27.7	2.720 dpm/100cm² (1.200 cpm)	3.597	44.1	
F1A - F14D	26-Jan-98							15.90
WA1A - R02	26-Jan-98							17.70

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: AFFECTED

BUILDING: 9116 ROOM: 8

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

	GAMMA	ALPHA		BETA		LSC
Grids	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F1A	0.26	-0.354	0.0	-0.370	51.3	-16.08
F2A	0.66	0.354	-2.7	3.402	193.7	-4.82
F3A	-0.04	-0.354	10.8	0.739	91.2	-13.77
F4A	0.85	0.354	2.7	-0.148	-68.4	-15.41
F5A	0.23	0.707	-2.7	1.183	5.7	-18.23
F6A	0.55	0.000	2.7	0.961	28.5	-15.44
F7A	0.53	-0.354	2.7	0.296	51.3	-22.97
F8A	0.36	-0.354	2.7	2.071	-28.5	-15.08
F9A	1.08	0.354	-2.7	-0.148	68.4	-13.42
F10A	1.41	0.000	2.7	0.518	-68.4	-21.99
F11A	-0.53	1.414	2.7	2.292	-5.7	-15.31
F12A	0.88	-0.354	-2.7	2.736	-11.4	-18.95
F13A	0.83	0.354	2.7	2.071	136.8	-12.58
F14A	1.55	0.354	0.0	0.296	108.3	-19.53
F1B	0.63	0.000	0.0	2.071	39.9	-23.98
F2B	1.07	-0.354	0.0	1.849	57.0	-11.64
F3B	0.38	0.000	0.0	1.849	91.2	-10.48
F4B	1.66	1.414	2.7	3.845	-5.7	-6.64

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F5B	0.93	0.000	0.0	1.405	176.6	-6.51
F6B	1.04	0.707	-2.7	1.405	131.1	-11.30
F7B	0.68	0.354	2.7	2.736	79.8	-9.59
F8B	0.66	0.707	0.0	0.739	-39.9	-5.92
F9B	0.18	-0.354	0.0	1.627	0.0	-15.65
F10B	0.52	0.000	0.0	2.292	57.0	-11.87
F11B	0.52	0.000	0.0	0.518	-28.5	-18.02
F12B	0.29	0.707	0.0	1.627	96.9	-14.37
F13B	-0.17	1.061	-2.7	2.736	28.5	-8.53
F14B	0.25	-0.354	2.7	0.739	-39.9	-17.12
F1C	0.29	0.000	-2.7	1.849	-39.9	-9.94
F2C	0.88	1.061	0.0	1.627	-119.7	-19.99
F3C	0.79	0.000	0.0	1.849	-34.2	-7.79
F4C	1.10	-0.354	5.4	1.849	199.4	-10.80
F5C	0.61	-0.354	-2.7	2.514	68.4	-14.25
F6C	0.23	-0.354	-2.7	0.961	91.2	-13.67
F7C	0.27	0.000	0.0	2.514	17.1	-13.86
F8C	0.23	0.707	-2.7	-0.148	148.1	-17.91
F9C	0.26	0.000	0.0	0.739	-28.5	-15.69
F10C	0.08	0.354	8.1	1.183	-11.4	-16.76
F11C	0.49	0.707	0.0	2.514	79.8	-13.88
F12C	0.14	-0.354	0.0	2.292	34.2	-14.77
F13C	0.46	-0.354	5.4	0.739	11.4	-18.73
F14C	0.75	0.000	0.0	2.514	39.9	-17.70

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
F1D	0.43	0.000	5.4	2.736	11.4	-14.48
F2D	0.59	0.000	2.7	2.736	-233.6	-10.24
F3D	0.12	0.000	-2.7	1.849	-57.0	-14.13
F4D	1.11	-0.354	-2.7	1.627	199.4	-14.40
F5D	1.51	0.000	0.0	0.961	17.1	-12.23
F6D	0.98	0.354	2.7	1.627	-68.4	-14.82
F7D	0.47	-0.354	-2.7	0.961	-91.2	-12.66
F8D	0.33	0.354	2.7	1.849	91.2	-12.23
F9D	0.23	0.000	0.0	0.961	-45.6	-10.74
F10D	0.97	0.354	2.7	1.627	51.3	-14.45
F11D	-0.03	-0.354	2.7	-0.370	11.4	-19.33
F12D	0.36	0.000	2.7	0.961	-57.0	-16.74
F13D	1.33	-0.354	-2.7	1.183	79.8	-20.32
F14D	-0.24	0.354	-2.7	4.511	153.8	-11.30
WA1A	0.23	0.241	10.8	2.493	91.5	-16.78
WA2A	0.34	0.241	10.8	1.587	0.0	-21.69
WA3A	0.36	0.603	2.7	0.680	-32.7	-14.48
WA4A	0.07	-0.121	16.2	2.040	196.1	-11.96
WA5A	0.86	0.241	0.0	0.680	-45.8	-11.49
WA6A	1.12	0.964	5.4	-0.227	85.0	-12.77
WA7A	0.30	0.964	13.5	1.587	78.4	-7.69
WA8A	0.36	-0.482	16.2	1.133	143.8	-15.76
WA9A	0.07	-0.121	21.6	-0.453	52.3	-15.27
WA10A	1.28	0.241	10.8	3.173	209.2	-13.45

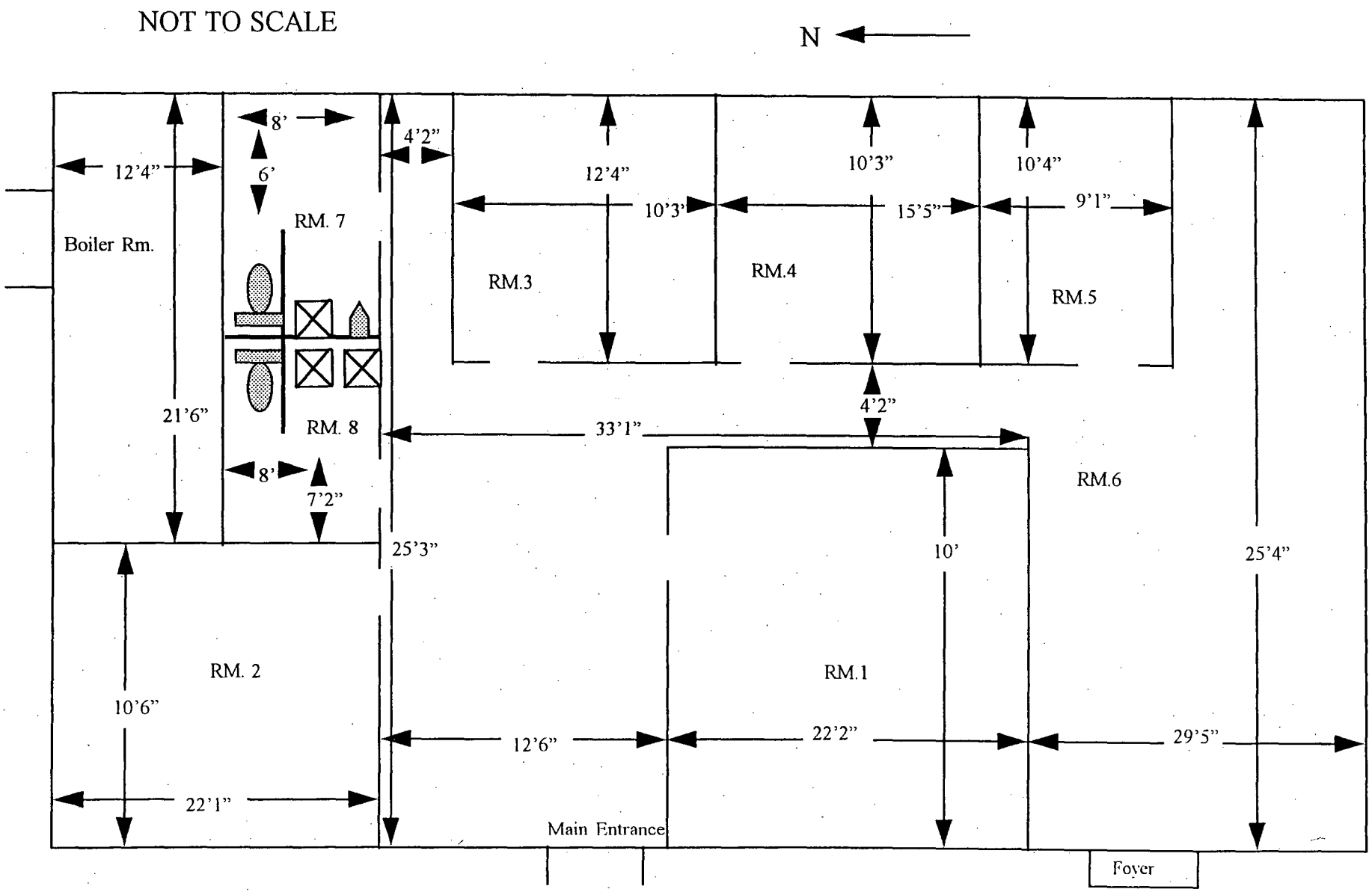
Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WA11A	0.93	-0.482	2.7	1.587	150.3	-10.84
WA12A	0.09	-0.121	24.3	1.813	196.1	-9.86
WA13A	1.27	2.410	5.4	2.040	91.5	-17.96
WA14A	0.30	0.241	5.4	0.453	176.5	-13.61
WA1B	0.66	0.241	10.8	1.813	32.7	-15.98
WA2B	0.47	-0.121	2.7	0.453	52.3	-11.36
WA3B	0.60	-0.121	10.8	0.227	104.6	-11.95
WA4B	0.56	0.603	5.4	0.227	124.2	-12.70
WA5B	0.98	0.241	13.5	0.680	-39.2	-10.82
WA6B	0.14	0.241	5.4	1.813	189.5	-14.11
WA7B	0.64	0.241	13.5	0.227	58.8	-14.71
WA8B	0.50	0.964	16.2	0.453	91.5	-13.79
WA9B	0.59	0.603	16.2	0.000	156.9	-9.39
WA10B	0.87	1.687	16.2	1.133	-19.6	-12.11
WA11B	0.49	0.603	5.4	0.680	26.1	-11.24
WA12B	0.27	-0.121	0.0	0.000	215.7	-9.12
WA13B	0.26	-0.121	21.6	1.133	202.6	-6.30
WA14B	0.19	-0.121	13.5	0.227	189.5	-16.99
WB1A	0.77	-0.121	10.8	0.227	143.8	-19.42
WB2A	0.59	-0.482	10.8	2.266	281.0	-11.44
WB3A	0.18	0.241	18.9	0.000	222.2	-10.97
WB4A	0.35	0.241	16.2	0.000	85.0	-12.15
WB1B	0.38	0.603	13.5	0.453	196.1	-8.99
WB2B	0.97	1.326	5.4	1.360	313.7	-5.51

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WB3B	0.77	0.603	8.1	0.680	85.0	-9.24
WB4B	0.41	0.241	21.6	0.000	111.1	-15.23
WC1A	0.23	0.241	13.5	-0.453	13.1	-5.48
WC2A	0.07	0.603	2.7	0.907	52.3	-13.41
WC3A	0.22	-0.121	5.4	0.227	26.1	-7.39
WC4A	0.10	-0.121	13.5	1.813	98.0	-7.56
WC6A	-0.07	-0.482	13.5	0.680	-111.1	-11.98
WC7A	0.75	-0.121	8.1	0.680	65.4	-13.48
WC8A	0.59	0.241	5.4	0.680	39.2	-13.81
WC9A	0.34	-0.482	21.6	0.453	143.8	-8.87
WC1B	0.90	-0.121	10.8	1.813	39.2	-11.70
WC2B	0.17	1.326	2.7	0.227	156.9	-10.24
WC3B	-0.13	-0.482	-2.7	0.680	0.0	-11.37
WC4B	0.13	0.241	5.4	0.000	6.5	-14.08
WC6B	0.07	0.241	5.4	0.453	98.0	-10.55
WC7B	0.33	-0.121	10.8	2.040	91.5	-3.68
WC8B	0.51	-0.121	2.7	2.266	6.5	-7.63
WC9B	-0.16	-0.121	8.1	0.000	78.4	-13.41
WD1A	0.38	-0.121	5.4	0.680	71.9	-17.22
WD2A	0.39	-0.482	2.7	1.813	6.5	-4.70
WD1B	0.44	-0.482	16.2	-0.680	189.5	-12.69
WD2B	0.57	-0.482	10.8	0.227	202.6	-10.01
WE1A	1.35	0.603	13.5	1.813	13.1	-4.24
WE2A	0.27	-0.121	8.1	1.133	91.5	-21.05

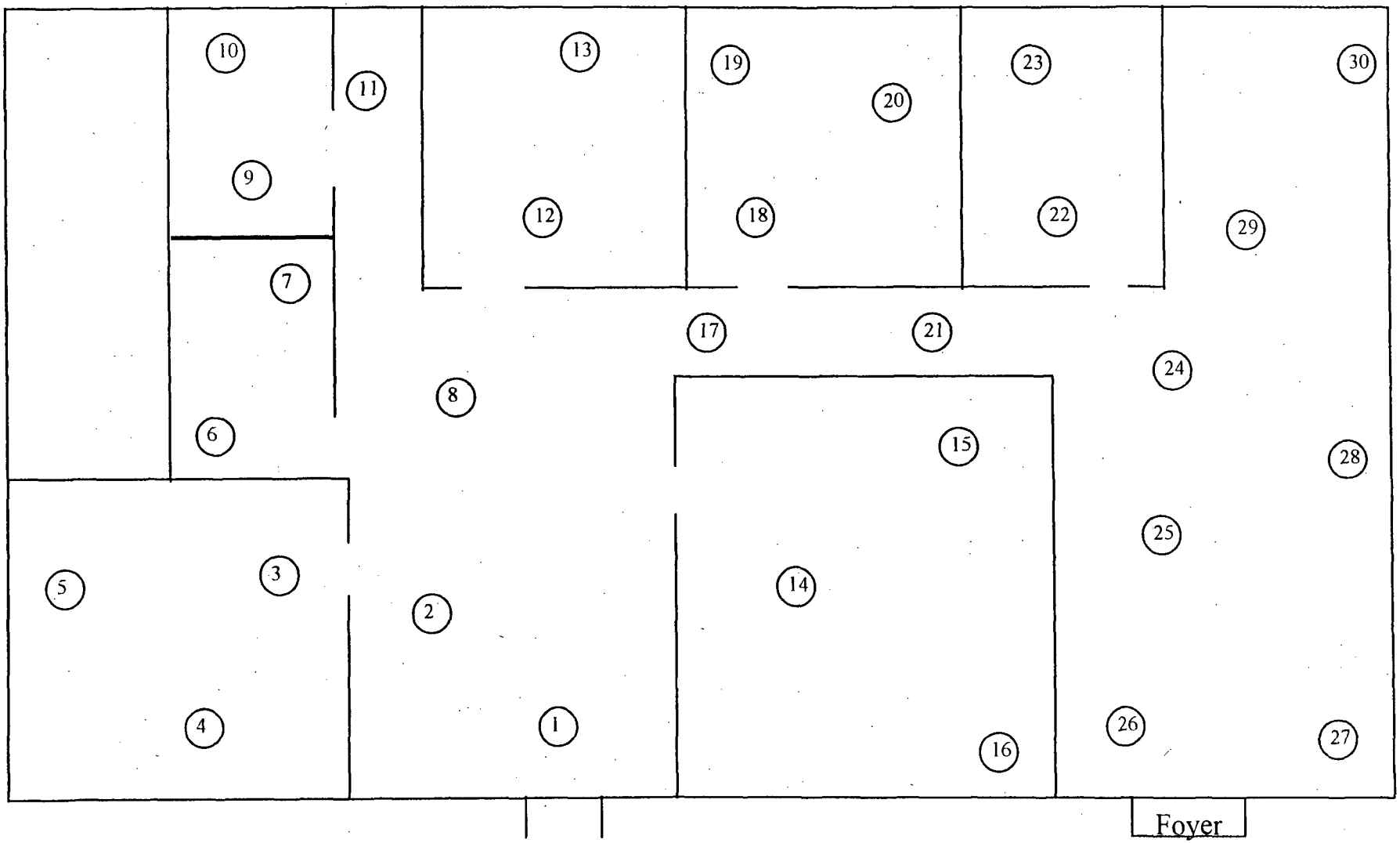
Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
WE1B	0.06	-0.121	10.8	0.453	228.8	-10.28
WE2B	0.76	-0.121	13.5	1.813	45.8	-13.28
WF1A	0.65	0.241	5.4	1.133	32.7	-15.43
WF2A	0.54	-0.121	16.2	0.453	19.6	-10.93
WF3A	-0.46	-0.482	-2.7	1.587	104.6	-13.10
WF4A	0.64	-0.121	16.2	0.907	104.6	-11.87
WF5A	0.16	-0.121	13.5	0.680	78.4	-11.28
WF1B	1.16	-0.121	2.7	0.680	85.0	-18.16
WF2B	-0.02	-0.482	5.4	1.813	-26.1	-7.25
WF3B	0.76	0.603	8.1	2.946	111.1	-16.12
WF4B	0.39	-0.121	8.1	0.907	117.6	-12.46
WF6B	0.59	0.241	24.3	1.133	196.1	-1.57
WG1A	0.71	-0.482	5.4	0.907	228.8	-14.57
WG2A	0.58	0.241	5.4	1.360	117.6	-11.53
WG3A	0.56	-0.121	5.4	0.453	98.0	-8.84
WG4A	1.05	-0.121	5.4	0.227	58.8	-11.48
WG1B	0.98	-0.121	5.4	0.453	85.0	-17.07
WG2B	1.47	0.241	21.6	1.587	78.4	-12.58
WG3B	0.59	0.964	13.5	1.813	235.3	-9.50
WG4B	0.25	-0.482	2.7	-0.227	209.2	-16.74
R01	1.78	-0.482	8.1	0.680	352.9	-11.80
R02	0.87	0.241	5.4	0.000	326.8	-14.77

Bldg. 9162
overall

NOT TO SCALE



Bldg. 9162


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Not To Scale
Survey Data Points

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST

BUILDING: 9162 ROOM: ALL

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA			BETA			GAMMA	PROBE AREA
					BKG (dpm/100cm²)	MDA (dpm/100cm²)	EFF. %	BKG (dpm/100cm²)	MDA (dpm/100cm²)	EFF. %	BKG (µR/hr)	
R01 - R30	FINCHUM	10-Mar-97	133666	139659	6 dpm/100cm² (2 cpm)	16	36.20	1033 dpm/100cm² (350 cpm)	207	33.88		100 cm²
R01 - R30	FINCHUM	05-Mar-97	131265								5.00	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE:	3	SUBZONE:	EAST
BUILDING:	9162	ROOM:	ALL

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA			BETA			LSC
		BKG	MDA (dpm/100cm²)	EFF. %	BKG	MDA (dpm/100cm²)	EFF. %	BKG (cpm)
R01 - R30	30-Apr-97	0.830 dpm/100cm² (0.233 cpm)	3.026	28.1	2.874 dpm/100cm² (1.300 cpm)	3.628	45.2	
R01 - R30	25-Mar-97							14.20

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

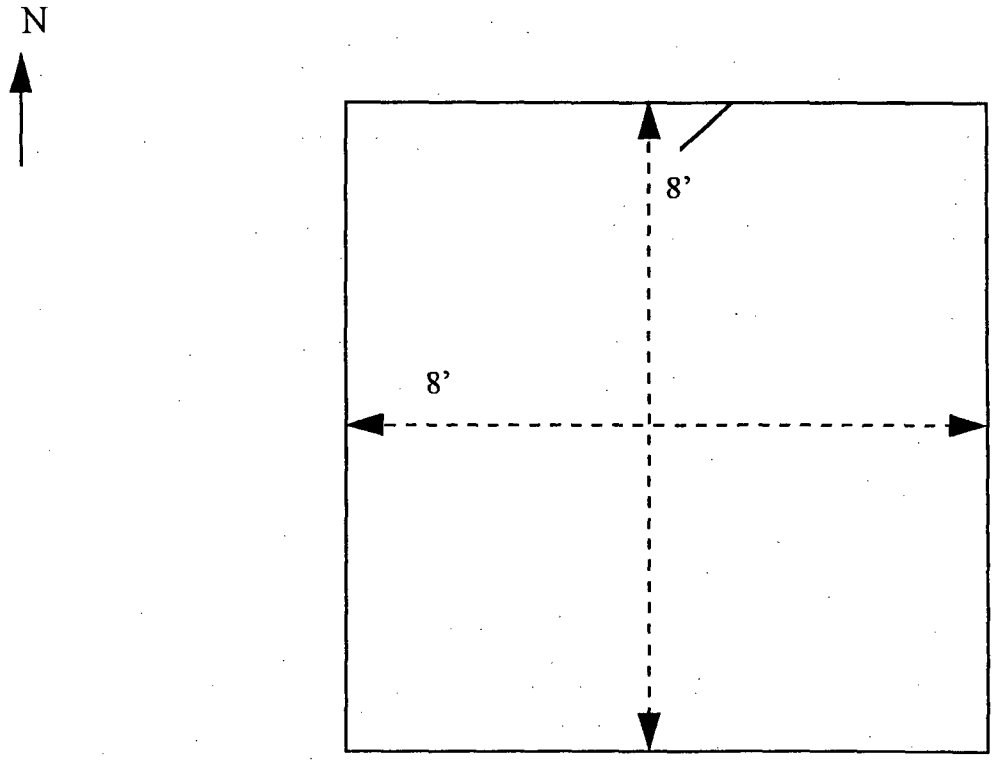
ZONE:	3	SUBZONE:	EAST
BUILDING:	9162	ROOM:	ALL

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

	GAMMA	ALPHA		BETA		LSC
Grids	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R01	-1.00	-0.474	2.8	1.548	-304.0	-3.00
R02	0.00	0.237	-5.5	-0.442	5.9	-10.07
R03	-1.00	-0.119	16.6	0.442	-410.3	4.47
R04	0.00	0.593	5.5	0.884	-351.2	-3.12
R05	0.00	0.237	2.8	3.317	-250.9	8.15
R06	0.00	-0.830	0.0	2.653	-174.1	-42.00
R07	-1.00	-0.474	-2.8	0.221	-392.6	0.43
R08	-1.00	-0.119	0.0	1.990	-168.2	-32.13
R09	-1.00	-0.119	0.0	0.000	-416.2	-7.95
R10	0.00	-0.119	-5.5	-0.221	-124.0	-86.60
R11	0.00	-0.830	-2.8	-0.442	-451.6	-2.66
R12	0.00	-0.474	0.0	-1.106	-197.8	-17.60
R13	-1.00	0.237	0.0	0.221	-289.3	0.40
R14	-1.00	-0.119	-2.8	-0.884	-91.5	-355.78
R15	0.00	-0.119	13.8	-0.663	-360.1	-4.00
R16	-1.00	-0.474	-2.8	0.442	-445.7	-11.87
R17	-1.00	-0.119	-2.8	0.442	-144.6	-51.14
R18	-1.00	0.593	0.0	0.884	-389.6	-3.86

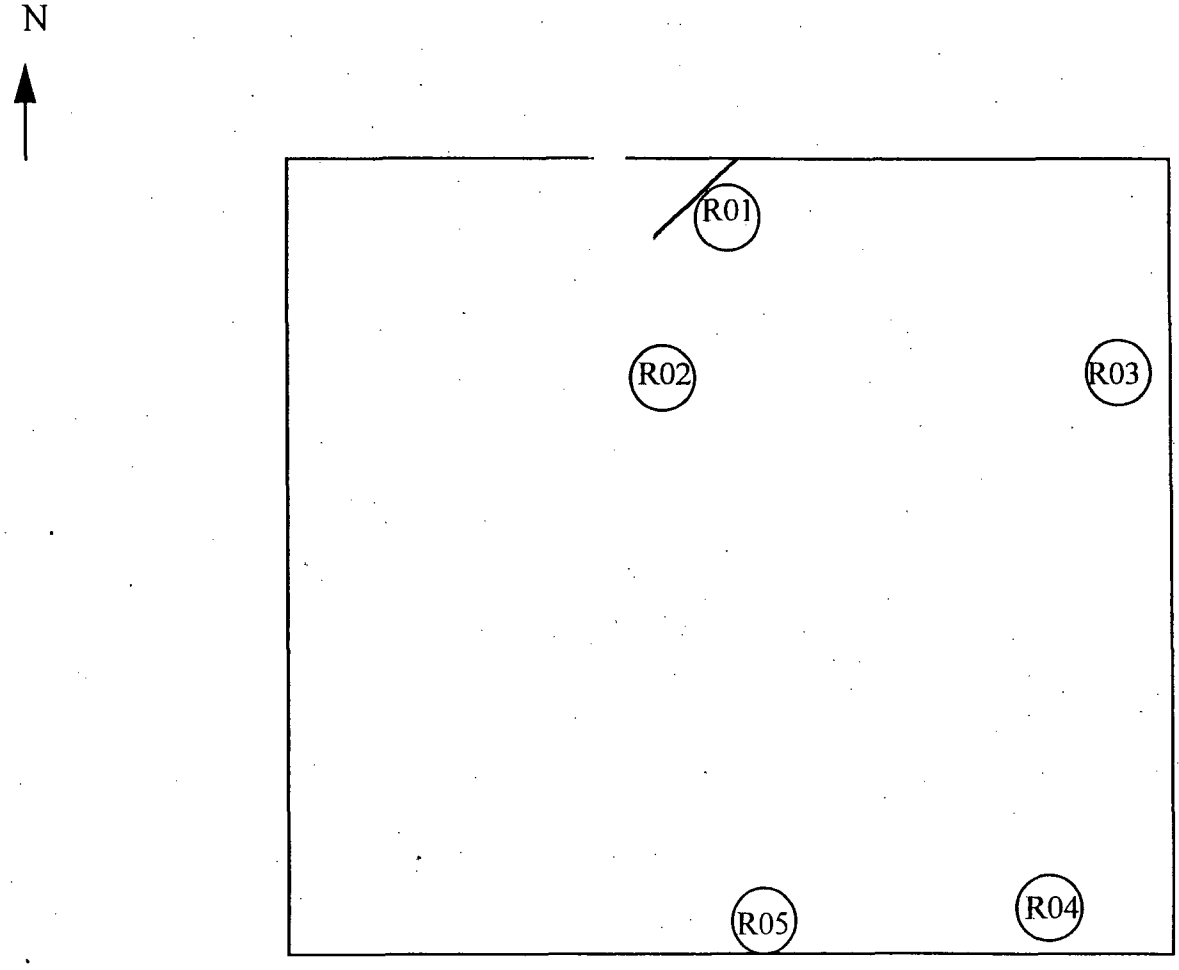
Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R19	0.00	-0.830	-2.8	0.221	-91.5	-30.33
R20	-1.00	0.593	11.0	1.106	-430.9	-4.62
R21	0.00	-0.119	13.8	0.000	-339.4	6.08
R22	0.00	-0.474	2.8	1.327	-256.8	-11.83
R23	0.00	0.237	-2.8	0.663	-404.4	-0.43
R24	0.00	-0.119	-2.8	0.442	-286.3	-2.71
R25	-1.00	-0.830	11.0	0.221	-442.7	1.21
R26	0.00	-0.830	-2.8	-0.663	-286.3	-5.70
R27	-1.00	0.237	-5.5	1.106	-301.1	3.99
R28	0.00	-0.830	-2.8	-0.663	-398.5	3.41
R29	0.00	-0.830	0.0	0.663	-239.1	2.06
R30	-1.00	-0.119	-5.5	0.884	-333.5	-1.63

Bldg. 9600



Not to scale

Bldg. 9600
Random Locations



◯ Denotes Random Locations

Not to scale

R01: On the door
R02: On the floor north end near the door
R03: On the east wall north end
R04: On the floor southeast corner
R05: On the south wall east end

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: UNAFFECTED

BUILDING: 9600 ROOM: ALL

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG (dpm/100cm²)	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG (dpm/100cm²)	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
R01 - R05	GATES	30-Jan-98	133661	139658	0 dpm/100cm² (0 cpm)	7	36.93	1031 dpm/100cm² (181 cpm)	291	17.55		100 cm²
R01 - R05	GATES	30-Jan-98	00916	723416							5.76	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 3 SUBZONE: EAST STATUS: UNAFFECTED

BUILDING: 9600 ROOM: ALL

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
R01 - R05	09-Feb-98	0.474 dpm/100cm² (0.133 cpm)	2.522	28.1	2.472 dpm/100cm² (1.100 cpm)	3.441	44.5	
R01 - R05	09-Feb-98							15.10

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

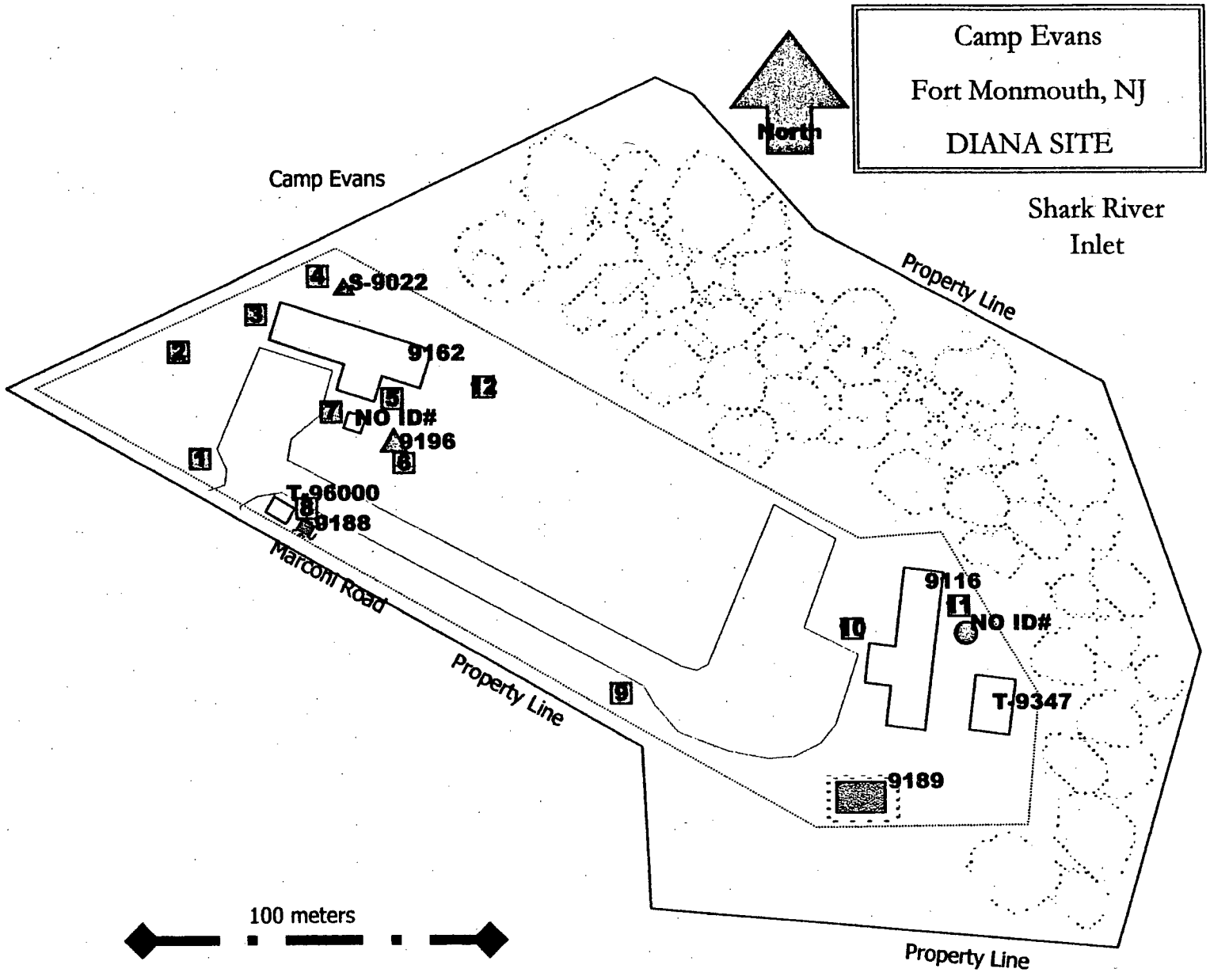
LOCATION

ZONE: 3 SUBZONE: EAST STATUS: UNAFFECTED

BUILDING: 9600 ROOM: ALL

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

	GAMMA	ALPHA		BETA		LSC
Grids	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R01	1.76	0.948	2.7	1.124	-108.3	-9.13
R02	0.39	-0.119	0.0	-0.225	108.3	-194.31
R03	0.88	-0.119	2.7	1.798	-11.4	-10.40
R04	-0.19	0.237	2.7	0.449	-79.8	-2.11
R05	1.04	0.593	8.1	2.697	96.9	-19.49


Camp Evans
Fort Monmouth, NJ
DIANA SITE
North
Camp Evans
Shark River
Inlet
Property Line
S-9022
9162
NO ID#
9196
T-96000
9188
Marconi Road
Property Line
9116
NO ID#
T-9347
9189
100 meters
Property Line

23-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION	SOIL
	ZONE: 3 SUBZONE: EAST

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
S01 - S12	ELLIOTT	06-Aug-97	00951	723417							7	N/A

23-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION	SOIL
	ZONE: 3 SUBZONE: EAST

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
S01 - S12	1600	.01 - .16	

23-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 3 SUBZONE: EAST

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
S01	2.00	2.576	0.371	4.460	0.449	Sum	5.541E+00
						CS-137	3.454E-01
						K-40	3.286E+00
						RA-226	1.077E+00
						TH-232	7.334E-01
						U-235	9.942E-02
S02	1.00	2.570	0.328	3.137	0.428	Sum	5.862E+00
						CS-137	5.783E-01
						K-40	3.375E+00
						RA-226	8.438E-01
						TH-232	9.133E-01
						U-235	1.520E-01
S03	0.00	1.381	0.359	4.325	0.444	Sum	5.694E+00
						CS-137	2.459E-01
						K-40	4.049E+00
						RA-226	6.949E-01
						TH-232	6.037E-01
						U-235	1.009E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S04	0.00	1.481	0.345	3.131	0.438	Sum	4.925E+00
						CS-137	4.026E-01
						K-40	3.011E+00
						RA-226	8.518E-01
						TH-232	5.689E-01
						U-235	9.025E-02
S05	1.00	1.654	0.320	2.444	0.424	Sum	4.712E+00
						CS-137	2.980E-01
						K-40	3.122E+00
						RA-226	6.846E-01
						TH-232	5.342E-01
						U-235	7.273E-02
S06	-2.00	1.937	0.345	2.758	0.439	Sum	5.328E+00
						CS-137	3.376E-01
						K-40	2.969E+00
						RA-226	6.900E-01
						TH-232	1.161E+00
						U-235	1.706E-01
S07	0.00	2.185	0.360	4.036	0.446	Sum	5.255E+00
						CS-137	7.110E-01
						K-40	2.617E+00
						RA-226	6.675E-01
						TH-232	1.099E+00
						U-235	1.607E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S08	0.00	2.090	0.321	3.467	0.423	Sum	6.547E+00
						CS-137	3.098E-01
						K-40	4.930E+00
						RA-226	6.834E-01
						TH-232	5.778E-01
						U-235	4.629E-02
S09	1.00	1.197	0.352	4.530	0.441	Sum	4.873E+00
						CS-137	4.108E-01
						K-40	2.742E+00
						RA-226	6.224E-01
						TH-232	6.717E-01
						U-235	4.264E-01
S10	-2.00	1.670	0.353	3.541	0.442	Sum	5.125E+00
						CS-137	5.118E-01
						K-40	3.142E+00
						RA-226	7.342E-01
						TH-232	6.469E-01
						U-235	9.057E-02
S11	0.00	2.379	0.366	2.741	0.448	Sum	2.462E+00
						CS-137	5.010E-01
						RA-226	9.448E-01
						TH-232	8.840E-01
						U-235	1.319E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S12	2.00	1.599	0.309	2.330	0.416	Sum	5.195E+00
						CS-137	4.133E-01
						K-40	3.078E+00
						RA-226	9.049E-01
						TH-232	6.730E-01
						U-235	1.259E-01

1 2 5 6 9 4

		Alpha		Beta		Gamma (Sum)
Minimum	-2	1.197	0.309	2.330	0.416	2.462E+00
Maximum	2	2.576	0.371	4.530	0.449	6.547E+00
Average	0	1.893	0.344	3.408	0.436	5.127E+00

1 2 5 6 9 3





Radiological Survey Report
US Army Evans Area, Fort Monmouth
Wall Township, New Jersey
Prepared April 1998

RADIOLOGICAL STATUS SURVEYS OF THE
DIANA PROJECT SITE AND
ANTENNEA TEST FIELD
EVANS AREA, FORT MONMOUTH, NEW JERSEY

Conducted
May 1997 - April 1998

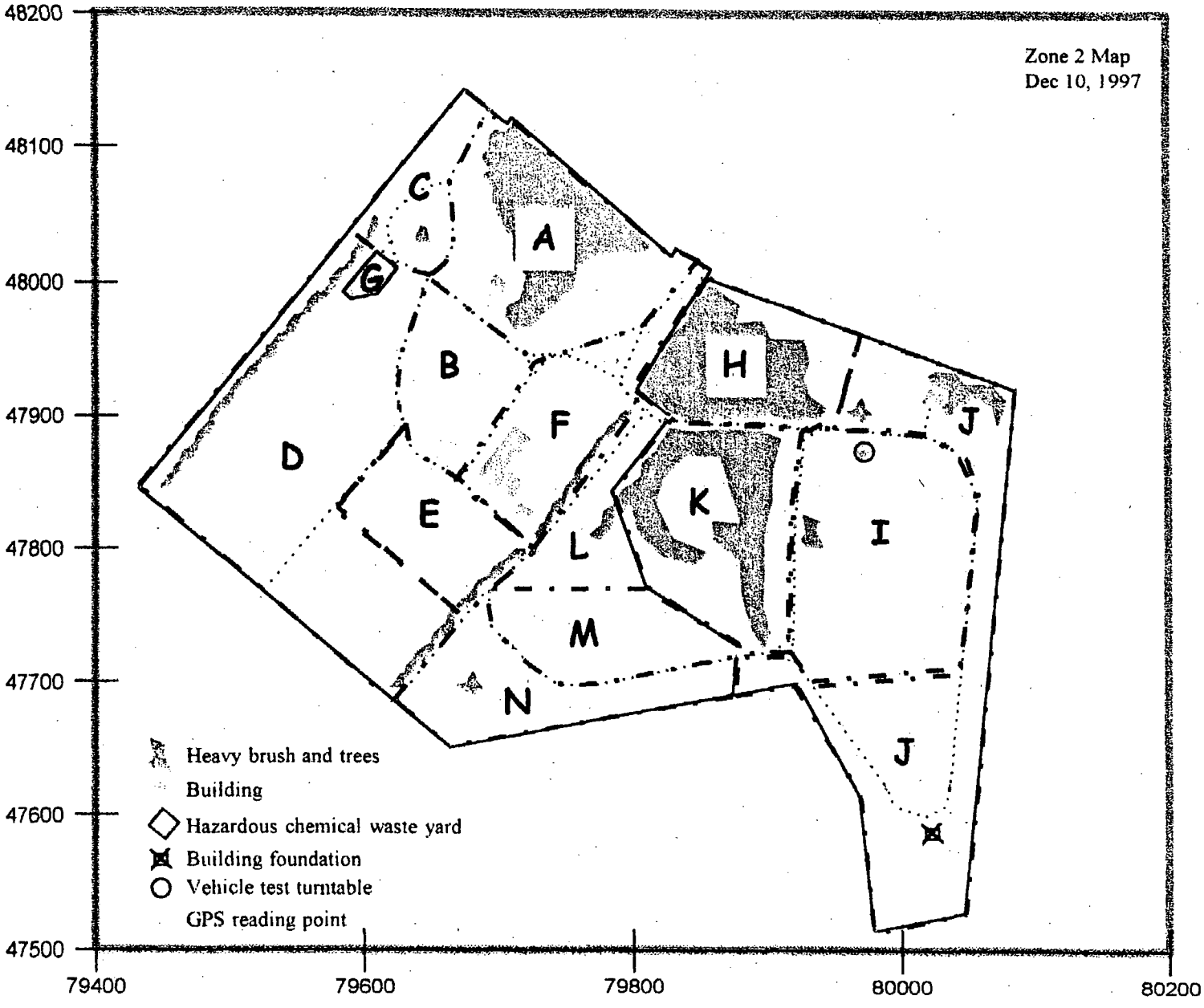
Volume 2 of 2

APPENDIX G

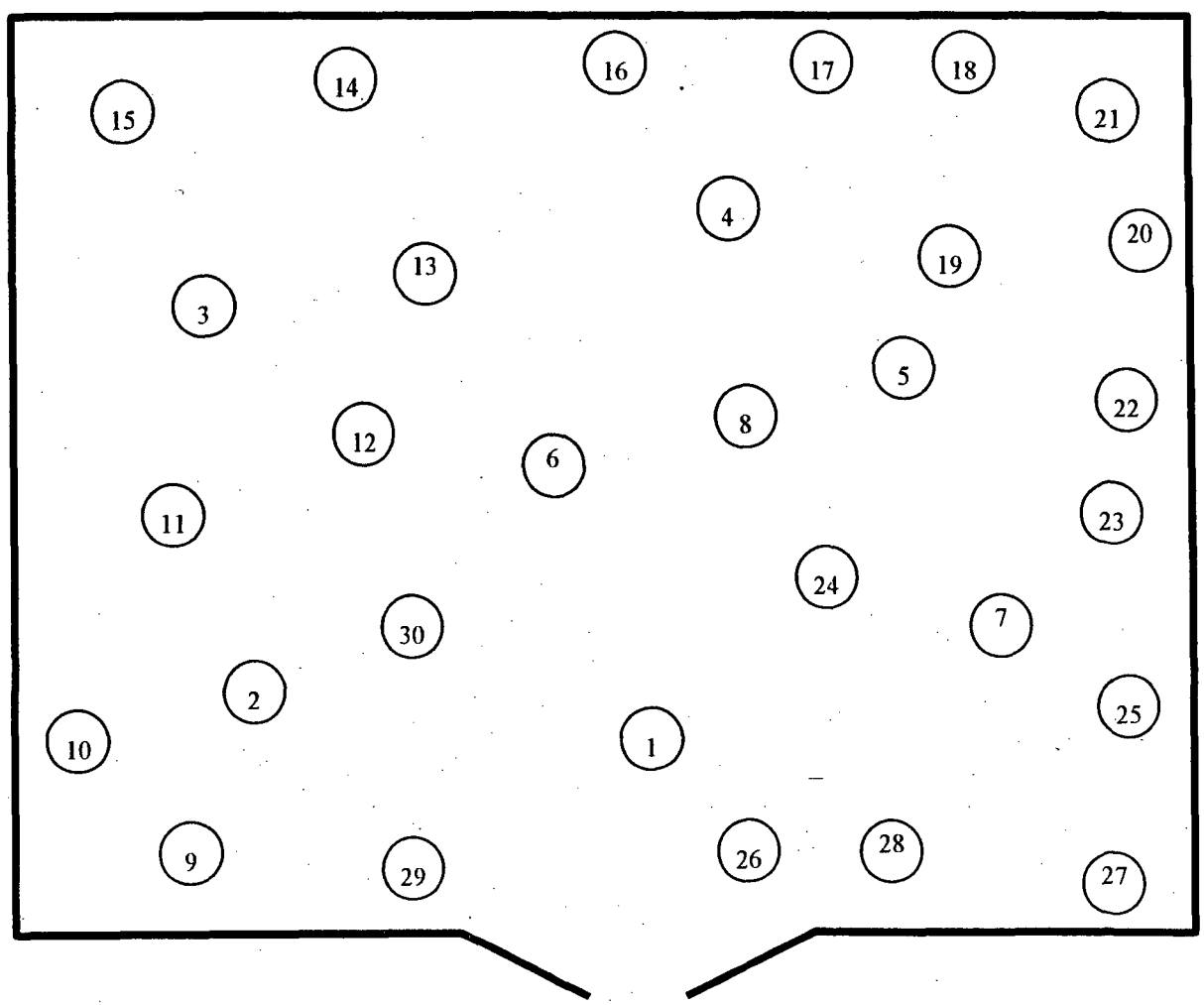
Antenna Test Field, Zone 2
SURVEY MAPS
SURVEY DATA
SURVEY REPORTS
FIELD TECHNICAL DATA

Antenna Test Field, sub-zone map

A. Building 9091
B. Building 9118
C. Building 9164 (Antenna tower base shack, demolished with tower)
D. Building 9306
E. Building 9307
F. A sub-zone, soil, unaffected.
G. B sub-zone, soil, affected.
H. C sub-zone, soil, unaffected.
I. D sub-zone, soil, unaffected.
J. E sub-zone, soil, affected.
K. F sub-zone, soil, affected.
L. G sub-zone, non-impacted.
M. H sub-zone, soil, unaffected.
N. I sub-zone, soil, affected.
O. J sub-zone, soil, unaffected.
P. K sub-zone, soil, affected.
Q. L sub-zone, soil, affected.
R. M sub-zone, soil, affected.
S. N sub-zone, soil, unaffected.


Zone 2 Map
Dec 10, 1997
48200
48100
48000
47900
47800
47700
47600
47500
79400
79600
79800
80000
80200
A
B
C
D
E
F
G
H
I
J
K
L
M
N
J
Heavy brush and trees
Building
Hazardous chemical waste yard
Building foundation
Vehicle test turntable
GPS reading point

Bldg 9091


N
Survey Data Points
15
14
16
17
18
21
4
20
19
13
3
5
22
8
12
6
11
23
24
7
30
2
25
10
1
9
29
26
28
27
Not To Scale

08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 2 SUBZONE: N/A

BUILDING: 9091 ROOM: ALL

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG (dpm/100cm²)	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG (dpm/100cm²)	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
R01 - R30	GATES	06-Mar-97	133670	139661	0 dpm/100cm² (0 cpm)	7	36.84	652 dpm/100cm² (155 cpm)	199	23.79		100 cm²
R01 - R30	CONNOLLY	18-Feb-97	127410								3.00	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE:	2	SUBZONE:	N/A
BUILDING:	9091	ROOM:	ALL

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
R01 - R30	17-Jan-97	1.128 dpm/100cm² (0.410 cpm)	2.623	36.3	4.611 dpm/100cm² (2.200 cpm)	3.885	47.7	
R01 - R30	02-Dec-96							18.30

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

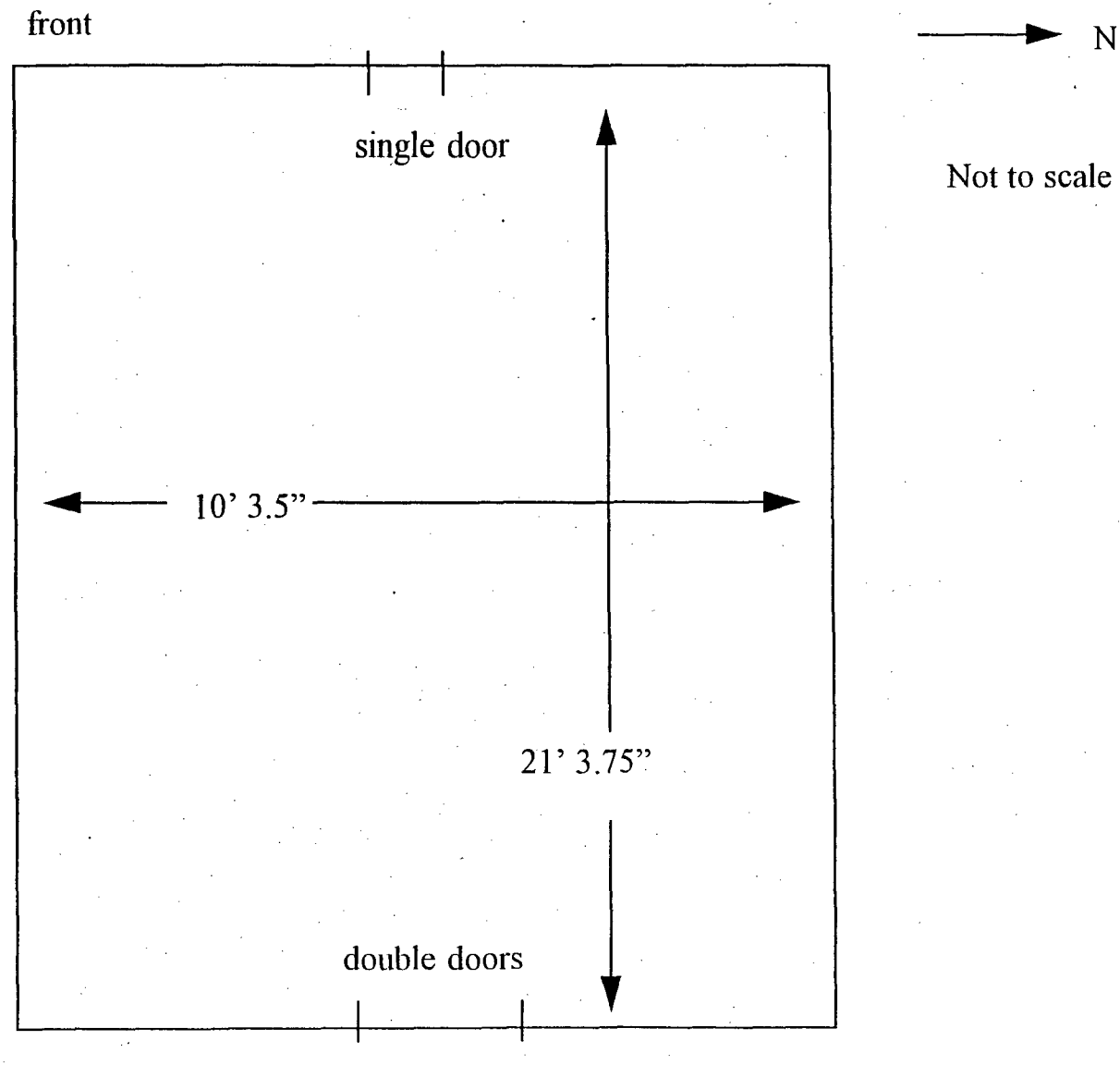
ZONE:	2	SUBZONE:	N/A
BUILDING:	9091	ROOM:	ALL

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

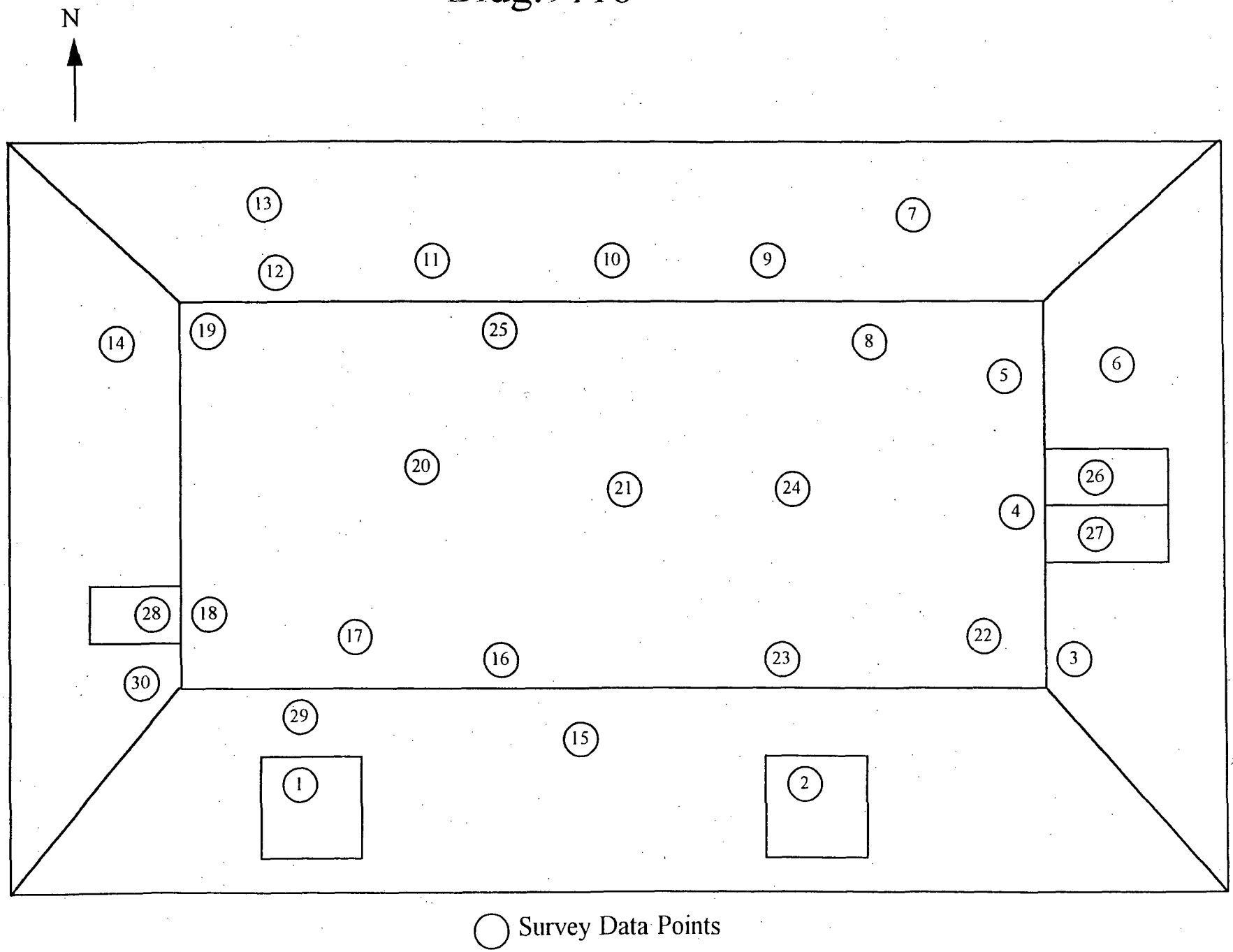
Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R01	0.00	-0.028	0.0	1.257	277.4	-1.16
R02	0.00	-1.128	8.1	-0.210	315.3	-8.55
R03	0.00	-1.128	0.0	-1.048	239.6	-5.39
R04	0.00	-0.578	0.0	1.048	100.9	-9.88
R05	0.00	-0.578	5.4	-0.419	315.3	-5.69
R06	0.00	-0.578	2.7	-0.838	298.4	-14.75
R07	0.00	-0.853	5.4	-0.419	475.0	-10.17
R08	0.00	-0.853	2.7	0.629	386.7	-2.23
R09	0.00	-0.578	5.4	-1.257	8.4	-7.87
R10	0.00	-0.303	5.4	-0.838	163.9	-7.84
R11	0.00	0.248	0.0	-1.048	-71.5	-12.50
R12	0.00	-0.578	5.4	-0.838	-25.2	-13.94
R13	0.00	-0.578	0.0	-0.419	0.0	-4.20
R14	0.00	-0.303	2.7	-0.838	75.7	-4.70
R15	0.00	0.523	10.9	1.048	176.5	-7.33
R16	1.00	-0.578	5.4	-1.257	138.7	-4.37
R17	0.00	-0.853	10.9	-1.257	8.4	-10.05
R18	0.00	-0.578	2.7	-1.677	273.2	-4.55

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R19	0.00	-0.578	2.7	-1.048	29.4	-8.70
R20	0.00	-0.853	5.4	0.000	29.4	-1.17
R21	0.00	-0.578	0.0	1.467	197.6	-9.31
R22	0.00	-0.578	2.7	0.210	8.4	-0.66
R23	0.00	-0.028	2.7	1.048	-8.4	-10.05
R24	0.00	-0.028	2.7	-0.629	248.0	-1.76
R25	0.00	-0.853	5.4	-0.838	-46.2	-6.47
R26	1.00	-0.028	2.7	-1.048	142.9	-6.64
R27	0.00	-0.578	8.1	0.838	46.2	-5.59
R28	0.00	-0.303	8.1	-2.515	21.0	-4.96
R29	0.00	-0.853	0.0	-1.048	-42.0	-1.09
R30	1.00	1.348	8.1	0.419	206.0	-11.66

Bldg. 9118



Bldg.9118


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22
16
23
3
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29
15
1
2
Survey Data Points

Random Locations
List for 9118

R01: South wall bottm of first shelf above 1 meter
R02: South wall bottom of second shelf above 1 meter
R03: East wall below 1 meter
R06: East wall above 1 meter
R07: North wall above 1 meter
R09: North wall below 1 meter
R10: North wall below 1 meter
R11: North wall below 1 meter
R12: North wall below 1 meter
R13: North wall above 1 meter
R14: West wall above 1 meter
R15: South wall below 1 meter
R26: East wall on lt. door below 1 meter
R27: East wall on rt. door below 1 meter
R28: West wall on main door below 1 meter
R29: South wall below 1 meter
R30: West wall below 1 meter
All other random locations are on the floor as denoted on map.

08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 2 SUBZONE: A

BUILDING: 9118 ROOM: ALL

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
R01 - R30	EAVES	05-Sep-97	133663	136345	3 dpm/100cm² (1 cpm)	17	37.00	975 dpm/100cm² (184 cpm)	273	18.87		100 cm²
R01 - R30	EAVES	05-Sep-97	00914	723415							9.00	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 2 SUBZONE: A

BUILDING: 9118 ROOM: ALL

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA			BETA			LSC
		BKG	MDA (dpm/100cm²)	EFF. %	BKG	MDA (dpm/100cm²)	EFF. %	BKG (cpm)
R01 - R30	09-Sep-97	0.721 dpm/100cm² (0.200 cpm)	2.911	27.8	2.386 dpm/100cm² (1.100 cpm)	3.321	46.1	
R01 - R30	08-Sep-97							13.80

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 2 SUBZONE: A

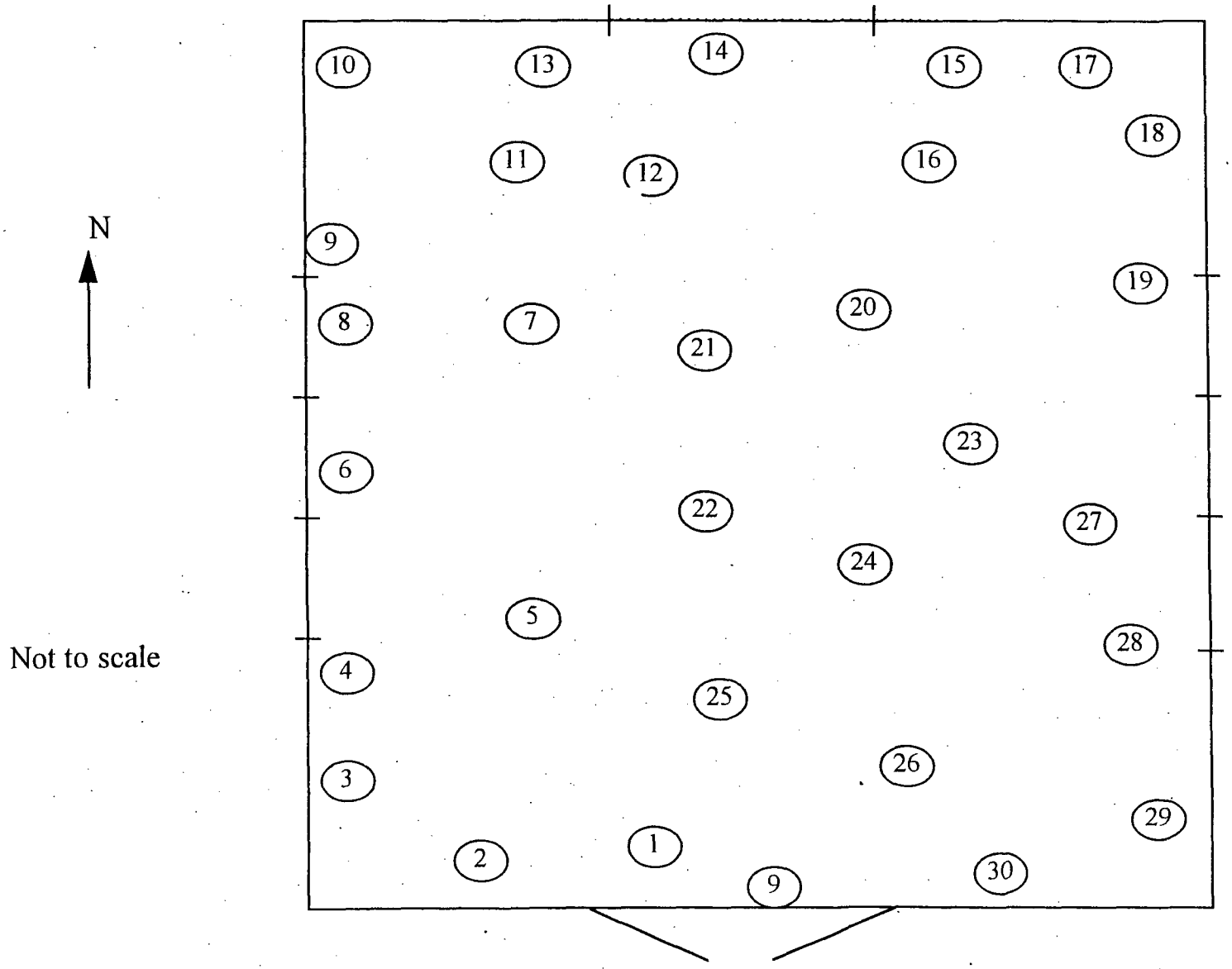
BUILDING: 9118 ROOM: ALL

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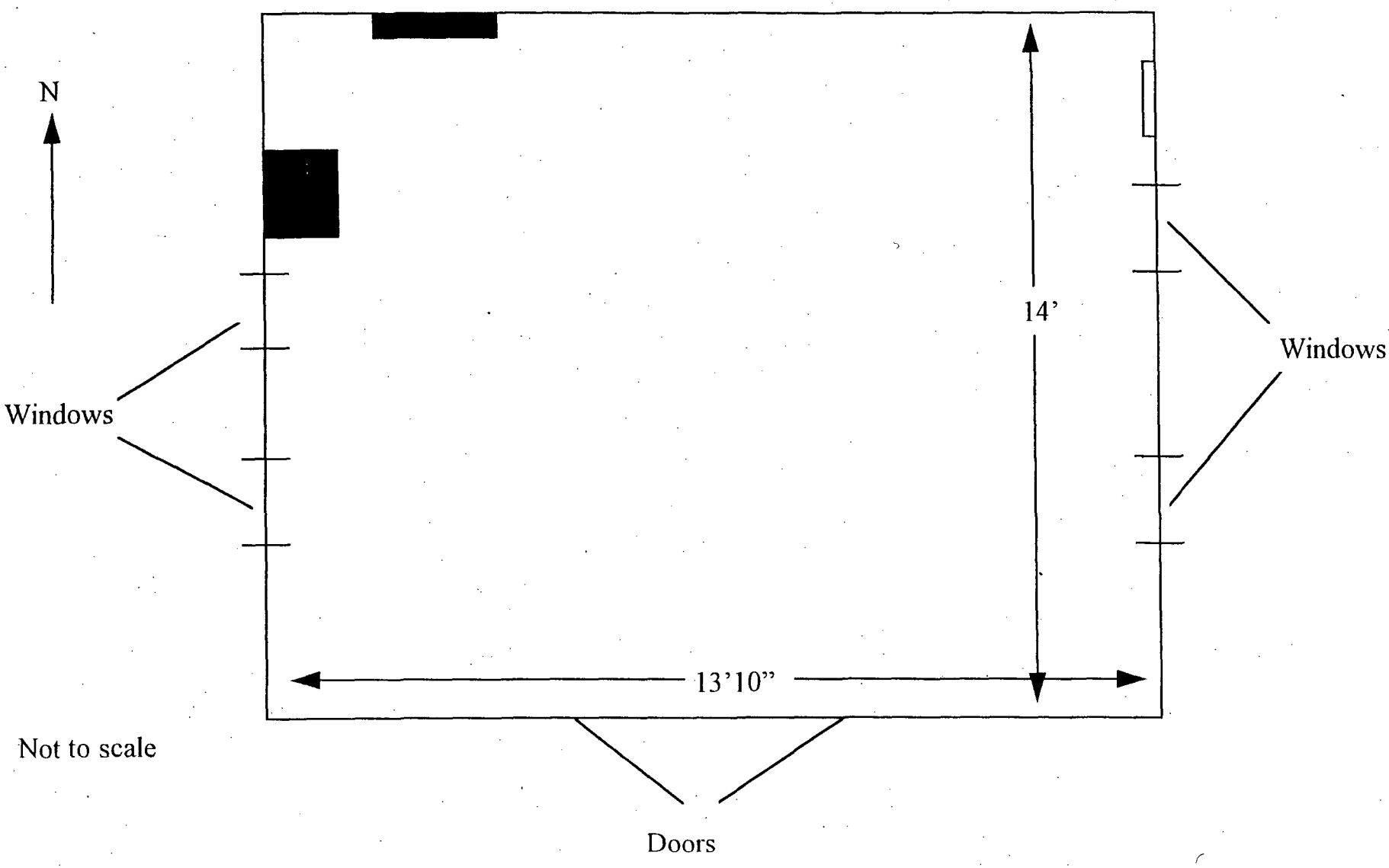
Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R01	2.00	0.360	-2.7	1.085	339.2	0.00
R02	3.00	0.000	-2.7	1.735	519.3	0.00
R03	3.00	0.360	0.0	0.868	434.6	4.49
R04	1.00	-0.360	0.0	0.868	794.9	7.22
R05	2.00	-0.360	0.0	1.735	630.6	0.00
R06	2.00	-0.721	-2.7	1.518	143.1	4.12
R07	2.00	-0.360	0.0	1.952	540.5	5.82
R08	3.00	-0.721	2.7	1.085	212.0	1.99
R09	3.00	0.000	0.0	0.434	249.1	-2.91
R10	2.00	0.000	0.0	2.169	323.3	6.24
R11	2.00	-0.360	0.0	1.301	47.7	-3.33
R12	3.00	-0.360	0.0	2.386	392.2	10.94
R13	2.00	0.000	5.4	0.434	296.8	-8.33
R14	1.00	-0.360	2.7	0.000	291.5	0.42
R15	2.00	-0.360	2.7	0.868	259.7	5.70
R16	4.00	-0.360	2.7	2.169	545.8	-4.82
R17	3.00	0.000	-2.7	1.085	614.7	-1.39
R18	3.00	1.081	2.7	2.820	482.2	-4.48

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R19	3.00	-0.360	2.7	1.735	529.9	0.94
R20	3.00	0.721	10.8	1.301	545.8	-2.58
R21	3.00	0.360	-2.7	2.386	503.4	-0.51
R22	3.00	0.000	0.0	1.518	365.7	-2.07
R23	3.00	0.000	-2.7	0.651	588.2	0.00
R24	2.00	0.360	-2.7	1.085	662.4	-4.33
R25	3.00	-0.360	2.7	2.169	455.7	7.02
R26	2.00	0.360	0.0	1.735	174.9	2.48
R27	3.00	-0.360	5.4	1.301	100.7	-2.17
R28	2.00	0.360	-2.7	1.518	79.5	0.85
R29	3.00	-0.721	0.0	0.651	132.5	6.50
R30	3.00	0.360	-2.7	1.952	243.8	3.22

Bldg. 9164


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Not to scale
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24
5
28
4
25
26
3
29
2
1
9
30

Bldg. 9164



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 2 SUBZONE: J

BUILDING: 9164 ROOM: ALL

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
R01 - R30	EAVES	25-Mar-97	133666	139659	6 dpm/100cm² (2 cpm)	20	36.20	909 dpm/100cm² (308 cpm)	194	33.88		100 cm²
R01 - R30	EAVES	25-Mar-97	131265								4.00	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 2 SUBZONE: J

BUILDING: 9164 ROOM: ALL

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
R01 - R30	01-May-97	1.419 dpm/100cm² (0.400 cpm)	3.657	28.2	3.174 dpm/100cm² (1.433 cpm)	3.786	45.2	
R01 - R30	27-Mar-97							13.30

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 2 SUBZONE: J

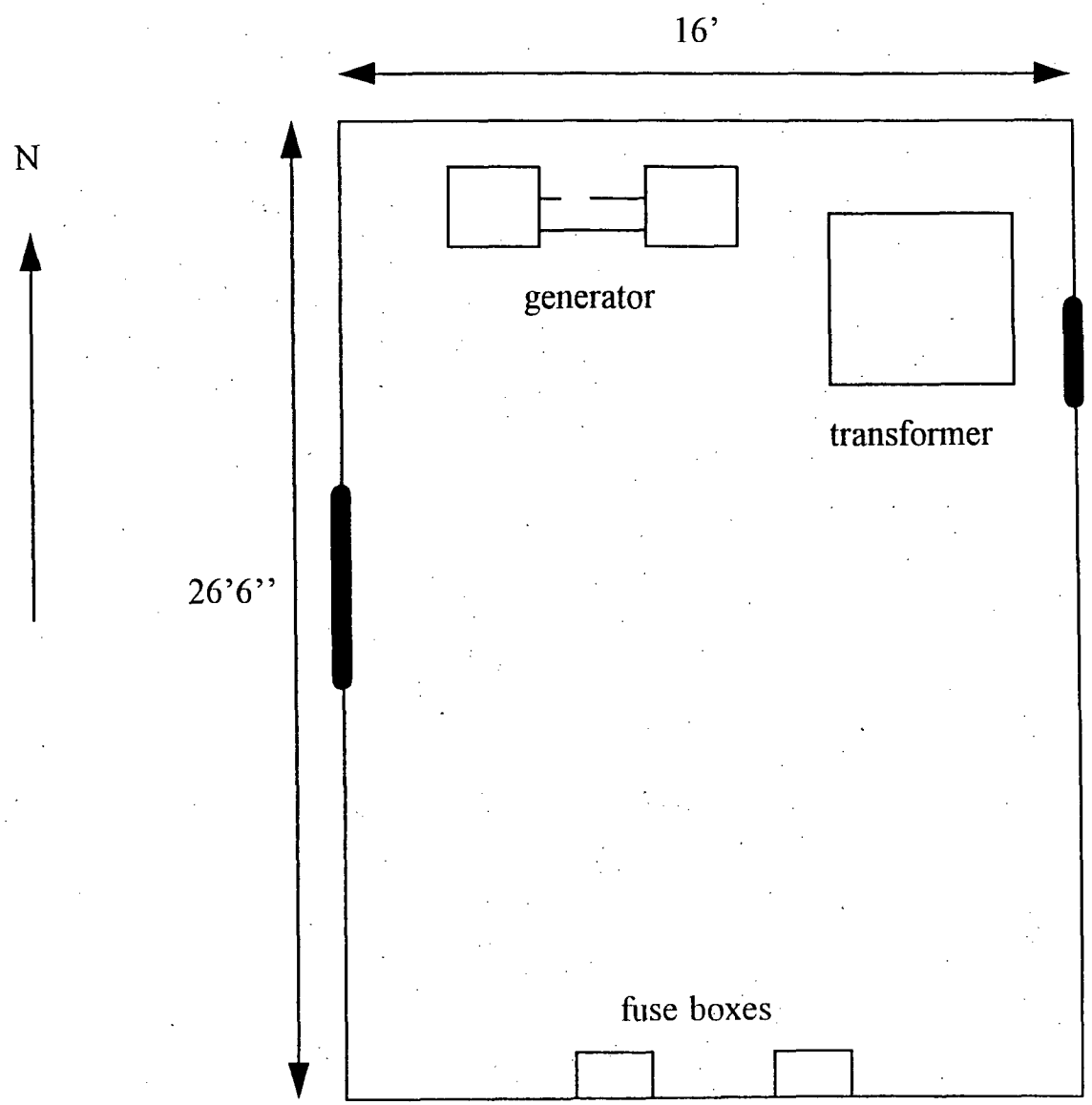
BUILDING: 9164 ROOM: ALL

All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

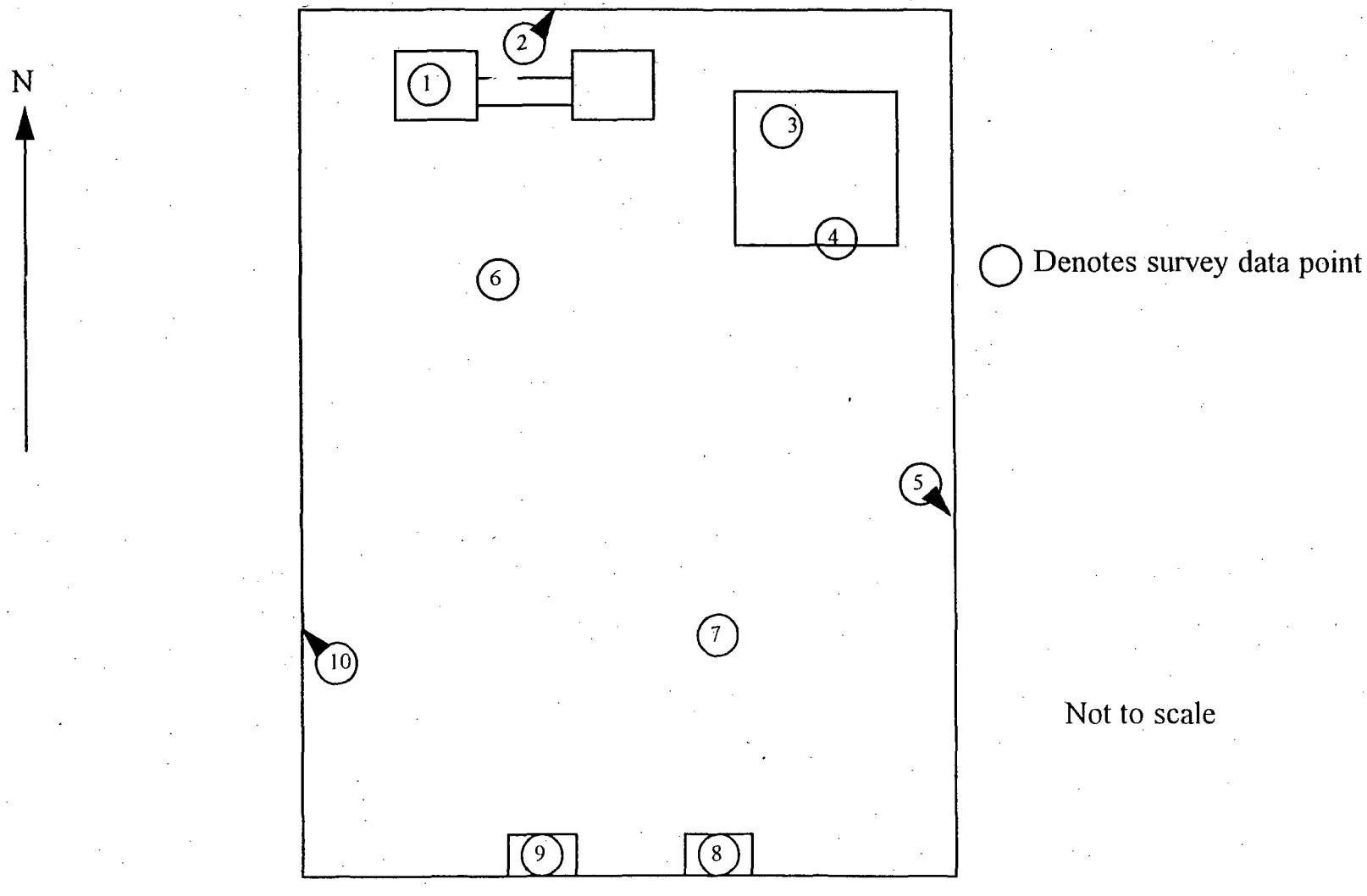
Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R01	1.00	-0.710	-5.5	1.919	-147.6	0.20
R02	0.00	-1.065	-5.5	2.141	-242.0	2.98
R03	2.00	-1.419	0.0	1.476	-247.9	-0.20
R04	2.00	0.000	-5.5	2.362	-242.0	4.21
R05	2.00	-0.710	-5.5	1.255	-307.0	5.27
R06	1.00	-1.065	2.8	-0.295	-380.8	10.83
R07	1.00	0.000	-5.5	1.698	-345.3	5.10
R08	2.00	-1.065	-2.8	-0.295	-345.3	10.06
R09	1.00	-0.355	-5.5	1.255	-177.1	1.01
R10	2.00	-0.355	-5.5	0.369	-416.2	2.08
R11	2.00	-1.065	-5.5	0.591	-289.3	-1.33
R12	2.00	-1.065	0.0	0.812	-398.5	9.31
R13	1.00	-1.419	-5.5	-1.403	-416.2	10.33
R14	1.00	-1.419	-2.8	0.591	-422.1	3.60
R15	1.00	-1.065	-5.5	1.476	-377.8	2.07
R16	0.00	0.710	-2.8	0.148	-298.1	7.38
R17	1.00	-1.419	-5.5	1.034	-345.3	5.85
R18	1.00	-1.419	-2.8	1.034	-259.7	0.63

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R19	1.00	-0.355	-5.5	-0.074	-339.4	2.08
R20	2.00	-0.355	0.0	-0.074	-345.3	3.15
R21	2.00	-0.710	0.0	0.369	-309.9	5.56
R22	2.00	0.000	-2.8	-0.517	-366.0	4.88
R23	2.00	-1.065	0.0	1.698	-138.7	3.02
R24	1.00	0.000	-5.5	1.698	-188.9	6.21
R25	1.00	-1.419	-5.5	-0.074	-197.8	20.95
R26	2.00	-1.065	-5.5	-0.738	-401.4	2.88
R27	1.00	-0.355	-2.8	-1.181	-357.1	5.12
R28	1.00	-1.065	-5.5	-0.517	-339.4	-0.19
R29	1.00	-1.419	-5.5	1.255	-363.0	4.71
R30	2.00	0.355	-5.5	0.591	-333.5	9.60

Bldg. 9306



Bldg. 9306



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 2 SUBZONE: F

BUILDING: 9306 ROOM: ALL

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
R01 - R10	GATES	05-Sep-97	133666	139659	2 dpm/100cm² (1 cpm)	15	42.06	1351 dpm/100cm² (277 cpm)	305	20.50		100 cm²
R01 - R10	GATES	05-Sep-97	00914	723415							4.00	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 2 SUBZONE: F

BUILDING: 9306 ROOM: ALL

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
R01 - R10	08-Sep-97	0.481 dpm/100cm² (0.133 cpm)	2.558	27.7	2.755 dpm/100cm² (1.267 cpm)	3.530	46.0	
R01 - R10	08-Sep-97							14.30

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

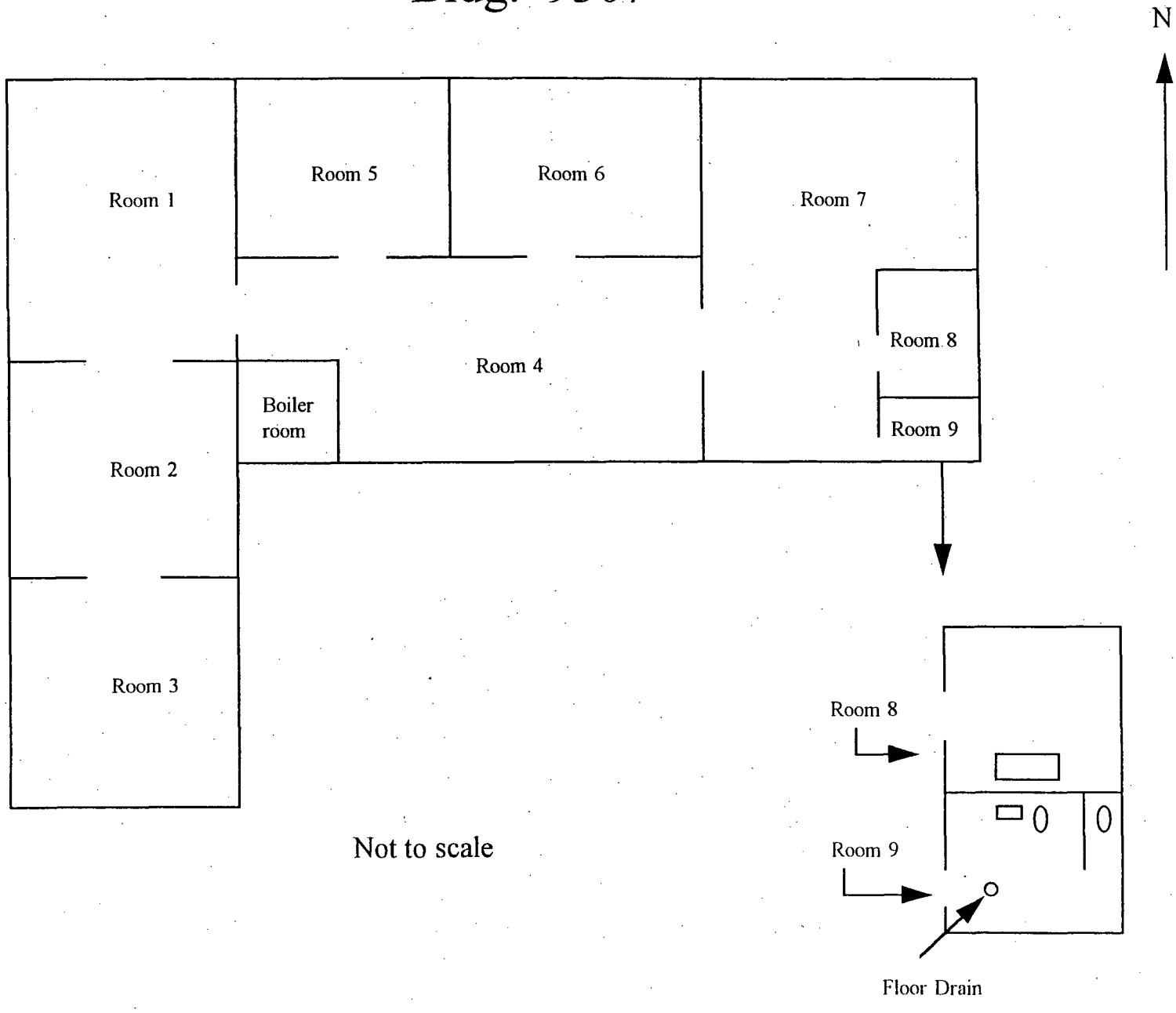
LOCATION

ZONE:	2	SUBZONE:	F
BUILDING:	9306	ROOM:	ALL

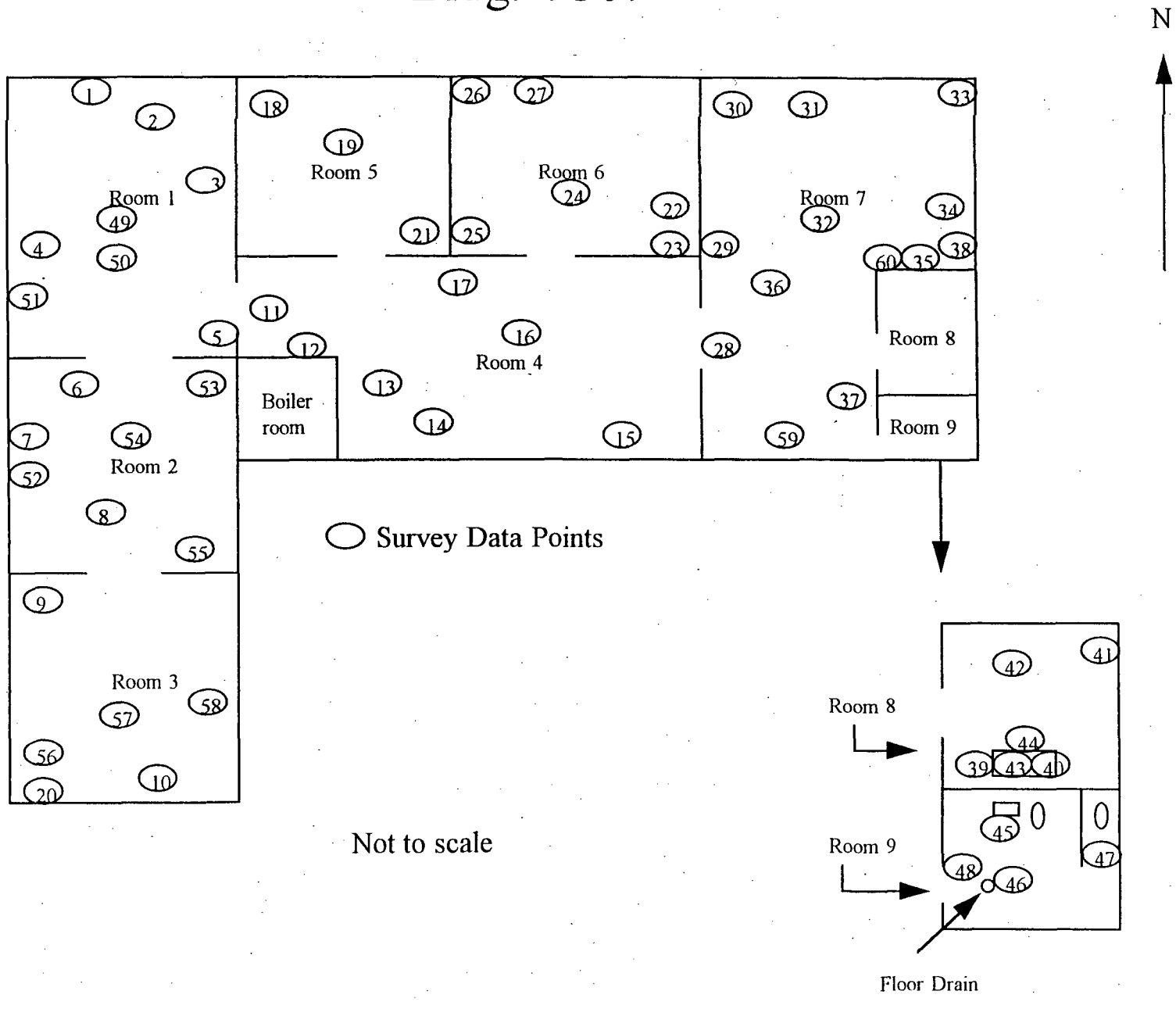
All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

	GAMMA	ALPHA		BETA		LSC
Grids	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R01	2.00	0.240	4.8	-0.145	-243.9	5.00
R02	2.00	0.962	0.0	3.552	-492.7	-36.61
R03	1.00	-0.481	2.4	0.725	-180.5	-52.75
R04	3.00	0.962	2.4	0.942	-580.5	-7.75
R05	2.00	-0.481	0.0	-0.145	-282.9	3.64
R06	3.00	0.240	4.8	0.507	-14.6	-32.73
R07	3.00	-0.120	7.1	-0.362	24.4	-24.12
R08	3.00	2.405	-2.4	0.942	-87.8	-32.87
R09	4.00	0.240	4.8	2.682	-146.3	-17.58
R10	2.00	-0.120	4.8	0.725	-326.8	-4.84

Bldg. 9307


N
Room 1
Room 5
Room 6
Room 7
Room 8
Room 4
Boiler room
Room 9
Room 2
Room 3
Not to scale
Room 8
Room 9
Floor Drain

Bldg. 9307


N
Room 1
Room 2
Room 3
Room 4
Room 5
Room 6
Room 7
Room 8
Room 9
Boiler room
Survey Data Points
Not to scale
Room 8
Room 9
Floor Drain

Bldg. 9307
Random locations

Room 1
Random 1 over north entrance
Random 2 on floor near N entrance
Random 3 on floor near east wall
Random 4 on the floor near the SW window
Random 5 on the vent near the floor
Room 2
Random 6 on the floor near NW doorway
Random 7 on wall near panels
Random 8 inside the cable tray
Room 3
Random 9 on floor in NW corner
Random 10 on the floor near near the roll door
Random 20 is over the doorway
Room 4
Random 11 on the floor near W doorway
Random 12 on the vent near the floor on the S wall
Random 13 on the floor near the west wall
Random 14 inside cable tray
Random 15 on the floor near the S wall
Random 16 on the floor in the middle of the wall
Random 17 on the floor near the N wall

Room 5
Random 18 is on the floor in the NW corner
Random 19 on the floor in the middle of the room
Random 21 is on the floor in the SW corner
Room 6
Random 22 on the tray in the SE corner
Random 23 is on the vent in the SE corner
Random 24 in the middle of the floor
Random 25 on the floor in the SW corner
Random 26 on wall near panels
Random 27 on the window sill
Room 7
Random 28 is on the floor near W doorway
Random 29 on the vent on the W wall
Random 30 on the floor in the NW corner
Random 31 on the floor near N wall
Random 32 on the floor in the middle of the floor
Random 33 on the wall in the NE corner
Random 34 on the floor near the E entrance
Random 35 on the floor near SE entrance
Random 36 on the floor in the middle
Random 37 is on the water fountain

Bldg. 9307
Random locations

Random 38 is over the E entrance
Room 8
Random 39 is in the sink
Random 40 is on the sink counter
Random 41 is in the NE corner on the floor
Random 42 is on the floor
Random 43 is on the shelf in the cabinet
Random 44 is on the cabinet door
Room 9
Random 45 is in the sink
Random 46 is on the floor drain
Random 47 is on the floor by the toilet
Random 48 is on the floor near the door
Room 1
Random 49 is on overhead vent
Random 50 is on floor
Random 51 is on west wall
Room 2
Random 52 on cable box on west wall
Random 53 on vent on north wall
Random 54 on floor
Random 55 on floor at south door
Room 3
Random 56 on floor near south door
Random 57 on floor in center of room
Random 58 on east wall
Room 7
Random 59 on south window sill
Random 60 on south east wall

08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

ZONE: 2 SUBZONE: F

BUILDING: 9307 ROOM: ALL

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
R01 - R60	EAVES	02-Dec-97	00921	579	14 dpm/100cm² (5 cpm)	35	36.91	1461 dpm/100cm² (240 cpm)	455	16.43		100 cm²
R01 - R60	GATES	14-Oct-97	00892	723412							4.05	N/A

LABORATORY TECHNICAL SUPPORT DATA

LOCATION

ZONE: 2 SUBZONE: F

BUILDING: 9307 ROOM: ALL

COUNTING LAB

GRIDS	PROCESSED DATE	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	LSC BKG (cpm)
R01 - R60	14-Oct-97	0.243 dpm/100cm² (0.067 cpm)	2.121	27.4	2.288 dpm/100cm² (1.067 cpm)	3.243	46.6	
R01 - R60	14-Oct-97							15.50

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

ZONE: 2 SUBZONE: F

BUILDING: 9307 ROOM: ALL

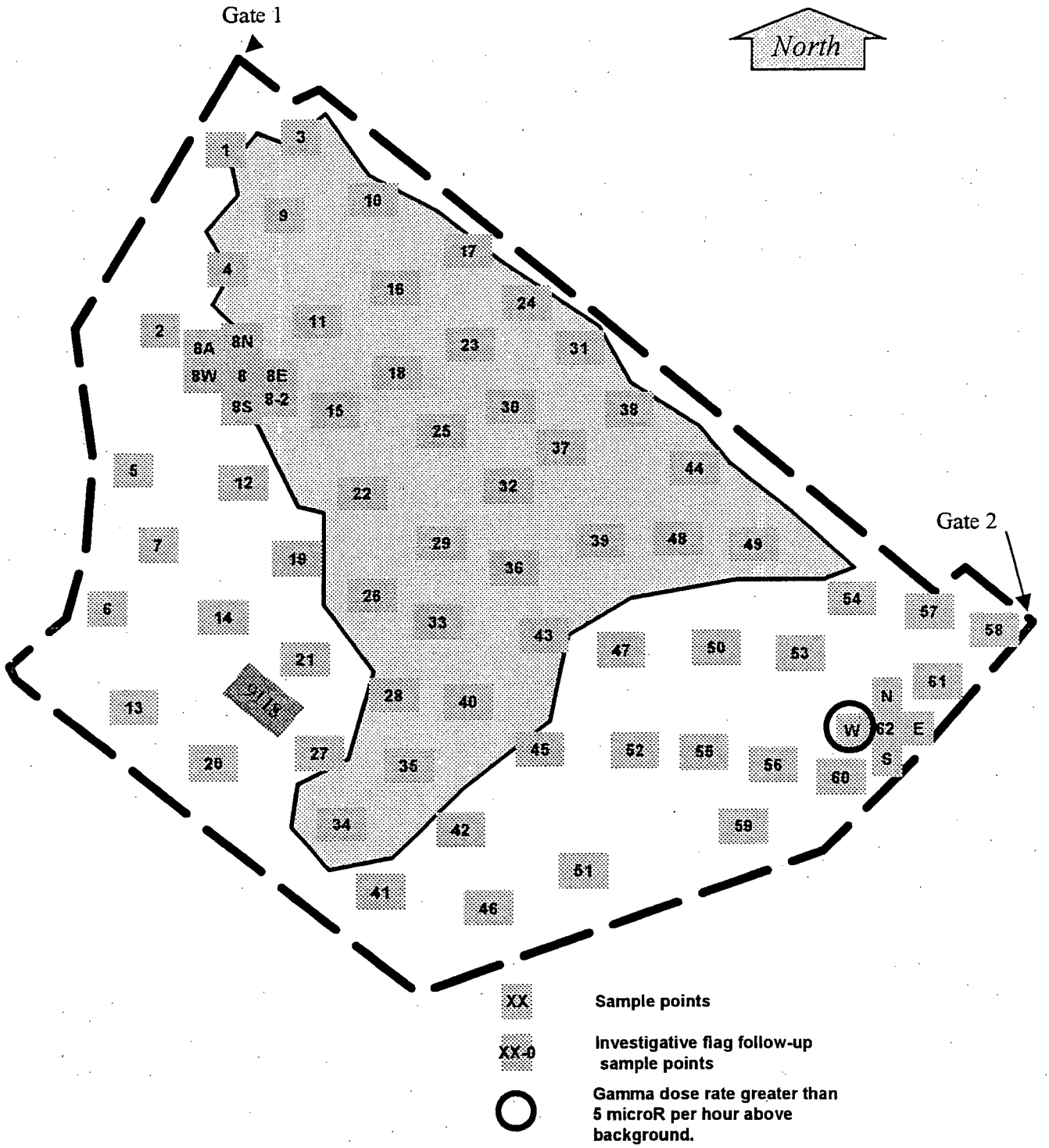
All data on this report is background corrected. Negative values in the report are calculated activities that were below measured background.

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R01	1.79	-0.243	-2.7	2.002	146.1	-1.49
R02	1.48	1.217	13.5	2.646	249.5	-3.22
R03	1.56	-0.243	-5.4	1.359	194.8	1.97
R04	2.06	0.487	0.0	2.431	182.6	-4.54
R05	0.31	-0.243	5.4	3.075	-85.2	-2.31
R06	1.37	0.122	-8.1	2.431	121.7	-0.64
R07	0.55	1.217	8.1	0.501	231.3	0.61
R08	1.60	0.122	8.1	0.715	614.7	-34.93
R09	1.87	-0.243	-2.7	1.788	48.7	-1.48
R10	1.53	1.217	8.1	0.501	-6.1	-2.29
R11	-0.58	0.487	-8.1	2.002	54.8	-10.18
R12	-0.56	-0.243	-5.4	0.930	109.6	-3.01
R13	-0.25	0.122	0.0	2.431	-12.2	-9.09
R14	0.44	0.852	-8.1	1.788	420.0	1.65
R15	-0.80	0.487	-2.7	0.072	-6.1	-5.68
R16	0.54	-0.243	2.7	1.359	0.0	-4.34
R17	0.23	0.122	0.0	0.286	42.6	-1.50
R18	0.70	0.487	0.0	1.788	97.4	2.84

Grids	GAMMA	ALPHA		BETA		LSC
	Field (μR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R19	0.76	0.122	-2.7	1.359	-182.6	-6.92
R20	1.99	0.487	8.1	0.930	48.7	-4.66
R21	-0.49	0.487	-8.1	0.930	127.8	-0.21
R22	-0.85	0.487	0.0	-0.358	-73.0	-0.21
R23	-0.53	0.487	-8.1	1.788	-103.5	-1.43
R24	0.74	0.122	2.7	2.431	-12.2	4.57
R25	0.02	0.487	-8.1	1.144	-12.2	1.88
R26	0.07	0.122	-5.4	1.144	140.0	0.60
R27	1.34	0.122	-8.1	1.359	115.6	0.60
R28	-0.10	0.487	0.0	0.715	18.3	-1.04
R29	0.60	-0.243	-2.7	2.217	-115.6	0.61
R30	-0.11	0.852	2.7	1.788	176.5	1.56
R31	1.12	0.852	0.0	0.715	-170.4	3.13
R32	1.32	0.487	-2.7	0.715	73.0	0.63
R33	0.44	-0.243	10.8	-0.358	-194.8	-3.99
R34	-0.23	1.582	-2.7	0.501	-67.0	1.86
R35	0.07	-0.243	-2.7	1.359	42.6	-3.88
R36	0.73	-0.243	-2.7	1.573	121.7	-1.05
R37	0.96	-0.243	5.4	1.144	115.6	3.92
R38	0.41	1.217	-5.4	0.715	-164.3	-0.62
R39	0.78	0.487	-5.4	1.144	-24.3	3.16
R40	-0.11	0.852	-2.7	2.646	-127.8	-6.42
R41	0.38	0.852	-5.4	1.359	-146.1	-5.74
R42	0.23	0.487	-2.7	1.144	54.8	4.52

Grids	GAMMA	ALPHA		BETA		LSC
	Field (µR/hr)	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²	Field dpm/100cm²	Lab dpm/100cm²
R43	-0.38	-0.243	0.0	2.431	-60.9	-4.36
R44	-0.61	0.122	-8.1	0.072	-60.9	-4.10
R45	0.69	0.852	-5.4	0.286	-292.1	2.27
R46	0.08	0.487	-5.4	1.573	103.5	6.89
R47	1.92	0.487	0.0	-0.787	36.5	0.63
R48	0.52	-0.243	0.0	1.359	-60.9	-1.05
R49	1.86	0.852	8.1	2.431	-18.3	-5.26
R50	1.24	0.487	-5.4	1.788	30.4	-1.96
R51	2.35	0.122	-8.1	2.217	194.8	4.23
R52	1.64	0.122	0.0	1.359	444.3	-0.66
R53	1.22	0.852	-2.7	0.501	-164.3	-7.62
R54	2.48	0.852	2.7	1.573	121.7	-1.17
R55	2.10	0.122	0.0	1.788	79.1	-11.17
R56	2.83	0.487	-8.1	1.573	206.9	-11.28
R57	0.63	0.487	-5.4	1.144	188.7	-4.41
R58	2.58	-0.243	5.4	0.286	0.0	7.46
R59	0.13	0.122	-2.7	2.860	-91.3	1.47
R60	0.70	0.852	-5.4	1.144	-334.8	0.61

Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone A



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

SOIL

ZONE: 2 SUBZONE: A

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
R01 - R40	SCHAEPPI	17-Jul-97	00951	723417							10	N/A
R41 - R62	SCHAEPPI	18-Jul-97	00951	723417							10	N/A
R08A - R08N	CONNOLLY	22-Dec-97	00914	723412							11	N/A
R62N - R62W	GATES	20-Jan-98	00916	723416							7	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION	SOIL
	ZONE: 2 SUBZONE: A

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
R01 - R40	1497	.01 - .52	
R41 - R62	1500	.01 - .30	
R08A - R08N	2313	.01 - .06	
R62N - R62W	2459	.01 - .04	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 2 SUBZONE: A

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
R01	1.00	2.958	0.781	7.325	0.515	Sum	1.012E+01
						CS-137	1.101E+00
						K-40	6.751E+00
						RA-226	1.091E+00
						TH-232	9.673E-01
						U-235	2.120E-01
R02	2.00	2.528	0.748	6.789	0.504	Sum	9.537E+00
						CS-137	8.076E-01
						K-40	5.841E+00
						RA-226	1.155E+00
						TH-232	1.599E+00
						U-235	1.339E-01
R03	0.00	4.796	0.449	4.774	0.406	Sum	4.855E+00
						CS-137	4.044E-01
						K-40	3.273E+00
						RA-226	5.781E-01
						TH-232	4.699E-01
						U-235	1.295E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R04	1.00	0.548	0.405	2.304	0.390	Sum	5.098E+00
						CS-137	2.274E-01
						K-40	3.514E+00
						RA-226	6.317E-01
						TH-232	6.292E-01
						U-235	9.565E-02
R05	3.00	4.421	0.818	7.499	0.521	Sum	1.253E+01
						CS-137	9.767E-01
						K-40	8.452E+00
						RA-226	1.382E+00
						TH-232	1.495E+00
						U-235	2.282E-01
R06	2.00	3.499	0.602	5.902	0.458	Sum	1.106E+01
						CS-137	9.176E-01
						K-40	7.954E+00
						RA-226	1.125E+00
						TH-232	9.555E-01
						U-235	1.046E-01
R07	3.00	2.688	0.796	5.665	0.515	Sum	1.147E+01
						CS-137	8.781E-01
						K-40	8.214E+00
						RA-226	1.028E+00
						TH-232	1.131E+00
						U-235	2.168E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R08		4.00	6.217	1.243	15.242	0.625	Sum	1.266E+01
							CS-137	3.250E+00
							K-40	6.305E+00
							RA-226	1.555E+00
							TH-232	1.399E+00
							U-235	1.469E-01
R08-2	2 ft depth		3.419	0.366	3.666	0.503	Sum	1.025E+01
							K-40	7.798E+00
							RA-226	9.543E-01
							TH-232	1.237E+00
							U-235	2.652E-01
R08A		0.00	1.356	0.501	8.165	0.574	Sum	1.463E+01
							CS-137	7.218E-01
							K-40	1.140E+01
							RA-226	9.874E-01
							TH-232	1.374E+00
							U-235	1.514E-01
R08E		0.12	2.426	0.340	4.784	0.489	Sum	1.190E+01
							CS-137	3.585E-01
							K-40	8.813E+00
							RA-226	1.276E+00
							TH-232	1.245E+00
							U-235	2.026E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R08N	0.50	2.569	0.401	6.139	0.523	Sum	1.206E+01
						CS-137	1.186E+00
						K-40	8.149E+00
						RA-226	1.023E+00
						TH-232	1.369E+00
						U-235	3.307E-01
R08S	0.00	2.354	0.368	6.276	0.504	Sum	1.149E+01
						CS-137	9.643E-01
						K-40	8.153E+00
						RA-226	1.202E+00
						TH-232	1.090E+00
						U-235	7.678E-02
R08W	0.17	0.714	0.362	4.277	0.501	Sum	1.362E+01
						CS-137	9.719E-01
						K-40	1.016E+01
						RA-226	7.851E-01
						TH-232	1.468E+00
						U-235	2.354E-01
R09	1.00	2.155	0.569	3.741	0.447	Sum	9.788E+00
						CS-137	4.795E-01
						K-40	7.363E+00
						RA-226	8.354E-01
						TH-232	9.594E-01
						U-235	1.508E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R10	0.00	1.123	0.437	5.099	0.401	Sum	7.328E+00
						CS-137	3.232E-01
						K-40	5.383E+00
						RA-226	7.484E-01
						TH-232	8.203E-01
						U-235	5.359E-02
R11	3.00	3.396	0.679	6.245	0.484	Sum	1.175E+01
						CS-137	9.997E-01
						K-40	8.431E+00
						RA-226	1.158E+00
						TH-232	1.052E+00
						U-235	1.121E-01
R12	3.00	1.595	0.621	5.839	0.467	Sum	1.343E+01
						CS-137	1.092E+00
						K-40	9.184E+00
						RA-226	1.674E+00
						TH-232	1.323E+00
						U-235	1.608E-01
R13	2.00	1.567	0.464	3.918	0.413	Sum	1.030E+01
						CS-137	6.902E-01
						K-40	7.242E+00
						RA-226	1.206E+00
						TH-232	1.013E+00
						U-235	1.494E-01

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
R14	4.00	3.249	0.775	5.525	0.511	Sum	1.409E+01
						CS-137	6.612E-01
						K-40	1.040E+01
						RA-226	1.293E+00
						TH-232	1.478E+00
						U-235	2.605E-01
R15	2.00	2.429	0.580	3.030	0.455	Sum	9.246E+00
						CS-137	5.730E-01
						K-40	6.446E+00
						RA-226	1.133E+00
						TH-232	9.514E-01
						U-235	1.421E-01
R16	2.00	2.569	0.760	8.632	0.506	Sum	1.229E+01
						CS-137	1.391E+00
						K-40	8.733E+00
						RA-226	1.206E+00
						TH-232	9.616E-01
R17	2.00	3.725	0.745	8.274	0.502	Sum	1.074E+01
						CS-137	1.152E+00
						K-40	7.512E+00
						RA-226	1.013E+00
						TH-232	9.473E-01
						U-235	1.165E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R18	3.00	2.579	0.615	6.343	0.465	Sum	1.011E+01
						CS-137	1.150E+00
						K-40	6.471E+00
						RA-226	1.258E+00
						TH-232	1.065E+00
						U-235	1.706E-01
R19	2.00	4.461	0.768	8.115	0.510	Sum	8.517E+00
						CS-137	1.276E+00
						K-40	5.544E+00
						RA-226	7.478E-01
						TH-232	8.130E-01
						U-235	1.362E-01
R20	4.00	3.471	0.694	6.228	0.490	Sum	1.319E+01
						K-40	9.861E+00
						RA-226	1.441E+00
						TH-232	1.610E+00
						U-235	2.792E-01
R21	1.00	4.888	0.786	5.363	0.514	Sum	1.116E+01
						CS-137	9.408E-01
						K-40	7.962E+00
						RA-226	1.167E+00
						TH-232	9.057E-01
						U-235	1.861E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R22	2.00	5.079	1.105	8.362	0.596	Sum	1.104E+01
						CS-137	9.218E-01
						K-40	6.945E+00
						RA-226	1.337E+00
						TH-232	1.587E+00
						U-235	2.513E-01
R23	2.00	6.100	0.645	6.557	0.474	Sum	1.123E+01
						CS-137	5.563E-01
						K-40	8.540E+00
						RA-226	9.631E-01
						TH-232	9.858E-01
						U-235	1.883E-01
R24	2.00	1.764	0.522	3.127	0.432	Sum	7.512E+00
						CS-137	2.749E-01
						K-40	5.157E+00
						RA-226	9.785E-01
						TH-232	9.951E-01
						U-235	1.069E-01
R25	2.00	1.862	0.551	4.883	0.444	Sum	1.049E+01
						CS-137	1.029E+00
						K-40	7.111E+00
						RA-226	7.730E-01
						TH-232	1.394E+00
						U-235	1.807E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R26	3.00	1.878	0.631	6.163	0.471	Sum	1.495E+01
						CS-137	9.909E-01
						K-40	1.092E+01
						RA-226	1.320E+00
						TH-232	1.454E+00
						U-235	2.607E-01
R27	3.00	3.338	0.726	5.843	0.497	Sum	1.286E+01
						CS-137	1.190E+00
						K-40	8.815E+00
						RA-226	1.415E+00
						TH-232	1.264E+00
						U-235	1.797E-01
R28	4.00	4.231	0.681	6.525	0.485	Sum	1.212E+01
						CS-137	5.932E-01
						K-40	8.541E+00
						RA-226	1.305E+00
						TH-232	1.439E+00
						U-235	2.436E-01
R29	4.00	3.228	0.702	6.446	0.493	Sum	1.273E+01
						CS-137	7.858E-01
						K-40	8.474E+00
						RA-226	1.473E+00
						TH-232	1.561E+00
						U-235	4.344E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R30	1.00	1.809	0.478	4.665	0.417	Sum	1.315E+01
						CS-137	9.842E-01
						K-40	9.668E+00
						RA-226	1.073E+00
						TH-232	1.278E+00
						U-235	1.481E-01
R31	1.00	3.453	0.639	5.802	0.471	Sum	1.266E+01
						CS-137	6.992E-01
						K-40	9.535E+00
						RA-226	1.291E+00
						TH-232	1.037E+00
						U-235	9.893E-02
R32	2.00	0.649	0.480	5.083	0.419	Sum	9.572E+00
						CS-137	9.812E-01
						K-40	6.525E+00
						RA-226	9.866E-01
						TH-232	9.644E-01
						U-235	1.148E-01
R33	3.00	3.107	0.575	3.862	0.452	Sum	1.353E+01
						CS-137	4.807E-01
						K-40	9.369E+00
						RA-226	1.578E+00
						TH-232	1.724E+00
						U-235	3.795E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R34	3.00	1.675	0.652	5.675	0.475	Sum	1.242E+01
						CS-137	6.290E-01
						K-40	8.860E+00
						RA-226	1.236E+00
						TH-232	1.493E+00
						U-235	2.025E-01
R35	4.00	4.679	0.753	5.376	0.506	Sum	1.057E+01
						CS-137	4.656E-01
						K-40	6.748E+00
						RA-226	1.337E+00
						TH-232	1.750E+00
						U-235	2.731E-01
R36	2.00	2.571	0.559	5.403	0.445	Sum	9.715E+00
						CS-137	4.905E-01
						K-40	6.676E+00
						RA-226	1.252E+00
						TH-232	1.297E+00
R37	1.00	1.317	0.443	2.774	0.405	Sum	7.257E+00
						CS-137	5.018E-01
						K-40	5.015E+00
						RA-226	5.831E-01
						TH-232	1.043E+00
						U-235	1.141E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R38	3.00	2.795	0.608	5.192	0.464	Sum	1.245E+01
						CS-137	7.267E-01
						K-40	9.568E+00
						RA-226	1.033E+00
						TH-232	1.062E+00
						U-235	6.258E-02
R39	3.00	4.453	0.540	3.357	0.441	Sum	1.184E+01
						CS-137	4.665E-01
						K-40	8.531E+00
						RA-226	1.535E+00
						TH-232	1.180E+00
						U-235	1.289E-01
R40	2.00	2.300	0.460	3.197	0.410	Sum	8.777E+00
						CS-137	5.979E-01
						K-40	5.986E+00
						RA-226	1.058E+00
						TH-232	9.195E-01
						U-235	2.161E-01
R41	0.00	0.793	0.422	3.177	0.371	Sum	6.747E+00
						CS-137	5.633E-01
						K-40	4.745E+00
						RA-226	4.546E-01
						TH-232	8.437E-01
						U-235	1.401E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R42	2.00	1.679	0.406	3.326	0.364	Sum	8.760E+00
						CS-137	3.780E-01
						K-40	6.458E+00
						RA-226	1.013E+00
						TH-232	7.767E-01
						U-235	1.341E-01
R43	2.00	2.508	0.444	4.120	0.379	Sum	9.351E+00
						CS-137	4.230E-01
						K-40	5.840E+00
						RA-226	1.307E+00
						TH-232	1.589E+00
						U-235	1.923E-01
R44	4.00	2.784	0.435	4.144	0.375	Sum	1.068E+01
						CS-137	4.186E-01
						K-40	7.507E+00
						RA-226	1.166E+00
						TH-232	1.411E+00
						U-235	1.813E-01
R45	2.00	2.251	0.748	5.294	0.471	Sum	5.476E+00
						CS-137	4.772E-01
						K-40	3.048E+00
						RA-226	7.980E-01
						TH-232	1.002E+00
						U-235	1.509E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R46	1.00	1.202	0.355	2.300	0.346	Sum	7.903E+00
						CS-137	3.295E-01
						K-40	6.002E+00
						RA-226	6.617E-01
						TH-232	8.393E-01
						U-235	7.011E-02
R47	2.00	3.189	0.499	4.782	0.398	Sum	7.865E+00
						CS-137	4.120E-01
						K-40	5.519E+00
						RA-226	8.498E-01
						TH-232	9.757E-01
						U-235	1.086E-01
R48	2.00	2.357	0.392	3.620	0.358	Sum	9.763E+00
						CS-137	5.863E-01
						K-40	6.900E+00
						RA-226	1.028E+00
						TH-232	1.085E+00
						U-235	1.641E-01
R49	3.00	4.133	0.407	5.441	0.365	Sum	1.311E+01
						CS-137	3.152E-01
						K-40	9.535E+00
						RA-226	1.558E+00
						TH-232	1.317E+00
						U-235	3.886E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R50	3.00	1.326	0.504	4.342	0.400	Sum	9.322E+00
						CS-137	4.260E-01
						K-40	6.505E+00
						RA-226	1.203E+00
						TH-232	9.651E-01
						U-235	2.234E-01
R51	0.00	0.902	0.479	4.703	0.391	Sum	7.120E+00
						CS-137	4.772E-01
						K-40	5.000E+00
						RA-226	8.371E-01
						TH-232	7.293E-01
						U-235	7.595E-02
R52	1.00	2.807	0.533	5.608	0.408	Sum	7.912E+00
						CS-137	6.345E-01
						K-40	5.096E+00
						RA-226	1.121E+00
						TH-232	8.855E-01
						U-235	1.745E-01
R53	0.00	1.779	0.591	4.713	0.426	Sum	1.080E+01
						CS-137	4.836E-01
						K-40	7.413E+00
						RA-226	1.045E+00
						TH-232	1.446E+00
						U-235	4.095E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R54	3.00	2.367	0.787	5.039	0.481	Sum	1.050E+01
						CS-137	6.591E-01
						K-40	7.285E+00
						RA-226	1.261E+00
						TH-232	1.086E+00
						U-235	2.051E-01
R55	2.00	0.542	0.480	4.269	0.393	Sum	4.125E+00
						CS-137	4.094E-01
						K-40	6.824E-01
						RA-226	1.022E+00
						TH-232	1.180E+00
						U-235	8.311E-01
R56	1.00	3.295	0.487	4.054	0.394	Sum	8.914E+00
						CS-137	3.574E-01
						K-40	6.422E+00
						RA-226	9.695E-01
						TH-232	1.047E+00
						U-235	1.184E-01
R57	3.00	2.745	0.730	3.922	0.468	Sum	1.328E+01
						CS-137	4.563E-01
						K-40	9.662E+00
						RA-226	1.535E+00
						TH-232	1.290E+00
						U-235	3.372E-01

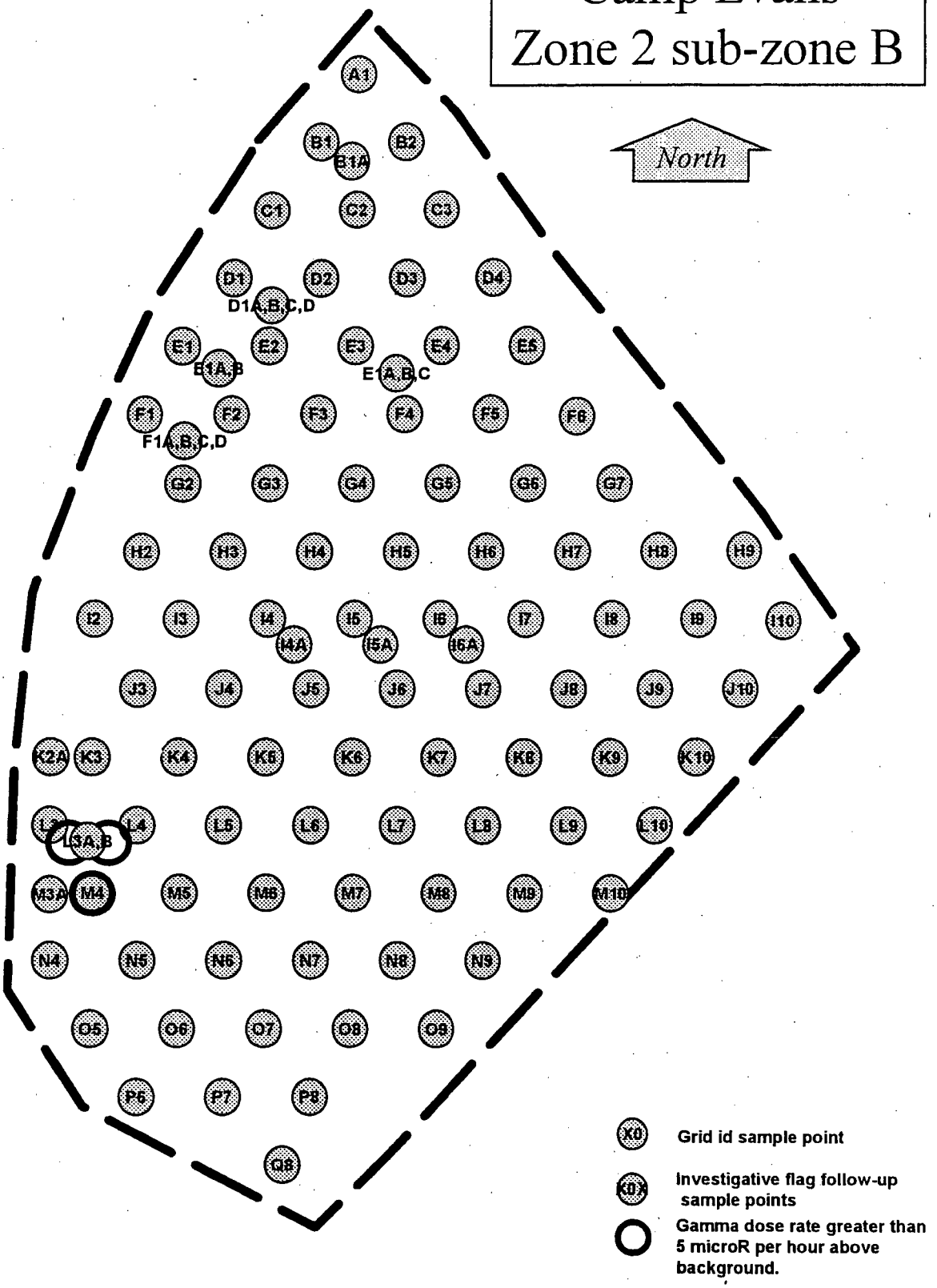
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R58	1.00	0.706	0.625	5.245	0.437	Sum	8.311E+00
						CS-137	5.972E-01
						K-40	5.416E+00
						RA-226	1.032E+00
						TH-232	1.266E+00
R59	1.00	0.961	0.511	3.894	0.401	Sum	7.665E+00
						CS-137	3.377E-01
						K-40	5.070E+00
						RA-226	1.174E+00
						TH-232	8.579E-01
						U-235	2.256E-01
R60	2.00	1.783	0.677	4.644	0.451	Sum	1.231E+01
						CS-137	4.857E-01
						K-40	9.261E+00
						RA-226	1.150E+00
						TH-232	1.237E+00
						U-235	1.750E-01
R61	1.00	1.992	0.662	4.857	0.447	Sum	9.226E+00
						CS-137	4.580E-01
						K-40	5.937E+00
						RA-226	1.269E+00
						TH-232	1.168E+00
						U-235	3.939E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
R62	1.00	2.515	1.114	10.374	0.560	Sum	1.317E+01
						CS-137	1.148E+00
						K-40	9.718E+00
						RA-226	1.136E+00
						TH-232	8.704E-01
						U-235	2.992E-01
R62E	3.00	1.879	0.635	5.287	0.562	Sum	9.399E+00
						CS-137	6.140E-01
						K-40	7.258E+00
						RA-226	6.552E-01
						TH-232	7.724E-01
						U-235	9.974E-02
R62N	4.00	3.262	0.848	7.400	0.635	Sum	1.299E+01
						CS-137	1.020E+00
						K-40	9.912E+00
						RA-226	9.317E-01
						TH-232	9.523E-01
						U-235	1.731E-01
R62S	3.00	2.161	0.731	8.754	0.600	Sum	1.113E+01
						CS-137	9.940E-01
						K-40	8.395E+00
						RA-226	7.180E-01
						TH-232	8.794E-01
						U-235	1.465E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R62W	7.00	2.382	0.619	5.068	0.559	Sum	1.180E+01
						CS-137	9.424E-01
						K-40	9.000E+00
						RA-226	7.105E-01
						TH-232	9.832E-01
						U-235	1.644E-01

		Alpha		Beta		Gamma (Sum)
Minimum	0	0.542	0.340	2.300	0.346	4.125E+00
Maximum	7	6.217	1.243	15.242	0.635	1.495E+01
Average	2	2.615	0.605	5.442	0.464	1.050E+01

Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone B



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

SOIL

ZONE: 2 SUBZONE: B

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
A01 - H04	SCHAEPPI	25-Jun-97	00926	723416							10	N/A
H05 - M05	SCHAEPPI	26-Jun-97	00926	723416							10	N/A
K02A - Q08	SCHAEPPI	27-Jun-97	00926	723416							10	N/A
B01A - M03A	SCHAEPPI	29-Jul-97	00926	723416							10	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION

SOIL

ZONE: 2 SUBZONE: B

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
A01 - H04	1440	.01 - .38	
H05 - M05	1446	.01 - .52	
K02A - Q08	1453	.01 - .29	
B01A - M03A	1569	.01 - .24	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 2 SUBZONE: B

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
A01	2.00	3.060	0.440	4.691	0.445	Sum	9.092E+00
						CS-137	1.268E+00
						K-40	5.700E+00
						RA-226	9.875E-01
						TH-232	1.023E+00
						U-235	1.131E-01
B01	3.00	2.455	0.572	4.830	0.497	Sum	1.121E+01
						CS-137	9.731E-01
						K-40	7.472E+00
						RA-226	1.175E+00
						TH-232	1.449E+00
						U-235	1.446E-01
B01A	2.00	2.907	0.407	3.930	0.526	Sum	1.041E+01
						CS-137	7.307E-01
						K-40	7.195E+00
						RA-226	1.057E+00
						TH-232	1.218E+00
						U-235	2.140E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B02	2.00	2.982	0.530	4.202	0.482	Sum	1.119E+01
						CS-137	9.242E-01
						K-40	7.017E+00
						RA-226	1.209E+00
						TH-232	1.255E+00
						U-235	7.844E-01
C01	1.00	3.413	0.607	4.461	0.511	Sum	1.066E+01
						CS-137	8.851E-01
						K-40	7.498E+00
						RA-226	1.059E+00
						TH-232	1.009E+00
						U-235	2.095E-01
C02	2.00	3.364	0.555	3.241	0.492	Sum	5.972E+00
						CS-137	9.269E-01
						K-40	3.738E+00
						RA-226	5.912E-01
						TH-232	6.042E-01
						U-235	1.114E-01
C03	1.00	0.629	0.532	5.079	0.482	Sum	9.970E+00
						CS-137	1.224E+00
						K-40	6.582E+00
						RA-226	1.110E+00
						TH-232	9.255E-01
						U-235	1.281E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D01	3.00	3.593	0.458	3.449	0.455	Sum	1.050E+01
						CS-137	8.048E-01
						K-40	7.141E+00
						RA-226	1.119E+00
						TH-232	1.278E+00
						U-235	1.534E-01
D01A	2.00	2.936	0.341	5.123	0.488	Sum	1.001E+01
						CS-137	4.884E-01
						K-40	7.182E+00
						RA-226	1.083E+00
						TH-232	1.095E+00
						U-235	1.600E-01
D01B	2.00	2.277	0.356	4.231	0.496	Sum	1.048E+01
						CS-137	4.884E-01
						K-40	7.247E+00
						RA-226	1.233E+00
						TH-232	1.328E+00
						U-235	1.883E-01
D01C	2.00	1.642	0.333	3.603	0.482	Sum	9.641E+00
						CS-137	6.880E-01
						K-40	6.867E+00
						RA-226	1.048E+00
						TH-232	8.973E-01
						U-235	1.404E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D01D	2.00	1.422	0.413	6.701	0.531	Sum	1.131E+01
						CS-137	5.614E-01
						K-40	8.189E+00
						RA-226	1.117E+00
						TH-232	1.179E+00
						U-235	2.604E-01
D02	3.00	2.729	0.527	3.005	0.480	Sum	1.098E+01
						CS-137	7.258E-01
						K-40	7.630E+00
						RA-226	1.276E+00
						TH-232	1.217E+00
						U-235	1.309E-01
D03	3.00	2.405	0.561	3.977	0.493	Sum	1.208E+01
						CS-137	8.627E-01
						K-40	8.565E+00
						RA-226	1.300E+00
						TH-232	1.152E+00
						U-235	1.980E-01
D04	2.00	1.852	0.544	4.328	0.487	Sum	1.233E+01
						CS-137	1.104E+00
						K-40	8.799E+00
						RA-226	1.138E+00
						TH-232	1.143E+00
						U-235	1.433E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E01	2.00	2.998	0.494	5.326	0.469	Sum	8.499E+00
						CS-137	1.071E+00
						K-40	5.412E+00
						RA-226	9.455E-01
						TH-232	9.331E-01
						U-235	1.376E-01
E01A	3.00	3.648	0.511	6.692	0.579	Sum	1.128E+01
						CS-137	1.106E+00
						K-40	7.629E+00
						RA-226	1.096E+00
						TH-232	1.273E+00
						U-235	1.735E-01
E01B	3.00	3.289	0.461	5.618	0.554	Sum	1.140E+01
						CS-137	7.708E-01
						K-40	7.938E+00
						RA-226	1.205E+00
						TH-232	1.305E+00
						U-235	1.807E-01
E02	3.00	2.056	0.479	4.331	0.461	Sum	1.138E+01
						CS-137	7.950E-01
						K-40	8.197E+00
						RA-226	1.117E+00
						TH-232	1.164E+00
						U-235	1.070E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E03	3.00	1.563	0.622	4.322	0.515	Sum	1.218E+01
						CS-137	7.686E-01
						K-40	9.040E+00
						RA-226	1.105E+00
						TH-232	1.122E+00
						U-235	1.398E-01
E03A	3.00	3.469	0.227	3.870	0.411	Sum	1.149E+01
						CS-137	5.705E-01
						K-40	8.070E+00
						RA-226	1.291E+00
						TH-232	1.333E+00
						U-235	2.280E-01
E03B	3.00	5.647	0.459	4.905	0.552	Sum	1.165E+01
						CS-137	4.810E-01
						K-40	8.440E+00
						RA-226	1.207E+00
						TH-232	1.294E+00
						U-235	2.303E-01
E03C	2.00	2.340	0.475	5.007	0.563	Sum	1.163E+01
						CS-137	5.365E-01
						K-40	8.471E+00
						RA-226	1.264E+00
						TH-232	1.216E+00
						U-235	1.445E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E04	3.00	2.947	0.687	4.698	0.538	Sum	1.107E+01
						CS-137	4.348E-01
						K-40	8.362E+00
						RA-226	1.048E+00
						TH-232	1.046E+00
						U-235	1.842E-01
E05	2.00	2.566	0.598	5.754	0.507	Sum	1.123E+01
						CS-137	1.364E+00
						K-40	7.391E+00
						RA-226	1.242E+00
						TH-232	1.107E+00
						U-235	1.274E-01
F01	-1.00	0.949	0.321	1.743	0.392	Sum	6.069E+00
						CS-137	6.546E-01
						K-40	3.908E+00
						RA-226	5.810E-01
						TH-232	6.830E-01
						U-235	2.427E-01
F01A	4.00	1.540	0.447	4.671	0.547	Sum	1.278E+01
						CS-137	2.654E-01
						K-40	9.800E+00
						RA-226	1.198E+00
						TH-232	1.141E+00
						U-235	3.758E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F01B	2.00	5.402	0.467	5.965	0.559	Sum	1.115E+01
						CS-137	4.425E-01
						K-40	8.179E+00
						RA-226	1.344E+00
						TH-232	1.158E+00
						U-235	2.929E-02
F01C	2.00	3.188	0.447	6.421	0.547	Sum	1.221E+01
						CS-137	4.815E-01
						K-40	9.103E+00
						RA-226	1.295E+00
						TH-232	1.125E+00
						U-235	2.038E-01
F01D	2.00	3.837	0.410	5.896	0.526	Sum	1.165E+01
						CS-137	3.251E-01
						K-40	8.541E+00
						RA-226	1.332E+00
						TH-232	1.237E+00
						U-235	2.100E-01
F02	2.00	3.513	0.625	5.878	0.517	Sum	1.136E+01
						CS-137	7.439E-01
						K-40	8.130E+00
						RA-226	1.079E+00
						TH-232	1.265E+00
						U-235	1.451E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F03	3.00	2.231	0.580	4.458	0.501	Sum	1.110E+01
						CS-137	8.007E-01
						K-40	7.869E+00
						RA-226	1.084E+00
						TH-232	1.181E+00
						U-235	1.676E-01
F04	3.00	4.067	0.671	5.075	0.531	Sum	1.342E+01
						CS-137	6.372E-01
						K-40	9.963E+00
						RA-226	1.308E+00
						TH-232	1.358E+00
						U-235	1.539E-01
F05	3.00	3.769	0.670	4.387	0.533	Sum	1.220E+01
						CS-137	5.718E-01
						K-40	8.906E+00
						RA-226	1.232E+00
						TH-232	1.303E+00
						U-235	1.822E-01
F06	2.00	1.708	0.679	4.223	0.534	Sum	1.185E+01
						CS-137	8.842E-01
						K-40	8.413E+00
						RA-226	1.304E+00
						TH-232	1.135E+00
						U-235	1.160E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
G02	2.00	2.112	0.621	4.927	0.516	Sum	1.282E+01
						CS-137	7.685E-01
						K-40	9.239E+00
						RA-226	1.285E+00
						TH-232	1.367E+00
						U-235	1.563E-01
G03	2.00	3.568	0.754	5.531	0.560	Sum	1.423E+01
						CS-137	6.992E-01
						K-40	1.099E+01
						RA-226	1.241E+00
						TH-232	1.067E+00
						U-235	2.286E-01
G04	2.00	1.423	0.566	4.166	0.496	Sum	1.179E+01
						CS-137	8.507E-01
						K-40	8.236E+00
						RA-226	1.183E+00
						TH-232	1.339E+00
						U-235	1.801E-01
G05	1.00	1.508	0.510	4.613	0.475	Sum	1.075E+01
						CS-137	1.043E+00
						K-40	7.261E+00
						RA-226	1.160E+00
						TH-232	1.157E+00
						U-235	1.317E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G06	2.00	2.370	0.501	3.404	0.470	Sum	1.150E+01
						CS-137	8.369E-01
						K-40	8.212E+00
						RA-226	1.202E+00
						TH-232	1.119E+00
						U-235	1.314E-01
G07	3.00	4.324	0.622	5.934	0.515	Sum	1.154E+01
						CS-137	9.636E-01
						K-40	7.788E+00
						RA-226	1.322E+00
						TH-232	1.152E+00
						U-235	3.164E-01
H02	2.00	0.845	0.714	5.857	0.547	Sum	1.210E+01
						CS-137	9.437E-01
						K-40	9.049E+00
						RA-226	9.274E-01
						TH-232	1.036E+00
						U-235	1.435E-01
H03	3.00	2.083	0.612	5.844	0.514	Sum	1.100E+01
						CS-137	9.105E-01
						K-40	8.070E+00
						RA-226	9.986E-01
						TH-232	8.980E-01
						U-235	1.277E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H04	4.00	2.264	0.528	3.809	0.482	Sum	1.324E+01
						CS-137	6.412E-01
						K-40	9.966E+00
						RA-226	1.315E+00
						TH-232	1.131E+00
						U-235	1.911E-01
H05	3.00	4.237	0.947	7.314	0.597	Sum	1.272E+01
						CS-137	9.642E-01
						K-40	9.234E+00
						RA-226	1.181E+00
						TH-232	1.165E+00
						U-235	1.786E-01
H06	3.00	4.426	0.810	8.507	0.558	Sum	1.333E+01
						CS-137	1.422E+00
						K-40	9.073E+00
						RA-226	1.260E+00
						TH-232	1.372E+00
						U-235	2.019E-01
H07	2.00	2.880	0.580	6.490	0.485	Sum	8.944E+00
						CS-137	6.862E-01
						K-40	5.420E+00
						RA-226	1.229E+00
						TH-232	1.455E+00
						U-235	1.540E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H08	3.00	8.181	0.867	10.995	0.575	Sum	1.478E+01
						CS-137	2.017E+00
						K-40	9.856E+00
						RA-226	1.144E+00
						TH-232	1.514E+00
						U-235	2.511E-01
H09	-1.00	1.776	0.298	2.793	0.367	Sum	6.193E+00
						CS-137	7.748E-01
						K-40	3.414E+00
						RA-226	8.816E-01
						TH-232	1.023E+00
						U-235	9.957E-02
I02	0.00	1.641	0.472	4.299	0.445	Sum	6.896E+00
						CS-137	5.019E-01
						K-40	4.825E+00
						RA-226	7.145E-01
						TH-232	7.117E-01
						U-235	1.434E-01
I03	2.00	2.779	0.509	4.692	0.459	Sum	1.333E+01
						CS-137	5.860E-01
						K-40	1.054E+01
						RA-226	8.579E-01
						TH-232	1.161E+00
						U-235	1.899E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I04	3.00	2.991	0.502	4.410	0.457	Sum	1.149E+01
						CS-137	5.800E-01
						K-40	8.138E+00
						RA-226	1.381E+00
						TH-232	1.250E+00
						U-235	1.388E-01
I04A	3.00	3.642	0.462	6.890	0.553	Sum	1.109E+01
						CS-137	3.103E-01
						K-40	8.608E+00
						RA-226	1.082E+00
						TH-232	9.363E-01
						U-235	1.493E-01
I05	4.00	2.618	0.585	5.159	0.487	Sum	1.210E+01
						CS-137	5.441E-01
						K-40	8.982E+00
						RA-226	1.049E+00
						TH-232	1.441E+00
						U-235	8.510E-02
I05A	3.00	4.114	0.440	4.156	0.544	Sum	1.106E+01
						CS-137	2.486E-01
						K-40	8.161E+00
						RA-226	1.197E+00
						TH-232	1.252E+00
						U-235	1.990E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I06	3.00	1.147	0.577	5.488	0.484	Sum	1.047E+01
						CS-137	4.098E-01
						K-40	7.272E+00
						RA-226	1.279E+00
						TH-232	1.357E+00
						U-235	1.529E-01
I06A	2.00	2.489	0.595	5.362	0.615	Sum	1.262E+01
						CS-137	1.884E-01
						K-40	9.671E+00
						RA-226	1.282E+00
						TH-232	1.275E+00
						U-235	2.047E-01
I07	2.00	1.219	0.409	3.114	0.419	Sum	9.636E+00
						CS-137	1.596E-01
						K-40	7.605E+00
						RA-226	6.600E-01
						TH-232	1.060E+00
						U-235	1.513E-01
I08	2.00	1.695	0.426	2.931	0.426	Sum	1.153E+01
						CS-137	4.174E-01
						K-40	8.870E+00
						RA-226	1.144E+00
						TH-232	9.687E-01
						U-235	1.342E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I09	3.00	2.638	0.590	4.813	0.489	Sum	9.311E+00
						CS-137	4.338E-01
						K-40	6.376E+00
						RA-226	1.066E+00
						TH-232	1.309E+00
						U-235	1.259E-01
I10	0.00	1.959	0.493	2.694	0.453	Sum	7.926E+00
						CS-137	3.980E-01
						K-40	4.981E+00
						RA-226	1.245E+00
						TH-232	1.145E+00
						U-235	1.569E-01
J03	2.00	4.753	0.683	6.086	0.520	Sum	1.056E+01
						CS-137	4.561E-01
						K-40	7.246E+00
						RA-226	1.260E+00
						TH-232	1.435E+00
						U-235	1.669E-01
J04	3.00	2.698	0.453	2.843	0.437	Sum	1.224E+01
						CS-137	5.709E-01
						K-40	9.199E+00
						RA-226	1.063E+00
						TH-232	1.245E+00
						U-235	1.615E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J05	2.00	3.654	0.613	5.721	0.497	Sum	1.053E+01
						CS-137	7.856E-01
						K-40	7.345E+00
						RA-226	1.182E+00
						TH-232	1.028E+00
						U-235	1.939E-01
J06	2.00	2.414	0.607	4.228	0.495	Sum	1.020E+01
						CS-137	6.314E-01
						K-40	7.108E+00
						RA-226	1.087E+00
						TH-232	1.210E+00
						U-235	1.597E-01
J07	2.00	3.429	0.690	7.372	0.522	Sum	1.231E+01
						CS-137	9.743E-01
						K-40	9.105E+00
						RA-226	8.902E-01
						TH-232	1.063E+00
						U-235	2.739E-01
J08	2.00	5.527	0.585	5.250	0.487	Sum	1.321E+01
						CS-137	7.071E-01
						K-40	9.529E+00
						RA-226	1.458E+00
						TH-232	1.424E+00
						U-235	9.159E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J09	2.00	3.590	0.482	5.003	0.449	Sum	1.044E+01
						CS-137	9.733E-01
						K-40	6.681E+00
						RA-226	1.145E+00
						TH-232	1.486E+00
						U-235	1.567E-01
J10	1.00	1.616	0.361	3.326	0.398	Sum	7.464E+00
						CS-137	3.574E-01
						K-40	5.515E+00
						RA-226	8.301E-01
						TH-232	6.336E-01
						U-235	1.284E-01
K02A	2.00	0.356	0.376	1.751	0.394	Sum	1.013E+01
						CS-137	3.741E-01
						K-40	6.532E+00
						RA-226	1.449E+00
						TH-232	1.487E+00
						U-235	2.891E-01
K03	3.00	1.707	0.286	2.345	0.361	Sum	1.298E+01
						CS-137	4.869E-01
						K-40	8.425E+00
						RA-226	1.726E+00
						TH-232	2.059E+00
						U-235	2.843E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K04	2.00	3.404	0.527	3.984	0.466	Sum	7.429E+00
						CS-137	3.775E-01
						K-40	5.297E+00
						RA-226	6.374E-01
						TH-232	9.640E-01
						U-235	1.528E-01
K05	3.00	3.461	0.581	4.149	0.485	Sum	7.418E+00
						CS-137	6.562E-01
						K-40	4.513E+00
						RA-226	1.175E+00
						TH-232	7.787E-01
						U-235	2.948E-01
K06	3.00	3.493	0.639	5.541	0.505	Sum	1.125E+01
						CS-137	4.411E-01
						K-40	8.035E+00
						RA-226	1.410E+00
						TH-232	1.179E+00
						U-235	1.852E-01
K07	3.00	5.015	0.631	6.445	0.503	Sum	1.237E+01
						CS-137	5.480E-01
						K-40	9.271E+00
						RA-226	1.054E+00
						TH-232	1.288E+00
						U-235	2.120E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K08	2.00	2.200	0.553	4.773	0.476	Sum	1.017E+01
						CS-137	6.544E-01
						K-40	6.909E+00
						RA-226	1.103E+00
						TH-232	1.194E+00
						U-235	3.095E-01
K09	0.00	1.287	0.518	4.728	0.463	Sum	1.077E+01
						CS-137	6.074E-01
						K-40	7.437E+00
						RA-226	1.054E+00
						TH-232	1.517E+00
						U-235	1.548E-01
K10	0.00	1.509	0.434	5.666	0.430	Sum	8.916E+00
						CS-137	7.709E-01
						K-40	6.153E+00
						RA-226	9.253E-01
						TH-232	9.659E-01
						U-235	1.011E-01
L03	0.00	1.794	0.328	3.974	0.382	Sum	4.036E+00
						CS-137	2.825E-01
						K-40	2.310E+00
						RA-226	5.502E-01
						TH-232	8.086E-01
						U-235	8.497E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L03A	6.00	3.889	0.205	5.191	0.394	Sum	1.743E+01
						CS-137	1.620E+00
						K-40	1.011E+01
						RA-226	2.552E+00
						TH-232	2.696E+00
						U-235	4.555E-01
L03B	6.00	1.927	0.191	5.021	0.382	Sum	1.704E+01
						CS-137	1.439E+00
						K-40	1.063E+01
						RA-226	2.588E+00
						TH-232	1.949E+00
						U-235	4.329E-01
L04	3.00	1.601	0.322	3.028	0.379	Sum	7.086E+00
						CS-137	9.998E-01
						K-40	4.086E+00
						RA-226	8.696E-01
						TH-232	9.675E-01
						U-235	1.629E-01
L05	0.00	2.057	0.376	3.533	0.405	Sum	8.043E+00
						CS-137	3.199E-01
						K-40	5.646E+00
						RA-226	8.826E-01
						TH-232	1.041E+00
						U-235	1.531E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L06	1.00	1.267	0.364	4.374	0.399	Sum	4.108E+00
						CS-137	6.274E-01
						K-40	1.981E+00
						RA-226	8.924E-01
						TH-232	6.075E-01
L07	2.00	2.991	0.502	3.732	0.457	Sum	9.822E+00
						CS-137	4.551E-01
						K-40	6.721E+00
						RA-226	1.120E+00
						TH-232	1.392E+00
						U-235	1.341E-01
L08	2.00	1.346	0.542	4.468	0.472	Sum	1.157E+01
						CS-137	4.284E-01
						K-40	8.062E+00
						RA-226	1.223E+00
						TH-232	1.074E+00
						U-235	7.822E-01
L09	2.00	1.167	0.470	3.300	0.444	Sum	1.009E+01
						CS-137	5.033E-01
						K-40	6.583E+00
						RA-226	1.227E+00
						TH-232	1.486E+00
						U-235	2.866E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L10	2.00	2.625	0.480	4.247	0.448	Sum	9.122E+00
						CS-137	2.393E-01
						K-40	6.054E+00
						RA-226	1.157E+00
						TH-232	1.472E+00
						U-235	1.995E-01
M03A	4.00	2.000	0.312	3.851	0.471	Sum	1.345E+01
						CS-137	7.274E-01
						K-40	9.214E+00
						RA-226	1.546E+00
						TH-232	1.708E+00
						U-235	2.555E-01
M04	6.00	1.917	0.321	5.768	0.379	Sum	1.549E+01
						CS-137	1.258E+00
						K-40	9.903E+00
						RA-226	1.744E+00
						TH-232	2.233E+00
						U-235	3.521E-01
M05	3.00	2.718	0.497	3.634	0.455	Sum	1.030E+01
						CS-137	3.624E-01
						K-40	7.101E+00
						RA-226	1.076E+00
						TH-232	1.547E+00
						U-235	2.130E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M06	2.00	1.151	0.655	4.664	0.496	Sum	1.057E+01
						CS-137	3.994E-01
						K-40	7.846E+00
						RA-226	1.117E+00
						TH-232	1.097E+00
						U-235	1.102E-01
M07	2.00	0.358	0.662	3.512	0.501	Sum	1.082E+01
						CS-137	3.319E-01
						K-40	8.060E+00
						RA-226	1.135E+00
						TH-232	1.100E+00
						U-235	1.908E-01
M08	3.00	1.774	0.691	2.862	0.508	Sum	1.150E+01
						CS-137	4.617E-01
						K-40	8.482E+00
						RA-226	1.095E+00
						TH-232	1.240E+00
						U-235	2.174E-01
M09	2.00	6.088	0.704	2.989	0.515	Sum	1.103E+01
						CS-137	4.105E-01
						K-40	8.244E+00
						RA-226	1.094E+00
						TH-232	1.157E+00
						U-235	1.290E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M10	1.00	0.790	0.585	2.594	0.475	Sum	8.185E+00
						CS-137	4.028E-01
						K-40	5.897E+00
						RA-226	8.742E-01
						TH-232	7.954E-01
						U-235	2.158E-01
N04	3.00	0.963	0.712	3.514	0.514	Sum	1.264E+01
						CS-137	1.309E+00
						K-40	8.095E+00
						RA-226	1.624E+00
						TH-232	1.450E+00
						U-235	1.586E-01
N05	3.00	2.586	0.617	3.483	0.485	Sum	1.129E+01
						CS-137	7.926E-01
						K-40	7.925E+00
						RA-226	1.164E+00
						TH-232	1.130E+00
						U-235	2.779E-01
N06	3.00	2.949	0.642	4.540	0.492	Sum	1.056E+01
						CS-137	4.609E-01
						K-40	7.796E+00
						RA-226	1.055E+00
						TH-232	1.154E+00
						U-235	9.371E-02

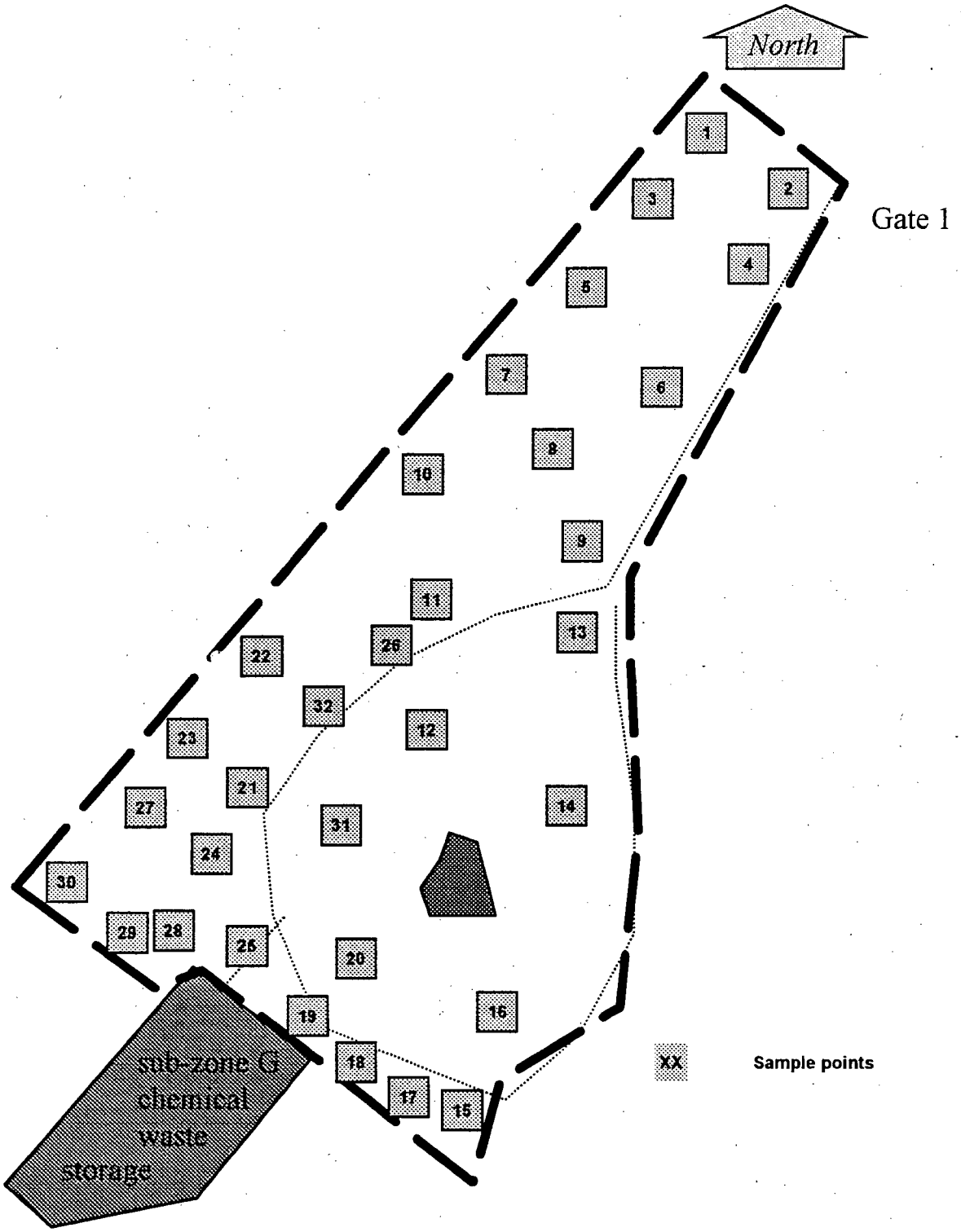
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
N07	2.00	2.649	0.700	4.011	0.510	Sum	1.012E+01
						CS-137	4.647E-01
						K-40	7.126E+00
						RA-226	1.159E+00
						TH-232	1.180E+00
						U-235	1.933E-01
N08	2.00	3.570	0.614	2.980	0.485	Sum	1.134E+01
						CS-137	5.188E-01
						K-40	8.398E+00
						RA-226	1.098E+00
						TH-232	1.141E+00
						U-235	1.861E-01
N09	2.00	1.451	0.565	3.287	0.469	Sum	1.120E+01
						CS-137	3.372E-01
						K-40	8.462E+00
						RA-226	1.138E+00
						TH-232	1.170E+00
						U-235	9.201E-02
O05	2.00	1.615	0.543	3.057	0.459	Sum	1.037E+01
						CS-137	3.675E-01
						K-40	7.484E+00
						RA-226	1.169E+00
						TH-232	1.204E+00
						U-235	1.492E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
O06	2.00	2.858	0.622	3.495	0.487	Sum	1.049E+01
						CS-137	5.227E-01
						K-40	7.431E+00
						RA-226	1.142E+00
						TH-232	1.198E+00
						U-235	1.990E-01
O07	3.00	1.551	0.604	4.204	0.482	Sum	1.153E+01
						CS-137	4.643E-01
						K-40	8.399E+00
						RA-226	1.088E+00
						TH-232	1.166E+00
						U-235	4.121E-01
O08	2.00	2.022	0.598	2.857	0.478	Sum	1.052E+01
						CS-137	5.121E-01
						K-40	7.747E+00
						RA-226	1.042E+00
						TH-232	1.068E+00
						U-235	1.555E-01
O09	1.00	2.771	0.554	2.924	0.463	Sum	1.006E+01
						CS-137	2.954E-01
						K-40	7.255E+00
						RA-226	1.143E+00
						TH-232	1.154E+00
						U-235	2.163E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
P06	2.00	0.528	0.558	2.623	0.465	Sum	9.544E+00
						CS-137	2.813E-01
						K-40	6.702E+00
						RA-226	1.216E+00
						TH-232	1.192E+00
						U-235	1.527E-01
P07	2.00	2.283	0.603	2.136	0.481	Sum	1.050E+01
						CS-137	2.041E-01
						K-40	7.880E+00
						RA-226	1.103E+00
						TH-232	1.185E+00
						U-235	1.275E-01
P08	2.00	1.618	0.630	4.460	0.493	Sum	1.024E+01
						CS-137	3.713E-01
						K-40	7.658E+00
						RA-226	1.005E+00
						TH-232	1.067E+00
						U-235	1.398E-01
Q08	0.00	2.470	0.589	3.316	0.473	Sum	8.510E+00
						CS-137	2.946E-01
						K-40	6.647E+00
						RA-226	8.148E-01
						TH-232	6.253E-01
						U-235	1.282E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
		Alpha		Beta			Gamma (Sum)
Minimum	-1	0.356	0.191	1.743	0.361		4.036E+00
Maximum	6	8.181	0.947	10.995	0.615		1.743E+01
Average	2	2.602	0.530	4.497	0.484		1.082E+01

Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone C



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION	SOIL
	ZONE: 2 SUBZONE: C

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA			BETA			GAMMA	
					BKG	MDA (dpm/100cm²)	EFF. %	BKG	MDA (dpm/100cm²)	EFF. %	BKG (µR/hr)	PROBE AREA
R01 - R30	GATES	17-Jul-97	131300	NA							10	N/A
R31 - R32	EAVES	29-Jul-97	00892	723412							11	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION	SOIL
	ZONE: 2 SUBZONE: C

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
R01 - R30	1494	.01 - .38	
R31 - R32	1568	.01 - .02	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 2 SUBZONE: C

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
R01	-2.00	1.763	0.275	3.162	0.435	Sum	6.180E+00
						CS-137	7.624E-01
						K-40	3.984E+00
						RA-226	7.432E-01
						TH-232	5.866E-01
						U-235	1.039E-01
R02	-1.00	1.489	0.263	3.629	0.425	Sum	7.629E+00
						CS-137	3.959E-01
						K-40	5.411E+00
						RA-226	8.193E-01
						TH-232	8.426E-01
						U-235	1.599E-01
R03	-1.00	2.939	0.314	4.088	0.459	Sum	6.828E+00
						CS-137	7.390E-01
						K-40	4.556E+00
						RA-226	7.014E-01
						TH-232	7.096E-01
						U-235	1.225E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R04	-1.00	4.466	0.412	6.220	0.512	Sum	9.656E+00
						CS-137	6.162E-01
						K-40	7.155E+00
						RA-226	8.941E-01
						TH-232	8.425E-01
						U-235	1.482E-01
R05	0.00	3.346	0.332	3.939	0.471	Sum	1.003E+01
						CS-137	8.800E-01
						K-40	7.067E+00
						RA-226	9.846E-01
						TH-232	9.545E-01
						U-235	1.451E-01
R06	-1.00	1.639	0.290	3.239	0.445	Sum	9.777E+00
						CS-137	9.412E-01
						K-40	6.883E+00
						RA-226	9.411E-01
						TH-232	8.367E-01
						U-235	1.751E-01
R07	-1.00	3.801	0.532	6.120	0.572	Sum	1.032E+01
						CS-137	5.625E-01
						K-40	7.628E+00
						RA-226	9.359E-01
						TH-232	1.048E+00
						U-235	1.487E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R08	1.00	2.782	0.435	5.731	0.527	Sum	8.546E+00
						CS-137	2.110E-01
						K-40	6.342E+00
						RA-226	9.244E-01
						TH-232	8.827E-01
						U-235	1.860E-01
R09	0.00	3.336	0.387	6.617	0.500	Sum	1.020E+01
						CS-137	6.297E-01
						K-40	7.531E+00
						RA-226	9.801E-01
						TH-232	8.951E-01
						U-235	1.608E-01
R10	-3.00	3.208	0.343	6.184	0.474	Sum	6.677E+00
						CS-137	9.384E-01
						K-40	4.321E+00
						RA-226	6.711E-01
						TH-232	6.561E-01
						U-235	9.023E-02
R11	-1.00	0.880	0.210	2.675	0.387	Sum	9.096E+00
						CS-137	1.923E+00
						K-40	5.108E+00
						RA-226	8.195E-01
						TH-232	9.691E-01
						U-235	2.763E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R12	-2.00	2.458	0.244	2.387	0.409	Sum	5.241E+00
						CS-137	1.796E-01
						K-40	3.602E+00
						RA-226	6.375E-01
						TH-232	7.119E-01
						U-235	1.096E-01
R13	-2.00	2.757	0.386	6.267	0.501	Sum	6.375E+00
						CS-137	1.480E+00
						K-40	3.570E+00
						RA-226	6.090E-01
						TH-232	6.170E-01
						U-235	9.924E-02
R14	1.00	4.280	0.370	3.747	0.491	Sum	1.003E+01
						CS-137	3.029E-01
						K-40	7.041E+00
						RA-226	1.183E+00
						TH-232	1.346E+00
						U-235	1.559E-01
R15	-1.00	2.397	0.278	2.869	0.438	Sum	1.042E+01
						CS-137	8.543E-01
						K-40	7.513E+00
						RA-226	8.959E-01
						TH-232	9.986E-01
						U-235	1.596E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R16	-1.00	1.979	0.309	2.991	0.456	Sum	7.622E+00
						CS-137	2.115E-01
						K-40	5.557E+00
						RA-226	9.687E-01
						TH-232	7.824E-01
						U-235	1.021E-01
R17	0.00	1.480	0.231	1.924	0.405	Sum	7.829E+00
						CS-137	4.339E-01
						K-40	5.597E+00
						RA-226	8.565E-01
						TH-232	8.001E-01
						U-235	1.417E-01
R18	1.00	4.359	0.300	4.498	0.451	Sum	1.033E+01
						CS-137	6.791E-01
						K-40	7.255E+00
						RA-226	1.120E+00
						TH-232	1.055E+00
						U-235	2.221E-01
R19	0.00	1.616	0.328	3.606	0.461	Sum	8.946E+00
						CS-137	7.943E-02
						K-40	7.656E+00
						RA-226	4.330E-01
						TH-232	4.314E-01
						U-235	3.458E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R20	1.00	1.971	0.276	3.548	0.434	Sum	1.016E+01
						CS-137	2.993E-01
						K-40	7.330E+00
						RA-226	1.110E+00
						TH-232	1.245E+00
						U-235	1.780E-01
R21	1.00	2.511	0.319	2.362	0.462	Sum	1.124E+01
						CS-137	4.338E-01
						K-40	8.321E+00
						RA-226	1.066E+00
						TH-232	1.253E+00
						U-235	1.622E-01
R22	1.00	2.812	0.357	2.923	0.486	Sum	1.018E+01
						CS-137	3.425E-01
						K-40	7.351E+00
						RA-226	1.173E+00
						TH-232	1.119E+00
						U-235	1.902E-01
R23	1.00	2.982	0.346	4.978	0.481	Sum	1.339E+01
						CS-137	1.214E+00
						K-40	9.456E+00
						RA-226	1.256E+00
						TH-232	1.277E+00
						U-235	1.911E-01

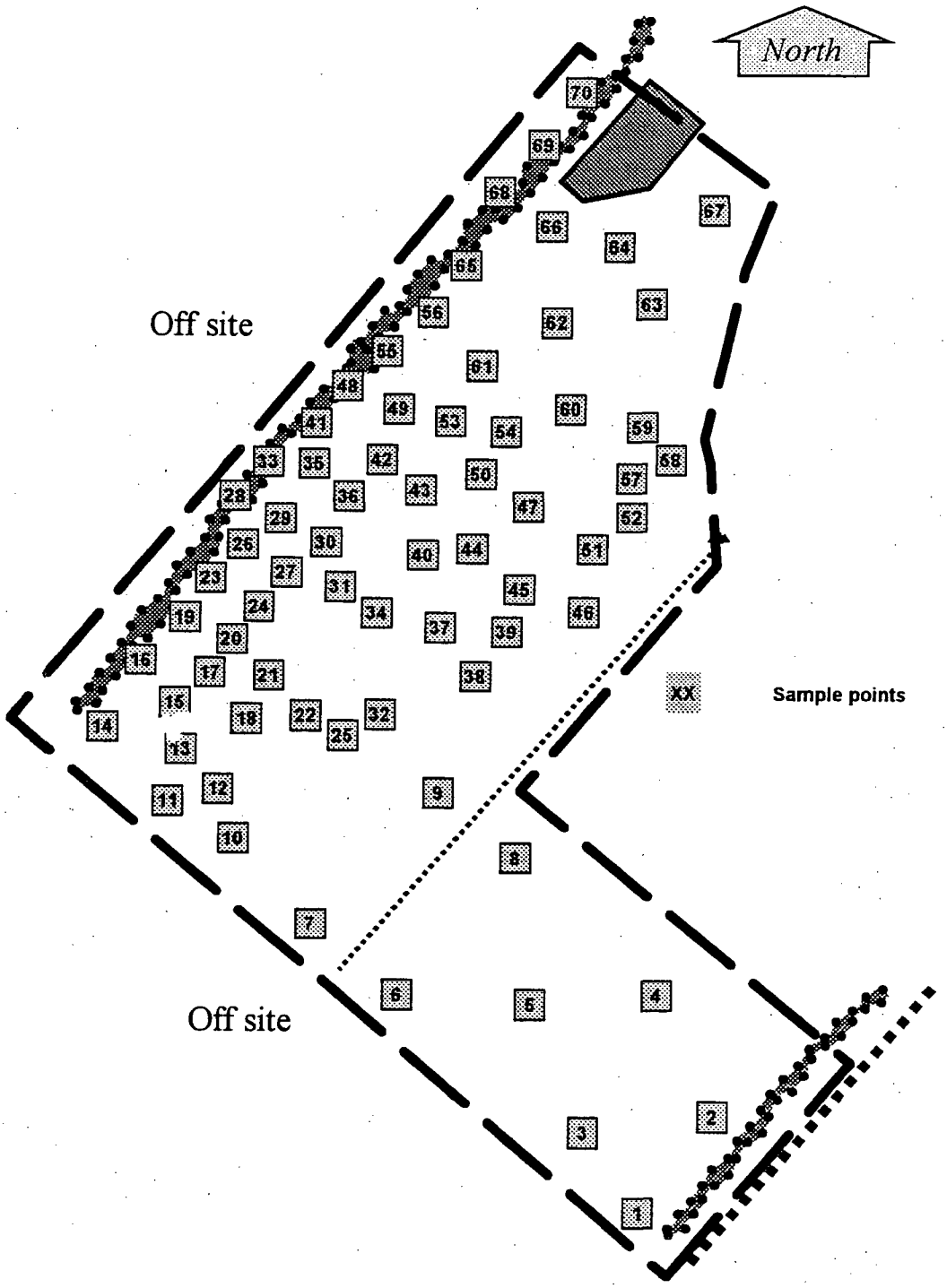
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R24	1.00	2.527	0.293	4.189	0.444	Sum	1.030E+01
						CS-137	5.229E-01
						K-40	7.436E+00
						RA-226	1.054E+00
						TH-232	1.285E+00
R25	1.00	2.811	0.357	5.130	0.488	Sum	1.066E+01
						CS-137	5.667E-01
						K-40	7.479E+00
						RA-226	1.323E+00
						TH-232	1.158E+00
						U-235	1.302E-01
R26	1.00	3.235	0.346	4.232	0.476	Sum	9.477E+00
						CS-137	2.851E-01
						K-40	6.928E+00
						RA-226	1.049E+00
						TH-232	1.062E+00
						U-235	1.527E-01
R27	1.00	1.434	0.343	3.295	0.477	Sum	1.023E+01
						K-40	7.870E+00
						RA-226	1.021E+00
						TH-232	1.110E+00
						U-235	2.288E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R28	1.00	4.092	0.354	3.850	0.482	Sum	1.055E+01
						CS-137	8.556E-02
						K-40	7.862E+00
						RA-226	1.274E+00
						TH-232	1.117E+00
						U-235	2.103E-01
R29	0.00	2.454	0.285	4.986	0.443	Sum	8.034E+00
						CS-137	7.894E-01
						K-40	5.187E+00
						RA-226	8.716E-01
						TH-232	9.509E-01
						U-235	2.350E-01
R30	1.00	2.599	0.330	4.453	0.472	Sum	1.171E+01
						CS-137	4.159E-01
						K-40	8.619E+00
						RA-226	1.251E+00
						TH-232	1.230E+00
						U-235	1.910E-01
R31	1.00	2.565	0.222	4.651	0.409	Sum	1.751E+01
						CS-137	1.342E+00
						K-40	1.023E+01
						RA-226	2.590E+00
						TH-232	2.927E+00
						U-235	4.210E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R32	1.00	2.404	0.257	6.612	0.432	Sum	2.093E+01
						CS-137	1.329E+00
						K-40	1.359E+01
						RA-226	2.792E+00
						TH-232	2.924E+00
						U-235	2.948E-01

		Alpha		Beta		Gamma (Sum)
Minimum	-3	0.880	0.210	1.924	0.387	5.241E+00
Maximum	1	4.466	0.532	6.617	0.572	2.093E+01
Average	0	2.668	0.323	4.222	0.463	9.878E+00

Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone D



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION	SOIL
	ZONE: 2 SUBZONE: D

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
R01 - R30	EAVES	15-Jul-97	00951	723417							11	N/A
R31 - R63	CONNOLLY	16-Jul-97	00892	723412							10	N/A
R64 - R70	CONNOLLY	17-Jul-97	00892	723412							11	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION

SOIL

ZONE: 2 SUBZONE: D

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
R01 - R30	1484	.01 - .38	
R31 - R63	1490	.01 - .45	
R64 - R70	1496	.01 - .07	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 2 SUBZONE: D

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
R01	2.00	2.992	0.632	5.015	0.438	Sum	1.255E+01
						CS-137	5.710E-01
						K-40	9.374E+00
						RA-226	1.223E+00
						TH-232	1.223E+00
						U-235	1.548E-01
R02	3.00	2.556	0.665	5.227	0.449	Sum	1.221E+01
						CS-137	5.286E-01
						K-40	9.112E+00
						RA-226	1.213E+00
						TH-232	1.182E+00
						U-235	1.729E-01
R03	2.00	2.607	0.608	4.149	0.431	Sum	1.048E+01
						CS-137	3.656E-01
						K-40	7.612E+00
						RA-226	1.066E+00
						TH-232	1.131E+00
						U-235	3.051E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R04	3.00	3.463	0.669	5.407	0.449	Sum	1.046E+01
						CS-137	4.524E-01
						K-40	7.719E+00
						RA-226	1.021E+00
						TH-232	1.137E+00
						U-235	1.318E-01
R05	2.00	4.156	0.562	4.339	0.416	Sum	7.641E+00
						CS-137	4.385E-01
						K-40	5.262E+00
						RA-226	8.298E-01
						TH-232	9.314E-01
						U-235	1.797E-01
R06	2.00	2.505	0.651	4.809	0.444	Sum	1.087E+01
						CS-137	3.583E-01
						K-40	8.319E+00
						RA-226	8.896E-01
						TH-232	1.156E+00
						U-235	1.447E-01
R07	-1.00	1.010	0.402	3.030	0.360	Sum	8.695E+00
						CS-137	4.345E-01
						K-40	4.218E+00
						RA-226	5.885E-01
						TH-232	5.685E-01
						U-235	2.886E+00

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R08	2.00	2.217	0.750	5.182	0.470	Sum	1.095E+01
						CS-137	5.135E-01
						K-40	8.049E+00
						RA-226	1.149E+00
						TH-232	1.078E+00
						U-235	1.588E-01
R09	2.00	4.628	0.626	4.831	0.438	Sum	8.254E+00
						CS-137	4.532E-01
						K-40	6.106E+00
						RA-226	7.864E-01
						TH-232	7.758E-01
						U-235	1.323E-01
R10	0.00	2.602	0.429	4.486	0.372	Sum	7.796E+00
						CS-137	7.532E-01
						K-40	5.359E+00
						RA-226	6.957E-01
						TH-232	8.491E-01
						U-235	1.386E-01
R11	2.00	2.132	0.554	5.316	0.414	Sum	9.779E+00
						CS-137	5.646E-01
						K-40	7.382E+00
						RA-226	9.202E-01
						TH-232	8.187E-01
						U-235	9.344E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R12	-1.00	1.713	0.445	6.008	0.378	Sum	5.799E+00
						CS-137	6.413E-01
						K-40	3.731E+00
						RA-226	5.690E-01
						TH-232	7.726E-01
						U-235	8.526E-02
R13	0.00	1.125	0.543	4.926	0.409	Sum	1.176E+01
						CS-137	2.543E-01
						K-40	8.648E+00
						RA-226	1.167E+00
						TH-232	1.235E+00
						U-235	4.551E-01
R14	2.00	1.436	0.373	2.608	0.352	Sum	8.919E+00
						CS-137	3.081E-01
						K-40	6.208E+00
						RA-226	9.222E-01
						TH-232	9.033E-01
						U-235	5.778E-01
R15	2.00	3.341	0.513	4.689	0.403	Sum	9.380E+00
						CS-137	3.269E-01
						K-40	6.923E+00
						RA-226	1.025E+00
						TH-232	9.248E-01
						U-235	1.799E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R16	3.00	2.479	0.578	3.892	0.422	Sum	9.744E+00
						CS-137	4.882E-01
						K-40	7.138E+00
						RA-226	1.167E+00
						TH-232	7.703E-01
						U-235	1.803E-01
R17	1.00	2.462	0.476	3.821	0.389	Sum	9.320E+00
						CS-137	4.294E-01
						K-40	6.776E+00
						RA-226	9.726E-01
						TH-232	1.011E+00
						U-235	1.307E-01
R18	3.00	3.014	0.463	6.478	0.383	Sum	1.079E+01
						CS-137	1.828E+00
						K-40	6.590E+00
						RA-226	1.097E+00
						TH-232	1.122E+00
						U-235	1.508E-01
R19	0.00	2.078	0.540	3.784	0.410	Sum	8.625E+00
						CS-137	6.698E-01
						K-40	6.016E+00
						RA-226	8.383E-01
						TH-232	9.752E-01
						U-235	1.259E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R20	2.00	2.926	0.618	2.784	0.436	Sum	1.026E+01
						CS-137	5.361E-01
						K-40	7.417E+00
						RA-226	9.772E-01
						TH-232	1.203E+00
						U-235	1.296E-01
R21	3.00	2.263	0.665	6.209	0.448	Sum	1.211E+01
						CS-137	4.808E-01
						K-40	8.773E+00
						RA-226	1.408E+00
						TH-232	1.178E+00
						U-235	2.746E-01
R22	3.00	3.896	0.599	5.750	0.427	Sum	1.188E+01
						CS-137	5.732E-01
						K-40	9.001E+00
						RA-226	1.076E+00
						TH-232	1.044E+00
						U-235	1.816E-01
R23	2.00	4.444	0.683	4.906	0.453	Sum	1.029E+01
						CS-137	5.526E-01
						K-40	7.474E+00
						RA-226	1.028E+00
						TH-232	1.097E+00
						U-235	1.377E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R24	1.00	1.157	0.559	3.909	0.415	Sum	1.013E+01
						CS-137	4.273E-01
						K-40	7.318E+00
						RA-226	9.453E-01
						TH-232	1.134E+00
						U-235	3.090E-01
R25	3.00	3.724	0.663	5.039	0.448	Sum	1.051E+01
						CS-137	2.465E-01
						K-40	7.883E+00
						RA-226	1.133E+00
						TH-232	1.043E+00
						U-235	2.079E-01
R26	2.00	3.601	0.641	3.630	0.442	Sum	9.848E+00
						CS-137	4.888E-01
						K-40	7.213E+00
						RA-226	1.139E+00
						TH-232	8.874E-01
						U-235	1.198E-01
R27	4.00	1.824	0.536	4.324	0.407	Sum	1.033E+01
						CS-137	3.516E-01
						K-40	7.495E+00
						RA-226	1.189E+00
						TH-232	1.163E+00
						U-235	1.281E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R28	3.00	1.861	0.740	6.796	0.470	Sum	1.160E+01
						CS-137	8.316E-01
						K-40	8.595E+00
						RA-226	1.047E+00
						TH-232	1.035E+00
						U-235	9.562E-02
R29	2.00	2.872	0.670	4.129	0.448	Sum	1.094E+01
						CS-137	3.534E-01
						K-40	8.065E+00
						RA-226	1.148E+00
						TH-232	1.198E+00
						U-235	1.713E-01
R30	2.00	2.580	0.602	4.752	0.431	Sum	9.821E+00
						CS-137	4.272E-01
						K-40	6.766E+00
						RA-226	1.100E+00
						TH-232	1.243E+00
						U-235	2.851E-01
R31	2.00	2.498	0.317	3.789	0.463	Sum	1.130E+01
						CS-137	4.331E-01
						K-40	8.176E+00
						RA-226	1.256E+00
						TH-232	1.278E+00
						U-235	1.529E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R32	2.00	5.028	0.276	4.363	0.437	Sum	9.644E+00
						CS-137	4.553E-01
						K-40	6.921E+00
						RA-226	9.922E-01
						TH-232	1.085E+00
						U-235	1.910E-01
R33	1.00	2.253	0.286	4.085	0.441	Sum	1.003E+01
						CS-137	5.662E-01
						K-40	7.032E+00
						RA-226	1.462E+00
						TH-232	7.941E-01
						U-235	1.782E-01
R34	3.00	3.012	0.278	2.936	0.436	Sum	1.124E+01
						CS-137	4.323E-01
						K-40	7.804E+00
						RA-226	1.411E+00
						TH-232	1.414E+00
						U-235	1.785E-01
R35	0.00	1.342	0.237	2.901	0.409	Sum	9.122E+00
						CS-137	3.776E-01
						K-40	6.317E+00
						RA-226	1.276E+00
						TH-232	9.988E-01
						U-235	1.527E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R36	3.00	3.084	0.358	4.738	0.483	Sum	1.157E+01
						CS-137	7.181E-01
						K-40	7.899E+00
						RA-226	1.192E+00
						TH-232	1.282E+00
						U-235	4.808E-01
R37	3.00	1.734	0.220	3.752	0.398	Sum	1.104E+01
						CS-137	4.736E-01
						K-40	8.106E+00
						RA-226	1.157E+00
						TH-232	1.145E+00
						U-235	1.565E-01
R38	1.00	3.298	0.327	5.345	0.468	Sum	1.063E+01
						CS-137	1.030E+00
						K-40	7.184E+00
						RA-226	1.043E+00
						TH-232	1.231E+00
						U-235	1.453E-01
R39	2.00	2.420	0.339	5.841	0.474	Sum	9.661E+00
						CS-137	4.247E-01
						K-40	6.634E+00
						RA-226	1.231E+00
						TH-232	1.134E+00
						U-235	2.378E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R40	2.00	2.221	0.311	4.726	0.457	Sum	5.524E+00
						CS-137	1.048E+00
						K-40	2.966E+00
						RA-226	5.394E-01
						TH-232	8.700E-01
						U-235	1.010E-01
R41	1.00	5.196	0.341	5.181	0.476	Sum	1.065E+01
						CS-137	5.610E-01
						K-40	7.444E+00
						RA-226	1.123E+00
						TH-232	1.328E+00
						U-235	1.966E-01
R42	2.00	1.878	0.332	5.650	0.472	Sum	1.208E+01
						CS-137	5.764E-01
						K-40	9.112E+00
						RA-226	9.392E-01
						TH-232	1.220E+00
						U-235	2.275E-01
R43	3.00	1.420	0.288	4.538	0.447	Sum	9.454E+00
						CS-137	6.796E-01
						K-40	6.285E+00
						RA-226	1.151E+00
						TH-232	1.100E+00
						U-235	2.381E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R44	3.00	2.546	0.296	4.396	0.449	Sum	9.798E+00
						CS-137	3.356E-01
						K-40	6.519E+00
						RA-226	1.511E+00
						TH-232	1.296E+00
						U-235	1.362E-01
R45	3.00	1.840	0.325	3.818	0.467	Sum	1.005E+01
						CS-137	5.310E-01
						K-40	6.969E+00
						RA-226	1.025E+00
						TH-232	1.309E+00
						U-235	2.144E-01
R46	3.00	2.547	0.323	3.463	0.465	Sum	1.310E+01
						CS-137	2.921E-01
						K-40	1.001E+01
						RA-226	1.479E+00
						TH-232	1.180E+00
						U-235	1.422E-01
R47	3.00	2.341	0.272	3.853	0.433	Sum	1.049E+01
						CS-137	5.963E-01
						K-40	7.063E+00
						RA-226	1.257E+00
						TH-232	1.267E+00
						U-235	3.058E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R48	-1.00	2.301	0.292	3.972	0.446	Sum	8.144E+00
						CS-137	6.425E-01
						K-40	5.684E+00
						RA-226	8.895E-01
						TH-232	7.828E-01
						U-235	1.449E-01
R49	3.00	2.250	0.195	2.737	0.376	Sum	1.207E+01
						CS-137	5.984E-01
						K-40	8.524E+00
						RA-226	1.582E+00
						TH-232	1.163E+00
						U-235	2.024E-01
R50	2.00	3.222	0.319	3.445	0.462	Sum	9.210E+00
						CS-137	1.931E-01
						K-40	6.138E+00
						RA-226	1.530E+00
						TH-232	1.185E+00
						U-235	1.642E-01
R51	3.00	1.503	0.265	2.578	0.429	Sum	1.183E+01
						CS-137	5.584E-01
						K-40	8.351E+00
						RA-226	1.413E+00
						TH-232	1.355E+00
						U-235	1.541E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R52	3.00	1.226	0.293	3.655	0.447	Sum	8.435E+00
						CS-137	4.843E-01
						K-40	5.444E+00
						RA-226	1.089E+00
						TH-232	1.418E+00
R53	3.00	3.462	0.299	3.190	0.450	Sum	1.252E+01
						CS-137	4.792E-01
						K-40	9.178E+00
						RA-226	1.433E+00
						TH-232	1.138E+00
						U-235	2.908E-01
R54	3.00	3.754	0.288	3.307	0.444	Sum	9.626E+00
						CS-137	4.775E-01
						K-40	5.950E+00
						RA-226	1.647E+00
						TH-232	1.375E+00
						U-235	1.765E-01
R55	2.00	3.350	0.358	4.403	0.485	Sum	9.509E+00
						CS-137	5.046E-01
						K-40	5.181E+00
						RA-226	1.511E+00
						TH-232	1.433E+00
						U-235	8.790E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R56	1.00	1.678	0.296	4.726	0.449	Sum	8.985E+00
						CS-137	4.972E-01
						K-40	5.904E+00
						RA-226	1.182E+00
						TH-232	1.289E+00
						U-235	1.127E-01
R57	3.00	3.874	0.335	4.718	0.473	Sum	1.318E+01
						CS-137	5.114E-01
						K-40	9.707E+00
						RA-226	1.410E+00
						TH-232	1.327E+00
						U-235	2.239E-01
R58	4.00	3.182	0.294	2.698	0.449	Sum	1.350E+01
						CS-137	9.012E-01
						K-40	9.817E+00
						RA-226	1.106E+00
						TH-232	1.397E+00
						U-235	2.835E-01
R59	3.00	1.338	0.272	3.375	0.432	Sum	1.132E+01
						CS-137	5.042E-01
						K-40	8.454E+00
						RA-226	1.300E+00
						TH-232	8.962E-01
						U-235	1.625E-01

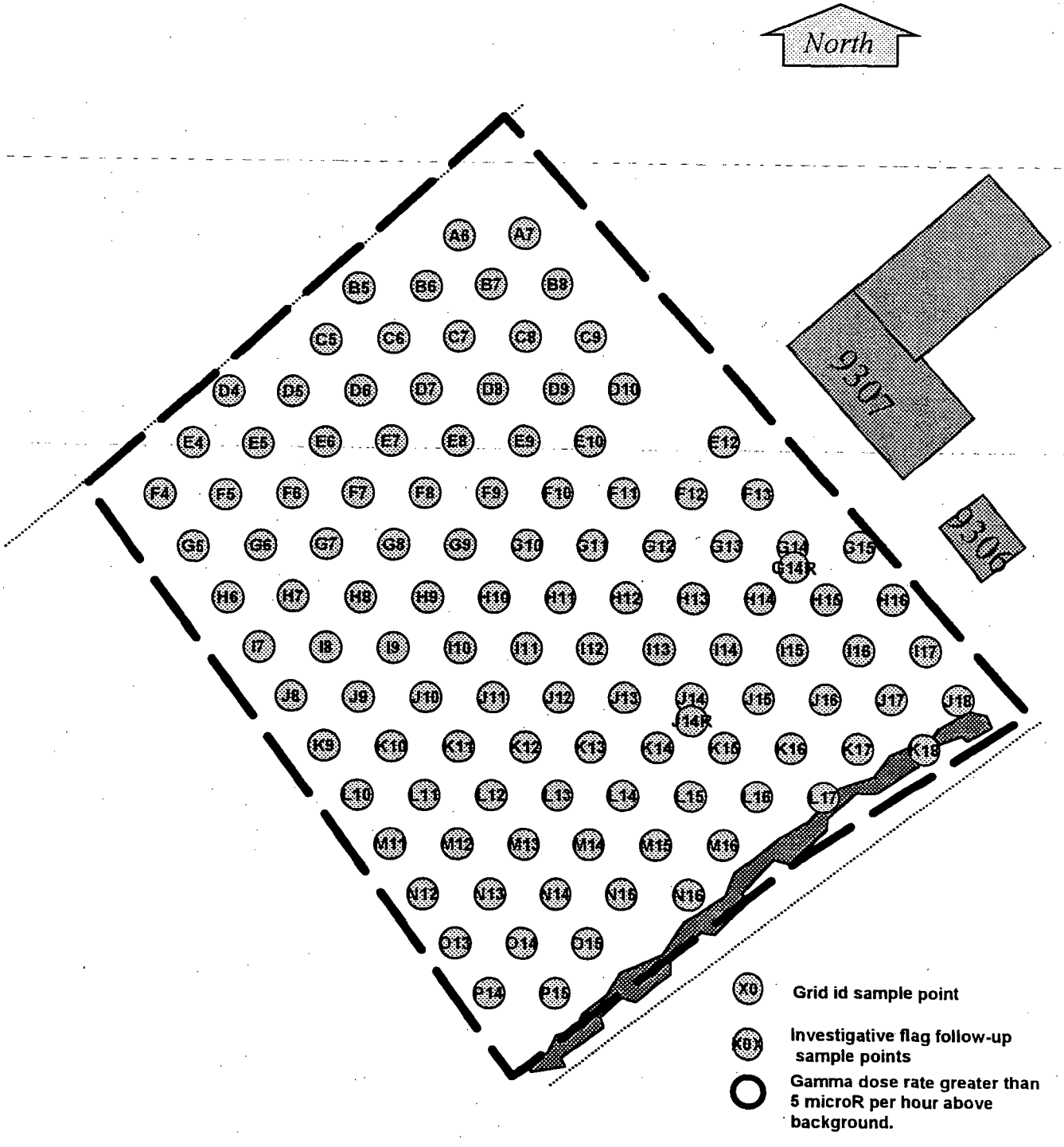
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R60	4.00	2.993	0.347	3.503	0.482	Sum	1.125E+01
						CS-137	3.436E-01
						K-40	8.190E+00
						RA-226	1.263E+00
						TH-232	1.240E+00
						U-235	2.181E-01
R61	3.00	2.927	0.290	4.589	0.444	Sum	9.861E+00
						CS-137	5.142E-01
						K-40	7.126E+00
						RA-226	1.156E+00
						TH-232	1.024E+00
						U-235	4.094E-02
R62	3.00	2.786	0.276	3.180	0.437	Sum	1.251E+01
						CS-137	4.728E-01
						K-40	8.753E+00
						RA-226	1.432E+00
						TH-232	1.603E+00
						U-235	2.530E-01
R63	3.00	3.468	0.344	3.994	0.478	Sum	9.451E+00
						CS-137	6.813E-01
						K-40	5.985E+00
						RA-226	1.325E+00
						TH-232	1.233E+00
						U-235	2.268E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R64	3.00	0.952	0.422	2.853	0.431	Sum	1.321E+01
						CS-137	8.356E-01
						K-40	9.531E+00
						RA-226	1.200E+00
						TH-232	1.452E+00
						U-235	1.872E-01
R65	-1.00	1.315	0.291	1.545	0.370	Sum	1.071E+01
						CS-137	3.453E-01
						K-40	7.995E+00
						RA-226	1.106E+00
						TH-232	1.092E+00
						U-235	1.680E-01
R66	2.00	1.310	0.317	2.793	0.384	Sum	1.168E+01
						CS-137	5.814E-01
						K-40	8.370E+00
						RA-226	1.047E+00
						TH-232	1.241E+00
						U-235	4.434E-01
R67	1.00	2.981	0.528	2.921	0.477	Sum	1.028E+01
						CS-137	2.772E-01
						K-40	7.658E+00
						RA-226	1.000E+00
						TH-232	1.221E+00
						U-235	1.273E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R68	1.00	1.869	0.621	4.635	0.512	Sum	1.302E+01
						CS-137	2.133E-01
						K-40	1.018E+01
						RA-226	1.262E+00
						TH-232	1.222E+00
						U-235	1.442E-01
R69	2.00	2.948	0.560	3.152	0.488	Sum	1.235E+01
						CS-137	6.167E-01
						K-40	9.274E+00
						RA-226	1.179E+00
						TH-232	1.045E+00
						U-235	2.303E-01
R70	0.00	2.031	0.540	3.966	0.481	Sum	9.872E+00
						CS-137	2.095E-01
						K-40	7.461E+00
						RA-226	9.953E-01
						TH-232	9.718E-01
						U-235	2.339E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
		Alpha		Beta			Gamma (Sum)
Minimum	-1	0.952	0.195	1.545	0.352		5.524E+00
Maximum	4	5.196	0.750	6.796	0.512		1.350E+01
Average	2	2.586	0.437	4.193	0.438		1.042E+01

Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone E



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

SOIL

ZONE: 2 SUBZONE: E

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA			BETA			GAMMA	
					BKG	MDA (dpm/100cm²)	EFF. %	BKG	MDA (dpm/100cm²)	EFF. %	BKG (µR/hr)	PROBE AREA
A06 - D07	EAVES	26-Jun-97	00914	723415							10	N/A
D08 - G12	EAVES	10-Jul-97	00951	723417							10	N/A
G13 - K09	EAVES	11-Jul-97	00951	723417							11	N/A
K10 - P15	EAVES	14-Jul-97	00951	723417							11	N/A
G14R - J18R	EAVES	08-Oct-97	00892	723412							7	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION

SOIL

ZONE: 2 SUBZONE: E

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
A06 - D07	1449	.01 - .19	
D08 - G12	1470	.01 - .37	
G13 - K09	1473	.01 - .49	
K10 - P15	1477	.01 - .45	
G14R - J18R	1996	.01 - .02	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 2 SUBZONE: E

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
A06	0.00	2.940	0.473	3.401	0.433	Sum	6.414E+00
						CS-137	7.022E-01
						K-40	4.302E+00
						RA-226	6.621E-01
						TH-232	5.869E-01
						U-235	1.606E-01
A07	2.00	2.529	0.604	3.862	0.481	Sum	6.488E+00
						CS-137	4.659E-01
						K-40	4.384E+00
						RA-226	7.968E-01
						TH-232	7.597E-01
						U-235	8.126E-02
B05	2.00	1.657	0.438	3.364	0.419	Sum	5.222E+00
						CS-137	1.678E-01
						K-40	3.488E+00
						RA-226	6.772E-01
						TH-232	8.043E-01
						U-235	8.476E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B06	2.00	2.230	0.532	3.419	0.455	Sum	8.906E+00
						CS-137	2.990E-01
						K-40	6.497E+00
						RA-226	1.040E+00
						TH-232	9.444E-01
						U-235	1.254E-01
B07	1.00	0.898	0.665	4.181	0.499	Sum	1.221E+01
						CS-137	9.834E-01
						K-40	8.620E+00
						RA-226	1.176E+00
						TH-232	1.221E+00
						U-235	2.084E-01
B08	1.00	1.770	0.689	4.257	0.509	Sum	1.035E+01
						CS-137	7.438E-01
						K-40	7.546E+00
						RA-226	8.977E-01
						TH-232	8.571E-01
						U-235	3.083E-01
C05	0.00	4.086	0.756	6.503	0.529	Sum	8.853E+00
						CS-137	1.441E+00
						K-40	5.455E+00
						RA-226	8.506E-01
						TH-232	9.553E-01
						U-235	1.508E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
C06	0.00	2.289	0.770	3.086	0.531	Sum	1.088E+01
						CS-137	3.047E-01
						K-40	8.248E+00
						RA-226	1.036E+00
						TH-232	1.162E+00
						U-235	1.308E-01
C07	3.00	4.626	0.796	5.354	0.540	Sum	1.118E+01
						CS-137	7.904E-01
						K-40	8.026E+00
						RA-226	1.174E+00
						TH-232	1.049E+00
						U-235	1.438E-01
C08	4.00	3.358	0.731	4.631	0.521	Sum	1.048E+01
						CS-137	7.434E-01
						K-40	7.170E+00
						RA-226	1.166E+00
						TH-232	1.222E+00
						U-235	1.827E-01
C09	1.00	3.032	0.724	3.015	0.519	Sum	1.072E+01
						CS-137	5.448E-01
						K-40	7.762E+00
						RA-226	1.045E+00
						TH-232	1.203E+00
						U-235	1.619E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D04	0.00	3.848	0.712	4.303	0.514	Sum	1.179E+01
						CS-137	1.110E+00
						K-40	8.245E+00
						RA-226	1.007E+00
						TH-232	1.292E+00
						U-235	1.315E-01
D05	0.00	1.860	0.491	3.015	0.441	Sum	6.373E+00
						CS-137	1.191E-01
						K-40	4.283E+00
						RA-226	8.103E-01
						TH-232	9.199E-01
						U-235	2.407E-01
D06	3.00	2.492	0.658	4.943	0.499	Sum	1.076E+01
						CS-137	4.613E-01
						K-40	7.707E+00
						RA-226	1.178E+00
						TH-232	1.296E+00
						U-235	1.209E-01
D07	2.00	1.636	0.756	2.981	0.529	Sum	1.091E+01
						CS-137	4.385E-01
						K-40	7.796E+00
						RA-226	1.308E+00
						TH-232	1.235E+00
						U-235	1.352E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D08	4.00	3.150	0.560	5.189	0.397	Sum	1.101E+01
						CS-137	3.573E-01
						K-40	7.527E+00
						RA-226	1.358E+00
						TH-232	1.586E+00
						U-235	1.769E-01
D09	4.00	3.511	0.540	4.697	0.391	Sum	1.000E+01
						CS-137	2.744E-01
						K-40	7.161E+00
						RA-226	1.117E+00
						TH-232	1.210E+00
						U-235	2.412E-01
D10	3.00	3.154	0.520	4.358	0.383	Sum	1.056E+01
						CS-137	4.936E-01
						K-40	7.391E+00
						RA-226	9.381E-01
						TH-232	1.126E+00
						U-235	6.097E-01
E04	2.00	2.793	0.402	5.524	0.345	Sum	9.423E+00
						CS-137	1.488E+00
						K-40	6.117E+00
						RA-226	6.811E-01
						TH-232	1.040E+00
						U-235	9.733E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E05	3.00	3.032	0.540	5.844	0.391	Sum	9.807E+00
						CS-137	3.510E-01
						K-40	6.945E+00
						RA-226	9.904E-01
						TH-232	1.149E+00
						U-235	3.715E-01
E06	4.00	2.139	0.629	5.675	0.414	Sum	1.019E+01
						CS-137	4.184E-01
						K-40	6.735E+00
						RA-226	1.240E+00
						TH-232	1.522E+00
						U-235	2.737E-01
E07	3.00	2.052	0.478	3.920	0.371	Sum	7.864E+00
						CS-137	3.275E-01
						K-40	4.572E+00
						RA-226	1.171E+00
						TH-232	1.300E+00
						U-235	4.937E-01
E08	2.00	0.841	0.334	2.220	0.318	Sum	8.012E+00
						CS-137	3.372E-01
						K-40	5.097E+00
						RA-226	1.093E+00
						TH-232	1.311E+00
						U-235	1.733E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E09	3.00	5.121	0.618	4.686	0.411	Sum	1.088E+01
						CS-137	3.506E-01
						K-40	8.281E+00
						RA-226	9.507E-01
						TH-232	1.199E+00
						U-235	9.701E-02
E10	3.00	2.802	0.462	4.568	0.367	Sum	1.184E+01
						CS-137	4.341E-01
						K-40	8.673E+00
						RA-226	1.167E+00
						TH-232	1.435E+00
						U-235	1.304E-01
E12	0.00	1.156	0.391	3.529	0.341	Sum	6.557E+00
						CS-137	5.073E-01
						K-40	4.514E+00
						RA-226	6.370E-01
						TH-232	8.062E-01
						U-235	9.226E-02
F04	2.00	3.962	0.505	5.987	0.379	Sum	1.494E+01
						CS-137	1.213E+00
						K-40	1.077E+01
						RA-226	1.230E+00
						TH-232	1.530E+00
						U-235	1.963E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F05	4.00	3.603	0.518	3.700	0.381	Sum	1.148E+01
						CS-137	4.472E-01
						K-40	8.144E+00
						RA-226	1.421E+00
						TH-232	1.179E+00
						U-235	2.918E-01
F06	4.00	3.644	0.704	6.116	0.433	Sum	1.182E+01
						CS-137	4.619E-01
						K-40	8.405E+00
						RA-226	1.436E+00
						TH-232	1.346E+00
						U-235	1.719E-01
F07	4.00	1.330	0.529	4.483	0.386	Sum	1.147E+01
						CS-137	3.830E-01
						K-40	8.541E+00
						RA-226	1.112E+00
						TH-232	1.337E+00
						U-235	9.639E-02
F08	3.00	3.861	0.637	5.809	0.418	Sum	1.303E+01
						CS-137	3.502E-01
						K-40	1.020E+01
						RA-226	1.336E+00
						TH-232	1.014E+00
						U-235	1.319E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F09	3.00	2.199	0.513	4.491	0.380	Sum	1.304E+01
						CS-137	3.754E-01
						K-40	9.683E+00
						RA-226	1.213E+00
						TH-232	1.656E+00
						U-235	1.079E-01
F10	3.00	2.640	0.616	4.878	0.413	Sum	1.110E+01
						CS-137	4.624E-01
						K-40	8.113E+00
						RA-226	1.158E+00
						TH-232	1.197E+00
						U-235	1.744E-01
F11	1.00	2.182	0.509	3.384	0.381	Sum	1.116E+01
						CS-137	6.113E-01
						K-40	8.206E+00
						RA-226	1.274E+00
						TH-232	9.297E-01
						U-235	1.358E-01
F12	0.00	2.937	0.523	3.422	0.385	Sum	1.004E+01
						CS-137	4.302E-01
						K-40	6.815E+00
						RA-226	1.334E+00
						TH-232	1.202E+00
						U-235	2.595E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F13	0.00	1.763	0.373	3.578	0.332	Sum	8.476E+00
						CS-137	8.444E-01
						K-40	5.739E+00
						RA-226	8.658E-01
						TH-232	8.341E-01
						U-235	1.926E-01
G05	2.00	4.418	0.533	4.728	0.387	Sum	1.344E+01
						CS-137	1.407E+00
						K-40	9.331E+00
						RA-226	1.330E+00
						TH-232	1.206E+00
						U-235	1.633E-01
G06	0.00	2.518	0.486	3.223	0.372	Sum	1.130E+01
						CS-137	4.638E-01
						K-40	7.806E+00
						RA-226	1.352E+00
						TH-232	1.567E+00
						U-235	1.094E-01
G07	1.00	1.550	0.524	3.809	0.384	Sum	1.051E+01
						CS-137	3.501E-01
						K-40	7.993E+00
						RA-226	9.404E-01
						TH-232	1.064E+00
						U-235	1.665E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G08	0.00	2.707	0.446	3.721	0.360	Sum	1.222E+01
						CS-137	5.302E-01
						K-40	9.065E+00
						RA-226	1.255E+00
						TH-232	1.290E+00
						U-235	8.210E-02
G09	0.00	2.067	0.537	4.280	0.390	Sum	1.100E+01
						CS-137	4.884E-01
						K-40	8.051E+00
						RA-226	1.177E+00
						TH-232	1.080E+00
						U-235	2.014E-01
G10	3.00	2.997	0.494	4.187	0.374	Sum	1.073E+01
						CS-137	5.365E-01
						K-40	7.979E+00
						RA-226	9.874E-01
						TH-232	1.079E+00
						U-235	1.461E-01
G11	0.00	3.863	0.816	10.337	0.464	Sum	9.447E+00
						CS-137	9.085E-01
						K-40	6.110E+00
						RA-226	9.978E-01
						TH-232	1.247E+00
						U-235	1.835E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G12	2.00	2.843	0.506	2.968	0.379	Sum	1.006E+01
						CS-137	4.186E-01
						K-40	6.910E+00
						RA-226	1.216E+00
						TH-232	1.232E+00
						U-235	2.820E-01
G13	2.00	2.749	0.790	5.816	0.565	Sum	1.189E+01
						CS-137	7.856E-01
						K-40	8.551E+00
						RA-226	1.149E+00
						TH-232	1.184E+00
						U-235	2.186E-01
G14	-1.00	2.749	0.790	5.816	0.565	Sum	1.189E+01
						CS-137	7.856E-01
						K-40	8.551E+00
						RA-226	1.149E+00
						TH-232	1.184E+00
						U-235	2.186E-01
G14R	1.00	2.515	0.744	4.723	0.541	Sum	9.101E+00
						CS-137	2.976E-01
						K-40	6.275E+00
						RA-226	1.101E+00
						TH-232	1.300E+00
						U-235	1.274E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G15	0.00	1.464	0.327	3.134	0.391	Sum	5.716E+00
						CS-137	6.652E-01
						K-40	3.443E+00
						RA-226	7.118E-01
						TH-232	8.000E-01
						U-235	9.588E-02
H06	3.00	2.897	0.583	4.345	0.499	Sum	1.090E+01
						CS-137	6.398E-01
						K-40	7.690E+00
						RA-226	1.142E+00
						TH-232	1.171E+00
						U-235	2.597E-01
H07	2.00	4.791	0.603	4.597	0.507	Sum	1.165E+01
						CS-137	5.480E-01
						K-40	8.551E+00
						RA-226	1.284E+00
						TH-232	1.144E+00
						U-235	1.204E-01
H08	2.00	1.869	0.418	3.245	0.434	Sum	9.308E+00
						CS-137	5.118E-01
						K-40	6.767E+00
						RA-226	9.811E-01
						TH-232	9.765E-01
						U-235	7.200E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H09	0.00	2.691	0.602	6.639	0.507	Sum	9.438E+00
						CS-137	4.418E-01
						K-40	7.141E+00
						RA-226	8.753E-01
						TH-232	8.296E-01
						U-235	1.508E-01
H10	1.00	1.669	0.672	3.590	0.529	Sum	9.319E+00
						CS-137	3.779E-01
						K-40	6.836E+00
						RA-226	1.047E+00
						TH-232	9.698E-01
						U-235	8.879E-02
H11	1.00	3.137	0.631	5.472	0.514	Sum	8.770E+00
						CS-137	5.818E-01
						K-40	6.326E+00
						RA-226	8.464E-01
						TH-232	8.862E-01
						U-235	1.292E-01
H12	2.00	3.174	0.581	4.949	0.498	Sum	1.079E+01
						CS-137	3.122E-01
						K-40	8.073E+00
						RA-226	1.030E+00
						TH-232	1.131E+00
						U-235	2.451E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H13	1.00	2.239	0.563	4.628	0.492	Sum	1.203E+01
						CS-137	3.397E-01
						K-40	9.352E+00
						RA-226	1.085E+00
						TH-232	1.119E+00
						U-235	1.313E-01
H14	2.00	2.954	0.541	3.796	0.485	Sum	1.149E+01
						CS-137	3.892E-01
						K-40	8.656E+00
						RA-226	1.133E+00
						TH-232	1.174E+00
						U-235	1.424E-01
H15	1.00	3.453	0.535	5.286	0.481	Sum	7.161E+00
						CS-137	1.297E+00
						K-40	4.388E+00
						RA-226	6.468E-01
						TH-232	7.607E-01
						U-235	6.874E-02
H16	0.00	1.729	0.316	3.013	0.385	Sum	6.582E+00
						CS-137	1.008E+00
						K-40	4.122E+00
						RA-226	6.981E-01
						TH-232	6.414E-01
						U-235	1.120E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I07	1.00	2.898	0.486	5.321	0.462	Sum	1.068E+01
						CS-137	6.485E-01
						K-40	7.758E+00
						RA-226	9.612E-01
						TH-232	1.154E+00
						U-235	1.544E-01
I08	0.00	4.552	0.482	5.238	0.462	Sum	1.065E+01
						CS-137	4.980E-01
						K-40	7.836E+00
						RA-226	1.094E+00
						TH-232	1.131E+00
						U-235	9.163E-02
I09	2.00	4.350	0.584	4.623	0.500	Sum	1.041E+01
						CS-137	4.628E-01
						K-40	6.784E+00
						RA-226	9.369E-01
						TH-232	1.106E+00
						U-235	1.118E+00
I10	2.00	2.017	0.451	3.508	0.448	Sum	1.011E+01
						CS-137	4.171E-01
						K-40	7.362E+00
						RA-226	1.119E+00
						TH-232	1.078E+00
						U-235	1.326E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I11	1.00	5.017	0.459	3.534	0.451	Sum	9.012E+00
						CS-137	2.950E-01
						K-40	6.641E+00
						RA-226	9.648E-01
						TH-232	9.937E-01
						U-235	1.179E-01
I12	2.00	1.737	0.499	4.987	0.469	Sum	1.198E+01
						CS-137	3.602E-01
						K-40	8.902E+00
						RA-226	1.300E+00
						TH-232	1.155E+00
						U-235	2.675E-01
I13	1.00	2.493	0.456	3.930	0.451	Sum	1.180E+01
						CS-137	3.740E-01
						K-40	8.806E+00
						RA-226	1.297E+00
						TH-232	1.110E+00
						U-235	2.099E-01
I14	2.00	2.241	0.451	3.665	0.448	Sum	1.127E+01
						CS-137	3.630E-01
						K-40	8.238E+00
						RA-226	1.094E+00
						TH-232	1.284E+00
						U-235	2.940E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I15	1.00	3.011	0.551	4.145	0.486	Sum	9.286E+00
						CS-137	2.983E-01
						K-40	6.925E+00
						RA-226	9.634E-01
						TH-232	9.480E-01
						U-235	1.518E-01
I16	0.00	2.449	0.379	3.845	0.416	Sum	8.630E+00
						CS-137	6.730E-01
						K-40	6.073E+00
						RA-226	8.889E-01
						TH-232	8.755E-01
						U-235	1.201E-01
I17	-1.00	1.808	0.364	4.855	0.409	Sum	5.537E+00
						CS-137	9.521E-01
						K-40	3.574E+00
						RA-226	4.693E-01
						TH-232	5.121E-01
						U-235	2.978E-02
J08	1.00	3.002	0.465	4.969	0.452	Sum	1.258E+01
						CS-137	4.909E-01
						K-40	9.644E+00
						RA-226	1.163E+00
						TH-232	1.125E+00
						U-235	1.607E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J09	1.00	2.123	0.475	2.454	0.456	Sum	1.088E+01
						CS-137	5.083E-01
						K-40	7.865E+00
						RA-226	1.057E+00
						TH-232	1.302E+00
						U-235	1.519E-01
J10	2.00	2.261	0.379	3.980	0.415	Sum	9.775E+00
						CS-137	3.483E-01
						K-40	6.981E+00
						RA-226	1.151E+00
						TH-232	1.135E+00
						U-235	1.601E-01
J11	1.00	2.319	0.519	4.041	0.473	Sum	9.535E+00
						CS-137	4.323E-01
						K-40	6.843E+00
						RA-226	1.063E+00
						TH-232	1.055E+00
						U-235	1.418E-01
J12	1.00	2.034	0.455	3.205	0.449	Sum	1.027E+01
						CS-137	3.921E-01
						K-40	7.386E+00
						RA-226	1.174E+00
						TH-232	1.139E+00
						U-235	1.815E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J13	1.00	3.701	0.466	3.405	0.455	Sum	1.054E+01
						CS-137	3.595E-01
						K-40	7.630E+00
						RA-226	1.227E+00
						TH-232	1.139E+00
						U-235	1.875E-01
J14	2.00	2.713	0.455	2.978	0.451	Sum	1.149E+01
						CS-137	3.806E-01
						K-40	8.816E+00
						RA-226	1.083E+00
						TH-232	1.006E+00
						U-235	2.093E-01
J15	1.00	1.737	0.437	3.529	0.441	Sum	1.160E+01
						CS-137	3.867E-01
						K-40	8.573E+00
						RA-226	1.119E+00
						TH-232	1.290E+00
						U-235	2.273E-01
J16	1.00	3.061	0.616	4.702	0.509	Sum	1.129E+01
						CS-137	4.503E-01
						K-40	7.964E+00
						RA-226	1.370E+00
						TH-232	1.287E+00
						U-235	2.151E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J17	2.00	2.685	0.450	4.840	0.447	Sum	1.103E+01
						CS-137	1.418E+00
						K-40	6.830E+00
						RA-226	1.149E+00
						TH-232	1.201E+00
						U-235	4.345E-01
J18	2.00	4.269	0.661	8.200	0.527	Sum	7.271E+00
						CS-137	4.335E-01
						K-40	4.987E+00
						RA-226	7.581E-01
						TH-232	9.120E-01
						U-235	1.802E-01
J18R	1.00	2.729	0.918	8.344	0.595	Sum	1.419E+01
						CS-137	4.315E-01
						K-40	1.217E+01
						RA-226	9.285E-01
						TH-232	5.424E-01
						U-235	1.129E-01
K09	2.00	2.939	0.739	4.511	0.551	Sum	1.239E+01
						CS-137	4.405E-01
						K-40	9.336E+00
						RA-226	1.141E+00
						TH-232	1.301E+00
						U-235	1.740E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K10	1.00	1.206	0.485	4.271	0.452	Sum	1.021E+01
						CS-137	5.002E-01
						K-40	6.692E+00
						RA-226	1.187E+00
						TH-232	1.381E+00
						U-235	4.485E-01
K11	2.00	2.369	0.477	4.499	0.450	Sum	1.096E+01
						CS-137	3.737E-01
						K-40	7.954E+00
						RA-226	1.340E+00
						TH-232	1.151E+00
						U-235	1.383E-01
K12	2.00	3.194	0.494	3.743	0.458	Sum	9.884E+00
						CS-137	3.943E-01
						K-40	7.044E+00
						RA-226	1.409E+00
						TH-232	8.310E-01
						U-235	2.053E-01
K13	4.00	2.845	0.520	3.728	0.467	Sum	1.249E+01
						CS-137	4.786E-01
						K-40	9.330E+00
						RA-226	1.317E+00
						TH-232	1.196E+00
						U-235	1.720E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K14	3.00	2.484	0.555	6.358	0.478	Sum	9.690E+00
						CS-137	4.690E-01
						K-40	6.856E+00
						RA-226	1.291E+00
						TH-232	8.620E-01
						U-235	2.120E-01
K15	3.00	3.543	0.475	5.561	0.449	Sum	1.079E+01
						CS-137	2.832E-01
						K-40	7.738E+00
						RA-226	1.237E+00
						TH-232	1.326E+00
						U-235	2.087E-01
K16	2.00	4.650	0.550	3.828	0.479	Sum	1.176E+01
						CS-137	4.613E-01
						K-40	9.149E+00
						RA-226	1.083E+00
						TH-232	1.070E+00
K17	2.00	2.117	0.473	3.409	0.447	Sum	9.751E+00
						CS-137	4.767E-01
						K-40	6.490E+00
						RA-226	1.344E+00
						TH-232	1.228E+00
						U-235	2.119E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K18	3.00	2.571	0.575	6.628	0.485	Sum	1.251E+01
						CS-137	5.837E-01
						K-40	9.132E+00
						RA-226	1.174E+00
						TH-232	1.376E+00
						U-235	2.465E-01
L10	2.00	1.644	0.551	6.024	0.479	Sum	1.364E+01
						CS-137	3.775E-01
						K-40	1.046E+01
						RA-226	1.218E+00
						TH-232	1.396E+00
						U-235	1.925E-01
L11	3.00	1.516	0.610	3.621	0.499	Sum	1.211E+01
						CS-137	4.708E-01
						K-40	9.415E+00
						RA-226	1.031E+00
						TH-232	9.644E-01
						U-235	2.246E-01
L12	2.00	2.395	0.482	4.188	0.452	Sum	1.117E+01
						CS-137	4.725E-01
						K-40	8.076E+00
						RA-226	1.159E+00
						TH-232	1.343E+00
						U-235	1.233E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L13	2.00	3.404	0.489	4.298	0.455	Sum	8.819E+00
						CS-137	4.038E-01
						K-40	6.165E+00
						RA-226	1.002E+00
						TH-232	1.037E+00
						U-235	2.115E-01
L14	2.00	4.581	0.461	4.204	0.445	Sum	1.277E+01
						CS-137	4.133E-01
						K-40	9.379E+00
						RA-226	1.246E+00
						TH-232	1.523E+00
						U-235	2.131E-01
L15	1.00	3.079	0.477	4.485	0.448	Sum	1.223E+01
						CS-137	5.040E-01
						K-40	8.807E+00
						RA-226	1.350E+00
						TH-232	1.166E+00
						U-235	4.076E-01
L16	2.00	2.534	0.510	4.193	0.461	Sum	1.196E+01
						CS-137	4.311E-01
						K-40	8.502E+00
						RA-226	1.215E+00
						TH-232	1.673E+00
						U-235	1.408E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L17	2.00	2.512	0.460	3.630	0.444	Sum	1.233E+01
						CS-137	5.388E-01
						K-40	8.996E+00
						RA-226	1.232E+00
						TH-232	1.379E+00
						U-235	1.855E-01
M11	3.00	2.864	0.524	3.910	0.468	Sum	9.197E+00
						CS-137	2.217E-01
						K-40	5.817E+00
						RA-226	1.067E+00
						TH-232	1.446E+00
						U-235	6.458E-01
M12	2.00	2.101	0.528	3.494	0.470	Sum	1.145E+01
						CS-137	5.058E-01
						K-40	8.508E+00
						RA-226	1.173E+00
						TH-232	1.262E+00
M13	3.00	2.115	0.473	3.407	0.447	Sum	1.020E+01
						CS-137	4.806E-01
						K-40	7.096E+00
						RA-226	1.264E+00
						TH-232	1.138E+00
						U-235	2.178E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M14	3.00	3.346	0.518	4.659	0.466	Sum	1.228E+01
						CS-137	4.671E-01
						K-40	8.791E+00
						RA-226	1.609E+00
						TH-232	1.168E+00
						U-235	2.450E-01
M15	2.00	2.437	0.490	3.470	0.455	Sum	9.244E+00
						CS-137	4.346E-01
						K-40	6.239E+00
						RA-226	1.062E+00
						TH-232	1.321E+00
						U-235	1.875E-01
M16	3.00	1.331	0.446	4.417	0.434	Sum	1.234E+01
						CS-137	3.996E-01
						K-40	9.064E+00
						RA-226	1.349E+00
						TH-232	1.284E+00
						U-235	2.428E-01
N12	3.00	4.386	0.519	5.175	0.466	Sum	1.134E+01
						CS-137	3.776E-01
						K-40	8.419E+00
						RA-226	1.208E+00
						TH-232	1.140E+00
						U-235	1.925E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
N13	3.00	2.388	0.534	4.460	0.472	Sum	1.267E+01
						CS-137	3.782E-01
						K-40	9.615E+00
						RA-226	1.063E+00
						TH-232	1.395E+00
						U-235	2.205E-01
N14	3.00	2.589	0.521	3.313	0.468	Sum	8.994E+00
						CS-137	3.358E-01
						K-40	5.675E+00
						RA-226	1.263E+00
						TH-232	1.612E+00
						U-235	1.079E-01
N15	3.00	1.590	0.457	6.135	0.443	Sum	1.299E+01
						CS-137	1.060E+00
						K-40	8.637E+00
						RA-226	1.512E+00
						TH-232	1.536E+00
						U-235	2.400E-01
N16	3.00	0.999	0.503	3.496	0.458	Sum	1.512E+01
						CS-137	6.452E-01
						K-40	1.212E+01
						RA-226	1.028E+00
						TH-232	1.194E+00
						U-235	1.300E-01

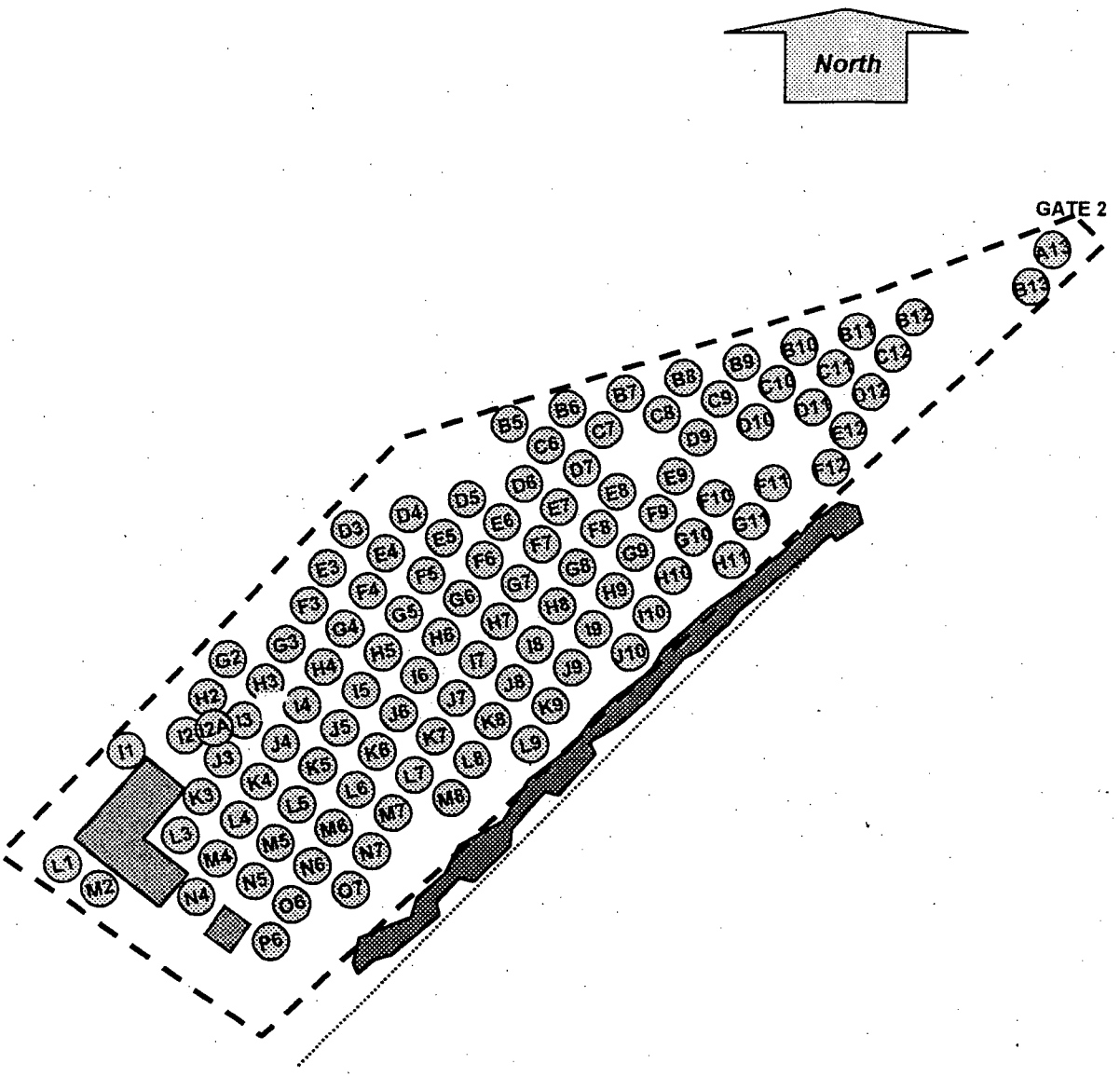
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
O13	2.00	3.814	0.512	4.271	0.461	Sum	9.706E+00
						CS-137	3.794E-01
						K-40	6.583E+00
						RA-226	1.309E+00
						TH-232	1.247E+00
						U-235	1.874E-01
O14	3.00	3.632	0.562	7.136	0.483	Sum	8.385E+00
						CS-137	6.194E-01
						K-40	5.802E+00
						RA-226	1.028E+00
						TH-232	7.320E-01
						U-235	2.036E-01
O15	2.00	1.897	0.477	3.749	0.449	Sum	1.155E+01
						CS-137	6.373E-01
						K-40	8.496E+00
						RA-226	1.140E+00
						TH-232	1.113E+00
						U-235	1.644E-01
P14	2.00	2.439	0.446	3.952	0.435	Sum	1.112E+01
						CS-137	1.141E+00
						K-40	7.012E+00
						RA-226	1.219E+00
						TH-232	1.514E+00
						U-235	2.332E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
P15	2.00	2.156	0.434	3.996	0.431	Sum	1.093E+01
						CS-137	6.810E-01
						K-40	6.777E+00
						RA-226	1.409E+00
						TH-232	1.407E+00
						U-235	6.556E-01

		Alpha		Beta		Gamma (Sum)
Minimum	-1	0.841	0.316	2.220	0.318	5.222E+00
Maximum	4	5.121	0.918	10.337	0.595	2.837E+01
Average	2	2.716	0.539	4.441	0.451	1.073E+01

G14R was a soil sample retaken at stake G14
J18R was a soil sample retaken at stake J18

Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone F



X0 *Grid id sample point*

X0X Investigative flag follow-up sample points

Gamma dose rate greater than 5 microR per hour above background.

08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION	SOIL ZONE: 2 SUBZONE: F

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
A13 - E06	ELLIOTT	06-Jun-97	00926	723416							9	N/A
E03 - H08	ELLIOTT	09-Jun-97	00916	723414							10	N/A
H09 - L01	ELLIOTT	10-Jun-97	00951	723417							10	N/A
L03 - P06	ELLIOTT	11-Jun-97	00951	723417							10	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION	SOIL
	ZONE: 2 SUBZONE: F

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
A13 - E06	1398	.01 - .38	
E03 - H08	1400	.01 - .38	
H09 - L01	1404	.01 - .38	
L03 - P06	1406	.01 - .24	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 2 SUBZONE: F

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
A13	0.00	0.979	0.867	3.017	0.397	Sum	3.884E+00
						CS-137	1.931E-01
						K-40	3.023E+00
						RA-226	3.223E-01
						TH-232	2.383E-01
						U-235	1.072E-01
B05	-2.00	0.983	0.435	2.306	0.319	Sum	5.923E+00
						CS-137	2.637E-01
						K-40	4.374E+00
						RA-226	5.841E-01
						TH-232	6.251E-01
						U-235	7.623E-02
B06	-1.00	1.531	0.452	2.148	0.323	Sum	5.609E+00
						CS-137	3.955E-01
						K-40	4.033E+00
						RA-226	6.014E-01
						TH-232	4.825E-01
						U-235	9.705E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B07	-1.00	1.003	0.444	1.694	0.319	Sum	5.115E+00
						CS-137	1.721E-01
						K-40	3.878E+00
						RA-226	5.351E-01
						TH-232	4.723E-01
						U-235	5.725E-02
B08	-1.00	2.101	0.508	2.088	0.333	Sum	6.846E+00
						CS-137	4.392E-01
						K-40	4.680E+00
						RA-226	8.225E-01
						TH-232	7.112E-01
						U-235	1.933E-01
B09	0.00	2.978	0.609	4.073	0.356	Sum	7.459E+00
						CS-137	3.581E-01
						K-40	5.396E+00
						RA-226	8.648E-01
						TH-232	6.795E-01
						U-235	1.605E-01
B10	-1.00	2.972	0.564	3.363	0.346	Sum	7.767E+00
						CS-137	2.412E-01
						K-40	5.689E+00
						RA-226	8.552E-01
						TH-232	7.832E-01
						U-235	1.985E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B11	-1.00	2.361	0.628	2.245	0.358	Sum	7.435E+00
						CS-137	4.022E-01
						K-40	5.369E+00
						RA-226	8.401E-01
						TH-232	6.877E-01
						U-235	1.357E-01
B13	-1.00	1.537	0.454	3.133	0.323	Sum	8.878E+00
						CS-137	3.789E-01
						K-40	6.608E+00
						RA-226	9.520E-01
						TH-232	8.243E-01
						U-235	1.145E-01
C06	-1.00	2.424	0.460	2.099	0.325	Sum	6.725E+00
						CS-137	9.829E-02
						K-40	5.264E+00
						RA-226	5.837E-01
						TH-232	6.172E-01
						U-235	1.622E-01
C07	-1.00	2.617	0.535	3.164	0.339	Sum	6.384E+00
						CS-137	2.153E-01
						K-40	4.830E+00
						RA-226	6.155E-01
						TH-232	6.307E-01
						U-235	9.293E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
C08	0.00	2.073	0.424	1.909	0.314	Sum	5.399E+00
						CS-137	2.608E-01
						K-40	3.993E+00
						RA-226	4.470E-01
						TH-232	6.237E-01
						U-235	7.418E-02
C09	0.00	1.814	0.603	2.283	0.354	Sum	6.370E+00
						CS-137	1.944E-01
						K-40	4.711E+00
						RA-226	6.711E-01
						TH-232	6.741E-01
						U-235	1.197E-01
C10	0.00	1.217	0.539	2.725	0.341	Sum	5.900E+00
						CS-137	2.326E-01
						K-40	4.320E+00
						RA-226	6.440E-01
						TH-232	5.360E-01
						U-235	1.670E-01
C11	-1.00	2.518	0.478	2.424	0.327	Sum	6.449E+00
						CS-137	7.777E-02
						K-40	4.752E+00
						RA-226	7.785E-01
						TH-232	6.756E-01
						U-235	1.647E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
C12	-1.00	1.563	0.519	2.490	0.336	Sum	8.206E+00
						CS-137	2.663E-01
						K-40	6.028E+00
						RA-226	9.317E-01
						TH-232	8.549E-01
						U-235	1.247E-01
D03	0.00	1.909	0.507	2.351	0.334	Sum	6.739E+00
						CS-137	4.475E-01
						K-40	4.774E+00
						RA-226	6.809E-01
						TH-232	6.514E-01
						U-235	1.857E-01
D04	0.00	1.467	0.780	3.282	0.383	Sum	1.008E+01
						CS-137	4.514E-01
						K-40	7.636E+00
						RA-226	8.887E-01
						TH-232	9.828E-01
						U-235	1.202E-01
D05	1.00	2.086	0.554	2.288	0.344	Sum	9.073E+00
						CS-137	3.063E-01
						K-40	6.985E+00
						RA-226	8.573E-01
						TH-232	8.525E-01
						U-235	7.143E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D06	-1.00	1.550	0.589	1.593	0.351	Sum	8.132E+00
						CS-137	2.589E-01
						K-40	5.972E+00
						RA-226	8.509E-01
						TH-232	8.485E-01
						U-235	2.015E-01
D07	0.00	0.782	0.693	3.750	0.371	Sum	9.227E+00
						CS-137	3.050E-01
						K-40	7.243E+00
						RA-226	7.416E-01
						TH-232	7.856E-01
						U-235	1.515E-01
D09	-1.00	2.051	0.545	2.538	0.342	Sum	7.047E+00
						CS-137	3.933E-01
						K-40	5.275E+00
						RA-226	6.559E-01
						TH-232	6.159E-01
						U-235	1.064E-01
D10	0.00	3.210	0.502	3.826	0.334	Sum	5.805E+00
						CS-137	3.858E-01
						K-40	4.173E+00
						RA-226	5.542E-01
						TH-232	5.882E-01
						U-235	1.040E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D11	-1.00	2.120	0.402	2.546	0.311	Sum	5.957E+00
						CS-137	3.035E-01
						K-40	4.210E+00
						RA-226	5.091E-01
						TH-232	6.936E-01
						U-235	2.403E-01
D12	-1.00	1.310	0.497	2.582	0.331	Sum	8.044E+00
						CS-137	2.591E-01
						K-40	6.036E+00
						RA-226	7.952E-01
						TH-232	7.616E-01
						U-235	1.919E-01
E03	0.00	2.742	0.597	2.511	0.397	Sum	7.685E+00
						CS-137	1.977E-01
						K-40	5.618E+00
						RA-226	8.940E-01
						TH-232	8.477E-01
						U-235	1.280E-01
E04	-1.00	2.410	0.637	3.408	0.407	Sum	9.349E+00
						CS-137	3.429E-01
						K-40	7.141E+00
						RA-226	8.549E-01
						TH-232	8.812E-01
						U-235	1.288E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E05	-1.00	2.145	0.635	3.727	0.404	Sum	9.548E+00
						CS-137	2.243E-01
						K-40	7.586E+00
						RA-226	8.068E-01
						TH-232	7.709E-01
						U-235	1.603E-01
E06	0.00	2.922	0.777	3.448	0.385	Sum	1.031E+01
						CS-137	2.859E-01
						K-40	7.870E+00
						RA-226	9.070E-01
						TH-232	9.262E-01
						U-235	3.218E-01
E07	1.00	3.404	0.822	4.115	0.393	Sum	1.143E+01
						CS-137	3.091E-01
						K-40	8.993E+00
						RA-226	9.821E-01
						TH-232	9.798E-01
						U-235	1.708E-01
E08	0.00	2.127	0.628	3.882	0.357	Sum	9.028E+00
						CS-137	3.434E-01
						K-40	6.826E+00
						RA-226	8.638E-01
						TH-232	8.753E-01
						U-235	1.192E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E09	-1.00	2.484	0.472	2.233	0.327	Sum	6.958E+00
						CS-137	2.804E-01
						K-40	5.355E+00
						RA-226	5.462E-01
						TH-232	6.323E-01
						U-235	1.444E-01
E12	-1.00	0.805	0.428	1.982	0.316	Sum	6.738E+00
						CS-137	2.808E-01
						K-40	4.811E+00
						RA-226	7.419E-01
						TH-232	7.880E-01
						U-235	1.165E-01
F03	1.00	3.160	0.584	2.300	0.396	Sum	7.787E+00
						CS-137	2.375E-01
						K-40	6.062E+00
						RA-226	6.747E-01
						TH-232	6.953E-01
						U-235	1.176E-01
F04	0.00	1.743	0.586	2.212	0.392	Sum	8.610E+00
						CS-137	2.225E-01
						K-40	6.802E+00
						RA-226	6.841E-01
						TH-232	7.561E-01
						U-235	1.458E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F05	0.00	2.485	0.735	4.416	0.424	Sum	9.728E+00
						CS-137	2.788E-01
						K-40	7.403E+00
						RA-226	8.642E-01
						TH-232	9.905E-01
						U-235	1.913E-01
F06	0.00	2.756	0.728	4.055	0.424	Sum	9.730E+00
						CS-137	2.675E-01
						K-40	7.532E+00
						RA-226	8.325E-01
						TH-232	9.426E-01
						U-235	1.556E-01
F07	-1.00	2.721	0.805	3.753	0.439	Sum	1.047E+01
						CS-137	2.762E-01
						K-40	7.876E+00
						RA-226	9.729E-01
						TH-232	1.100E+00
						U-235	2.459E-01
F08	1.00	3.324	0.878	3.731	0.455	Sum	1.174E+01
						CS-137	4.046E-01
						K-40	8.995E+00
						RA-226	9.980E-01
						TH-232	1.156E+00
						U-235	1.819E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F09	0.00	1.483	0.844	3.343	0.445	Sum	1.240E+01
						CS-137	4.395E-01
						K-40	9.326E+00
						RA-226	9.908E-01
						TH-232	1.334E+00
						U-235	3.098E-01
F10	-1.00	1.956	0.658	3.315	0.413	Sum	9.155E+00
						CS-137	2.681E-01
						K-40	6.836E+00
						RA-226	8.060E-01
						TH-232	6.984E-01
						U-235	5.465E-01
F11	-2.00	1.482	0.439	1.602	0.361	Sum	5.977E+00
						CS-137	1.339E-01
						K-40	4.473E+00
						RA-226	5.323E-01
						TH-232	7.357E-01
						U-235	1.022E-01
F12	-2.00	1.619	0.428	3.025	0.361	Sum	6.500E+00
						CS-137	3.832E-01
						K-40	4.946E+00
						RA-226	5.155E-01
						TH-232	5.365E-01
						U-235	1.185E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G02	0.00	0.854	0.486	2.813	0.374	Sum	7.201E+00
						CS-137	5.013E-01
						K-40	4.769E+00
						RA-226	7.313E-01
						TH-232	7.699E-01
						U-235	4.290E-01
G03	-1.00	2.214	0.482	2.231	0.373	Sum	6.294E+00
						CS-137	2.861E-01
						K-40	4.596E+00
						RA-226	6.503E-01
						TH-232	6.736E-01
						U-235	8.809E-02
G04	-1.00	1.276	0.378	2.515	0.342	Sum	5.821E+00
						CS-137	4.017E-01
						K-40	4.119E+00
						RA-226	5.388E-01
						TH-232	6.100E-01
						U-235	1.515E-01
G05	0.00	0.512	0.541	2.024	0.382	Sum	9.164E+00
						CS-137	2.396E-01
						K-40	6.975E+00
						RA-226	8.554E-01
						TH-232	8.938E-01
						U-235	1.999E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G06	0.00	2.072	0.697	2.460	0.423	Sum	9.551E+00
						CS-137	9.948E-02
						K-40	7.350E+00
						RA-226	1.036E+00
						TH-232	8.800E-01
						U-235	1.858E-01
G07	1.00	2.270	0.763	3.553	0.433	Sum	7.493E+00
						CS-137	2.125E-01
						K-40	5.874E+00
						RA-226	7.231E-01
						TH-232	5.928E-01
						U-235	9.081E-02
G08	1.00	3.308	0.979	4.093	0.470	Sum	1.372E+01
						CS-137	2.988E-01
						K-40	1.118E+01
						RA-226	1.058E+00
						TH-232	1.018E+00
						U-235	1.702E-01
G09	0.00	3.431	0.819	2.953	0.443	Sum	1.075E+01
						CS-137	2.826E-01
						K-40	8.092E+00
						RA-226	9.889E-01
						TH-232	1.176E+00
						U-235	2.122E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G10	0.00	3.538	0.935	3.104	0.466	Sum	1.175E+01
						CS-137	4.572E-01
						K-40	9.021E+00
						RA-226	8.412E-01
						TH-232	1.273E+00
						U-235	1.596E-01
G11	1.00	0.854	0.632	3.202	0.407	Sum	9.405E+00
						CS-137	3.552E-01
						K-40	7.195E+00
						RA-226	8.098E-01
						TH-232	9.477E-01
						U-235	9.737E-02
H02	-2.00	2.737	0.389	1.309	0.348	Sum	3.968E+00
						CS-137	4.590E-02
						K-40	2.840E+00
						RA-226	4.760E-01
						TH-232	4.900E-01
						U-235	1.164E-01
H03	-3.00	0.955	0.442	2.355	0.363	Sum	4.171E+00
						CS-137	1.340E-01
						K-40	3.086E+00
						RA-226	4.178E-01
						TH-232	4.425E-01
						U-235	9.028E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H04	-2.00	0.808	0.460	2.267	0.369	Sum	4.022E+00
						CS-137	2.201E-01
						K-40	2.737E+00
						RA-226	4.180E-01
						TH-232	5.798E-01
						U-235	6.667E-02
H05	2.00	3.513	0.928	4.023	0.462	Sum	8.839E+00
						CS-137	9.054E-01
						K-40	6.193E+00
						RA-226	7.282E-01
						TH-232	8.254E-01
						U-235	1.872E-01
H06	1.00	2.359	0.698	3.164	0.421	Sum	8.770E+00
						CS-137	3.807E-01
						K-40	6.554E+00
						RA-226	8.443E-01
						TH-232	8.908E-01
						U-235	9.984E-02
H07	1.00	1.686	0.779	2.832	0.436	Sum	1.145E+01
						CS-137	3.390E-01
						K-40	8.932E+00
						RA-226	1.033E+00
						TH-232	9.668E-01
						U-235	1.763E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H08	1.00	4.930	1.073	3.695	0.481	Sum	1.227E+01
						CS-137	4.237E-01
						K-40	9.304E+00
						RA-226	9.957E-01
						TH-232	1.033E+00
						U-235	5.099E-01
H09	3.00	1.189	0.676	2.035	0.398	Sum	1.146E+01
						CS-137	4.429E-01
						K-40	8.457E+00
						RA-226	1.170E+00
						TH-232	1.038E+00
						U-235	3.479E-01
H10	1.00	2.411	0.637	3.322	0.389	Sum	1.119E+01
						CS-137	3.748E-01
						K-40	8.493E+00
						RA-226	1.112E+00
						TH-232	1.081E+00
						U-235	1.290E-01
H11	1.00	1.503	0.695	2.994	0.402	Sum	5.984E+00
						CS-137	2.724E-02
						K-40	4.765E+00
						RA-226	5.358E-01
						TH-232	5.655E-01
						U-235	9.093E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I01	-2.00	1.537	0.599	2.551	0.379	Sum	9.114E+00
						CS-137	4.308E-01
						K-40	6.636E+00
						RA-226	9.509E-01
						TH-232	9.518E-01
						U-235	1.448E-01
I02	1.00	0.391	0.413	1.366	0.339	Sum	7.275E+00
						CS-137	2.311E-01
						K-40	5.319E+00
						RA-226	8.087E-01
						TH-232	8.829E-01
						U-235	3.304E-02
I02A	0.00	1.802	0.533	1.480	0.367	Sum	8.923E+00
						CS-137	3.932E-01
						K-40	6.245E+00
						RA-226	1.160E+00
						TH-232	1.004E+00
						U-235	1.206E-01
I03	-2.00	2.938	0.472	1.996	0.353	Sum	3.426E+00
						CS-137	1.312E-01
						K-40	2.004E+00
						RA-226	5.957E-01
						TH-232	6.100E-01
						U-235	8.542E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I04	0.00	2.503	0.842	3.373	0.422	Sum	9.776E+00
						CS-137	1.376E-01
						K-40	7.360E+00
						RA-226	9.894E-01
						TH-232	1.079E+00
						U-235	2.101E-01
I05	0.00	1.564	0.723	2.776	0.401	Sum	7.724E+00
						CS-137	5.370E-01
						K-40	5.898E+00
						RA-226	6.090E-01
						TH-232	5.736E-01
						U-235	1.065E-01
I06	1.00	5.823	1.164	5.541	0.470	Sum	1.179E+01
						CS-137	8.689E-01
						K-40	8.656E+00
						RA-226	8.796E-01
						TH-232	1.048E+00
						U-235	3.347E-01
I07	2.00	2.924	0.773	2.771	0.412	Sum	8.439E+00
						CS-137	3.546E-01
						K-40	6.256E+00
						RA-226	7.447E-01
						TH-232	9.023E-01
						U-235	1.813E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I08	1.00	1.367	1.011	4.037	0.454	Sum	1.244E+01
						CS-137	4.230E-01
						K-40	9.518E+00
						RA-226	9.886E-01
						TH-232	1.184E+00
						U-235	3.292E-01
I09	1.00	3.317	1.292	4.091	0.490	Sum	1.329E+01
						CS-137	5.319E-01
						K-40	1.045E+01
						RA-226	9.243E-01
						TH-232	1.197E+00
						U-235	1.891E-01
I10	2.00	2.177	1.006	3.786	0.453	Sum	1.310E+01
						CS-137	8.712E-01
						K-40	9.824E+00
						RA-226	1.055E+00
						TH-232	1.102E+00
						U-235	2.466E-01
J03	0.00	2.505	0.662	2.706	0.391	Sum	8.292E+00
						CS-137	2.249E-01
						K-40	6.134E+00
						RA-226	9.404E-01
						TH-232	8.539E-01
						U-235	1.389E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J04	-1.00	0.615	0.455	2.041	0.350	Sum	4.845E+00
						CS-137	2.956E-01
						K-40	3.582E+00
						RA-226	4.051E-01
						TH-232	4.894E-01
						U-235	7.331E-02
J05	2.00	1.495	0.851	3.855	0.425	Sum	1.008E+01
						CS-137	3.147E-01
						K-40	7.740E+00
						RA-226	8.953E-01
						TH-232	9.132E-01
						U-235	2.174E-01
J06	1.00	2.552	0.755	3.109	0.407	Sum	9.292E+00
						CS-137	1.917E-01
						K-40	7.160E+00
						RA-226	8.672E-01
						TH-232	9.362E-01
						U-235	1.370E-01
J07	1.00	3.625	0.958	3.210	0.441	Sum	1.016E+01
						CS-137	5.000E-01
						K-40	7.375E+00
						RA-226	9.455E-01
						TH-232	1.157E+00
						U-235	1.828E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J08	3.00	1.351	0.526	2.792	0.366	Sum	1.129E+01
						CS-137	4.434E-01
						K-40	8.634E+00
						RA-226	1.056E+00
						TH-232	9.576E-01
						U-235	1.960E-01
J09	1.00	2.009	0.595	2.295	0.382	Sum	1.306E+01
						CS-137	3.848E-01
						K-40	9.937E+00
						RA-226	1.048E+00
						TH-232	1.292E+00
						U-235	3.994E-01
J10	1.00	1.874	0.730	3.415	0.400	Sum	1.252E+01
						CS-137	5.678E-01
						K-40	9.504E+00
						RA-226	1.152E+00
						TH-232	1.126E+00
						U-235	1.708E-01
K03	0.00	0.398	0.736	3.788	0.409	Sum	9.780E+00
						CS-137	4.010E-01
						K-40	7.009E+00
						RA-226	1.151E+00
						TH-232	1.039E+00
						U-235	1.797E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K04	-2.00	1.612	0.628	2.443	0.383	Sum	6.022E+00
						CS-137	3.762E-01
						K-40	4.220E+00
						RA-226	5.998E-01
						TH-232	7.208E-01
						U-235	1.055E-01
K05	1.00	4.801	0.888	2.606	0.433	Sum	1.070E+01
						CS-137	4.101E-01
						K-40	8.054E+00
						RA-226	8.705E-01
						TH-232	9.272E-01
						U-235	4.351E-01
K06	1.00	1.737	0.676	2.028	0.397	Sum	8.650E+00
						CS-137	2.190E-01
						K-40	6.569E+00
						RA-226	8.300E-01
						TH-232	8.467E-01
						U-235	1.852E-01
K07	2.00	2.446	0.646	2.132	0.390	Sum	8.116E+00
						CS-137	2.456E-01
						K-40	5.788E+00
						RA-226	9.824E-01
						TH-232	8.929E-01
						U-235	2.073E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K08	2.00	0.740	0.782	2.501	0.416	Sum	1.075E+01
						CS-137	6.975E-02
						K-40	8.566E+00
						RA-226	8.638E-01
						TH-232	1.084E+00
						U-235	1.620E-01
K09	0.00	0.447	0.827	3.629	0.425	Sum	1.106E+01
						CS-137	3.057E-01
						K-40	8.720E+00
						RA-226	9.520E-01
						TH-232	9.421E-01
						U-235	1.439E-01
L01	1.00	1.270	0.939	4.153	0.440	Sum	1.161E+01
						CS-137	5.217E-01
						K-40	8.574E+00
						RA-226	1.117E+00
						TH-232	1.090E+00
						U-235	3.117E-01
L03	0.00	3.058	0.385	2.668	0.377	Sum	7.153E+00
						CS-137	6.344E-01
						K-40	5.016E+00
						RA-226	6.527E-01
						TH-232	6.972E-01
						U-235	1.522E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
L04	1.00	0.655	0.439	3.259	0.399	Sum	9.364E+00
						CS-137	2.440E-01
						K-40	6.995E+00
						RA-226	9.632E-01
						TH-232	9.512E-01
						U-235	2.102E-01
L05	1.00	1.809	0.364	2.270	0.368	Sum	7.018E+00
						CS-137	3.731E-01
						K-40	4.875E+00
						RA-226	8.212E-01
						TH-232	8.039E-01
						U-235	1.445E-01
L06	1.00	1.315	0.378	3.540	0.374	Sum	8.148E+00
						CS-137	4.077E-01
						K-40	5.797E+00
						RA-226	1.012E+00
						TH-232	8.213E-01
						U-235	1.103E-01
L07	1.00	2.295	0.462	5.027	0.412	Sum	9.447E+00
						CS-137	3.453E-01
						K-40	7.047E+00
						RA-226	9.738E-01
						TH-232	9.766E-01
						U-235	1.044E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L08	0.00	2.105	0.385	2.037	0.375	Sum	1.008E+01
						CS-137	3.292E-01
						K-40	7.599E+00
						RA-226	8.992E-01
						TH-232	1.142E+00
						U-235	1.088E-01
L09	1.00	1.752	0.504	4.173	0.425	Sum	1.268E+01
						CS-137	8.567E-01
						K-40	9.511E+00
						RA-226	1.032E+00
						TH-232	1.055E+00
						U-235	2.223E-01
M02	0.00	0.671	0.450	2.555	0.403	Sum	9.527E+00
						CS-137	1.909E-01
						K-40	6.971E+00
						RA-226	1.162E+00
						TH-232	1.060E+00
						U-235	1.427E-01
M04	0.00	1.755	0.392	2.217	0.382	Sum	9.529E+00
						CS-137	6.019E-01
						K-40	6.771E+00
						RA-226	9.511E-01
						TH-232	1.012E+00
						U-235	1.927E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M05	1.00	2.945	0.456	3.745	0.404	Sum	1.034E+01
						CS-137	3.467E-01
						K-40	7.250E+00
						RA-226	1.247E+00
						TH-232	1.246E+00
						U-235	2.506E-01
M06	0.00	3.063	0.440	3.399	0.398	Sum	8.811E+00
						CS-137	7.639E-01
						K-40	5.907E+00
						RA-226	1.027E+00
						TH-232	1.008E+00
						U-235	1.051E-01
M07	1.00	2.298	0.463	3.494	0.401	Sum	9.860E+00
						CS-137	2.197E-01
						K-40	7.610E+00
						RA-226	9.322E-01
						TH-232	9.292E-01
						U-235	1.691E-01
M08	1.00	3.143	0.422	2.559	0.392	Sum	1.066E+01
						CS-137	1.843E-01
						K-40	8.406E+00
						RA-226	9.226E-01
						TH-232	9.935E-01
						U-235	1.511E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
N04	1.00	1.840	0.370	2.193	0.367	Sum	1.037E+01
						CS-137	1.481E-01
						K-40	7.642E+00
						RA-226	1.149E+00
						TH-232	1.240E+00
						U-235	1.859E-01
N05	1.00	2.925	0.491	4.749	0.414	Sum	1.272E+01
						CS-137	4.993E-01
						K-40	9.270E+00
						RA-226	1.257E+00
						TH-232	1.545E+00
						U-235	1.527E-01
N06	2.00	1.951	0.491	3.689	0.414	Sum	1.136E+01
						CS-137	4.393E-01
						K-40	8.178E+00
						RA-226	1.039E+00
						TH-232	1.411E+00
						U-235	2.968E-01
N07	0.00	3.628	0.384	3.150	0.377	Sum	7.078E+00
						CS-137	2.750E-01
						K-40	5.086E+00
						RA-226	7.402E-01
						TH-232	7.525E-01
						U-235	2.245E-01

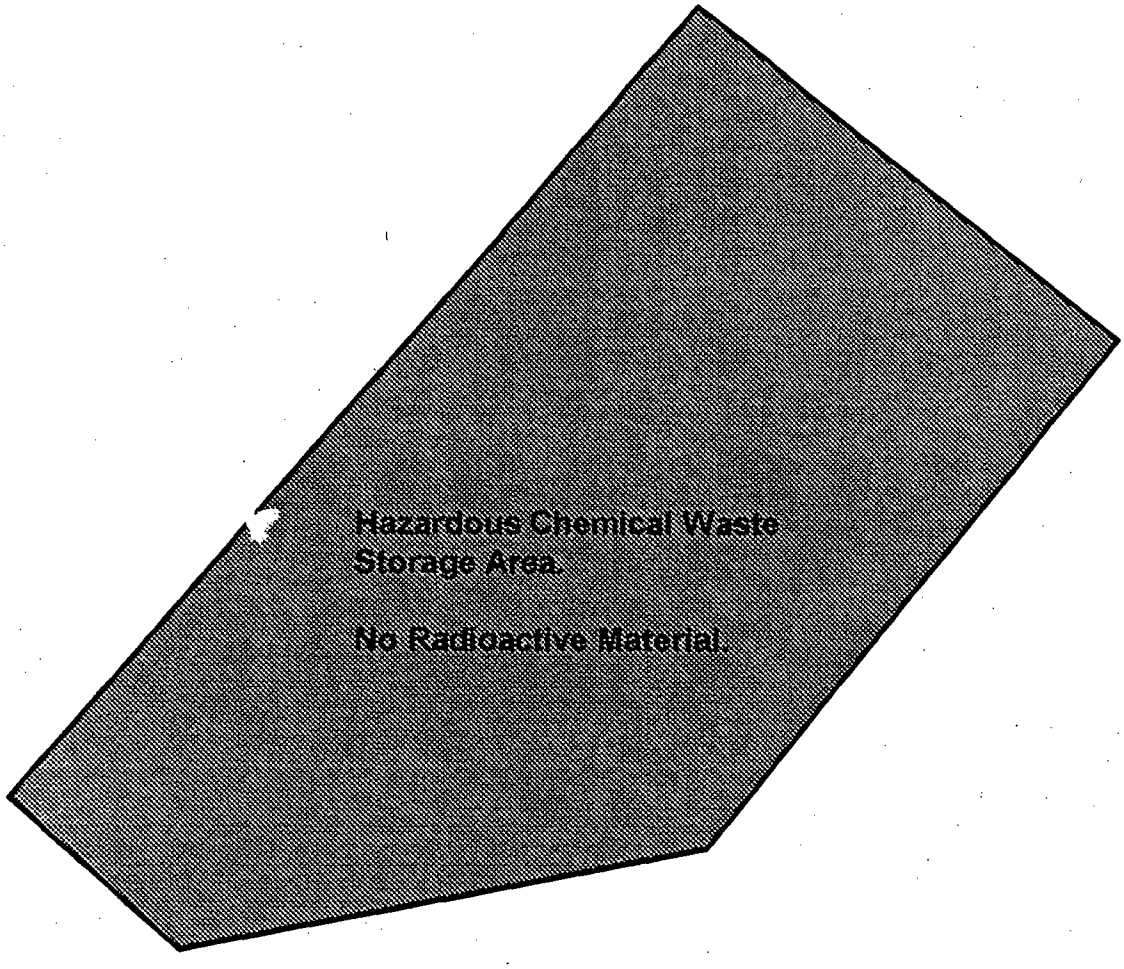
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
O06	1.00	3.141	0.486	4.697	0.416	Sum	1.083E+01
						CS-137	4.986E-01
						K-40	7.918E+00
						RA-226	1.116E+00
						TH-232	1.096E+00
						U-235	1.980E-01
O07	0.00	1.625	0.467	4.407	0.410	Sum	9.977E+00
						CS-137	4.699E-01
						K-40	7.076E+00
						RA-226	1.152E+00
						TH-232	1.127E+00
						U-235	1.518E-01
P06	0.00	2.587	0.521	3.374	0.432	Sum	1.179E+01
						CS-137	3.564E-01
						K-40	9.208E+00
						RA-226	9.999E-01
						TH-232	1.035E+00
						U-235	1.942E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
		Alpha		Beta			Gamma (Sum)
Minimum	-3	0.391	0.364	1.309	0.311		3.426E+00
Maximum	3	5.823	1.292	5.541	0.490		1.372E+01
Average	0	2.107	0.618	2.978	0.388		8.810E+00

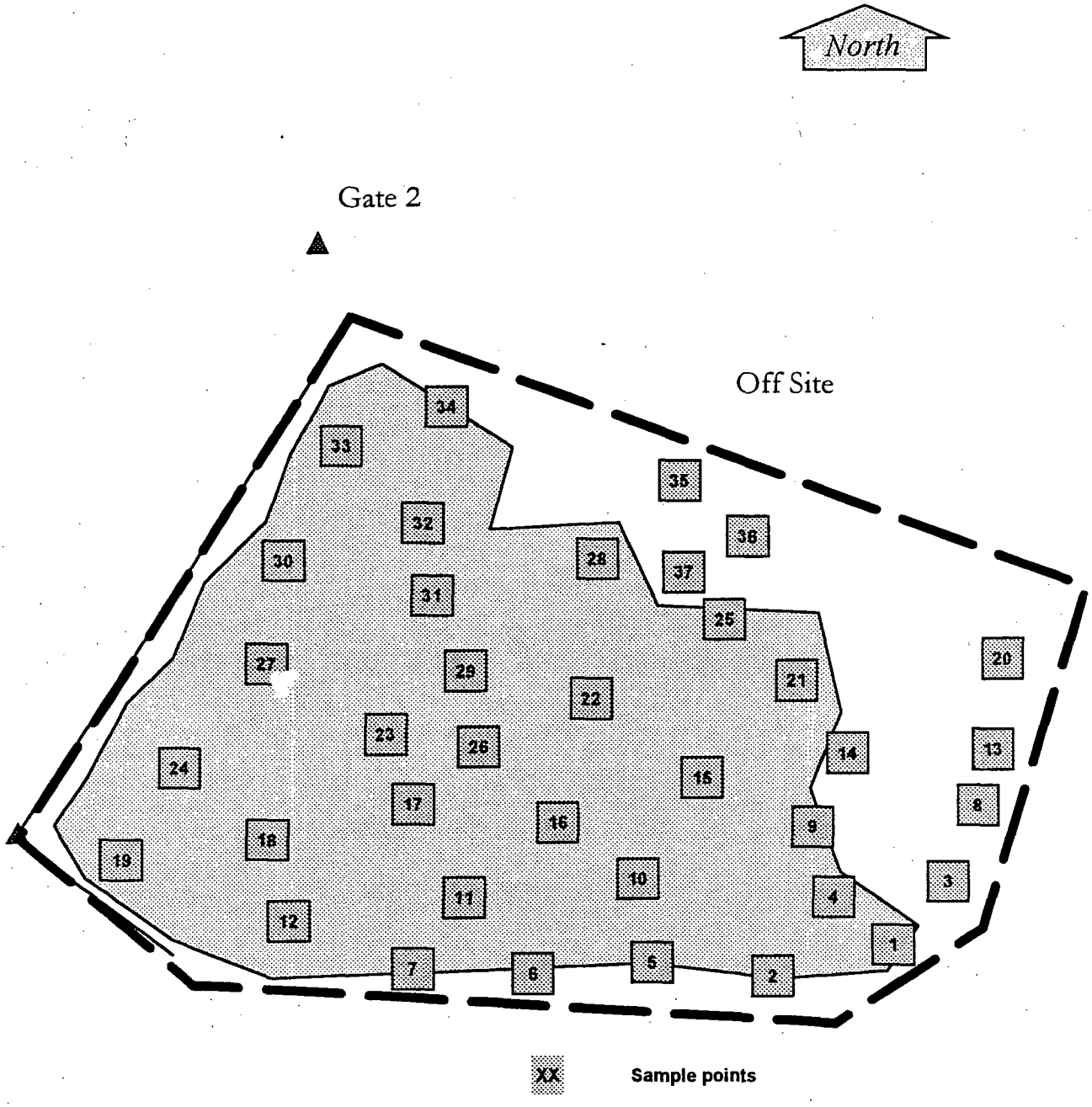
Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone G



Non-impacted area no survey



Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone H



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION	SOIL
	ZONE: 2 SUBZONE: H

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
R01 - R37	EAVES	17-Jul-97	00914	723415							10	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION	SOIL	
	ZONE: 2	SUBZONE: H

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
R01 - R37	1498	.01 - .49	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 2 SUBZONE: H

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
R01	1.00	1.088	0.515	3.886	0.453	Sum	6.957E+00
						CS-137	1.558E-01
						K-40	4.862E+00
						RA-226	9.447E-01
						TH-232	8.705E-01
						U-235	1.240E-01
R02	2.00	1.776	0.841	5.153	0.559	Sum	8.827E+00
						CS-137	3.578E-01
						K-40	6.412E+00
						RA-226	9.791E-01
						TH-232	9.776E-01
						U-235	1.001E-01
R03	0.00	0.926	0.521	2.644	0.456	Sum	6.281E+00
						CS-137	5.901E-01
						K-40	4.016E+00
						RA-226	7.052E-01
						TH-232	8.760E-01
						U-235	9.420E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R04	2.00	1.499	0.613	4.010	0.486	Sum	9.873E+00
						CS-137	4.302E-01
						K-40	6.977E+00
						RA-226	1.131E+00
						TH-232	1.112E+00
						U-235	2.224E-01
R05	1.00	1.270	0.714	4.897	0.522	Sum	1.068E+01
						CS-137	7.519E-01
						K-40	7.822E+00
						RA-226	1.121E+00
						TH-232	8.438E-01
						U-235	1.423E-01
R06	2.00	3.054	0.808	4.442	0.550	Sum	1.098E+01
						CS-137	7.031E-01
						K-40	7.864E+00
						RA-226	1.148E+00
						TH-232	1.099E+00
						U-235	1.686E-01
R07	0.00	2.447	0.881	7.990	0.567	Sum	7.103E+00
						CS-137	3.285E-01
						K-40	4.931E+00
						RA-226	9.609E-01
						TH-232	7.649E-01
						U-235	1.178E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R08	0.00	0.962	0.666	4.399	0.504	Sum	5.125E+00
						CS-137	3.284E-01
						K-40	3.459E+00
						RA-226	6.763E-01
						TH-232	5.688E-01
						U-235	9.261E-02
R09	2.00	1.998	0.580	4.705	0.477	Sum	9.440E+00
						CS-137	4.689E-01
						K-40	6.889E+00
						RA-226	9.741E-01
						TH-232	9.998E-01
						U-235	1.086E-01
R10	0.00	2.695	0.866	4.638	0.563	Sum	1.157E+01
						CS-137	7.756E-01
						K-40	8.351E+00
						RA-226	1.088E+00
						TH-232	1.182E+00
						U-235	1.762E-01
R11	3.00	0.440	0.990	5.406	0.597	Sum	1.352E+01
						CS-137	1.055E+00
						K-40	1.004E+01
						RA-226	1.227E+00
						TH-232	1.004E+00
						U-235	1.920E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R12	2.00	1.221	0.499	2.597	0.448	Sum	6.927E+00
						CS-137	6.251E-01
						K-40	4.711E+00
						RA-226	7.273E-01
						TH-232	7.689E-01
						U-235	9.444E-02
R13	1.00	1.554	0.635	3.520	0.495	Sum	8.860E+00
						CS-137	3.721E-01
						K-40	6.526E+00
						RA-226	8.833E-01
						TH-232	9.650E-01
						U-235	1.133E-01
R14	0.00	0.210	0.473	2.036	0.436	Sum	5.152E+00
						CS-137	3.185E-01
						K-40	3.389E+00
						RA-226	6.984E-01
						TH-232	6.469E-01
						U-235	9.915E-02
R15	2.00	0.819	0.567	4.829	0.474	Sum	8.943E+00
						CS-137	5.044E-01
						K-40	6.842E+00
						RA-226	7.604E-01
						TH-232	7.488E-01
						U-235	8.784E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R16	2.00	2.289	0.824	4.735	0.553	Sum	1.138E+01
						CS-137	7.239E-01
						K-40	8.414E+00
						RA-226	1.040E+00
						TH-232	1.020E+00
						U-235	1.831E-01
R17	1.00	1.286	0.526	3.538	0.456	Sum	1.250E+01
						CS-137	7.107E-01
						K-40	9.516E+00
						RA-226	1.090E+00
						TH-232	1.026E+00
						U-235	1.620E-01
R18	0.00	1.924	0.558	3.333	0.469	Sum	7.567E+00
						CS-137	5.392E-01
						K-40	5.247E+00
						RA-226	8.458E-01
						TH-232	8.021E-01
						U-235	1.330E-01
R19	1.00	2.690	0.563	4.122	0.472	Sum	8.911E+00
						CS-137	6.990E-01
						K-40	6.376E+00
						RA-226	7.937E-01
						TH-232	9.187E-01
						U-235	1.238E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R20	0.00	1.840	0.534	2.373	0.460	Sum	6.680E+00
						CS-137	4.944E-01
						K-40	4.484E+00
						RA-226	8.829E-01
						TH-232	6.650E-01
						U-235	1.539E-01
R21	1.00	1.618	0.520	2.427	0.457	Sum	8.706E+00
						CS-137	3.904E-01
						K-40	6.537E+00
						RA-226	8.525E-01
						TH-232	7.343E-01
						U-235	1.922E-01
R22	1.00	2.145	0.568	3.895	0.472	Sum	8.392E+00
						CS-137	7.320E-01
						K-40	5.400E+00
						RA-226	1.024E+00
						TH-232	1.050E+00
						U-235	1.863E-01
R23	1.00	2.381	0.691	3.813	0.513	Sum	1.026E+01
						CS-137	6.706E-01
						K-40	7.716E+00
						RA-226	7.912E-01
						TH-232	9.567E-01
						U-235	1.270E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R24	1.00	2.397	0.634	4.791	0.494	Sum	9.357E+00
						CS-137	6.391E-01
						K-40	6.896E+00
						RA-226	9.114E-01
						TH-232	7.676E-01
						U-235	1.429E-01
R25	1.00	2.221	0.644	3.854	0.497	Sum	1.026E+01
						CS-137	8.775E-01
						K-40	6.993E+00
						RA-226	1.103E+00
						TH-232	1.113E+00
						U-235	1.725E-01
R26	1.00	0.752	0.676	4.192	0.509	Sum	1.127E+01
						CS-137	9.054E-01
						K-40	8.451E+00
						RA-226	9.042E-01
						TH-232	8.729E-01
						U-235	1.413E-01
R27	1.00	1.121	0.630	4.727	0.495	Sum	7.724E+00
						CS-137	5.746E-01
						K-40	5.445E+00
						RA-226	7.645E-01
						TH-232	7.665E-01
						U-235	1.731E-01

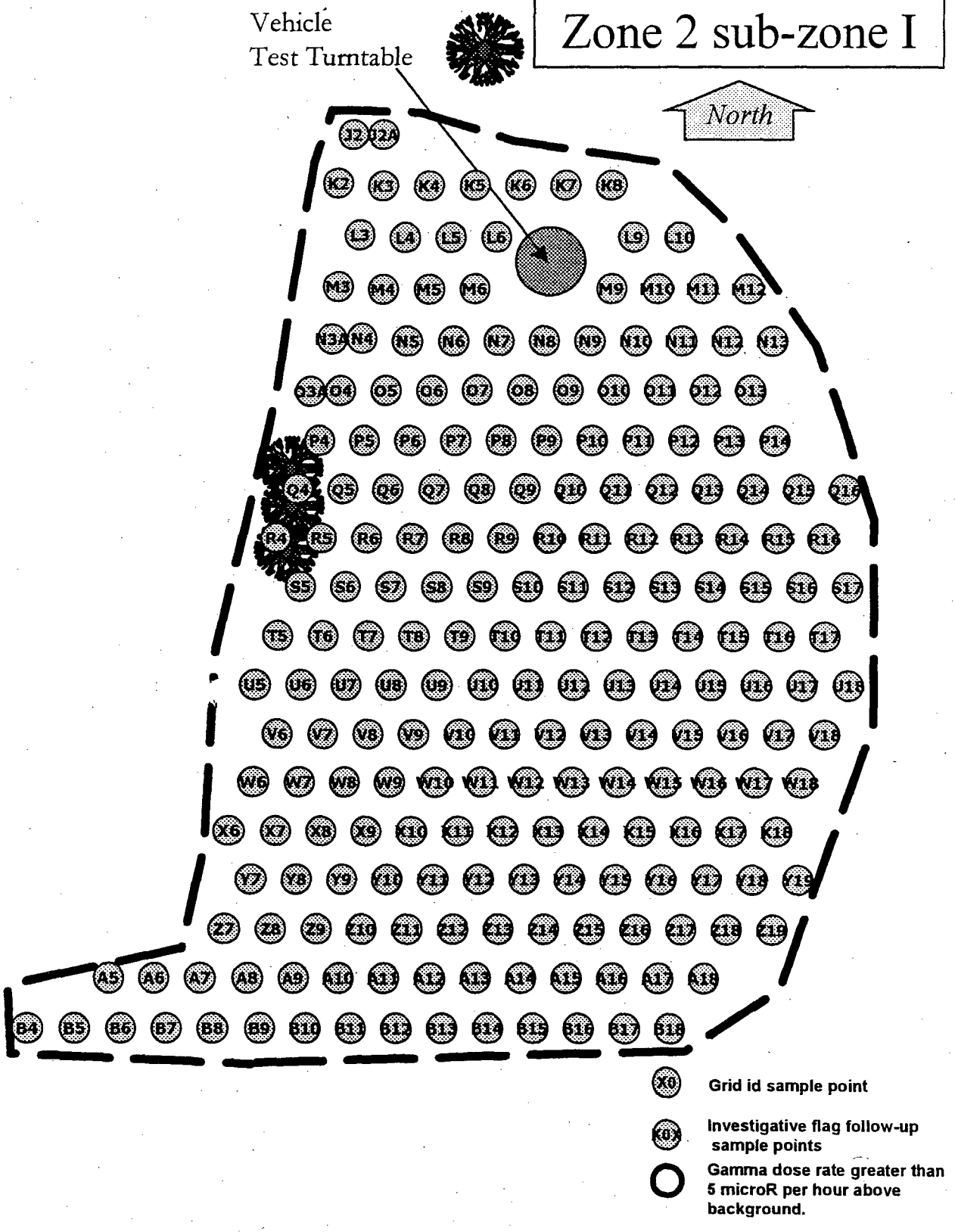
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R28	2.00	2.113	0.864	6.225	0.565	Sum	1.269E+01
						CS-137	1.030E+00
						K-40	9.383E+00
						RA-226	8.686E-01
						TH-232	9.948E-01
						U-235	4.101E-01
R29	1.00	1.174	0.813	7.121	0.549	Sum	1.042E+01
						CS-137	6.233E-01
						K-40	7.707E+00
						RA-226	1.017E+00
						TH-232	9.195E-01
						U-235	1.544E-01
R30	2.00	0.895	0.619	1.484	0.489	Sum	5.765E+00
						CS-137	3.011E-01
						K-40	3.785E+00
						RA-226	8.279E-01
						TH-232	6.716E-01
						U-235	1.795E-01
R31	1.00	2.981	0.670	4.823	0.505	Sum	1.013E+01
						CS-137	6.014E-01
						K-40	7.337E+00
						RA-226	8.620E-01
						TH-232	1.192E+00
						U-235	1.354E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
R32	4.00	0.647	0.582	3.324	0.479	Sum	8.402E+00
						CS-137	7.500E-01
						K-40	5.841E+00
						RA-226	9.017E-01
						TH-232	7.475E-01
						U-235	1.621E-01
R33	1.00	0.837	0.579	4.470	0.476	Sum	7.471E+00
						CS-137	6.078E-01
						K-40	5.238E+00
						RA-226	7.707E-01
						TH-232	6.571E-01
						U-235	1.974E-01
R34	0.00	0.610	0.549	2.847	0.465	Sum	8.292E+00
						CS-137	7.109E-01
						K-40	5.642E+00
						RA-226	6.393E-01
						TH-232	1.086E+00
						U-235	2.134E-01
R35	2.00	0.506	0.650	5.084	0.499	Sum	1.232E+01
						CS-137	8.949E-01
						K-40	8.892E+00
						RA-226	1.120E+00
						TH-232	1.293E+00
						U-235	1.249E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R36	4.00	2.330	0.567	6.254	0.471	Sum	1.166E+01
						CS-137	9.960E-01
						K-40	7.630E+00
						RA-226	1.418E+00
						TH-232	1.441E+00
						U-235	1.731E-01
R37	4.00	2.702	0.496	3.244	0.446	Sum	1.044E+01
						CS-137	3.785E-01
						K-40	6.528E+00
						RA-226	1.614E+00
						TH-232	1.717E+00
						U-235	2.065E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
		Alpha		Beta			Gamma (Sum)
Minimum	0	0.210	0.473	1.484	0.436		5.125E+00
Maximum	4	3.054	0.990	7.990	0.597		1.352E+01
Average	1	1.606	0.647	4.212	0.497		9.212E+00

Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone I



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION	SOIL
	ZONE: 2 SUBZONE: I

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA			BETA			GAMMA	
					BKG	MDA (dpm/100cm²)	EFF. %	BKG	MDA (dpm/100cm²)	EFF. %	BKG (µR/hr)	PROBE AREA
J02 - M09	GATES	10-Jul-97	00926	723416							10	N/A
M10 - P09	GATES	11-Jul-97	00926	723416							10	N/A
P10 - R14	GATES	14-Jul-97	131300	NA							10	N/A
R15 - T05	GATES	15-Jul-97	00926	723416							10	N/A
T06 - V18	ELLIOTT	16-Jul-97	00914	723415							10	N/A
W06 - Y19	ELLIOTT	17-Jul-97	00926	723416							10	N/A
Z07 - B18	ELLIOTT	18-Jul-97	00892	723412							10	N/A
N03A - B05	SCHAEPPI	31-Jul-97	00926	723416							10	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION	SOIL
	ZONE: 2 SUBZONE: I

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
J02 - M09	1471	.01 - .24	
M10 - P09	1472	.01 - .38	
P10 - R14	1478	.01 - .38	
R15 - T05	1485	.01 - .20	
T06 - V18	1489	.01 - .51	
W06 - Y19	1495	.01 - .51	
Z07 - B18	1504	.01 - .51	
N03A - B05	1577	.01 - .05	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION	SOIL	
	ZONE: 2	SUBZONE: I

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
A05	0.00	2.974	0.275	4.374	0.447	Sum	9.282E+00
						CS-137	5.267E-01
						K-40	6.136E+00
						RA-226	6.978E-01
						TH-232	1.159E+00
						U-235	7.621E-01
A06	1.00	2.902	0.327	4.968	0.355	Sum	9.427E+00
						CS-137	3.177E-01
						K-40	7.130E+00
						RA-226	7.748E-01
						TH-232	1.003E+00
						U-235	2.015E-01
A07	2.00	2.109	0.273	2.807	0.329	Sum	7.336E+00
						CS-137	1.708E-01
						K-40	5.259E+00
						RA-226	8.087E-01
						TH-232	1.098E+00

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
A08	2.00	2.355	0.265	2.126	0.324	Sum	4.901E+00
						CS-137	2.033E-01
						K-40	3.273E+00
						RA-226	5.453E-01
						TH-232	5.134E-01
						U-235	3.657E-01
A09	2.00	1.882	0.348	4.225	0.365	Sum	1.026E+01
						CS-137	4.613E-01
						K-40	7.558E+00
						RA-226	9.829E-01
						TH-232	1.063E+00
						U-235	1.969E-01
A10	2.00	2.000	0.280	5.019	0.333	Sum	1.107E+01
						CS-137	4.075E-01
						K-40	8.210E+00
						RA-226	1.169E+00
						TH-232	1.130E+00
						U-235	1.575E-01
A11	2.00	2.521	0.327	5.524	0.356	Sum	9.818E+00
						CS-137	6.527E-01
						K-40	6.959E+00
						RA-226	1.237E+00
						TH-232	8.370E-01
						U-235	1.323E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
A12	2.00	1.929	0.294	3.034	0.339	Sum	1.006E+01
						CS-137	1.750E-01
						K-40	8.096E+00
						RA-226	1.089E+00
						TH-232	5.964E-01
						U-235	1.007E-01
A13	1.00	2.272	0.318	4.668	0.350	Sum	8.269E+00
						CS-137	2.833E-01
						K-40	5.887E+00
						RA-226	8.340E-01
						TH-232	1.189E+00
						U-235	7.564E-02
A14	2.00	1.747	0.266	2.634	0.326	Sum	8.656E+00
						CS-137	3.762E-01
						K-40	6.473E+00
						RA-226	7.569E-01
						TH-232	8.257E-01
						U-235	2.240E-01
A15	2.00	1.591	0.266	3.335	0.325	Sum	7.494E+00
						CS-137	5.021E-01
						K-40	5.295E+00
						RA-226	8.571E-01
						TH-232	7.169E-01
						U-235	1.227E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
A16	1.00	0.440	0.325	5.578	0.355	Sum	9.112E+00
						CS-137	3.006E-01
						K-40	6.884E+00
						RA-226	7.494E-01
						TH-232	1.012E+00
						U-235	1.657E-01
A17	1.00	1.355	0.319	3.295	0.351	Sum	9.123E+00
						CS-137	3.159E-01
						K-40	6.639E+00
						RA-226	1.062E+00
						TH-232	9.075E-01
						U-235	1.990E-01
A18	1.00	2.124	0.324	3.710	0.354	Sum	9.937E+00
						CS-137	2.510E-01
						K-40	7.514E+00
						RA-226	9.544E-01
						TH-232	1.106E+00
						U-235	1.118E-01
B04	-1.00	2.263	0.263	3.424	0.438	Sum	7.910E+00
						K-40	5.789E+00
						RA-226	8.344E-01
						TH-232	1.135E+00
						U-235	1.514E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B05	0.00	2.768	0.388	5.424	0.517	Sum	7.790E+00
						CS-137	1.913E-01
						K-40	6.049E+00
						RA-226	9.246E-01
						TH-232	5.802E-01
						U-235	4.512E-02
B06	1.00	1.973	0.301	4.421	0.343	Sum	6.544E+00
						CS-137	2.394E-01
						K-40	4.462E+00
						RA-226	7.298E-01
						TH-232	9.306E-01
						U-235	1.823E-01
B07	1.00	3.660	0.345	5.239	0.363	Sum	1.042E+01
						CS-137	4.670E-01
						K-40	7.902E+00
						RA-226	9.989E-01
						TH-232	8.603E-01
						U-235	1.965E-01
B08	1.00	3.085	0.262	2.821	0.323	Sum	7.427E+00
						CS-137	3.202E-01
						K-40	5.472E+00
						RA-226	7.183E-01
						TH-232	7.951E-01
						U-235	1.218E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B09	1.00	0.628	0.250	3.052	0.317	Sum	8.025E+00
						CS-137	2.706E-01
						K-40	5.914E+00
						RA-226	9.368E-01
						TH-232	7.122E-01
						U-235	1.910E-01
B10	2.00	1.868	0.312	3.340	0.347	Sum	1.172E+01
						CS-137	5.522E-01
						K-40	8.776E+00
						RA-226	1.354E+00
						TH-232	7.707E-01
						U-235	2.645E-01
B11	2.00	2.485	0.322	4.408	0.354	Sum	1.002E+01
						CS-137	3.498E-01
						K-40	6.756E+00
						RA-226	1.234E+00
						TH-232	1.505E+00
						U-235	1.753E-01
B12	2.00	1.751	0.363	5.677	0.371	Sum	8.435E+00
						CS-137	2.954E-01
						K-40	6.052E+00
						RA-226	1.024E+00
						TH-232	8.633E-01
						U-235	2.001E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B13	1.00	1.797	0.333	3.274	0.357	Sum	8.152E+00
						CS-137	3.483E-01
						K-40	5.804E+00
						RA-226	9.712E-01
						TH-232	8.515E-01
						U-235	1.768E-01
B14	2.00	2.479	0.321	3.631	0.354	Sum	7.900E+00
						CS-137	9.659E-01
						K-40	4.867E+00
						RA-226	7.902E-01
						TH-232	1.171E+00
						U-235	1.062E-01
B15	2.00	1.521	0.315	3.527	0.351	Sum	1.035E+01
						CS-137	3.765E-01
						K-40	7.169E+00
						RA-226	1.274E+00
						TH-232	9.314E-01
						U-235	5.952E-01
B16	2.00	1.615	0.335	4.704	0.359	Sum	8.801E+00
						CS-137	3.189E-01
						K-40	6.655E+00
						RA-226	8.688E-01
						TH-232	8.605E-01
						U-235	9.807E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B17	1.00	3.381	0.302	4.354	0.344	Sum	7.808E+00
						CS-137	2.989E-01
						K-40	5.223E+00
						RA-226	9.982E-01
						TH-232	1.225E+00
						U-235	6.251E-02
B18	1.00	1.679	0.348	3.745	0.365	Sum	1.227E+01
						CS-137	2.940E-01
						K-40	9.713E+00
						RA-226	1.096E+00
						TH-232	9.612E-01
						U-235	2.056E-01
J02	-3.00	1.927	0.270	2.860	0.445	Sum	5.266E+00
						CS-137	2.383E-01
						K-40	3.686E+00
						RA-226	6.002E-01
						TH-232	5.947E-01
						U-235	1.470E-01
J02A	0.00	1.344	0.237	2.635	0.421	Sum	1.404E+01
						CS-137	1.005E-01
						K-40	9.266E+00
						RA-226	2.359E+00
						TH-232	1.994E+00
						U-235	3.192E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K02	0.00	1.828	0.212	2.514	0.402	Sum	3.584E+00
						CS-137	1.336E-01
						K-40	2.255E+00
						RA-226	6.478E-01
						TH-232	4.732E-01
						U-235	7.432E-02
K03	1.00	3.953	0.365	5.017	0.505	Sum	9.397E+00
						CS-137	4.763E-01
						K-40	6.929E+00
						RA-226	9.099E-01
						TH-232	9.326E-01
						U-235	1.491E-01
K04	2.00	2.796	0.325	3.512	0.480	Sum	9.073E+00
						CS-137	3.844E-01
						K-40	6.418E+00
						RA-226	1.045E+00
						TH-232	8.473E-01
						U-235	3.788E-01
K05	1.00	1.622	0.388	4.147	0.518	Sum	1.033E+01
						CS-137	3.655E-01
						K-40	7.649E+00
						RA-226	9.483E-01
						TH-232	1.141E+00
						U-235	2.227E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K06	0.00	3.975	0.461	3.876	0.557	Sum	6.906E+00
						CS-137	2.517E-01
						K-40	5.175E+00
						RA-226	6.406E-01
						TH-232	7.031E-01
						U-235	1.358E-01
K07	0.00	3.825	0.353	3.464	0.498	Sum	7.879E+00
						CS-137	2.100E-01
						K-40	5.890E+00
						RA-226	9.478E-01
						TH-232	7.276E-01
						U-235	1.035E-01
K08	0.00	1.996	0.253	2.481	0.433	Sum	6.512E+00
						CS-137	1.268E-01
						K-40	5.042E+00
						RA-226	6.943E-01
						TH-232	5.722E-01
						U-235	7.696E-02
L03	1.00	3.251	0.377	3.742	0.512	Sum	1.100E+01
						CS-137	8.157E-01
						K-40	8.239E+00
						RA-226	9.879E-01
						TH-232	8.887E-01
						U-235	6.843E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L04	1.00	2.754	0.294	2.966	0.461	Sum	6.571E+00
						CS-137	2.987E-01
						K-40	4.640E+00
						RA-226	7.358E-01
						TH-232	7.953E-01
						U-235	1.007E-01
L05	-1.00	2.362	0.300	3.804	0.465	Sum	8.773E+00
						CS-137	1.772E-01
						K-40	6.358E+00
						RA-226	1.076E+00
						TH-232	9.904E-01
						U-235	1.711E-01
L06	1.00	2.888	0.367	4.761	0.506	Sum	9.131E+00
						CS-137	3.612E-01
						K-40	6.795E+00
						RA-226	8.999E-01
						TH-232	8.916E-01
						U-235	1.834E-01
L09	1.00	1.904	0.298	3.467	0.463	Sum	8.739E+00
						CS-137	2.271E-01
						K-40	6.439E+00
						RA-226	9.509E-01
						TH-232	9.900E-01
						U-235	1.322E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L10	0.00	3.607	0.333	3.209	0.486	Sum	9.538E+00
						CS-137	3.743E-01
						K-40	7.068E+00
						RA-226	9.901E-01
						TH-232	9.560E-01
						U-235	1.501E-01
M03	3.00	2.475	0.265	3.377	0.441	Sum	1.133E+01
						CS-137	7.956E-01
						K-40	8.286E+00
						RA-226	1.043E+00
						TH-232	1.104E+00
						U-235	1.000E-01
M04	0.00	2.038	0.237	2.189	0.421	Sum	8.342E+00
						CS-137	1.434E-01
						K-40	6.294E+00
						RA-226	8.972E-01
						TH-232	9.058E-01
						U-235	1.017E-01
M05	1.00	1.229	0.250	2.842	0.430	Sum	8.541E+00
						CS-137	3.764E-01
						K-40	6.384E+00
						RA-226	9.508E-01
						TH-232	6.931E-01
						U-235	1.366E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M06	1.00	2.098	0.244	1.992	0.426	Sum	8.000E+00
						CS-137	1.558E-01
						K-40	6.275E+00
						RA-226	7.735E-01
						TH-232	6.715E-01
						U-235	1.238E-01
M09	1.00	1.377	0.215	1.465	0.404	Sum	7.138E+00
						CS-137	4.279E-01
						K-40	5.274E+00
						RA-226	7.099E-01
						TH-232	5.906E-01
						U-235	1.354E-01
M10	1.00	1.505	0.509	4.428	0.382	Sum	1.127E+01
						CS-137	3.529E-01
						K-40	8.305E+00
						RA-226	1.249E+00
						TH-232	1.194E+00
						U-235	1.665E-01
M11	2.00	2.595	0.605	4.591	0.411	Sum	9.609E+00
						K-40	7.885E+00
						RA-226	9.071E-01
						TH-232	7.190E-01
						U-235	9.772E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M12	1.00	1.603	0.417	4.084	0.352	Sum	6.686E+00
						CS-137	2.362E-01
						K-40	4.334E+00
						RA-226	1.020E+00
						TH-232	9.838E-01
						U-235	1.122E-01
N03A	3.00	4.824	0.560	7.275	0.602	Sum	1.520E+01
						CS-137	1.422E+00
						K-40	1.112E+01
						RA-226	1.243E+00
						TH-232	1.136E+00
						U-235	2.762E-01
N04	1.00	1.542	0.360	2.243	0.331	Sum	8.654E+00
						CS-137	7.437E-01
						K-40	5.099E+00
						RA-226	1.135E+00
						TH-232	1.481E+00
						U-235	1.949E-01
N05	2.00	2.442	0.472	4.081	0.372	Sum	8.886E+00
						CS-137	3.641E-01
						K-40	6.674E+00
						RA-226	9.065E-01
						TH-232	8.216E-01
						U-235	1.195E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
N06	1.00	1.727	0.403	2.853	0.346	Sum	1.127E+01
						CS-137	6.011E-01
						K-40	8.035E+00
						RA-226	1.021E+00
						TH-232	1.287E+00
						U-235	3.257E-01
N07	1.00	1.204	0.407	3.249	0.349	Sum	6.655E+00
						K-40	5.442E+00
						RA-226	5.706E-01
						TH-232	6.428E-01
N08	0.00	1.947	0.376	2.843	0.336	Sum	6.547E+00
						CS-137	1.213E-01
						K-40	4.896E+00
						RA-226	7.479E-01
						TH-232	6.719E-01
						U-235	1.100E-01
N09	1.00	1.190	0.402	2.205	0.347	Sum	7.906E+00
						K-40	6.228E+00
						RA-226	8.135E-01
						TH-232	7.349E-01
						U-235	1.299E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
N10	3.00	1.887	0.555	5.589	0.396	Sum	1.245E+01
						CS-137	4.239E-01
						K-40	9.388E+00
						RA-226	1.294E+00
						TH-232	1.128E+00
						U-235	2.198E-01
N11	2.00	1.716	0.504	4.117	0.383	Sum	9.745E+00
						CS-137	4.343E-01
						K-40	6.482E+00
						RA-226	1.375E+00
						TH-232	1.361E+00
						U-235	9.244E-02
N12	2.00	3.126	0.399	2.995	0.346	Sum	9.105E+00
						CS-137	4.016E-01
						K-40	6.451E+00
						RA-226	1.115E+00
						TH-232	1.030E+00
						U-235	1.072E-01
N13	1.00	1.730	0.450	1.784	0.365	Sum	8.036E+00
						CS-137	3.797E-01
						K-40	5.848E+00
						RA-226	7.919E-01
						TH-232	8.898E-01
						U-235	1.268E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
O03A	3.00	2.732	0.555	7.567	0.599	Sum	1.706E+01
						CS-137	1.619E+00
						K-40	1.243E+01
						RA-226	1.357E+00
						TH-232	1.432E+00
						U-235	2.265E-01
O04	2.00	1.876	0.551	3.919	0.395	Sum	1.238E+01
						CS-137	7.652E-01
						K-40	9.079E+00
						RA-226	1.057E+00
						TH-232	1.311E+00
						U-235	1.687E-01
O05	0.00	2.432	0.433	4.299	0.358	Sum	8.639E+00
						CS-137	6.149E-01
						K-40	6.229E+00
						RA-226	8.897E-01
						TH-232	6.637E-01
						U-235	2.417E-01
O06	2.00	1.807	0.421	4.547	0.354	Sum	9.832E+00
						CS-137	6.574E-01
						K-40	7.280E+00
						RA-226	1.113E+00
						TH-232	5.516E-01
						U-235	2.303E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
O07	1.00	3.421	0.392	3.251	0.342	Sum	7.396E+00
						CS-137	5.420E-01
						K-40	4.413E+00
						RA-226	8.149E-01
						TH-232	1.196E+00
						U-235	4.304E-01
O08	2.00	1.151	0.389	2.964	0.342	Sum	9.327E+00
						CS-137	8.222E-01
						K-40	6.332E+00
						RA-226	1.142E+00
						TH-232	8.766E-01
						U-235	1.539E-01
O09	2.00	3.603	0.435	3.031	0.358	Sum	8.908E+00
						CS-137	5.300E-01
						K-40	5.755E+00
						RA-226	1.162E+00
						TH-232	1.323E+00
						U-235	1.384E-01
O10	2.00	3.212	0.410	3.312	0.348	Sum	9.912E+00
						CS-137	4.218E-01
						K-40	6.954E+00
						RA-226	1.081E+00
						TH-232	1.111E+00
						U-235	3.443E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
O11	2.00	4.121	0.498	4.253	0.380	Sum	1.040E+01
						CS-137	3.965E-01
						K-40	7.287E+00
						RA-226	1.231E+00
						TH-232	1.448E+00
						U-235	3.833E-02
O12	3.00	3.619	0.521	4.647	0.387	Sum	9.382E+00
						CS-137	3.109E-01
						K-40	6.602E+00
						RA-226	1.157E+00
						TH-232	1.258E+00
						U-235	5.384E-02
O13	0.00	1.618	0.421	2.914	0.353	Sum	8.522E+00
						CS-137	3.580E-01
						K-40	6.323E+00
						RA-226	8.057E-01
						TH-232	7.173E-01
						U-235	3.178E-01
O14	1.00	2.199	0.425	3.745	0.355	Sum	7.893E+00
						CS-137	3.802E-01
						K-40	5.440E+00
						RA-226	1.028E+00
						TH-232	1.009E+00
						U-235	3.571E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
P04	3.00	2.929	0.483	3.019	0.376	Sum	1.193E+01
						CS-137	3.816E-01
						K-40	9.679E+00
						RA-226	9.739E-01
						TH-232	7.282E-01
						U-235	1.671E-01
P05	1.00	1.873	0.487	4.034	0.375	Sum	9.268E+00
						CS-137	2.403E-01
						K-40	7.154E+00
						RA-226	1.072E+00
						TH-232	6.727E-01
						U-235	1.286E-01
P06	1.00	2.549	0.454	3.773	0.365	Sum	1.026E+01
						CS-137	2.494E-01
						K-40	7.361E+00
						RA-226	1.259E+00
						TH-232	1.036E+00
						U-235	3.533E-01
P07	0.00	4.180	0.398	4.716	0.344	Sum	8.160E+00
						CS-137	4.559E-01
						K-40	5.825E+00
						RA-226	9.427E-01
						TH-232	7.768E-01
						U-235	1.596E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
P08	1.00	2.364	0.421	3.063	0.353	Sum	9.526E+00
						CS-137	5.415E-01
						K-40	7.128E+00
						RA-226	8.463E-01
						TH-232	7.811E-01
						U-235	2.286E-01
P09	2.00	3.194	0.459	3.332	0.367	Sum	1.083E+01
						CS-137	4.405E-01
						K-40	7.947E+00
						RA-226	1.028E+00
						TH-232	1.237E+00
						U-235	1.761E-01
P10	1.00	1.851	0.615	3.479	0.541	Sum	1.018E+01
						CS-137	1.590E-01
						K-40	7.870E+00
						RA-226	1.037E+00
						TH-232	9.598E-01
						U-235	1.563E-01
P11	1.00	1.732	0.657	3.246	0.557	Sum	1.003E+01
						CS-137	3.553E-01
						K-40	7.500E+00
						RA-226	1.059E+00
						TH-232	1.001E+00
						U-235	1.124E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
P12	1.00	4.559	0.673	2.437	0.562	Sum	9.315E+00
						CS-137	2.992E-01
						K-40	6.984E+00
						RA-226	9.723E-01
						TH-232	8.886E-01
						U-235	1.712E-01
P13	1.00	1.290	0.490	2.346	0.490	Sum	7.398E+00
						CS-137	3.198E-01
						K-40	5.252E+00
						RA-226	8.648E-01
						TH-232	8.356E-01
						U-235	1.257E-01
P14	1.00	3.521	0.624	2.930	0.545	Sum	8.278E+00
						CS-137	2.430E-01
						K-40	6.448E+00
						RA-226	7.077E-01
						TH-232	7.672E-01
						U-235	1.118E-01
P15	-1.00	1.382	0.459	2.219	0.479	Sum	7.668E+00
						CS-137	4.966E-01
						K-40	5.693E+00
						RA-226	6.132E-01
						TH-232	7.214E-01
						U-235	1.437E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Q04	-1.00	2.308	0.876	6.197	0.628	Sum	9.639E+00
						CS-137	9.230E-01
						K-40	6.974E+00
						RA-226	7.826E-01
						TH-232	8.452E-01
						U-235	1.138E-01
Q05	0.00	1.462	0.648	1.902	0.553	Sum	1.073E+01
						CS-137	7.421E-02
						K-40	8.506E+00
						RA-226	1.083E+00
						TH-232	9.225E-01
						U-235	1.415E-01
Q06	0.00	3.079	0.512	2.987	0.499	Sum	8.148E+00
						CS-137	2.366E-01
						K-40	5.855E+00
						RA-226	9.130E-01
						TH-232	1.002E+00
						U-235	1.415E-01
Q07	0.00	2.993	0.568	3.668	0.522	Sum	1.008E+01
						CS-137	3.722E-01
						K-40	7.567E+00
						RA-226	1.039E+00
						TH-232	9.575E-01
						U-235	1.415E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Q08	0.00	0.359	0.478	1.741	0.485	Sum	9.139E+00
						CS-137	4.015E-01
						K-40	6.943E+00
						RA-226	8.741E-01
						TH-232	7.560E-01
						U-235	1.642E-01
Q09	0.00	1.189	0.527	3.117	0.509	Sum	8.964E+00
						CS-137	4.849E-01
						K-40	6.450E+00
						RA-226	8.182E-01
						TH-232	8.811E-01
						U-235	3.299E-01
Q10	0.00	2.631	0.538	3.661	0.510	Sum	8.524E+00
						CS-137	3.453E-01
						K-40	6.323E+00
						RA-226	8.197E-01
						TH-232	8.508E-01
						U-235	1.855E-01
Q11	1.00	1.904	0.562	4.040	0.520	Sum	1.012E+01
						CS-137	5.111E-01
						K-40	7.501E+00
						RA-226	8.765E-01
						TH-232	1.085E+00
						U-235	1.474E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Q12	1.00	0.877	0.583	3.085	0.529	Sum	1.178E+01
						CS-137	5.206E-01
						K-40	8.618E+00
						RA-226	1.111E+00
						TH-232	1.142E+00
						U-235	3.870E-01
Q13	0.00	1.913	0.636	1.963	0.547	Sum	9.366E+00
						CS-137	3.342E-01
						K-40	6.955E+00
						RA-226	9.610E-01
						TH-232	9.257E-01
						U-235	1.902E-01
Q14	0.00	1.508	0.802	3.428	0.603	Sum	1.243E+01
						CS-137	2.483E-01
						K-40	9.782E+00
						RA-226	1.095E+00
						TH-232	1.192E+00
						U-235	1.169E-01
Q15	0.00	1.956	0.578	2.837	0.527	Sum	1.069E+01
						CS-137	1.904E-01
						K-40	8.248E+00
						RA-226	1.030E+00
						TH-232	1.091E+00
						U-235	1.336E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Q16	-1.00	0.709	0.471	1.736	0.484	Sum	7.877E+00
						CS-137	4.671E-01
						K-40	5.681E+00
						RA-226	8.645E-01
						TH-232	7.438E-01
						U-235	1.209E-01
R04	-2.00	1.120	0.425	2.279	0.462	Sum	6.308E+00
						CS-137	6.690E-01
						K-40	4.214E+00
						RA-226	6.893E-01
						TH-232	6.237E-01
						U-235	1.118E-01
R05	1.00	4.313	0.717	3.395	0.582	Sum	1.171E+01
						CS-137	5.489E-01
						K-40	8.858E+00
						RA-226	9.427E-01
						TH-232	1.268E+00
						U-235	9.565E-02
R06	0.00	1.087	0.578	3.783	0.527	Sum	1.088E+01
						CS-137	4.646E-01
						K-40	8.536E+00
						RA-226	8.861E-01
						TH-232	8.891E-01
						U-235	1.084E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R07	0.00	2.405	0.533	2.341	0.505	Sum	9.216E+00
						CS-137	9.134E-02
						K-40	7.185E+00
						RA-226	9.637E-01
						TH-232	8.514E-01
						U-235	1.241E-01
R08	0.00	1.598	0.531	2.941	0.504	Sum	8.609E+00
						CS-137	3.390E-01
						K-40	6.469E+00
						RA-226	8.314E-01
						TH-232	8.523E-01
						U-235	1.171E-01
R09	1.00	2.892	0.513	2.161	0.498	Sum	9.227E+00
						CS-137	4.540E-01
						K-40	6.844E+00
						RA-226	8.368E-01
						TH-232	9.724E-01
						U-235	1.197E-01
R10	0.00	1.858	0.494	2.281	0.492	Sum	8.269E+00
						CS-137	3.218E-01
						K-40	5.951E+00
						RA-226	9.872E-01
						TH-232	8.643E-01
						U-235	1.443E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R11	0.00	1.491	0.440	3.901	0.474	Sum	7.083E+00
						CS-137	3.920E-01
						K-40	5.024E+00
						RA-226	6.958E-01
						TH-232	8.429E-01
						U-235	1.287E-01
R12	-1.00	1.034	0.550	2.072	0.513	Sum	8.626E+00
						CS-137	2.072E-01
						K-40	6.446E+00
						RA-226	9.126E-01
						TH-232	8.855E-01
						U-235	1.742E-01
R13	0.00	1.510	0.573	2.664	0.524	Sum	8.414E+00
						CS-137	4.017E-01
						K-40	5.830E+00
						RA-226	9.735E-01
						TH-232	1.074E+00
						U-235	1.345E-01
R14	0.00	2.324	0.562	2.492	0.521	Sum	8.319E+00
						CS-137	3.265E-01
						K-40	6.053E+00
						RA-226	7.716E-01
						TH-232	1.037E+00
						U-235	1.310E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R15	2.00	0.563	0.595	4.624	0.483	Sum	8.058E+00
						CS-137	4.414E-01
						K-40	5.481E+00
						RA-226	8.924E-01
						TH-232	1.063E+00
						U-235	1.802E-01
R16	3.00	1.876	0.496	3.651	0.446	Sum	8.521E+00
						CS-137	3.387E-01
						K-40	6.036E+00
						RA-226	8.434E-01
						TH-232	1.089E+00
						U-235	2.139E-01
S05	3.00	2.602	0.688	4.001	0.510	Sum	1.291E+01
						K-40	9.647E+00
						RA-226	1.566E+00
						TH-232	1.499E+00
						U-235	1.983E-01
S06	1.00	2.004	0.593	4.092	0.479	Sum	8.248E+00
						CS-137	3.285E-01
						K-40	5.772E+00
						RA-226	1.165E+00
						TH-232	9.830E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S07	1.00	2.331	0.466	2.957	0.434	Sum	7.245E+00
						CS-137	3.199E-01
						K-40	5.041E+00
						RA-226	8.597E-01
						TH-232	9.448E-01
						U-235	7.981E-02
S08	3.00	2.227	0.485	2.852	0.441	Sum	7.224E+00
						CS-137	1.377E-01
						K-40	5.397E+00
						RA-226	7.631E-01
						TH-232	8.371E-01
						U-235	8.952E-02
S09	2.00	1.857	0.404	3.076	0.410	Sum	6.495E+00
						CS-137	5.149E-01
						K-40	4.400E+00
						RA-226	7.034E-01
						TH-232	7.693E-01
						U-235	1.075E-01
S10	1.00	1.403	0.415	2.808	0.413	Sum	6.314E+00
						CS-137	3.788E-01
						K-40	4.738E+00
						RA-226	5.734E-01
						TH-232	6.234E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S11	1.00	1.099	0.428	1.904	0.418	Sum	6.569E+00
						CS-137	2.708E-01
						K-40	4.734E+00
						RA-226	7.753E-01
						TH-232	6.899E-01
						U-235	9.939E-02
S12	1.00	2.673	0.535	2.401	0.457	Sum	7.969E+00
						CS-137	5.439E-01
						K-40	5.378E+00
						RA-226	1.062E+00
						TH-232	8.589E-01
						U-235	1.260E-01
S13	2.00	0.733	0.417	2.170	0.413	Sum	9.400E+00
						CS-137	4.240E-01
						K-40	6.703E+00
						RA-226	1.138E+00
						TH-232	1.080E+00
						U-235	5.522E-02
S14	2.00	1.983	0.524	1.837	0.455	Sum	9.854E+00
						CS-137	4.223E-01
						K-40	7.554E+00
						RA-226	8.606E-01
						TH-232	8.944E-01
						U-235	1.226E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S15	2.00	2.393	0.571	3.312	0.474	Sum	7.233E+00
						CS-137	2.815E-01
						K-40	5.080E+00
						RA-226	8.996E-01
						TH-232	8.394E-01
						U-235	1.324E-01
S16	4.00	1.367	0.460	2.484	0.430	Sum	1.074E+01
						CS-137	4.464E-01
						K-40	7.900E+00
						RA-226	1.176E+00
						TH-232	1.001E+00
						U-235	2.209E-01
S17	1.00	1.880	0.497	3.200	0.447	Sum	6.227E+00
						CS-137	3.704E-01
						K-40	3.770E+00
						RA-226	9.466E-01
						TH-232	1.055E+00
						U-235	8.514E-02
T05	2.00	0.896	0.510	2.438	0.450	Sum	9.267E+00
						CS-137	3.552E-01
						K-40	6.293E+00
						RA-226	1.110E+00
						TH-232	1.328E+00
						U-235	1.811E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
T06	2.00	3.601	0.357	3.549	0.478	Sum	8.778E+00
						CS-137	2.451E-01
						K-40	6.106E+00
						RA-226	1.074E+00
						TH-232	1.151E+00
						U-235	2.018E-01
T07	1.00	1.467	0.229	1.615	0.395	Sum	5.871E+00
						CS-137	5.153E-01
						K-40	3.542E+00
						RA-226	9.347E-01
						TH-232	7.321E-01
						U-235	1.470E-01
T08	0.00	1.547	0.217	1.716	0.385	Sum	8.834E+00
						CS-137	4.170E-01
						K-40	6.599E+00
						RA-226	8.503E-01
						TH-232	7.893E-01
						U-235	1.787E-01
T09	1.00	2.025	0.284	4.257	0.432	Sum	7.836E+00
						CS-137	6.301E-01
						K-40	5.503E+00
						RA-226	7.433E-01
						TH-232	7.957E-01
						U-235	1.637E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
T10	1.00	1.879	0.263	3.347	0.419	Sum	6.986E+00
						CS-137	3.834E-01
						K-40	4.689E+00
						RA-226	8.845E-01
						TH-232	9.191E-01
						U-235	1.105E-01
T11	0.00	0.750	0.218	3.654	0.386	Sum	6.882E+00
						CS-137	5.677E-01
						K-40	4.486E+00
						RA-226	9.418E-01
						TH-232	8.117E-01
						U-235	7.456E-02
T12	2.00	1.775	0.277	4.149	0.429	Sum	7.251E+00
						CS-137	5.199E-01
						K-40	4.232E+00
						RA-226	1.114E+00
						TH-232	1.217E+00
						U-235	1.684E-01
T13	2.00	1.560	0.244	2.856	0.405	Sum	7.468E+00
						CS-137	5.449E-01
						K-40	5.124E+00
						RA-226	8.430E-01
						TH-232	7.625E-01
						U-235	1.937E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
T14	1.00	3.429	0.263	3.500	0.419	Sum	8.374E+00
						CS-137	1.470E-01
						K-40	5.249E+00
						RA-226	1.139E+00
						TH-232	1.350E+00
						U-235	4.888E-01
T15	2.00	3.351	0.290	3.819	0.437	Sum	1.018E+01
						CS-137	6.397E-01
						K-40	6.894E+00
						RA-226	1.273E+00
						TH-232	1.099E+00
						U-235	2.757E-01
T16	1.00	2.789	0.298	3.702	0.443	Sum	8.622E+00
						CS-137	5.911E-01
						K-40	5.854E+00
						RA-226	1.158E+00
						TH-232	1.019E+00
T17	1.00	2.861	0.264	3.440	0.421	Sum	7.697E+00
						CS-137	5.012E-01
						K-40	4.881E+00
						RA-226	1.132E+00
						TH-232	9.770E-01
						U-235	2.059E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
U05	1.00	0.972	0.232	2.577	0.396	Sum	7.546E+00
						CS-137	2.712E-01
						K-40	5.414E+00
						RA-226	7.822E-01
						TH-232	9.304E-01
						U-235	1.482E-01
U06	2.00	5.754	0.344	3.231	0.470	Sum	1.387E+01
						CS-137	4.209E-01
						K-40	1.119E+01
						RA-226	1.049E+00
						TH-232	1.008E+00
						U-235	2.069E-01
U07	2.00	2.261	0.262	2.876	0.418	Sum	8.601E+00
						CS-137	4.440E-01
						K-40	5.862E+00
						RA-226	1.163E+00
						TH-232	9.764E-01
						U-235	1.559E-01
U08	1.00	1.880	0.239	2.930	0.404	Sum	8.371E+00
						CS-137	5.594E-01
						K-40	5.739E+00
						RA-226	8.922E-01
						TH-232	1.099E+00
						U-235	8.149E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
U09	1.00	0.939	0.224	2.342	0.394	Sum	6.352E+00
						CS-137	3.856E-01
						K-40	4.031E+00
						RA-226	9.763E-01
						TH-232	8.862E-01
						U-235	7.303E-02
U10	2.00	1.475	0.207	2.340	0.382	Sum	6.860E+00
						CS-137	4.664E-01
						K-40	4.200E+00
						RA-226	1.033E+00
						TH-232	1.028E+00
						U-235	1.322E-01
U11	2.00	0.767	0.223	1.528	0.392	Sum	8.993E+00
						CS-137	3.818E-01
						K-40	6.379E+00
						RA-226	1.023E+00
						TH-232	1.035E+00
						U-235	1.747E-01
U12	1.00	2.226	0.258	2.711	0.417	Sum	6.666E+00
						CS-137	3.830E-01
						K-40	4.615E+00
						RA-226	7.324E-01
						TH-232	7.425E-01
						U-235	1.927E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
U13	2.00	2.218	0.220	2.032	0.391	Sum	8.370E+00
						CS-137	1.389E-01
						K-40	6.311E+00
						RA-226	8.266E-01
						TH-232	9.126E-01
						U-235	1.808E-01
U14	2.00	1.583	0.247	3.920	0.406	Sum	9.121E+00
						CS-137	6.568E-01
						K-40	6.264E+00
						RA-226	9.002E-01
						TH-232	1.148E+00
						U-235	1.516E-01
U15	1.00	2.129	0.298	4.126	0.444	Sum	7.669E+00
						CS-137	5.997E-01
						K-40	4.572E+00
						RA-226	1.122E+00
						TH-232	1.132E+00
						U-235	2.429E-01
U16	2.00	1.781	0.315	2.768	0.452	Sum	1.089E+01
						CS-137	2.901E-01
						K-40	8.063E+00
						RA-226	1.031E+00
						TH-232	1.293E+00
						U-235	2.089E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
U17	2.00	2.183	0.233	2.368	0.398	Sum	7.626E+00
						CS-137	2.616E-01
						K-40	5.044E+00
						RA-226	1.104E+00
						TH-232	1.082E+00
						U-235	1.344E-01
U18	1.00	1.727	0.305	4.153	0.447	Sum	9.596E+00
						CS-137	4.431E-01
						K-40	6.481E+00
						RA-226	1.212E+00
						TH-232	1.233E+00
						U-235	2.271E-01
V06	2.00	3.211	0.278	3.193	0.430	Sum	9.654E+00
						CS-137	4.672E-01
						K-40	7.124E+00
						RA-226	9.619E-01
						TH-232	1.058E+00
						U-235	4.253E-02
V07	1.00	2.783	0.323	5.090	0.457	Sum	1.112E+01
						CS-137	4.438E-01
						K-40	7.797E+00
						RA-226	1.361E+00
						TH-232	1.423E+00
						U-235	1.001E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
V08	2.00	2.285	0.290	3.741	0.438	Sum	6.461E+00
						CS-137	5.524E-01
						K-40	4.056E+00
						RA-226	8.205E-01
						TH-232	8.846E-01
						U-235	1.477E-01
V09	2.00	1.606	0.225	3.665	0.394	Sum	8.097E+00
						CS-137	4.386E-01
						K-40	5.198E+00
						RA-226	1.042E+00
						TH-232	1.220E+00
						U-235	1.983E-01
V10	2.00	2.686	0.248	3.264	0.409	Sum	9.533E+00
						CS-137	6.016E-01
						K-40	6.303E+00
						RA-226	1.110E+00
						TH-232	1.329E+00
						U-235	1.895E-01
V11	2.00	2.929	0.253	2.986	0.412	Sum	7.966E+00
						CS-137	5.268E-01
						K-40	4.863E+00
						RA-226	1.308E+00
						TH-232	1.065E+00
						U-235	2.035E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
V12	2.00	1.479	0.231	2.278	0.396	Sum	8.203E+00
						CS-137	3.384E-01
						K-40	5.756E+00
						RA-226	9.854E-01
						TH-232	1.019E+00
						U-235	1.037E-01
V13	2.00	1.793	0.228	3.140	0.393	Sum	6.981E+00
						CS-137	4.556E-01
						K-40	4.461E+00
						RA-226	7.919E-01
						TH-232	8.158E-01
						U-235	4.571E-01
V14	1.00	1.465	0.259	3.031	0.418	Sum	6.742E+00
						CS-137	4.338E-01
						K-40	4.749E+00
						RA-226	7.707E-01
						TH-232	6.767E-01
						U-235	1.117E-01
V15	2.00	0.815	0.237	3.060	0.402	Sum	8.895E+00
						CS-137	3.220E-01
						K-40	6.278E+00
						RA-226	7.285E-01
						TH-232	1.433E+00
						U-235	1.334E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
V16	1.00	2.922	0.290	2.689	0.439	Sum	1.037E+01
						CS-137	4.483E-01
						K-40	6.961E+00
						RA-226	1.100E+00
						TH-232	9.100E-01
						U-235	9.478E-01
V17	2.00	1.990	0.231	2.364	0.398	Sum	6.722E+00
						CS-137	2.881E-01
						K-40	4.398E+00
						RA-226	8.391E-01
						TH-232	1.025E+00
						U-235	1.721E-01
V18	0.00	1.562	0.276	2.302	0.427	Sum	8.417E+00
						CS-137	3.747E-01
						K-40	5.711E+00
						RA-226	1.290E+00
						TH-232	1.017E+00
						U-235	2.414E-02
W06	1.00	1.189	0.473	3.767	0.421	Sum	1.085E+01
						CS-137	5.254E-01
						K-40	8.169E+00
						RA-226	9.525E-01
						TH-232	1.096E+00
						U-235	1.034E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
W07	1.00	1.648	0.484	4.676	0.423	Sum	1.035E+01
						CS-137	5.043E-01
						K-40	7.346E+00
						RA-226	1.286E+00
						TH-232	1.098E+00
						U-235	1.163E-01
W08	1.00	2.827	0.503	4.585	0.430	Sum	1.180E+01
						CS-137	4.865E-01
						K-40	8.830E+00
						RA-226	1.327E+00
						TH-232	9.844E-01
						U-235	1.757E-01
W09	2.00	0.663	0.407	3.929	0.397	Sum	7.984E+00
						CS-137	4.237E-01
						K-40	5.543E+00
						RA-226	1.062E+00
						TH-232	8.329E-01
						U-235	1.226E-01
W10	2.00	2.674	0.441	3.983	0.410	Sum	8.594E+00
						CS-137	4.621E-01
						K-40	5.881E+00
						RA-226	1.154E+00
						TH-232	9.503E-01
						U-235	1.466E-01

GRIDS	FIELD GAMMA (μR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
W11	2.00	1.763	0.458	4.701	0.418	Sum	8.992E+00
						CS-137	8.153E-01
						K-40	6.496E+00
						RA-226	8.911E-01
						TH-232	6.889E-01
						U-235	1.007E-01
W12	1.00	3.757	0.410	4.003	0.396	Sum	6.912E+00
						CS-137	4.863E-01
						K-40	4.739E+00
						RA-226	7.641E-01
						TH-232	8.483E-01
						U-235	7.452E-02
W13	1.00	0.672	0.413	3.043	0.400	Sum	8.863E+00
						CS-137	4.520E-01
						K-40	6.583E+00
						RA-226	8.364E-01
						TH-232	8.290E-01
						U-235	1.630E-01
W14	2.00	1.553	0.404	2.392	0.394	Sum	7.028E+00
						CS-137	3.082E-01
						K-40	5.019E+00
						RA-226	7.864E-01
						TH-232	7.757E-01
						U-235	1.382E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
W15	2.00	1.720	0.447	4.257	0.414	Sum	9.199E+00
						CS-137	2.891E-01
						K-40	6.852E+00
						RA-226	8.150E-01
						TH-232	8.315E-01
						U-235	4.113E-01
W16	1.00	2.727	0.450	2.266	0.412	Sum	8.941E+00
						CS-137	3.802E-01
						K-40	6.482E+00
						RA-226	9.476E-01
						TH-232	9.861E-01
						U-235	1.452E-01
W17	2.00	0.495	0.418	2.127	0.401	Sum	5.895E+00
						CS-137	1.216E-01
						K-40	4.294E+00
						RA-226	6.836E-01
						TH-232	6.871E-01
						U-235	1.090E-01
W18	1.00	2.120	0.326	1.702	0.360	Sum	3.963E+00
						CS-137	1.254E-01
						K-40	2.765E+00
						RA-226	4.501E-01
						TH-232	5.571E-01
						U-235	6.518E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
X06	2.00	1.228	0.488	5.603	0.426	Sum	7.268E+00
						CS-137	3.658E-01
						K-40	5.284E+00
						RA-226	7.684E-01
						TH-232	7.548E-01
						U-235	9.507E-02
X07	2.00	0.857	0.414	3.582	0.400	Sum	9.468E+00
						CS-137	4.965E-01
						K-40	7.015E+00
						RA-226	9.575E-01
						TH-232	7.946E-01
						U-235	2.040E-01
X08	2.00	2.591	0.461	4.538	0.418	Sum	1.082E+01
						CS-137	5.547E-01
						K-40	8.216E+00
						RA-226	9.760E-01
						TH-232	9.340E-01
						U-235	1.385E-01
X09	3.00	1.969	0.512	4.716	0.434	Sum	1.014E+01
						CS-137	3.054E-01
						K-40	7.669E+00
						RA-226	1.040E+00
						TH-232	1.033E+00
						U-235	9.449E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
X10	2.00	1.825	0.537	4.739	0.444	Sum	1.059E+01
						CS-137	5.590E-01
						K-40	7.543E+00
						RA-226	1.302E+00
						TH-232	1.059E+00
						U-235	1.294E-01
X11	2.00	3.255	0.537	3.517	0.440	Sum	1.021E+01
						CS-137	2.815E-01
						K-40	7.740E+00
						RA-226	1.107E+00
						TH-232	8.472E-01
						U-235	2.351E-01
X12	1.00	2.505	0.446	2.580	0.412	Sum	7.893E+00
						CS-137	2.415E-01
						K-40	5.946E+00
						RA-226	8.728E-01
						TH-232	7.579E-01
						U-235	7.454E-02
X13	1.00	0.433	0.366	2.368	0.378	Sum	8.291E+00
						CS-137	2.519E-01
						K-40	6.476E+00
						RA-226	7.741E-01
						TH-232	6.559E-01
						U-235	1.330E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
X14	0.00	1.393	0.409	3.337	0.399	Sum	7.606E+00
						CS-137	2.464E-01
						K-40	5.993E+00
						RA-226	6.919E-01
						TH-232	5.718E-01
						U-235	1.031E-01
X15	1.00	1.952	0.412	1.732	0.399	Sum	7.099E+00
						CS-137	2.661E-01
						K-40	5.146E+00
						RA-226	8.209E-01
						TH-232	7.848E-01
						U-235	8.093E-02
X16	2.00	1.510	0.510	4.164	0.437	Sum	7.192E+00
						CS-137	2.628E-01
						K-40	5.210E+00
						RA-226	8.206E-01
						TH-232	8.818E-01
						U-235	1.722E-02
X17	2.00	1.156	0.391	2.748	0.391	Sum	7.773E+00
						CS-137	2.889E-01
						K-40	5.682E+00
						RA-226	8.521E-01
						TH-232	8.442E-01
						U-235	1.063E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
X18	1.00	2.131	0.450	3.137	0.412	Sum	6.592E+00
						CS-137	2.298E-01
						K-40	4.613E+00
						RA-226	9.016E-01
						TH-232	7.463E-01
						U-235	1.016E-01
Y07	2.00	1.674	0.354	3.128	0.374	Sum	6.956E+00
						CS-137	4.039E-01
						K-40	4.859E+00
						RA-226	8.586E-01
						TH-232	7.198E-01
						U-235	1.148E-01
Y08	3.00	2.398	0.463	3.395	0.415	Sum	7.484E+00
						CS-137	3.509E-01
						K-40	5.363E+00
						RA-226	9.432E-01
						TH-232	6.964E-01
						U-235	1.304E-01
Y09	3.00	-0.249	0.421	2.836	0.403	Sum	8.459E+00
						CS-137	3.172E-01
						K-40	5.776E+00
						RA-226	1.026E+00
						TH-232	9.817E-01
						U-235	3.581E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Y10	2.00	3.743	0.538	4.417	0.446	Sum	1.027E+01
						CS-137	3.068E-01
						K-40	7.617E+00
						RA-226	1.186E+00
						TH-232	9.508E-01
						U-235	2.051E-01
Y11	2.00	3.764	0.621	5.978	0.475	Sum	1.051E+01
						CS-137	4.954E-01
						K-40	7.630E+00
						RA-226	1.194E+00
						TH-232	9.767E-01
						U-235	2.118E-01
Y12	2.00	2.547	0.453	3.621	0.413	Sum	9.613E+00
						CS-137	3.630E-01
						K-40	7.426E+00
						RA-226	1.018E+00
						TH-232	7.091E-01
						U-235	9.707E-02
Y13	1.00	1.516	0.394	4.686	0.390	Sum	7.688E+00
						CS-137	3.845E-01
						K-40	5.534E+00
						RA-226	8.933E-01
						TH-232	7.886E-01
						U-235	8.723E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Y14	2.00	1.216	0.358	2.775	0.374	Sum	6.693E+00
						CS-137	1.142E-01
						K-40	4.838E+00
						RA-226	9.515E-01
						TH-232	6.787E-01
						U-235	1.110E-01
Y15	1.00	2.155	0.455	3.001	0.416	Sum	7.717E+00
						CS-137	3.196E-01
						K-40	5.873E+00
						RA-226	6.707E-01
						TH-232	7.222E-01
						U-235	1.310E-01
Y16	1.00	3.529	0.450	4.625	0.411	Sum	9.477E+00
						CS-137	4.418E-01
						K-40	7.072E+00
						RA-226	9.764E-01
						TH-232	8.801E-01
						U-235	1.070E-01
Y17	2.00	1.694	0.498	3.190	0.430	Sum	8.982E+00
						CS-137	4.325E-01
						K-40	6.241E+00
						RA-226	1.029E+00
						TH-232	1.173E+00
						U-235	1.068E-01

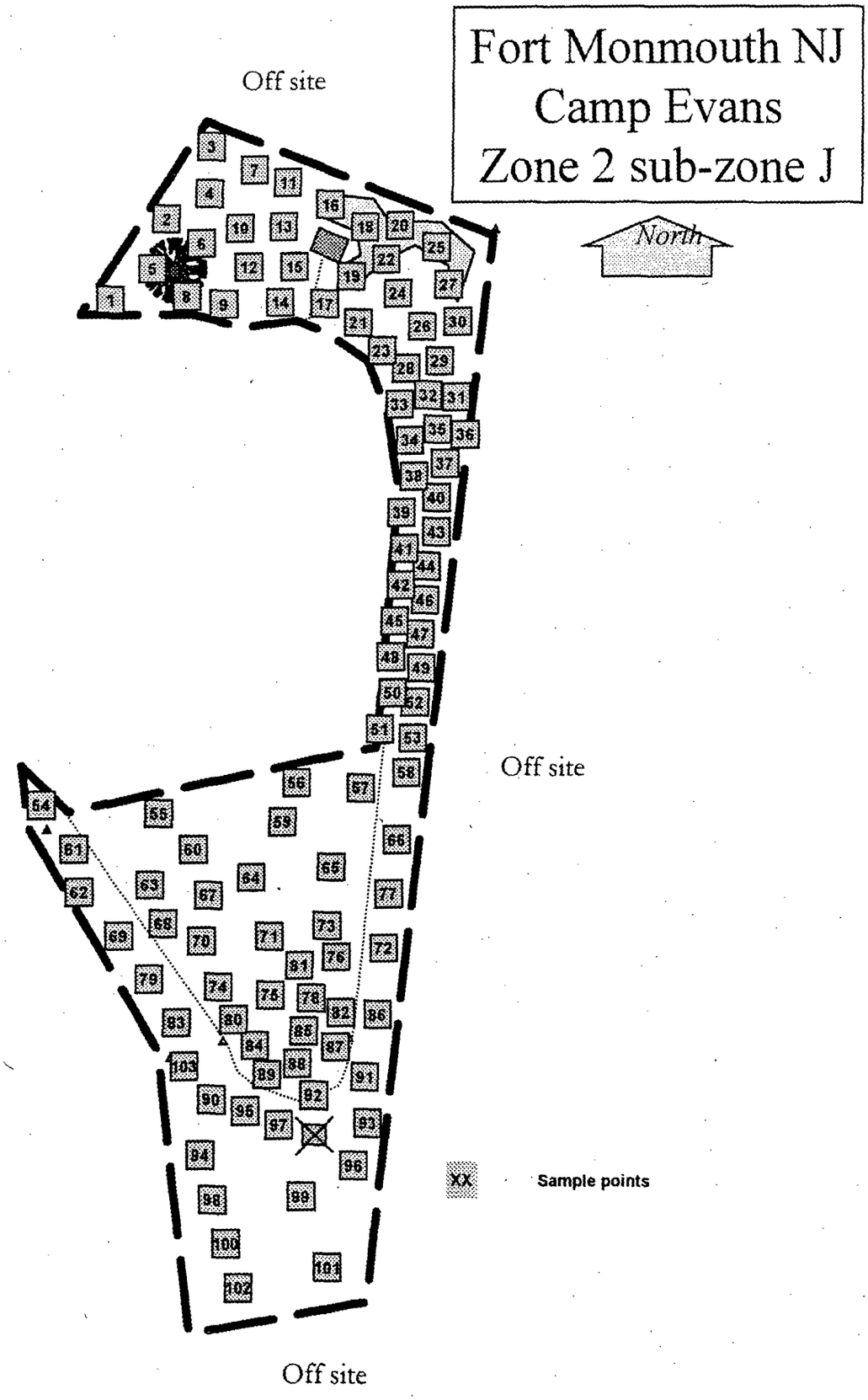
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Y18	1.00	2.396	0.463	2.790	0.420	Sum	8.745E+00
						CS-137	2.814E-01
						K-40	6.345E+00
						RA-226	9.968E-01
						TH-232	9.709E-01
						U-235	1.505E-01
Y19	1.00	1.769	0.520	3.921	0.438	Sum	8.919E+00
						CS-137	4.182E-01
						K-40	6.240E+00
						RA-226	9.959E-01
						TH-232	8.352E-01
						U-235	4.300E-01
Z07	1.00	3.517	0.285	4.454	0.334	Sum	9.151E+00
						CS-137	4.024E-01
						K-40	6.971E+00
						RA-226	8.938E-01
						TH-232	7.215E-01
						U-235	1.620E-01
Z08	1.00	1.886	0.264	3.193	0.325	Sum	7.239E+00
						CS-137	2.584E-01
						K-40	5.299E+00
						RA-226	9.413E-01
						TH-232	6.407E-01
						U-235	9.970E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Z09	1.00	2.475	0.279	3.349	0.333	Sum	8.259E+00
						CS-137	1.320E-01
						K-40	6.368E+00
						RA-226	1.031E+00
						TH-232	6.887E-01
						U-235	3.895E-02
Z10	2.00	2.959	0.313	3.951	0.348	Sum	1.165E+01
						CS-137	3.499E-01
						K-40	8.688E+00
						RA-226	9.677E-01
						TH-232	1.413E+00
						U-235	2.274E-01
Z11	2.00	3.491	0.297	4.917	0.341	Sum	1.031E+01
						CS-137	4.097E-01
						K-40	6.779E+00
						RA-226	1.353E+00
						TH-232	1.538E+00
						U-235	2.260E-01
Z12	1.00	2.120	0.323	3.311	0.352	Sum	9.595E+00
						CS-137	3.230E-01
						K-40	6.843E+00
						RA-226	1.016E+00
						TH-232	1.262E+00
						U-235	1.515E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Z13	2.00	1.669	0.309	3.344	0.348	Sum	7.868E+00
						CS-137	7.432E-01
						K-40	4.757E+00
						RA-226	1.033E+00
						TH-232	1.281E+00
						U-235	5.405E-02
Z14	1.00	1.354	0.281	4.161	0.334	Sum	8.625E+00
						CS-137	4.958E-01
						K-40	6.384E+00
						RA-226	9.142E-01
						TH-232	7.294E-01
						U-235	1.015E-01
Z15	2.00	0.807	0.322	4.009	0.353	Sum	6.436E+00
						CS-137	4.138E-01
						K-40	4.151E+00
						RA-226	1.002E+00
						TH-232	8.693E-01
Z16	1.00	1.802	0.252	2.715	0.319	Sum	7.331E+00
						CS-137	2.136E-01
						K-40	5.032E+00
						RA-226	1.060E+00
						TH-232	9.689E-01
						U-235	5.662E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Z17	2.00	2.295	0.297	2.759	0.341	Sum	8.924E+00
						CS-137	4.517E-01
						K-40	6.569E+00
						RA-226	1.080E+00
						TH-232	6.827E-01
						U-235	1.410E-01
Z18	1.00	1.421	0.335	3.214	0.359	Sum	9.300E+00
						CS-137	3.476E-01
						K-40	6.416E+00
						RA-226	1.284E+00
						TH-232	1.105E+00
						U-235	1.471E-01
Z19	2.00	2.446	0.342	4.037	0.362	Sum	1.055E+01
						CS-137	3.076E-01
						K-40	7.980E+00
						RA-226	9.012E-01
						TH-232	1.201E+00
						U-235	1.594E-01

GRIDS	FIELD GAMMA (μR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
		Alpha		Beta			Gamma (Sum)
Minimum	-3	-0.249	0.207	1.465	0.317		3.584E+00
Maximum	4	5.754	0.876	7.567	0.628		1.706E+01
Average	1	2.112	0.397	3.426	0.419		8.811E+00


Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone J
North
Off site
Off site
Off site
XX
Sample points

FIELD TECHNICAL SUPPORT DATA

LOCATION	SOIL	
	ZONE: 2	SUBZONE: J

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA			BETA			GAMMA	
					BKG	MDA (dpm/100cm²)	EFF. %	BKG	MDA (dpm/100cm²)	EFF. %	BKG (µR/hr)	PROBE AREA
R001 - R024	CONNOLLY	17-Jul-97	00892	723412							11	N/A
R025 - R062	CONNOLLY	18-Jul-97	131265	N/A							10	N/A
R063 - R103	CONNOLLY	21-Jul-97	111348	N/A							10	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION	SOIL
	ZONE: 2 SUBZONE: J

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
R001 - R024	1499	.01 - .32	
R025 - R062	1501	.01 - .50	
R063 - R103	1506	.01 - .57	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 2 SUBZONE: J

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
R001	0.00	0.738	0.490	3.915	0.395	Sum	7.766E+00
						CS-137	3.426E-01
						K-40	5.519E+00
						RA-226	8.828E-01
						TH-232	7.890E-01
						U-235	2.331E-01
R002	1.00	2.547	0.564	4.313	0.419	Sum	1.002E+01
						CS-137	4.665E-01
						K-40	6.893E+00
						RA-226	1.265E+00
						TH-232	1.197E+00
						U-235	1.998E-01
R003	1.00	4.568	0.934	5.233	0.518	Sum	1.327E+01
						CS-137	1.029E+00
						K-40	9.240E+00
						RA-226	1.164E+00
						TH-232	1.615E+00
						U-235	2.223E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R004	-1.00	1.528	0.508	2.897	0.401	Sum	5.998E+00
						CS-137	2.469E-01
						K-40	4.133E+00
						RA-226	8.209E-01
						TH-232	7.279E-01
						U-235	6.917E-02
R005	0.00	1.159	0.385	2.989	0.357	Sum	6.037E+00
						CS-137	4.539E-01
						K-40	3.963E+00
						RA-226	7.564E-01
						TH-232	5.217E-01
						U-235	3.422E-01
R006	-1.00	0.528	0.467	2.871	0.387	Sum	8.743E+00
						K-40	6.434E+00
						RA-226	7.104E-01
						TH-232	9.790E-01
						U-235	6.191E-01
R007	2.00	2.344	0.692	4.715	0.458	Sum	1.006E+01
						CS-137	5.518E-01
						K-40	6.898E+00
						RA-226	1.134E+00
						TH-232	1.324E+00
						U-235	1.527E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R008	-1.00	3.383	0.642	5.473	0.441	Sum	1.074E+01
						CS-137	4.611E-01
						K-40	8.028E+00
						RA-226	1.251E+00
						TH-232	1.003E+00
R009	-1.00	0.772	0.513	4.223	0.403	Sum	9.184E+00
						CS-137	5.418E-01
						K-40	6.242E+00
						RA-226	1.009E+00
						TH-232	1.266E+00
						U-235	1.251E-01
R010	-2.00	0.645	0.571	4.243	0.420	Sum	7.125E+00
						CS-137	3.250E-01
						K-40	4.822E+00
						RA-226	9.582E-01
						TH-232	9.153E-01
						U-235	1.043E-01
R011	0.00	1.186	0.631	3.416	0.438	Sum	1.267E+01
						CS-137	6.676E-01
						K-40	8.937E+00
						RA-226	1.155E+00
						TH-232	1.332E+00
						U-235	5.804E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R012	-3.00	1.625	0.540	2.506	0.413	Sum	4.176E+00
						CS-137	4.398E-01
						K-40	2.453E+00
						RA-226	5.914E-01
						TH-232	6.113E-01
						U-235	8.043E-02
R013	-2.00	1.082	0.479	3.268	0.390	Sum	7.429E+00
						CS-137	3.353E-01
						K-40	5.190E+00
						RA-226	8.104E-01
						TH-232	8.615E-01
						U-235	2.315E-01
R014	-1.00	2.239	0.458	3.657	0.384	Sum	7.637E+00
						CS-137	3.769E-01
						K-40	5.522E+00
						RA-226	9.383E-01
						TH-232	8.001E-01
R015	-3.00	0.797	0.706	4.653	0.461	Sum	8.652E+00
						CS-137	2.778E-01
						K-40	7.055E+00
						RA-226	5.816E-01
						TH-232	6.237E-01
						U-235	1.135E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R016	2.00	2.345	0.567	3.758	0.420	Sum	1.193E+01
						CS-137	5.466E-01
						K-40	8.338E+00
						RA-226	1.506E+00
						TH-232	1.298E+00
						U-235	2.393E-01
R017	-3.00	1.654	0.550	2.764	0.416	Sum	5.423E+00
						CS-137	5.402E-01
						K-40	3.384E+00
						RA-226	7.097E-01
						TH-232	7.893E-01
R018	-1.00	0.939	0.499	3.029	0.398	Sum	7.324E+00
						CS-137	2.069E-01
						K-40	5.569E+00
						RA-226	8.275E-01
						TH-232	6.854E-01
						U-235	3.471E-02
R019	-1.00	1.610	0.535	3.510	0.410	Sum	1.047E+01
						CS-137	3.153E-01
						K-40	8.388E+00
						RA-226	1.109E+00
						TH-232	6.552E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R020	-2.00	1.532	0.509	2.745	0.401	Sum	8.902E+00
						CS-137	4.187E-01
						K-40	6.657E+00
						RA-226	7.772E-01
						TH-232	9.160E-01
						U-235	1.330E-01
R021	-1.00	1.770	0.471	1.763	0.388	Sum	6.526E+00
						CS-137	3.303E-01
						K-40	4.297E+00
						RA-226	9.701E-01
						TH-232	8.288E-01
						U-235	1.002E-01
R022	-1.00	1.516	0.403	3.256	0.364	Sum	8.856E+00
						CS-137	3.339E-01
						K-40	6.677E+00
						RA-226	7.695E-01
						TH-232	1.076E+00
R023	0.00	0.965	0.428	1.836	0.373	Sum	8.663E+00
						CS-137	4.343E-01
						K-40	5.692E+00
						RA-226	9.831E-01
						TH-232	1.359E+00
						U-235	1.942E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R024	-1.00	1.048	0.398	2.614	0.362	Sum	9.192E+00
						CS-137	4.376E-01
						K-40	6.907E+00
						RA-226	1.005E+00
						TH-232	7.488E-01
						U-235	9.391E-02
R025	-1.00	0.983	0.435	2.225	0.424	Sum	5.965E+00
						CS-137	2.628E-01
						K-40	4.038E+00
						RA-226	6.961E-01
						TH-232	8.471E-01
						U-235	1.209E-01
R026	-1.00	1.482	0.563	3.459	0.472	Sum	8.696E+00
						CS-137	3.481E-01
						K-40	6.514E+00
						RA-226	9.377E-01
						TH-232	7.972E-01
						U-235	9.867E-02
R027	-1.00	1.832	0.443	3.127	0.427	Sum	8.402E+00
						CS-137	2.462E-01
						K-40	6.619E+00
						RA-226	7.101E-01
						TH-232	7.065E-01
						U-235	1.200E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R028	0.00	1.592	0.529	3.609	0.460	Sum	9.959E+00
						CS-137	3.388E-01
						K-40	7.617E+00
						RA-226	8.847E-01
						TH-232	9.528E-01
						U-235	1.654E-01
R029	0.00	1.791	0.529	4.166	0.460	Sum	8.558E+00
						CS-137	3.188E-01
						K-40	6.247E+00
						RA-226	1.009E+00
						TH-232	8.829E-01
						U-235	1.005E-01
R030	0.00	1.808	0.534	2.896	0.460	Sum	7.539E+00
						K-40	5.641E+00
						RA-226	8.016E-01
						TH-232	9.638E-01
						U-235	1.325E-01
R031	1.00	0.666	0.591	2.688	0.480	Sum	9.121E+00
						CS-137	3.886E-01
						K-40	6.561E+00
						RA-226	9.563E-01
						TH-232	1.022E+00
						U-235	1.929E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R032	0.00	1.601	0.532	1.702	0.461	Sum	9.486E+00
						CS-137	3.785E-01
						K-40	6.927E+00
						RA-226	1.017E+00
						TH-232	9.642E-01
						U-235	1.990E-01
R033	0.00	1.663	0.552	3.513	0.468	Sum	1.154E+01
						CS-137	5.980E-01
						K-40	8.543E+00
						RA-226	1.073E+00
						TH-232	1.230E+00
						U-235	1.008E-01
R034	-1.00	2.193	0.448	2.253	0.429	Sum	6.527E+00
						CS-137	1.149E-01
						K-40	4.718E+00
						RA-226	7.481E-01
						TH-232	8.128E-01
						U-235	1.327E-01
R035	-1.00	2.075	0.613	4.082	0.488	Sum	8.184E+00
						CS-137	7.282E-02
						K-40	6.072E+00
						RA-226	9.127E-01
						TH-232	1.011E+00
						U-235	1.154E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R036	-2.00	2.289	0.468	1.081	0.436	Sum	3.894E+00
						CS-137	1.225E-01
						K-40	2.659E+00
						RA-226	4.970E-01
						TH-232	5.324E-01
						U-235	8.317E-02
R037	-3.00	1.467	0.557	3.434	0.469	Sum	3.173E+00
						CS-137	1.348E-01
						K-40	2.217E+00
						RA-226	4.386E-01
						TH-232	3.429E-01
						U-235	3.927E-02
R038	0.00	1.529	0.580	4.498	0.478	Sum	8.755E+00
						CS-137	6.195E-01
						K-40	6.375E+00
						RA-226	7.671E-01
						TH-232	8.095E-01
						U-235	1.844E-01
R039	-1.00	1.172	0.445	1.875	0.428	Sum	6.558E+00
						CS-137	7.346E-02
						K-40	4.593E+00
						RA-226	8.539E-01
						TH-232	9.100E-01
						U-235	1.278E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
R040	-1.00	0.855	0.455	1.743	0.432	Sum	3.509E+00
						CS-137	9.486E-02
						K-40	2.562E+00
						RA-226	3.688E-01
						TH-232	3.823E-01
						U-235	1.008E-01
R041	-1.00	1.875	0.831	4.446	0.554	Sum	7.497E+00
						CS-137	4.381E-01
						K-40	4.854E+00
						RA-226	8.768E-01
						TH-232	9.245E-01
						U-235	4.039E-01
R042	0.00	1.396	0.530	4.648	0.460	Sum	9.009E+00
						CS-137	8.427E-01
						K-40	6.220E+00
						RA-226	9.164E-01
						TH-232	8.461E-01
						U-235	1.839E-01
R043	-3.00	2.071	0.550	3.588	0.468	Sum	6.125E+00
						CS-137	2.519E-01
						K-40	4.134E+00
						RA-226	7.185E-01
						TH-232	6.870E-01
						U-235	3.336E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R044	0.00	1.374	0.406	3.513	0.411	Sum	6.910E+00
						CS-137	4.071E-01
						K-40	4.711E+00
						RA-226	8.578E-01
						TH-232	8.117E-01
						U-235	1.219E-01
R045	-1.00	1.602	0.426	4.384	0.420	Sum	1.069E+01
						CS-137	8.014E-01
						K-40	7.672E+00
						RA-226	9.655E-01
						TH-232	1.119E+00
						U-235	1.362E-01
R046	0.00	2.043	0.494	2.042	0.448	Sum	3.941E+00
						K-40	2.543E+00
						RA-226	6.473E-01
						TH-232	6.488E-01
						U-235	1.019E-01
R047	0.00	1.088	0.289	2.237	0.356	Sum	5.288E+00
						CS-137	6.911E-02
						K-40	3.617E+00
						RA-226	6.506E-01
						TH-232	8.372E-01
						U-235	1.136E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R048	0.00	2.527	0.480	3.846	0.441	Sum	6.935E+00
						CS-137	9.232E-02
						K-40	4.941E+00
						RA-226	8.377E-01
						TH-232	8.496E-01
						U-235	2.144E-01
R049	-2.00	2.695	0.512	2.609	0.452	Sum	6.648E+00
						CS-137	1.489E-01
						K-40	5.061E+00
						RA-226	5.882E-01
						TH-232	6.015E-01
						U-235	2.484E-01
R050	-1.00	1.912	0.423	2.997	0.419	Sum	1.042E+01
						CS-137	4.781E-01
						K-40	7.564E+00
						RA-226	1.112E+00
						TH-232	1.052E+00
						U-235	2.089E-01
R051	-1.00	2.286	0.506	2.770	0.453	Sum	9.593E+00
						CS-137	4.157E-01
						K-40	7.145E+00
						RA-226	9.960E-01
						TH-232	8.848E-01
						U-235	1.514E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R052	0.00	2.218	0.737	5.521	0.529	Sum	1.345E+01
						CS-137	5.174E-01
						K-40	9.969E+00
						RA-226	1.194E+00
						TH-232	1.411E+00
						U-235	3.595E-01
R053	0.00	0.694	0.615	3.421	0.490	Sum	1.226E+01
						CS-137	3.838E-01
						K-40	9.387E+00
						RA-226	1.128E+00
						TH-232	1.162E+00
						U-235	1.987E-01
R054	0.00	2.969	0.564	3.389	0.474	Sum	8.252E+00
						CS-137	4.463E-01
						K-40	6.056E+00
						RA-226	7.852E-01
						TH-232	7.881E-01
						U-235	1.768E-01
R055	-1.00	2.115	0.511	4.641	0.452	Sum	1.077E+01
						CS-137	7.730E-01
						K-40	7.585E+00
						RA-226	1.174E+00
						TH-232	1.050E+00
						U-235	1.900E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R056	0.00	2.171	0.525	4.707	0.458	Sum	9.896E+00
						CS-137	6.054E-01
						K-40	7.172E+00
						RA-226	9.601E-01
						TH-232	1.028E+00
						U-235	1.306E-01
R057	-1.00	2.467	0.546	5.740	0.465	Sum	7.722E+00
						CS-137	7.695E-01
						K-40	5.190E+00
						RA-226	9.220E-01
						TH-232	7.671E-01
						U-235	7.324E-02
R058	0.00	0.000	0.492	4.735	0.446	Sum	8.273E+00
						CS-137	5.536E-01
						K-40	5.751E+00
						RA-226	9.468E-01
						TH-232	8.971E-01
						U-235	1.247E-01
R059	0.00	1.538	0.584	4.522	0.481	Sum	1.153E+01
						CS-137	7.182E-01
						K-40	8.213E+00
						RA-226	1.059E+00
						TH-232	1.109E+00
						U-235	4.332E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R060	-1.00	1.550	0.589	4.345	0.480	Sum	1.137E+01
						CS-137	8.410E-01
						K-40	8.288E+00
						RA-226	1.057E+00
						TH-232	9.946E-01
						U-235	1.908E-01
R061	0.00	0.569	0.504	2.757	0.451	Sum	6.699E+00
						CS-137	2.977E-01
						K-40	4.911E+00
						RA-226	6.762E-01
						TH-232	7.441E-01
						U-235	6.975E-02
R062	-1.00	0.814	0.541	4.673	0.463	Sum	1.028E+01
						CS-137	3.793E-01
						K-40	7.330E+00
						RA-226	1.294E+00
						TH-232	1.071E+00
						U-235	2.058E-01
R063	-2.00	2.226	0.235	3.775	0.309	Sum	4.592E+00
						CS-137	2.037E-01
						K-40	2.932E+00
						RA-226	7.773E-01
						TH-232	5.591E-01
						U-235	1.200E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R064	1.00	2.281	0.319	4.702	0.353	Sum	9.788E+00
						CS-137	7.916E-01
						K-40	7.097E+00
						RA-226	8.459E-01
						TH-232	9.070E-01
						U-235	1.467E-01
R065	0.00	0.697	0.278	3.903	0.331	Sum	9.385E+00
						CS-137	1.045E+00
						K-40	6.265E+00
						RA-226	9.090E-01
						TH-232	9.746E-01
						U-235	1.916E-01
R066	0.00	2.090	0.293	4.532	0.340	Sum	7.843E+00
						CS-137	8.381E-01
						K-40	5.207E+00
						RA-226	8.891E-01
						TH-232	7.847E-01
						U-235	1.240E-01
R067	0.00	2.568	0.360	5.817	0.370	Sum	9.817E+00
						CS-137	1.359E+00
						K-40	6.663E+00
						RA-226	8.915E-01
						TH-232	7.859E-01
						U-235	1.175E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R068	1.00	1.275	0.413	8.219	0.392	Sum	1.031E+01
						CS-137	1.078E+00
						K-40	6.752E+00
						RA-226	1.344E+00
						TH-232	9.522E-01
						U-235	1.810E-01
R069	0.00	2.697	0.285	4.092	0.334	Sum	7.446E+00
						CS-137	6.092E-01
						K-40	5.160E+00
						RA-226	7.966E-01
						TH-232	7.449E-01
						U-235	1.350E-01
R070	0.00	2.643	0.342	5.000	0.363	Sum	9.942E+00
						CS-137	8.592E-01
						K-40	7.174E+00
						RA-226	1.020E+00
						TH-232	7.257E-01
						U-235	1.633E-01
R071	0.00	3.496	0.370	3.505	0.373	Sum	1.304E+01
						CS-137	4.682E-01
						K-40	1.002E+01
						RA-226	1.192E+00
						TH-232	1.180E+00
						U-235	1.799E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
R072	0.00	3.673	0.284	3.082	0.336	Sum	6.910E+00
						CS-137	4.696E-01
						K-40	4.799E+00
						RA-226	7.420E-01
						TH-232	7.552E-01
						U-235	1.444E-01
R073	0.00	1.526	0.316	5.758	0.351	Sum	1.006E+01
						CS-137	1.117E+00
						K-40	6.855E+00
						RA-226	1.008E+00
						TH-232	9.555E-01
						U-235	1.275E-01
R074	0.00	1.864	0.311	5.384	0.347	Sum	9.421E+00
						CS-137	5.372E-01
						K-40	6.626E+00
						RA-226	1.058E+00
						TH-232	1.008E+00
						U-235	1.921E-01
R075	0.00	2.246	0.314	3.894	0.350	Sum	1.094E+01
						CS-137	6.470E-01
						K-40	7.865E+00
						RA-226	1.055E+00
						TH-232	1.134E+00
						U-235	2.425E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R076	0.00	1.167	0.318	4.298	0.351	Sum	1.047E+01
						CS-137	8.891E-01
						K-40	7.353E+00
						RA-226	1.055E+00
						TH-232	9.416E-01
						U-235	2.305E-01
R077	1.00	1.521	0.315	4.600	0.351	Sum	1.388E+01
						CS-137	1.364E+00
						K-40	9.904E+00
						RA-226	1.182E+00
						TH-232	1.120E+00
						U-235	3.136E-01
R078	0.00	2.827	0.318	6.965	0.350	Sum	8.852E+00
						CS-137	9.155E-01
						K-40	5.921E+00
						RA-226	9.659E-01
						TH-232	8.929E-01
						U-235	1.570E-01
R079	-1.00	4.929	0.290	7.774	0.339	Sum	7.461E+00
						CS-137	7.250E-01
						K-40	5.204E+00
						RA-226	8.037E-01
						TH-232	6.075E-01
						U-235	1.212E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R080	0.00	1.514	0.253	3.415	0.319	Sum	6.200E+00
						CS-137	7.270E-01
						K-40	4.207E+00
						RA-226	6.165E-01
						TH-232	4.767E-01
						U-235	1.732E-01
R081	0.00	1.972	0.329	4.892	0.355	Sum	1.041E+01
						CS-137	1.086E+00
						K-40	7.150E+00
						RA-226	9.781E-01
						TH-232	1.052E+00
						U-235	1.471E-01
R082	0.00	3.339	0.376	5.846	0.377	Sum	1.108E+01
						CS-137	4.982E-01
						K-40	8.387E+00
						RA-226	1.087E+00
						TH-232	9.471E-01
						U-235	1.636E-01
R083	-1.00	2.363	0.360	6.306	0.370	Sum	8.172E+00
						CS-137	3.924E-01
						K-40	6.063E+00
						RA-226	8.077E-01
						TH-232	7.768E-01
						U-235	1.319E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R084	1.00	5.083	0.479	7.564	0.417	Sum	1.100E+01
						CS-137	7.562E-01
						K-40	8.095E+00
						RA-226	1.088E+00
						TH-232	9.332E-01
						U-235	1.302E-01
R085	-1.00	1.531	0.283	4.239	0.335	Sum	5.497E+00
						CS-137	3.879E-01
						K-40	3.643E+00
						RA-226	6.687E-01
						TH-232	6.112E-01
						U-235	1.866E-01
R086	0.00	1.770	0.296	5.448	0.342	Sum	8.027E+00
						CS-137	7.449E-01
						K-40	5.559E+00
						RA-226	8.912E-01
						TH-232	6.903E-01
						U-235	1.415E-01
R087	1.00	5.918	0.590	9.423	0.454	Sum	1.176E+01
						CS-137	8.860E-01
						K-40	8.135E+00
						RA-226	1.369E+00
						TH-232	1.192E+00
						U-235	1.805E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R088	1.00	2.478	0.321	4.930	0.353	Sum	8.788E+00
						CS-137	7.988E-01
						K-40	6.083E+00
						RA-226	9.478E-01
						TH-232	8.032E-01
						U-235	1.557E-01
R089	1.00	1.535	0.318	4.438	0.350	Sum	1.088E+01
						CS-137	9.543E-01
						K-40	7.561E+00
						RA-226	1.015E+00
						TH-232	1.219E+00
						U-235	1.290E-01
R090	-1.00	1.163	0.241	2.927	0.312	Sum	5.558E+00
						CS-137	7.918E-01
						K-40	3.591E+00
						RA-226	5.283E-01
						TH-232	4.528E-01
						U-235	1.940E-01
R091	0.00	2.693	0.324	4.630	0.353	Sum	9.804E+00
						CS-137	6.086E-01
						K-40	7.144E+00
						RA-226	9.249E-01
						TH-232	1.012E+00
						U-235	1.148E-01

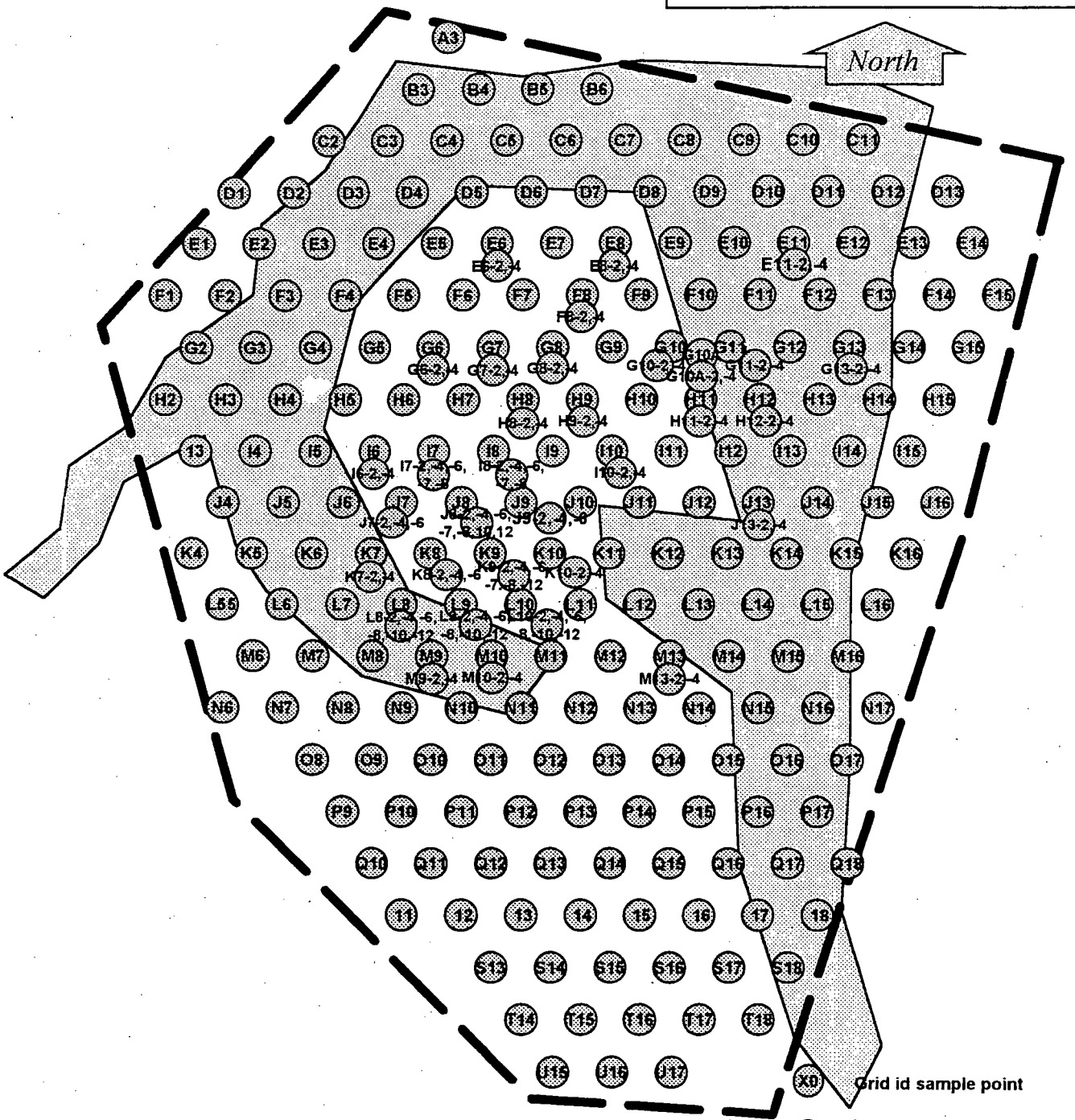
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R092	-2.00	1.204	0.250	3.197	0.318	Sum	4.394E+00
						CS-137	5.210E-02
						K-40	2.864E+00
						RA-226	7.071E-01
						TH-232	6.580E-01
						U-235	1.130E-01
R093	0.00	1.394	0.289	3.621	0.338	Sum	9.833E+00
						CS-137	8.485E-01
						K-40	6.427E+00
						RA-226	1.194E+00
						TH-232	1.187E+00
						U-235	1.770E-01
R094	0.00	2.883	0.325	4.721	0.354	Sum	9.416E+00
						CS-137	7.302E-01
						K-40	6.480E+00
						RA-226	9.894E-01
						TH-232	1.045E+00
						U-235	1.717E-01
R095	1.00	3.642	0.385	5.738	0.381	Sum	1.092E+01
						CS-137	5.240E-01
						K-40	7.820E+00
						RA-226	1.364E+00
						TH-232	1.034E+00
						U-235	1.810E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R096	0.00	1.802	0.275	4.183	0.330	Sum	6.803E+00
						CS-137	6.663E-01
						K-40	4.174E+00
						RA-226	9.622E-01
						TH-232	8.959E-01
						U-235	1.047E-01
R097	0.00	1.171	0.379	5.123	0.378	Sum	1.069E+01
						CS-137	9.997E-01
						K-40	7.081E+00
						RA-226	1.220E+00
						TH-232	1.213E+00
						U-235	1.778E-01
R098	0.00	2.364	0.360	5.271	0.371	Sum	9.534E+00
						CS-137	8.430E-01
						K-40	6.197E+00
						RA-226	1.297E+00
						TH-232	1.038E+00
						U-235	1.586E-01
R099	0.00	3.072	0.370	5.070	0.374	Sum	8.986E+00
						CS-137	1.116E+00
						K-40	5.668E+00
						RA-226	1.031E+00
						TH-232	1.033E+00
						U-235	1.382E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R100	1.00	3.080	0.347	6.207	0.364	Sum	9.579E+00
						CS-137	3.521E-01
						K-40	6.937E+00
						RA-226	1.223E+00
						TH-232	8.951E-01
						U-235	1.722E-01
R101	0.00	3.198	0.301	4.061	0.344	Sum	1.021E+01
						CS-137	6.823E-01
						K-40	7.264E+00
						RA-226	9.729E-01
						TH-232	1.090E+00
						U-235	2.036E-01
R102	-2.00	1.806	0.334	5.719	0.359	Sum	8.158E+00
						CS-137	7.649E-01
						K-40	5.836E+00
						RA-226	8.744E-01
						TH-232	5.407E-01
						U-235	1.424E-01
R103	-1.00	1.156	0.272	4.514	0.328	Sum	7.412E+00
						CS-137	8.294E-01
						K-40	4.834E+00
						RA-226	8.440E-01
						TH-232	7.913E-01
						U-235	1.137E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
		Alpha		Beta			Gamma (Sum)
Minimum	-3	0.000	0.235	1.081	0.309		3.173E+00
Maximum	2	5.918	0.934	9.423	0.554		1.388E+01
Average	0	1.935	0.449	4.100	0.405		8.675E+00

Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone K



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION

SOIL

ZONE: 2 SUBZONE: K

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA			BETA			GAMMA	
					BKG	MDA (dpm/100cm²)	EFF. %	BKG	MDA (dpm/100cm²)	EFF. %	BKG (µR/hr)	PROBE AREA
E01 - I10	LONG	13-May-97	00914	723415							9	N/A
D01 - K06	GATES	13-May-97	00926	723416							8	N/A
A03 - J08	CONNOLLY	13-May-97	00951	723417							10	N/A
I11 - O17	EAVES	14-May-97	00951	723417							10	N/A
K07 - P16	GATES	14-May-97	00916	723414							10	N/A
J09 - R18	CONNOLLY	14-May-97	00914	723415							10	N/A
P17 - U17	GATES	15-May-97	00916	723414							10	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION

SOIL

ZONE: 2 SUBZONE: K

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
A03 - J08	1354	.01 - .47	
D01 - K06	1355	.01 - .38	
E01 - I10	1356	.01 - .49	
J09 - R18	1357	.01 - .48	
K07 - P16	1358	.01 - .38	
I11 - O17	1359	.01 - .35	
P17 - U17	1361	.01 - .19	
G08-02 - H08-04	1421	.01 - .08	
I08-02 - K10-04	1424	.01 - .24	
G13-02 - M10-04	1426	.01 - .26	
M13-02 - K07-04	1428	.01 - .30	
M09-02 - M09-04	1433	.01 - .02	
J08-06 - K09-06	1563	.01 - .15	
I08-07 - K09-08	1579	.01 - .08	
J08-12 - L08-10	2050	.01 - .08	

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
L08-12 - L10-12	2054	.01 - .13	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION	SOIL	
	ZONE: 2	SUBZONE: K

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
A03	-2.00	1.939	0.396	2.584	0.316	Sum	7.084E+00
						CS-137	4.843E-01
						K-40	4.881E+00
						RA-226	6.105E-01
						TH-232	7.328E-01
						U-235	3.758E-01
B03	-1.00	2.351	0.446	2.427	0.318	Sum	6.710E+00
						CS-137	4.704E-01
						K-40	4.971E+00
						RA-226	5.817E-01
						TH-232	6.220E-01
						U-235	6.479E-02
B04	-1.00	0.567	0.301	1.475	0.281	Sum	5.490E+00
						CS-137	4.947E-01
						K-40	3.633E+00
						RA-226	6.210E-01
						TH-232	6.679E-01
						U-235	7.362E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B05	-1.00	0.830	0.368	1.931	0.304	Sum	6.712E+00
						CS-137	3.515E-01
						K-40	4.867E+00
						RA-226	7.226E-01
						TH-232	6.640E-01
						U-235	1.072E-01
B06	-1.00	1.361	0.452	2.721	0.319	Sum	6.306E+00
						CS-137	3.772E-01
						K-40	4.417E+00
						RA-226	6.869E-01
						TH-232	7.316E-01
						U-235	9.323E-02
C02	-1.00	1.451	0.386	2.743	0.308	Sum	6.657E+00
						CS-137	3.231E-01
						K-40	4.932E+00
						RA-226	6.210E-01
						TH-232	6.531E-01
						U-235	1.275E-01
C03	-1.00	1.294	0.344	2.271	0.291	Sum	6.204E+00
						CS-137	3.845E-01
						K-40	4.506E+00
						RA-226	6.312E-01
						TH-232	5.764E-01
						U-235	1.057E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
C04	-1.00	0.661	0.351	2.138	0.295	Sum	6.066E+00
						CS-137	3.419E-01
						K-40	4.534E+00
						RA-226	5.205E-01
						TH-232	4.892E-01
						U-235	1.800E-01
C05	-1.00	2.871	0.402	2.291	0.316	Sum	6.550E+00
						CS-137	3.380E-01
						K-40	4.874E+00
						RA-226	6.278E-01
						TH-232	5.989E-01
						U-235	1.112E-01
C06	-1.00	1.255	0.477	2.213	0.330	Sum	7.539E+00
						CS-137	2.739E-01
						K-40	5.677E+00
						RA-226	6.485E-01
						TH-232	8.325E-01
						U-235	1.067E-01
C07	-1.00	1.976	0.525	3.159	0.341	Sum	9.111E+00
						CS-137	3.696E-01
						K-40	6.993E+00
						RA-226	8.144E-01
						TH-232	8.320E-01
						U-235	1.015E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
C08	-1.00	1.573	0.523	3.347	0.341	Sum	9.223E+00
						CS-137	3.010E-01
						K-40	7.271E+00
						RA-226	6.940E-01
						TH-232	8.027E-01
						U-235	1.543E-01
C09	0.00	1.012	0.672	2.547	0.369	Sum	1.092E+01
						CS-137	5.272E-01
						K-40	8.566E+00
						RA-226	8.932E-01
						TH-232	7.224E-01
						U-235	2.115E-01
C10	0.00	2.970	0.718	4.714	0.370	Sum	1.023E+01
						CS-137	2.600E-01
						K-40	7.789E+00
						RA-226	1.029E+00
						TH-232	9.558E-01
						U-235	2.011E-01
C11	0.00	0.274	0.364	2.283	0.299	Sum	1.271E+01
						CS-137	5.065E-01
						K-40	9.610E+00
						RA-226	1.177E+00
						TH-232	1.153E+00
						U-235	2.591E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D01	1.00	1.539	0.455	2.580	0.323	Sum	8.204E+00
						CS-137	4.873E-01
						K-40	5.723E+00
						RA-226	8.152E-01
						TH-232	1.011E+00
						U-235	1.673E-01
D02	1.00	1.429	0.380	3.087	0.309	Sum	6.972E+00
						CS-137	1.013E+00
						K-40	4.571E+00
						RA-226	6.908E-01
						TH-232	5.476E-01
						U-235	1.498E-01
D03	0.00	2.950	0.603	3.183	0.357	Sum	6.398E+00
						CS-137	5.990E-01
						K-40	4.580E+00
						RA-226	5.625E-01
						TH-232	5.573E-01
						U-235	9.962E-02
D04	0.00	1.130	0.501	3.315	0.338	Sum	6.247E+00
						CS-137	3.687E-01
						K-40	4.471E+00
						RA-226	6.236E-01
						TH-232	6.796E-01
						U-235	1.040E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D05	0.00	0.203	0.269	1.246	0.276	Sum	4.960E+00
						CS-137	9.996E-01
						K-40	2.970E+00
						RA-226	5.375E-01
						TH-232	3.786E-01
						U-235	7.430E-02
D06	0.00	1.297	0.383	2.955	0.313	Sum	6.582E+00
						CS-137	4.420E-01
						K-40	4.784E+00
						RA-226	6.056E-01
						TH-232	6.092E-01
						U-235	1.409E-01
D07	1.00	0.544	0.482	2.786	0.333	Sum	7.790E+00
						CS-137	3.904E-01
						K-40	5.979E+00
						RA-226	6.841E-01
						TH-232	5.964E-01
						U-235	1.397E-01
D08	2.00	2.025	0.598	3.548	0.361	Sum	1.001E+01
						CS-137	3.516E-01
						K-40	7.653E+00
						RA-226	9.713E-01
						TH-232	7.986E-01
						U-235	2.396E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D09	3.00	0.344	0.457	1.671	0.330	Sum	1.069E+01
						CS-137	4.616E-01
						K-40	8.377E+00
						RA-226	9.740E-01
						TH-232	8.819E-01
D10	3.00	2.175	0.722	3.468	0.382	Sum	1.091E+01
						CS-137	4.104E-01
						K-40	8.581E+00
						RA-226	8.321E-01
						TH-232	8.924E-01
						U-235	1.965E-01
D11	3.00	2.890	0.768	4.036	0.389	Sum	1.089E+01
						CS-137	4.335E-01
						K-40	8.266E+00
						RA-226	1.010E+00
						TH-232	1.019E+00
						U-235	1.590E-01
D12	2.00	3.288	0.672	3.230	0.370	Sum	9.720E+00
						CS-137	2.056E-01
						K-40	7.585E+00
						RA-226	9.205E-01
						TH-232	7.918E-01
						U-235	2.172E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D13	2.00	4.035	0.670	3.849	0.371	Sum	8.955E+00
						CS-137	2.554E-01
						K-40	6.459E+00
						RA-226	1.042E+00
						TH-232	1.022E+00
						U-235	1.765E-01
E01	1.00	1.687	0.499	3.326	0.374	Sum	7.151E+00
						CS-137	6.360E-01
						K-40	4.867E+00
						RA-226	7.271E-01
						TH-232	7.848E-01
						U-235	1.358E-01
E02	0.00	1.953	0.516	2.280	0.363	Sum	7.422E+00
						CS-137	5.424E-01
						K-40	5.289E+00
						RA-226	7.374E-01
						TH-232	7.073E-01
						U-235	1.459E-01
E03	-1.00	1.467	0.493	3.523	0.368	Sum	5.966E+00
						CS-137	6.377E-01
						K-40	4.206E+00
						RA-226	5.791E-01
						TH-232	4.270E-01
						U-235	1.161E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E04	0.00	1.287	0.340	2.023	0.322	Sum	6.129E+00
						CS-137	7.875E-01
						K-40	4.205E+00
						RA-226	5.245E-01
						TH-232	5.030E-01
						U-235	1.088E-01
E05	-1.00	1.332	0.318	1.697	0.323	Sum	4.142E+00
						CS-137	3.533E-01
						K-40	2.998E+00
						RA-226	3.999E-01
						TH-232	3.178E-01
						U-235	7.311E-02
E06	0.00	0.442	0.327	1.795	0.321	Sum	5.854E+00
						CS-137	6.060E-01
						K-40	4.320E+00
						RA-226	4.343E-01
						TH-232	4.810E-01
						U-235	1.298E-02
E06-02 02 ft depth		1.297	0.493	2.082	0.332	Sum	4.543E+00
						K-40	3.608E+00
						RA-226	4.272E-01
						TH-232	4.600E-01
						U-235	4.782E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
E06-04	04 ft depth		1.821	0.346	0.984	0.290	Sum	4.413E+00
							CS-137	1.938E-02
							K-40	3.557E+00
							RA-226	4.370E-01
							TH-232	3.338E-01
							U-235	6.598E-02
E07		1.00	1.131	0.523	3.071	0.375	Sum	6.317E+00
							CS-137	4.902E-01
							K-40	4.533E+00
							RA-226	6.066E-01
							TH-232	5.534E-01
							U-235	1.335E-01
E08		0.00	1.003	0.571	2.568	0.387	Sum	9.348E+00
							CS-137	4.938E-01
							K-40	6.894E+00
							RA-226	8.637E-01
							TH-232	8.862E-01
							U-235	2.107E-01
E08-02	02 ft depth		2.069	0.550	2.122	0.339	Sum	6.827E+00
							K-40	5.262E+00
							RA-226	6.672E-01
							TH-232	7.390E-01
							U-235	1.584E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
E08-04	04 ft depth		1.859	0.353	1.296	0.298	Sum	4.612E+00
							CS-137	2.348E-02
							K-40	3.838E+00
							RA-226	3.701E-01
							TH-232	3.160E-01
							U-235	6.425E-02
E09		0.00	0.980	0.558	1.734	0.380	Sum	9.265E+00
							CS-137	3.105E-01
							K-40	7.010E+00
							RA-226	8.562E-01
							TH-232	9.295E-01
							U-235	1.586E-01
E10		1.00	3.101	0.574	2.488	0.385	Sum	9.957E+00
							CS-137	4.592E-01
							K-40	7.693E+00
							RA-226	8.356E-01
							TH-232	8.292E-01
							U-235	1.397E-01
E11		2.00	0.836	0.618	2.950	0.393	Sum	1.043E+01
							CS-137	3.691E-01
							K-40	7.933E+00
							RA-226	1.062E+00
							TH-232	7.969E-01
							U-235	2.649E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
E11-02	02 ft depth		0.727	0.322	1.346	0.285	Sum	3.900E+00
							CS-137	2.922E-02
							K-40	3.037E+00
							RA-226	3.803E-01
							TH-232	3.800E-01
							U-235	7.344E-02
E11-04	04 ft depth		1.369	0.455	1.093	0.323	Sum	6.317E+00
							CS-137	2.886E-02
							K-40	5.240E+00
							RA-226	5.234E-01
							TH-232	4.490E-01
							U-235	7.585E-02
E12		1.00	3.546	1.381	4.211	0.514	Sum	1.427E+01
							CS-137	6.342E-01
							K-40	1.135E+01
							RA-226	1.006E+00
							TH-232	1.102E+00
							U-235	1.825E-01
E13		2.00	1.263	0.584	2.628	0.386	Sum	1.052E+01
							CS-137	4.120E-01
							K-40	7.580E+00
							RA-226	1.003E+00
							TH-232	1.077E+00
							U-235	4.486E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E14	2.00	1.094	0.506	2.486	0.375	Sum	1.042E+01
						CS-137	3.927E-01
						K-40	7.890E+00
						RA-226	1.002E+00
						TH-232	8.888E-01
						U-235	2.502E-01
F01	1.00	3.144	0.629	2.926	0.399	Sum	7.775E+00
						CS-137	4.496E-01
						K-40	5.584E+00
						RA-226	8.240E-01
						TH-232	7.852E-01
						U-235	1.326E-01
F02	1.00	1.109	0.631	2.901	0.396	Sum	9.118E+00
						CS-137	7.470E-01
						K-40	6.494E+00
						RA-226	8.939E-01
						TH-232	8.759E-01
						U-235	1.074E-01
F03	0.00	0.245	0.453	3.342	0.355	Sum	7.965E+00
						CS-137	9.552E-01
						K-40	5.585E+00
						RA-226	6.948E-01
						TH-232	5.987E-01
						U-235	1.311E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F04	-1.00	0.610	0.347	2.470	0.329	Sum	5.069E+00
						CS-137	3.443E-01
						K-40	3.759E+00
						RA-226	3.965E-01
						TH-232	4.703E-01
						U-235	9.852E-02
F05	-1.00	1.193	0.353	2.581	0.329	Sum	5.664E+00
						CS-137	8.516E-01
						K-40	3.760E+00
						RA-226	4.887E-01
						TH-232	4.738E-01
						U-235	8.996E-02
F06	-1.00	0.299	0.316	1.277	0.316	Sum	4.240E+00
						CS-137	4.196E-01
						K-40	2.868E+00
						RA-226	4.345E-01
						TH-232	4.047E-01
						U-235	1.134E-01
F07	-1.00	0.208	0.384	2.552	0.340	Sum	6.502E+00
						CS-137	2.671E-01
						K-40	4.971E+00
						RA-226	5.622E-01
						TH-232	5.726E-01
						U-235	1.286E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F08		-1.00	2.226	0.531	2.058	0.379	Sum	8.921E+00
							CS-137	7.679E-01
							K-40	6.365E+00
							RA-226	6.997E-01
							TH-232	9.312E-01
							U-235	1.576E-01
F08-02	02 ft depth		1.898	0.504	1.762	0.433	Sum	7.229E+00
							K-40	6.020E+00
							RA-226	5.457E-01
							TH-232	5.836E-01
							U-235	7.936E-02
F08-04	04 ft depth		0.645	0.343	1.122	0.386	Sum	4.107E+00
							CS-137	3.702E-02
							K-40	3.281E+00
							RA-226	2.929E-01
							TH-232	4.309E-01
							U-235	6.507E-02
F09		-2.00	1.703	0.504	2.724	0.372	Sum	3.625E+00
							CS-137	7.395E-01
							K-40	1.965E+00
							RA-226	4.182E-01
							TH-232	4.209E-01
							U-235	8.159E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F10		1.00	2.262	0.598	3.591	0.389	Sum	9.047E+00
							CS-137	3.837E-01
							K-40	6.683E+00
							RA-226	9.043E-01
							TH-232	9.207E-01
							U-235	1.556E-01
F10-02	02 ft depth		1.039	0.345	0.663	0.380	Sum	4.766E+00
							K-40	4.047E+00
							RA-226	3.272E-01
							TH-232	3.296E-01
							U-235	6.243E-02
F10-04	04 ft depth		0.957	0.318	1.145	0.375	Sum	4.900E+00
							K-40	4.019E+00
							RA-226	3.701E-01
							TH-232	4.484E-01
							U-235	6.211E-02
F11		2.00	1.234	0.571	3.094	0.386	Sum	9.724E+00
							CS-137	5.141E-01
							K-40	7.239E+00
							RA-226	8.427E-01
							TH-232	9.760E-01
							U-235	1.519E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F12	1.00	3.900	0.931	4.331	0.452	Sum	1.048E+01
						CS-137	3.713E-01
						K-40	8.081E+00
						RA-226	9.626E-01
						TH-232	9.106E-01
						U-235	1.587E-01
F13	2.00	1.970	0.662	2.766	0.406	Sum	1.062E+01
						CS-137	3.333E-01
						K-40	8.154E+00
						RA-226	9.514E-01
						TH-232	9.459E-01
						U-235	2.384E-01
F14	2.00	1.430	0.661	4.567	0.410	Sum	9.865E+00
						CS-137	3.433E-01
						K-40	7.424E+00
						RA-226	9.953E-01
						TH-232	9.395E-01
						U-235	1.627E-01
F15	0.00	1.865	0.726	3.452	0.421	Sum	1.002E+01
						CS-137	5.410E-01
						K-40	7.355E+00
						RA-226	8.224E-01
						TH-232	9.641E-01
						U-235	3.359E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G02	0.00	0.972	0.646	3.700	0.357	Sum	8.479E+00
						CS-137	4.643E-01
						K-40	6.140E+00
						RA-226	7.153E-01
						TH-232	9.737E-01
						U-235	1.861E-01
G03	0.00	1.925	0.512	2.735	0.342	Sum	6.824E+00
						CS-137	4.973E-01
						K-40	4.876E+00
						RA-226	6.013E-01
						TH-232	7.449E-01
						U-235	1.049E-01
G04	-2.00	0.956	0.363	1.823	0.305	Sum	5.003E+00
						CS-137	3.005E-01
						K-40	3.677E+00
						RA-226	5.167E-01
						TH-232	4.287E-01
						U-235	7.969E-02
G05	-1.00	0.901	0.479	4.022	0.325	Sum	7.563E+00
						CS-137	9.008E-01
						K-40	5.401E+00
						RA-226	5.998E-01
						TH-232	5.731E-01
						U-235	8.796E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
G06		0.00	1.087	0.481	2.367	0.326	Sum	6.073E+00
							CS-137	1.555E-01
							K-40	4.499E+00
							RA-226	6.131E-01
							TH-232	6.908E-01
							U-235	1.143E-01
G06-02	02 ft depth		0.813	0.360	0.899	0.299	Sum	4.171E+00
							K-40	3.312E+00
							RA-226	3.608E-01
							TH-232	4.200E-01
							U-235	7.858E-02
G06-04	04 ft depth		0.825	0.313	1.247	0.287	Sum	3.392E+00
							K-40	2.731E+00
							RA-226	2.487E-01
							TH-232	3.190E-01
							U-235	9.364E-02
G07		-2.00	1.396	0.464	1.660	0.328	Sum	6.471E+00
							CS-137	2.288E-01
							K-40	4.952E+00
							RA-226	7.029E-01
							TH-232	4.986E-01
							U-235	8.899E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
G07-02	02 ft depth		2.205	0.391	1.674	0.397	Sum	5.321E+00
							K-40	4.479E+00
							RA-226	3.585E-01
							TH-232	4.280E-01
							U-235	5.522E-02
G07-04	04 ft depth		0.548	0.291	0.632	0.362	Sum	2.618E+00
							K-40	1.912E+00
							RA-226	3.072E-01
							TH-232	3.351E-01
							U-235	6.343E-02
G08		0.00	1.783	0.592	3.562	0.350	Sum	9.347E+00
							CO-60	4.156E-02
							CS-137	4.756E-01
							K-40	6.911E+00
							RA-226	9.240E-01
							TH-232	8.586E-01
							U-235	1.366E-01
G08-02	02 ft depth		0.622	0.560	1.364	0.385	Sum	7.349E+00
							K-40	5.800E+00
							RA-226	5.938E-01
							TH-232	7.897E-01
							U-235	1.654E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
G08-04	04 ft depth		0.431	0.388	0.320	0.346	Sum	3.713E+00
							K-40	2.960E+00
							RA-226	2.596E-01
							TH-232	4.280E-01
							U-235	6.549E-02
G09		0.00	4.075	0.722	4.390	0.377	Sum	9.115E+00
							CS-137	8.090E-01
							K-40	6.401E+00
							RA-226	8.407E-01
							TH-232	8.803E-01
							U-235	1.835E-01
G10		0.00	3.560	0.789	3.708	0.385	Sum	1.134E+01
							CO-60	1.399E-01
							CS-137	6.810E-01
							K-40	8.379E+00
							RA-226	9.445E-01
							TH-232	8.468E-01
							U-235	3.467E-01
G10-02	02 ft depth		0.206	0.407	0.816	0.353	Sum	4.148E+00
							K-40	3.225E+00
							RA-226	4.284E-01
							TH-232	4.490E-01
							U-235	4.554E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
G10-04	04 ft depth		0.969	0.417	0.162	0.351	Sum	4.662E+00
							K-40	3.851E+00
							RA-226	3.840E-01
							TH-232	3.598E-01
							U-235	6.675E-02
G10A		1.00	6.317	0.988	4.719	0.418	Sum	1.119E+01
							CO-60	6.986E-01
							CS-137	5.987E-02
							K-40	8.451E+00
							RA-226	9.853E-01
							TH-232	9.055E-01
							U-235	9.062E-02
G10A-2	2 ft depth		0.469	0.331	0.305	0.330	Sum	3.520E+00
							K-40	2.866E+00
							RA-226	2.845E-01
							TH-232	3.163E-01
							U-235	5.306E-02
G10A-4	4 ft depth		0.236	0.468	0.398	0.369	Sum	5.732E+00
							K-40	4.545E+00
							RA-226	5.274E-01
							TH-232	5.675E-01
							U-235	9.192E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
G11		0.00	4.788	0.707	3.246	0.372	Sum	8.997E+00
							CS-137	3.263E-01
							K-40	6.735E+00
							RA-226	8.449E-01
							TH-232	9.779E-01
							U-235	1.127E-01
G11-02	02 ft depth		1.067	0.354	0.734	0.389	Sum	3.978E+00
							CS-137	3.824E-02
							K-40	3.063E+00
							RA-226	3.457E-01
							TH-232	4.113E-01
							U-235	1.194E-01
G11-04	04 ft depth		0.282	0.374	0.512	0.392	Sum	4.203E+00
							K-40	3.449E+00
							RA-226	3.533E-01
							TH-232	3.370E-01
							U-235	6.357E-02
G12		1.00	0.839	0.744	4.052	0.384	Sum	7.926E+00
							CS-137	2.257E-01
							K-40	6.074E+00
							RA-226	7.085E-01
							TH-232	8.006E-01
							U-235	1.168E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G13		0.00	2.625	0.698	3.657	0.365	Sum	1.081E+01
							CS-137	1.082E-01
							K-40	8.577E+00
							RA-226	9.954E-01
							TH-232	9.422E-01
							U-235	1.874E-01
G13-02	02 ft depth		5.881	0.919	2.302	0.528	Sum	1.187E+01
							CS-137	3.948E-02
							K-40	9.515E+00
							RA-226	1.078E+00
							TH-232	1.047E+00
							U-235	1.921E-01
G13-04	04 ft depth		7.346	0.887	1.903	0.524	Sum	9.507E+00
							K-40	7.767E+00
							RA-226	7.027E-01
							TH-232	9.024E-01
							U-235	1.345E-01
G14		1.00	1.101	0.731	3.529	0.381	Sum	1.034E+01
							CS-137	3.299E-01
							K-40	8.163E+00
							RA-226	9.266E-01
							TH-232	7.689E-01
							U-235	1.520E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
G15	0.00	2.159	0.820	3.431	0.393	Sum	1.174E+01
						CS-137	3.526E-01
						K-40	9.008E+00
						RA-226	9.273E-01
						TH-232	1.029E+00
						U-235	4.249E-01
H02	3.00	4.001	0.818	4.654	0.393	Sum	9.867E+00
						CS-137	6.783E-01
						K-40	6.937E+00
						RA-226	1.057E+00
						TH-232	1.042E+00
						U-235	1.523E-01
H03	2.00	2.204	0.837	5.776	0.396	Sum	6.884E+00
						CS-137	5.909E-01
						K-40	4.950E+00
						RA-226	6.681E-01
						TH-232	5.273E-01
						U-235	1.480E-01
H04	2.00	0.967	0.642	6.542	0.366	Sum	6.546E+00
						CS-137	1.002E+00
						K-40	4.294E+00
						RA-226	5.340E-01
						TH-232	6.189E-01
						U-235	9.662E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H05	1.00	1.187	0.394	2.830	0.311	Sum	5.647E+00
						CS-137	6.610E-01
						K-40	3.693E+00
						RA-226	5.663E-01
						TH-232	6.231E-01
						U-235	1.040E-01
H06	2.00	2.517	0.515	2.535	0.341	Sum	7.344E+00
						CS-137	2.638E-01
						K-40	5.538E+00
						RA-226	6.603E-01
						TH-232	7.570E-01
						U-235	1.252E-01
H07	2.00	3.060	0.626	3.310	0.364	Sum	7.742E+00
						CS-137	7.917E-02
						K-40	5.914E+00
						RA-226	7.572E-01
						TH-232	8.240E-01
						U-235	1.674E-01
H08	1.00	2.515	0.478	2.726	0.334	Sum	9.120E+00
						CS-137	3.672E-01
						K-40	6.837E+00
						RA-226	7.988E-01
						TH-232	7.854E-01
						U-235	3.313E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H08-02	02 ft depth		1.543	0.664	1.334	0.412	Sum	8.799E+00
							K-40	7.076E+00
							RA-226	5.756E-01
							TH-232	7.830E-01
							U-235	3.639E-01
H08-04	04 ft depth		0.067	0.330	0.453	0.326	Sum	3.920E+00
							K-40	2.896E+00
							RA-226	3.638E-01
							TH-232	3.009E-01
							U-235	3.588E-01
H09		2.00	2.549	0.565	3.085	0.346	Sum	9.025E+00
							CS-137	5.004E-01
							K-40	6.742E+00
							RA-226	7.114E-01
							TH-232	8.791E-01
							U-235	1.924E-01
H09-02	02 ft depth		1.535	0.453	2.052	0.415	Sum	5.428E+00
							K-40	4.405E+00
							RA-226	4.153E-01
							TH-232	4.349E-01
							U-235	1.724E-01
H09-04	04 ft depth		1.462	0.324	0.552	0.380	Sum	3.795E+00
							K-40	3.108E+00
							RA-226	2.950E-01
							TH-232	3.095E-01
							U-235	8.224E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
H10		3.00	1.136	0.503	3.216	0.334	Sum	1.108E+01
							CS-137	4.882E-01
							K-40	8.325E+00
							RA-226	9.952E-01
							TH-232	9.703E-01
							U-235	2.996E-01
H11		2.00	1.695	0.644	3.573	0.364	Sum	9.542E+00
							CS-137	4.881E-01
							K-40	7.183E+00
							RA-226	8.246E-01
							TH-232	8.907E-01
							U-235	1.557E-01
H11-02	02 ft depth		1.280	0.340	0.660	0.378	Sum	3.835E+00
							K-40	3.010E+00
							RA-226	3.571E-01
							TH-232	3.999E-01
							U-235	6.849E-02
H11-04	04 ft depth		1.189	0.287	1.213	0.363	Sum	3.971E+00
							K-40	3.088E+00
							RA-226	4.269E-01
							TH-232	4.564E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H12		2.00	3.697	0.756	3.931	0.386	Sum	1.109E+01
							CS-137	4.105E-01
							K-40	8.862E+00
							RA-226	8.955E-01
							TH-232	7.988E-01
							U-235	1.278E-01
H12-02	02 ft depth		0.652	0.433	1.242	0.313	Sum	4.852E+00
							CS-137	4.767E-02
							K-40	3.783E+00
							RA-226	4.768E-01
							TH-232	4.695E-01
							U-235	7.514E-02
H12-04	04 ft depth		1.692	0.409	1.337	0.308	Sum	5.357E+00
							K-40	4.163E+00
							RA-226	5.330E-01
							TH-232	5.996E-01
							U-235	6.094E-02
H13		3.00	1.963	0.652	3.287	0.369	Sum	1.080E+01
							CS-137	6.850E-01
							K-40	8.302E+00
							RA-226	8.708E-01
							TH-232	8.311E-01
							U-235	1.108E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H14	2.00	2.767	0.613	3.298	0.356	Sum	1.082E+01
						CS-137	4.655E-01
						K-40	8.018E+00
						RA-226	1.012E+00
						TH-232	1.067E+00
						U-235	2.562E-01
H15	3.00	1.831	0.695	3.345	0.376	Sum	1.320E+01
						CS-137	6.020E-01
						K-40	1.007E+01
						RA-226	9.872E-01
						TH-232	1.144E+00
						U-235	4.005E-01
I03	1.00	2.170	0.730	3.155	0.421	Sum	1.013E+01
						CS-137	6.533E-01
						K-40	7.315E+00
						RA-226	9.199E-01
						TH-232	1.013E+00
						U-235	2.321E-01
I04	1.00	1.533	0.872	4.065	0.449	Sum	1.092E+01
						CS-137	7.434E-01
						K-40	7.933E+00
						RA-226	9.403E-01
						TH-232	1.110E+00
						U-235	1.894E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
I05		1.00	1.581	0.532	2.096	0.374	Sum	9.103E+00
							CS-137	7.888E-01
							K-40	6.551E+00
							RA-226	8.095E-01
							TH-232	8.681E-01
							U-235	8.535E-02
I06		0.00	3.918	0.725	4.818	0.420	Sum	7.442E+00
							CS-137	7.710E-01
							K-40	5.173E+00
							RA-226	6.268E-01
							TH-232	7.483E-01
							U-235	1.225E-01
I06-02	02 ft depth		1.738	0.385	0.906	0.302	Sum	4.068E+00
							K-40	3.155E+00
							RA-226	4.418E-01
							TH-232	3.924E-01
							U-235	7.893E-02
I06-04	04 ft depth		2.073	0.424	2.211	0.314	Sum	4.687E+00
							K-40	3.661E+00
							RA-226	4.396E-01
							TH-232	4.905E-01
							U-235	9.628E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I07		1.00	0.934	0.531	2.004	0.370	Sum	7.438E+00
							CS-137	8.547E-02
							K-40	5.620E+00
							RA-226	8.753E-01
							TH-232	7.513E-01
							U-235	1.062E-01
I07-02	02 ft depth		0.533	0.284	0.209	0.359	Sum	2.603E+00
							K-40	2.152E+00
							RA-226	1.938E-01
							TH-232	1.921E-01
							U-235	6.486E-02
I07-04	04 ft depth		0.431	0.286	0.523	0.360	Sum	2.107E+00
							K-40	1.620E+00
							RA-226	1.820E-01
							TH-232	2.464E-01
							U-235	5.880E-02
I07-06	06 ft depth		1.678	0.355	2.136	0.315	Sum	5.652E+00
							K-40	4.647E+00
							RA-226	4.954E-01
							TH-232	4.086E-01
							U-235	1.014E-01
I07-07	07 ft depth		0.955	0.372	1.534	0.359	Sum	4.395E+00
							K-40	3.334E+00
							RA-226	4.619E-01
							TH-232	5.204E-01
							U-235	7.897E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I07-08	08 ft depth		2.254	0.451	1.807	0.389	Sum	7.097E+00
							K-40	5.716E+00
							RA-226	5.452E-01
							TH-232	7.205E-01
							U-235	1.152E-01
I08		0.00	1.706	0.664	2.001	0.408	Sum	9.168E+00
							CO-60	9.530E-02
							CS-137	3.081E-01
							K-40	7.068E+00
							RA-226	7.323E-01
							TH-232	8.182E-01
							U-235	1.462E-01
I08-02	02 ft depth		3.054	0.738	1.131	0.487	Sum	4.880E+00
							K-40	3.793E+00
							RA-226	5.008E-01
							TH-232	5.860E-01
I08-04	04 ft depth		0.356	0.316	0.598	0.374	Sum	2.295E+00
							K-40	1.805E+00
							RA-226	2.055E-01
							TH-232	2.313E-01
							U-235	5.322E-02
I08-06	06 ft depth		1.614	0.287	0.869	0.289	Sum	4.104E+00
							K-40	3.185E+00
							RA-226	3.661E-01
							TH-232	4.911E-01
							U-235	6.146E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I08-07	07 ft depth		1.693	0.447	2.515	0.387	Sum	6.606E+00
							K-40	5.272E+00
							RA-226	6.026E-01
							TH-232	6.219E-01
							U-235	1.099E-01
I08-08	08 ft depth		1.665	0.648	3.434	0.451	Sum	1.243E+01
							K-40	1.069E+01
							RA-226	7.168E-01
							TH-232	9.087E-01
							U-235	1.188E-01
I09		1.00	2.951	0.704	2.351	0.408	Sum	7.714E+00
							CS-137	1.654E-01
							K-40	5.652E+00
							RA-226	8.495E-01
							TH-232	8.969E-01
							U-235	1.499E-01
I10		1.00	1.149	0.654	3.065	0.409	Sum	8.607E+00
							CS-137	5.011E-01
							K-40	6.128E+00
							RA-226	8.885E-01
							TH-232	1.001E+00
							U-235	8.813E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I10-02	02 ft depth		0.813	0.432	1.573	0.320	Sum	4.811E+00
							K-40	3.879E+00
							RA-226	4.435E-01
							TH-232	4.128E-01
							U-235	7.562E-02
I10-04	04 ft depth		1.753	0.359	1.281	0.295	Sum	3.554E+00
							K-40	2.709E+00
							RA-226	3.582E-01
							TH-232	4.086E-01
							U-235	7.808E-02
I11		1.00	0.663	0.704	3.947	0.398	Sum	9.127E+00
							CS-137	5.803E-01
							K-40	6.764E+00
							RA-226	8.330E-01
							TH-232	7.948E-01
							U-235	1.551E-01
I12		0.00	3.258	0.955	5.349	0.433	Sum	8.317E+00
							CS-137	4.538E-01
							K-40	6.094E+00
							RA-226	7.618E-01
							TH-232	8.766E-01
							U-235	1.306E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I13	1.00	4.007	1.482	6.515	0.506	Sum	1.365E+01
						CS-137	7.354E-01
						K-40	1.030E+01
						RA-226	1.119E+00
						TH-232	1.243E+00
						U-235	2.546E-01
I14	0.00	3.092	1.143	5.005	0.464	Sum	1.199E+01
						CS-137	6.172E-01
						K-40	9.241E+00
						RA-226	9.231E-01
						TH-232	9.071E-01
						U-235	3.033E-01
I15	0.00	2.073	1.037	4.255	0.452	Sum	1.335E+01
						CS-137	5.007E-01
						K-40	1.085E+01
						RA-226	1.082E+00
						TH-232	7.453E-01
						U-235	1.728E-01
J04	0.00	1.544	0.684	4.318	0.377	Sum	9.780E+00
						CS-137	4.115E-01
						K-40	7.154E+00
						RA-226	9.630E-01
						TH-232	1.088E+00
						U-235	1.640E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J05		1.00	1.297	0.690	3.425	0.369	Sum	9.785E+00
							CS-137	4.113E-01
							K-40	7.372E+00
							RA-226	9.214E-01
							TH-232	9.567E-01
							U-235	1.233E-01
J06		0.00	1.766	0.587	2.802	0.351	Sum	8.670E+00
							CS-137	3.875E-01
							K-40	6.368E+00
							RA-226	9.874E-01
							TH-232	7.810E-01
							U-235	1.466E-01
J07		1.00	0.815	0.541	1.653	0.339	Sum	6.768E+00
							CS-137	5.534E-02
							K-40	5.102E+00
							RA-226	8.330E-01
							TH-232	6.535E-01
							U-235	1.242E-01
J07-02	02 ft depth		1.219	0.358	2.205	0.315	Sum	3.992E+00
							K-40	3.109E+00
							RA-226	4.169E-01
							TH-232	4.158E-01
							U-235	5.061E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
J07-04	04 ft depth		1.698	0.302	1.503	0.295	Sum	3.058E+00
							K-40	2.368E+00
							RA-226	2.406E-01
							TH-232	3.970E-01
							U-235	5.276E-02
J07-06	06 ft depth		2.304	0.354	1.540	0.315	Sum	2.228E+00
							K-40	1.638E+00
							RA-226	2.270E-01
							TH-232	2.942E-01
							U-235	6.857E-02
J08		0.00	1.313	0.582	1.983	0.353	Sum	8.574E+00
							CO-60	1.440E-01
							CS-137	1.807E-01
							K-40	6.429E+00
							RA-226	8.414E-01
							TH-232	7.954E-01
							U-235	1.835E-01
J08-02	02 ft depth		2.136	0.437	1.501	0.413	Sum	5.984E+00
							CS-137	2.724E-02
							K-40	4.765E+00
							RA-226	5.358E-01
							TH-232	5.655E-01
							U-235	9.093E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J08-04	04 ft depth		1.224	0.361	0.739	0.391	Sum	3.577E+00
							CO-60	2.897E-01
							K-40	2.371E+00
							RA-226	3.766E-01
							TH-232	4.676E-01
							U-235	7.201E-02
J08-06	06 ft depth		1.828	0.353	1.994	0.314	Sum	4.680E+00
							CO-60	4.755E-01
							K-40	3.206E+00
							RA-226	4.811E-01
							TH-232	4.916E-01
							U-235	2.558E-02
J08-07	07 ft depth		1.053	0.487	2.546	0.403	Sum	7.099E+00
							CO-60	3.294E-01
							CS-137	5.754E-02
							K-40	5.270E+00
							RA-226	6.161E-01
							TH-232	7.368E-01
							U-235	8.927E-02
J08-08	08 ft depth		1.982	0.431	2.554	0.382	Sum	5.744E+00
							CO-60	4.569E-01
							K-40	3.972E+00
							RA-226	5.646E-01
							TH-232	6.413E-01
							U-235	1.095E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J08-12	12 ft depth		1.387	0.263	0.444	0.356	Sum	9.654E-01
							RA-226	4.947E-01
							TH-232	4.172E-01
							U-235	5.354E-02
J08B-6	6 ft depth		1.922	0.365	1.576	0.409	Sum	4.235E+00
							CO-60	9.594E-02
							K-40	3.069E+00
							RA-226	4.365E-01
							TH-232	5.924E-01
							U-235	4.100E-02
J09		0.00	1.797	0.603	4.177	0.394	Sum	8.006E+00
							CO-60	1.223E-01
							CS-137	3.242E-01
							K-40	5.646E+00
							RA-226	8.777E-01
							TH-232	7.536E-01
							U-235	2.822E-01
J09-02	02 ft depth		1.074	0.317	0.532	0.366	Sum	4.135E+00
							K-40	3.475E+00
							RA-226	2.982E-01
							TH-232	2.863E-01
							U-235	7.516E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J09-04	04 ft depth		0.638	0.339	0.769	0.378	Sum	3.071E+00
							K-40	2.365E+00
							RA-226	3.465E-01
							TH-232	2.914E-01
							U-235	6.849E-02
J09-06	06 ft depth		2.442	0.330	0.916	0.305	Sum	5.342E+00
							K-40	4.064E+00
							RA-226	5.386E-01
							TH-232	6.375E-01
							U-235	1.016E-01
J10		0.00	0.901	0.605	3.154	0.395	Sum	7.421E+00
							CS-137	3.497E-01
							K-40	5.291E+00
							RA-226	8.953E-01
							TH-232	7.731E-01
							U-235	1.115E-01
J11		0.00	3.606	0.518	3.705	0.369	Sum	7.452E+00
							CS-137	5.261E-01
							K-40	5.165E+00
							RA-226	9.133E-01
							TH-232	7.257E-01
							U-235	1.222E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
J12		0.00	2.503	0.504	3.059	0.366	Sum	6.678E+00
							CS-137	4.361E-01
							K-40	4.710E+00
							RA-226	6.891E-01
							TH-232	7.636E-01
							U-235	7.933E-02
J13		0.00	1.863	0.536	2.680	0.380	Sum	9.340E+00
							CS-137	5.085E-01
							K-40	6.904E+00
							RA-226	8.563E-01
							TH-232	8.917E-01
							U-235	1.794E-01
J13-02	02 ft depth		4.859	1.174	2.741	0.572	Sum	9.648E+00
							K-40	7.517E+00
							RA-226	8.121E-01
							TH-232	1.135E+00
							U-235	1.834E-01
J13-04	04 ft depth		1.508	0.401	1.528	0.405	Sum	4.843E+00
							CS-137	2.095E-02
							K-40	3.858E+00
							RA-226	4.570E-01
							TH-232	3.799E-01
							U-235	1.269E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J14	0.00	1.981	0.570	3.609	0.389	Sum	9.507E+00
						CS-137	5.921E-01
						K-40	7.262E+00
						RA-226	8.058E-01
						TH-232	7.583E-01
						U-235	8.850E-02
J15	0.00	2.574	0.576	2.626	0.382	Sum	1.044E+01
						CS-137	3.517E-01
						K-40	8.190E+00
						RA-226	8.507E-01
						TH-232	8.853E-01
						U-235	1.600E-01
J16	0.00	5.305	1.335	6.356	0.511	Sum	1.593E+01
						CS-137	1.214E+00
						K-40	1.243E+01
						RA-226	9.085E-01
						TH-232	1.232E+00
						U-235	1.434E-01
K04	1.00	2.051	0.779	3.635	0.384	Sum	9.538E+00
						CS-137	4.966E-01
						K-40	7.142E+00
						RA-226	8.628E-01
						TH-232	8.813E-01
						U-235	1.553E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K05	1.00	1.138	0.605	3.525	0.359	Sum	9.002E+00
						CS-137	3.344E-01
						K-40	6.424E+00
						RA-226	9.283E-01
						TH-232	1.127E+00
						U-235	1.881E-01
K06	1.00	0.810	0.717	3.991	0.378	Sum	1.021E+01
						CS-137	5.646E-01
						K-40	7.615E+00
						RA-226	9.905E-01
						TH-232	8.557E-01
						U-235	1.832E-01
K07	1.00	1.843	0.412	2.840	0.347	Sum	1.007E+01
						CS-137	5.751E-01
						K-40	7.563E+00
						RA-226	9.552E-01
						TH-232	8.709E-01
						U-235	1.035E-01
K07-02 02 ft depth		2.237	0.425	1.538	0.313	Sum	4.979E+00
						K-40	4.009E+00
						RA-226	4.214E-01
						TH-232	4.647E-01
						U-235	8.406E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K07-04	04 ft depth		0.994	0.377	1.142	0.303	Sum	4.595E+00
							K-40	3.700E+00
							RA-226	4.601E-01
							TH-232	3.835E-01
							U-235	5.124E-02
K08		0.00	0.600	0.402	2.818	0.345	Sum	6.220E+00
							CO-60	8.252E-02
							CS-137	3.669E-01
							K-40	4.416E+00
							RA-226	7.083E-01
							TH-232	6.068E-01
							U-235	3.978E-02
K08-02	02 ft depth		0.420	0.372	1.514	0.386	Sum	4.451E+00
							CS-137	3.859E-02
							K-40	3.593E+00
							RA-226	3.766E-01
							TH-232	3.636E-01
							U-235	7.966E-02
K08-04	04 ft depth		1.996	0.312	0.700	0.370	Sum	3.524E+00
							K-40	2.829E+00
							RA-226	2.964E-01
							TH-232	3.615E-01
							U-235	3.710E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K08-06	06 ft depth		3.306	0.379	2.196	0.324	Sum	4.495E+00
							K-40	3.343E+00
							RA-226	5.014E-01
							TH-232	5.692E-01
							U-235	8.147E-02
K09		-1.00	1.779	0.398	3.585	0.345	Sum	8.431E+00
							CS-137	2.502E-01
							K-40	6.671E+00
							RA-226	5.859E-01
							TH-232	7.858E-01
							U-235	1.384E-01
K09-02	02 ft depth		2.207	0.426	2.165	0.340	Sum	2.809E+00
							K-40	2.275E+00
							RA-226	2.332E-01
							TH-232	2.642E-01
							U-235	3.677E-02
K09-04	04 ft depth		0.847	0.286	1.465	0.287	Sum	2.052E+00
							K-40	1.499E+00
							RA-226	2.134E-01
							TH-232	2.785E-01
							U-235	6.069E-02
K09-06	06 ft depth		1.359	0.287	1.045	0.287	Sum	3.282E+00
							K-40	2.611E+00
							RA-226	3.292E-01
							TH-232	2.787E-01
							U-235	6.312E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K09-07	07 ft depth		0.635	0.361	1.371	0.351	Sum	4.066E+00
							K-40	2.924E+00
							RA-226	5.087E-01
							TH-232	5.174E-01
							U-235	1.161E-01
K09-08	08 ft depth		1.722	0.411	1.952	0.375	Sum	5.356E+00
							K-40	4.139E+00
							RA-226	5.530E-01
							TH-232	5.880E-01
							U-235	7.576E-02
K09-12	12 ft depth		1.004	0.296	1.318	0.374	Sum	3.009E+00
							CS-137	2.626E-02
							K-40	1.755E+00
							RA-226	5.432E-01
							TH-232	5.273E-01
							U-235	1.576E-01
K10		0.00	1.320	0.443	2.239	0.354	Sum	9.356E+00
							CO-60	7.431E-02
							CS-137	4.102E-01
							K-40	6.789E+00
							RA-226	9.320E-01
							TH-232	9.649E-01
							U-235	1.854E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
K10-02	02 ft depth		1.640	0.335	0.774	0.380	Sum	3.513E+00
							CS-137	2.120E-02
							K-40	2.858E+00
							RA-226	2.868E-01
							TH-232	3.146E-01
							U-235	3.255E-02
K10-04	04 ft depth		0.630	0.279	0.672	0.356	Sum	3.439E+00
							K-40	2.731E+00
							RA-226	3.456E-01
							TH-232	3.237E-01
							U-235	3.865E-02
K11		0.00	2.029	0.510	4.096	0.374	Sum	8.172E+00
							CS-137	4.357E-01
							K-40	5.927E+00
							RA-226	7.023E-01
							TH-232	8.138E-01
							U-235	2.930E-01
K12		0.00	1.770	0.445	3.984	0.352	Sum	5.516E+00
							CS-137	5.079E-01
							K-40	3.740E+00
							RA-226	6.479E-01
							TH-232	5.451E-01
							U-235	7.472E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K13	0.00	2.509	0.388	3.019	0.338	Sum	8.019E+00
						CS-137	4.533E-01
						K-40	6.116E+00
						RA-226	6.101E-01
						TH-232	6.285E-01
						U-235	2.113E-01
K14	0.00	2.175	0.486	2.792	0.367	Sum	7.704E+00
						CS-137	5.119E-01
						K-40	5.484E+00
						RA-226	7.498E-01
						TH-232	8.367E-01
						U-235	1.216E-01
K15	0.00	2.609	0.438	2.774	0.355	Sum	7.623E+00
						CS-137	4.518E-01
						K-40	5.294E+00
						RA-226	7.407E-01
						TH-232	9.065E-01
						U-235	2.305E-01
K16	1.00	5.294	0.969	4.302	0.454	Sum	1.266E+01
						CS-137	6.162E-01
						K-40	1.002E+01
						RA-226	1.028E+00
						TH-232	7.862E-01
						U-235	2.054E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L05	1.00	1.712	0.856	4.396	0.421	Sum	1.027E+01
						CS-137	7.590E-01
						K-40	7.253E+00
						RA-226	1.121E+00
						TH-232	9.974E-01
						U-235	1.436E-01
L06	1.00	2.924	0.654	3.047	0.388	Sum	1.100E+01
						CS-137	4.431E-01
						K-40	8.409E+00
						RA-226	1.003E+00
						TH-232	9.731E-01
						U-235	1.755E-01
L07	1.00	1.524	0.648	2.501	0.387	Sum	1.045E+01
						CS-137	7.720E-01
						K-40	7.268E+00
						RA-226	9.014E-01
						TH-232	8.795E-01
						U-235	6.314E-01
L08	1.00	1.670	0.835	3.626	0.416	Sum	8.669E+00
						CS-137	9.173E-01
						K-40	5.843E+00
						RA-226	7.286E-01
						TH-232	8.234E-01
						U-235	3.570E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L08-02	02 ft depth		1.885	0.385	1.204	0.419	Sum	3.327E+00
							K-40	2.631E+00
							RA-226	3.137E-01
							TH-232	2.763E-01
							U-235	1.064E-01
L08-04	04 ft depth		1.420	0.343	1.265	0.395	Sum	4.753E+00
							CS-137	3.431E-02
							K-40	3.750E+00
							RA-226	4.710E-01
							TH-232	3.457E-01
							U-235	1.519E-01
L08-06	06 ft depth		0.872	0.386	2.500	0.419	Sum	2.622E+00
							CS-137	2.630E-02
							K-40	1.500E+00
							RA-226	3.551E-01
							TH-232	6.227E-01
							U-235	1.178E-01
L08-08	08 ft depth		1.260	0.372	1.115	0.411	Sum	2.606E+00
							K-40	1.719E+00
							RA-226	4.444E-01
							TH-232	3.831E-01
							U-235	5.966E-02
L08-10	10 ft depth		1.330	0.353	0.697	0.401	Sum	1.891E+00
							K-40	1.176E+00
							RA-226	3.773E-01
							TH-232	3.381E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L08-12	12 ft depth		1.398	0.286	1.178	0.368	Sum	1.547E+00
							K-40	8.381E-01
							RA-226	3.645E-01
							TH-232	2.873E-01
							U-235	5.724E-02
L09		1.00	1.877	0.694	3.289	0.393	Sum	8.508E+00
							CS-137	8.450E-01
							K-40	5.946E+00
							RA-226	7.072E-01
							TH-232	8.341E-01
							U-235	1.758E-01
L09-02	02 ft depth		0.732	0.324	1.239	0.387	Sum	3.402E+00
							K-40	2.808E+00
							RA-226	2.806E-01
							TH-232	3.134E-01
L09-04	04 ft depth		1.426	0.379	2.068	0.414	Sum	5.511E+00
							K-40	4.353E+00
							RA-226	4.868E-01
							TH-232	6.207E-01
							U-235	5.058E-02
L09-06	06 ft depth		1.914	0.363	1.635	0.407	Sum	1.446E+00
							K-40	1.070E+00
							RA-226	2.065E-01
							TH-232	1.148E-01
							U-235	5.449E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
L09-08	08 ft depth		1.197	0.398	2.111	0.423	Sum	2.561E+00
							K-40	2.027E+00
							RA-226	2.520E-01
							TH-232	2.241E-01
							U-235	5.769E-02
L09-10	10 ft depth		1.076	0.318	1.290	0.384	Sum	1.836E+00
							K-40	1.124E+00
							RA-226	2.899E-01
							TH-232	3.572E-01
							U-235	6.449E-02
L09-12	12 ft depth		1.112	0.269	0.214	0.359	Sum	1.883E+00
							K-40	8.313E-01
							RA-226	4.423E-01
							TH-232	3.855E-01
							U-235	2.241E-01
L10		1.00	2.507	0.561	2.770	0.369	Sum	7.092E+00
							CS-137	7.469E-01
							K-40	4.836E+00
							RA-226	6.200E-01
							TH-232	6.919E-01
							U-235	1.973E-01
L10-02	02 ft depth		1.063	0.314	1.104	0.384	Sum	3.352E+00
							K-40	2.657E+00
							RA-226	3.105E-01
							TH-232	3.423E-01
							U-235	4.175E-02

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
L10-04	04 ft depth		1.339	0.356	1.032	0.405	Sum	4.772E+00
							K-40	4.041E+00
							RA-226	3.834E-01
							TH-232	3.065E-01
							U-235	4.115E-02
L10-06	06 ft depth		0.489	0.260	0.443	0.355	Sum	4.241E+00
							K-40	2.844E+00
							RA-226	5.832E-01
							TH-232	6.090E-01
							U-235	2.044E-01
L10-08	08 ft depth		0.198	0.262	0.559	0.355	Sum	3.389E+00
							K-40	2.260E+00
							RA-226	4.837E-01
							TH-232	5.374E-01
							U-235	1.076E-01
L10-10	10 ft depth		0.202	0.269	0.039	0.357	Sum	1.821E+00
							K-40	8.073E-01
							RA-226	5.467E-01
							TH-232	4.008E-01
							U-235	6.630E-02
L10-12	12 ft depth		0.305	0.270	0.272	0.358	Sum	1.849E+00
							K-40	9.547E-01
							RA-226	4.235E-01
							TH-232	4.172E-01
							U-235	5.358E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L11	2.00	1.967	0.643	4.100	0.386	Sum	7.836E+00
						CS-137	1.234E+00
						K-40	4.834E+00
						RA-226	8.888E-01
						TH-232	7.971E-01
						U-235	8.235E-02
L12	2.00	2.172	0.577	4.252	0.370	Sum	7.060E+00
						CS-137	4.894E-01
						K-40	4.795E+00
						RA-226	6.921E-01
						TH-232	7.943E-01
						U-235	2.890E-01
L13	2.00	4.368	0.546	2.468	0.363	Sum	6.093E+00
						CS-137	3.548E-01
						K-40	4.485E+00
						RA-226	6.333E-01
						TH-232	4.695E-01
						U-235	1.500E-01
L14	1.00	1.814	0.671	4.426	0.391	Sum	8.075E+00
						CS-137	6.117E-01
						K-40	5.834E+00
						RA-226	7.054E-01
						TH-232	8.172E-01
						U-235	1.071E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L15	1.00	1.531	0.766	3.901	0.407	Sum	9.051E+00
						CS-137	4.710E-01
						K-40	6.702E+00
						RA-226	8.309E-01
						TH-232	9.233E-01
						U-235	1.240E-01
L16	1.00	0.580	0.616	3.647	0.381	Sum	8.689E+00
						CS-137	2.925E-01
						K-40	6.479E+00
						RA-226	8.719E-01
						TH-232	9.116E-01
						U-235	1.344E-01
M06	0.00	4.135	0.693	3.516	0.411	Sum	1.062E+01
						CS-137	6.547E-01
						K-40	7.735E+00
						RA-226	8.572E-01
						TH-232	1.045E+00
						U-235	3.301E-01
M07	1.00	3.160	0.707	3.691	0.414	Sum	1.071E+01
						CS-137	4.964E-01
						K-40	7.804E+00
						RA-226	1.029E+00
						TH-232	1.196E+00
						U-235	1.831E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
M08		0.00	1.610	0.540	3.464	0.381	Sum	1.208E+01
							CS-137	5.648E-01
							K-40	9.188E+00
							RA-226	1.136E+00
							TH-232	1.020E+00
							U-235	1.710E-01
M09		1.00	4.609	0.714	2.999	0.414	Sum	1.104E+01
							CS-137	4.183E-01
							K-40	7.980E+00
							RA-226	1.195E+00
							TH-232	1.147E+00
							U-235	3.015E-01
M09-02	02 ft depth		3.549	0.510	3.992	0.422	Sum	7.784E+00
							CS-137	8.942E-02
							K-40	5.671E+00
							RA-226	8.866E-01
							TH-232	8.688E-01
							U-235	2.682E-01
M09-04	04 ft depth		3.537	0.508	3.766	0.423	Sum	7.761E+00
							K-40	6.017E+00
							RA-226	7.201E-01
							TH-232	9.028E-01
							U-235	1.208E-01

GRIDS		FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M10		0.00	3.050	0.877	4.328	0.440	Sum	1.011E+01
							CS-137	3.358E-01
							K-40	7.763E+00
							RA-226	9.009E-01
							TH-232	9.484E-01
							U-235	1.574E-01
M10-02	02 ft depth		2.653	0.705	3.115	0.476	Sum	7.102E+00
							CS-137	3.411E-02
							K-40	5.716E+00
							RA-226	5.604E-01
							TH-232	6.904E-01
							U-235	1.014E-01
M10-04	04 ft depth		1.865	0.620	2.339	0.460	Sum	5.076E+00
							K-40	3.541E+00
							RA-226	6.627E-01
							TH-232	7.631E-01
							U-235	1.090E-01
M11		-1.00	2.890	0.529	2.590	0.377	Sum	7.096E+00
							CS-137	2.942E-01
							K-40	5.214E+00
							RA-226	7.475E-01
							TH-232	7.061E-01
							U-235	1.345E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M12	-1.00	1.578	0.454	2.514	0.356	Sum	5.274E+00
						CS-137	3.837E-01
						K-40	3.701E+00
						RA-226	4.736E-01
						TH-232	6.368E-01
						U-235	7.859E-02
M13	-2.00	5.092	0.732	3.101	0.417	Sum	9.016E+00
						CS-137	4.027E-01
						K-40	7.103E+00
						RA-226	6.460E-01
						TH-232	7.365E-01
						U-235	1.277E-01
M13-02 02 ft depth		1.793	0.596	1.373	0.347	Sum	5.005E+00
						CS-137	2.510E-02
						K-40	3.992E+00
						RA-226	3.997E-01
						TH-232	5.020E-01
						U-235	8.669E-02
M13-04 04 ft depth		1.007	0.335	1.433	0.291	Sum	3.628E+00
						CS-137	8.031E-03
						K-40	2.948E+00
						RA-226	3.184E-01
						TH-232	2.806E-01
						U-235	7.271E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M14	1.00	4.108	0.591	3.119	0.390	Sum	6.656E+00
						CS-137	3.137E-01
						K-40	4.317E+00
						RA-226	9.989E-01
						TH-232	8.302E-01
						U-235	1.963E-01
M15	0.00	0.977	0.656	1.883	0.405	Sum	9.590E+00
						CS-137	3.299E-01
						K-40	7.454E+00
						RA-226	8.893E-01
						TH-232	7.547E-01
						U-235	1.621E-01
M16	0.00	1.609	0.405	3.557	0.342	Sum	9.165E+00
						CS-137	3.442E-01
						K-40	6.942E+00
						RA-226	9.384E-01
						TH-232	8.054E-01
						U-235	1.346E-01
N06	0.00	2.352	0.789	3.257	0.428	Sum	1.023E+01
						CS-137	5.136E-01
						K-40	7.236E+00
						RA-226	1.066E+00
						TH-232	1.217E+00
						U-235	2.022E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
N07	0.00	3.750	0.755	4.542	0.421	Sum	1.138E+01
						CS-137	7.088E-01
						K-40	8.072E+00
						RA-226	1.042E+00
						TH-232	1.258E+00
						U-235	3.000E-01
N08	0.00	4.968	0.588	3.177	0.389	Sum	1.085E+01
						CS-137	7.235E-01
						K-40	7.741E+00
						RA-226	1.008E+00
						TH-232	1.183E+00
						U-235	1.935E-01
N09	2.00	5.543	0.656	3.691	0.405	Sum	1.161E+01
						CS-137	7.310E-01
						K-40	8.111E+00
						RA-226	1.251E+00
						TH-232	1.338E+00
						U-235	1.776E-01
N10	1.00	4.753	0.683	4.624	0.408	Sum	1.133E+01
						CS-137	6.207E-01
						K-40	7.647E+00
						RA-226	1.235E+00
						TH-232	1.349E+00
						U-235	4.822E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
N11	-1.00	2.162	0.483	3.308	0.363	Sum	8.855E+00
						CS-137	7.377E-01
						K-40	6.275E+00
						RA-226	8.083E-01
						TH-232	8.083E-01
						U-235	2.259E-01
N12	0.00	1.836	0.462	2.994	0.358	Sum	8.338E+00
						CS-137	4.760E-01
						K-40	6.012E+00
						RA-226	7.954E-01
						TH-232	8.350E-01
						U-235	2.194E-01
N13	0.00	2.289	0.512	2.118	0.368	Sum	7.305E+00
						CS-137	4.550E-01
						K-40	5.246E+00
						RA-226	7.436E-01
						TH-232	7.190E-01
						U-235	1.414E-01
N14	-1.00	2.092	0.351	2.357	0.325	Sum	8.286E+00
						CS-137	4.432E-01
						K-40	6.027E+00
						RA-226	7.383E-01
						TH-232	9.062E-01
						U-235	1.715E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
N15	-1.00	3.046	0.511	3.506	0.370	Sum	7.616E+00
						CS-137	3.725E-01
						K-40	5.477E+00
						RA-226	7.639E-01
						TH-232	8.366E-01
						U-235	1.662E-01
N16	0.00	1.268	0.425	3.562	0.349	Sum	8.516E+00
						CS-137	3.688E-01
						K-40	6.172E+00
						RA-226	9.131E-01
						TH-232	8.850E-01
						U-235	1.774E-01
N17	1.00	2.140	0.479	2.281	0.361	Sum	8.643E+00
						CS-137	3.096E-01
						K-40	6.341E+00
						RA-226	9.751E-01
						TH-232	8.518E-01
						U-235	1.651E-01
O08	2.00	0.886	0.942	4.323	0.436	Sum	1.181E+01
						CS-137	4.977E-01
						K-40	8.863E+00
						RA-226	1.092E+00
						TH-232	1.135E+00
						U-235	2.204E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
O09	2.00	1.719	0.860	4.050	0.423	Sum	1.168E+01
						CS-137	4.472E-01
						K-40	8.625E+00
						RA-226	1.190E+00
						TH-232	1.189E+00
						U-235	2.281E-01
O10	1.00	1.482	0.900	4.305	0.426	Sum	1.177E+01
						CS-137	6.335E-01
						K-40	8.702E+00
						RA-226	1.032E+00
						TH-232	1.214E+00
						U-235	1.915E-01
O11	2.00	2.354	0.690	2.994	0.399	Sum	1.044E+01
						CS-137	6.298E-01
						K-40	7.652E+00
						RA-226	8.517E-01
						TH-232	9.032E-01
						U-235	3.995E-01
O12	1.00	2.405	0.787	4.191	0.408	Sum	9.996E+00
						CS-137	5.127E-01
						K-40	7.479E+00
						RA-226	7.947E-01
						TH-232	1.009E+00
						U-235	2.004E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
O13	1.00	2.171	0.710	3.824	0.392	Sum	8.282E+00
						CS-137	4.420E-01
						K-40	6.212E+00
						RA-226	7.277E-01
						TH-232	7.574E-01
						U-235	1.428E-01
O14	2.00	0.507	0.539	3.280	0.362	Sum	7.169E+00
						CS-137	4.955E-01
						K-40	4.935E+00
						RA-226	7.939E-01
						TH-232	7.305E-01
						U-235	2.144E-01
O15	1.00	1.242	0.406	2.249	0.330	Sum	8.920E+00
						CS-137	6.839E-01
						K-40	6.375E+00
						RA-226	8.636E-01
						TH-232	8.353E-01
						U-235	1.623E-01
O16	2.00	3.636	0.754	4.583	0.405	Sum	7.922E+00
						CS-137	3.554E-01
						K-40	5.836E+00
						RA-226	8.492E-01
						TH-232	7.633E-01
						U-235	1.179E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
O17	1.00	1.653	0.611	3.265	0.375	Sum	9.675E+00
						CS-137	3.965E-01
						K-40	7.076E+00
						RA-226	8.598E-01
						TH-232	8.653E-01
						U-235	4.774E-01
P09	2.00	3.550	0.794	4.007	0.431	Sum	1.136E+01
						CS-137	3.638E-01
						K-40	8.297E+00
						RA-226	1.204E+00
						TH-232	1.311E+00
						U-235	1.880E-01
P10	1.00	6.301	0.746	3.927	0.423	Sum	1.146E+01
						CS-137	5.031E-01
						K-40	7.989E+00
						RA-226	1.301E+00
						TH-232	1.187E+00
						U-235	4.776E-01
P11	0.00	2.906	0.650	3.132	0.401	Sum	1.188E+01
						CS-137	4.659E-01
						K-40	8.853E+00
						RA-226	1.134E+00
						TH-232	1.277E+00
						U-235	1.535E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
P12	2.00	1.997	0.670	3.979	0.404	Sum	1.118E+01
						CS-137	4.780E-01
						K-40	7.940E+00
						RA-226	1.204E+00
						TH-232	1.315E+00
						U-235	2.400E-01
P13	0.00	2.750	0.615	2.710	0.394	Sum	1.014E+01
						CS-137	4.006E-01
						K-40	7.366E+00
						RA-226	1.090E+00
						TH-232	1.126E+00
						U-235	1.569E-01
P14	0.00	1.972	0.397	3.252	0.343	Sum	7.338E+00
						CS-137	3.814E-01
						K-40	5.282E+00
						RA-226	6.738E-01
						TH-232	8.635E-01
						U-235	1.369E-01
P15	-1.00	1.218	0.350	2.242	0.326	Sum	6.210E+00
						CS-137	5.469E-01
						K-40	3.902E+00
						RA-226	7.643E-01
						TH-232	8.378E-01
						U-235	1.592E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
P16	0.00	0.615	0.413	1.738	0.346	Sum	8.537E+00
						CS-137	3.703E-01
						K-40	6.459E+00
						RA-226	8.805E-01
						TH-232	6.922E-01
						U-235	1.354E-01
P17	-1.00	1.167	0.394	1.936	0.354	Sum	8.181E+00
						CS-137	3.731E-01
						K-40	6.161E+00
						RA-226	7.591E-01
						TH-232	7.576E-01
						U-235	1.305E-01
Q10	1.00	1.753	0.588	3.371	0.386	Sum	1.119E+01
						CS-137	2.437E-01
						K-40	8.596E+00
						RA-226	1.081E+00
						TH-232	1.098E+00
						U-235	1.755E-01
Q11	1.00	4.536	0.761	5.356	0.424	Sum	1.108E+01
						CS-137	3.726E-01
						K-40	8.164E+00
						RA-226	1.052E+00
						TH-232	1.319E+00
						U-235	1.771E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Q12	0.00	2.790	0.562	3.283	0.384	Sum	1.132E+01
						CS-137	4.185E-01
						K-40	8.386E+00
						RA-226	1.040E+00
						TH-232	1.308E+00
						U-235	1.704E-01
Q13	0.00	1.535	0.515	3.053	0.373	Sum	8.917E+00
						CS-137	3.435E-01
						K-40	6.309E+00
						RA-226	1.142E+00
						TH-232	9.667E-01
						U-235	1.555E-01
Q14	0.00	4.099	0.635	3.626	0.398	Sum	1.005E+01
						CS-137	4.818E-01
						K-40	7.332E+00
						RA-226	9.918E-01
						TH-232	1.049E+00
						U-235	1.981E-01
Q15	-1.00	3.583	0.451	3.841	0.356	Sum	8.269E+00
						CS-137	4.391E-01
						K-40	6.050E+00
						RA-226	8.683E-01
						TH-232	7.164E-01
						U-235	1.950E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
Q16	-1.00	1.978	0.569	3.357	0.384	Sum	9.489E+00
						CS-137	4.812E-01
						K-40	7.037E+00
						RA-226	7.806E-01
						TH-232	1.032E+00
						U-235	1.580E-01
Q17	0.00	2.455	0.494	3.435	0.370	Sum	8.586E+00
						CS-137	3.311E-01
						K-40	6.167E+00
						RA-226	9.703E-01
						TH-232	9.569E-01
						U-235	1.610E-01
Q18	-2.00	2.387	0.437	3.050	0.349	Sum	8.372E+00
						CS-137	3.212E-01
						K-40	6.216E+00
						RA-226	8.146E-01
						TH-232	8.377E-01
						U-235	1.822E-01
R11	0.00	3.999	0.805	4.893	0.432	Sum	1.218E+01
						CS-137	3.989E-01
						K-40	9.133E+00
						RA-226	1.205E+00
						TH-232	1.318E+00
						U-235	1.256E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R12	0.00	1.850	0.532	3.237	0.379	Sum	1.089E+01
						CS-137	3.682E-01
						K-40	8.112E+00
						RA-226	1.214E+00
						TH-232	1.053E+00
						U-235	1.401E-01
R13	0.00	3.338	0.611	6.108	0.396	Sum	1.129E+01
						CS-137	7.916E-01
						K-40	7.829E+00
						RA-226	1.253E+00
						TH-232	1.190E+00
						U-235	2.292E-01
R14	0.00	3.563	0.598	4.181	0.388	Sum	9.653E+00
						CS-137	5.089E-01
						K-40	6.600E+00
						RA-226	1.064E+00
						TH-232	1.152E+00
						U-235	3.285E-01
R15	0.00	2.273	0.508	3.248	0.372	Sum	9.592E+00
						CS-137	3.667E-01
						K-40	6.949E+00
						RA-226	9.556E-01
						TH-232	1.010E+00
						U-235	3.102E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R16	-2.00	1.443	0.581	3.164	0.387	Sum	9.213E+00
						CS-137	4.689E-01
						K-40	6.781E+00
						RA-226	8.505E-01
						TH-232	9.585E-01
						U-235	1.544E-01
R17	0.00	1.923	0.430	2.823	0.353	Sum	8.504E+00
						CS-137	4.512E-01
						K-40	6.231E+00
						RA-226	8.421E-01
						TH-232	8.168E-01
						U-235	1.630E-01
R18	-1.00	1.717	0.432	1.966	0.353	Sum	8.430E+00
						CS-137	3.841E-01
						K-40	6.330E+00
						RA-226	7.199E-01
						TH-232	8.228E-01
						U-235	1.728E-01
S13	1.00	3.288	0.542	2.905	0.395	Sum	8.584E+00
						CS-137	3.365E-01
						K-40	6.118E+00
						RA-226	9.309E-01
						TH-232	1.034E+00
						U-235	1.646E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S14	0.00	2.114	0.550	2.375	0.397	Sum	9.543E+00
						CS-137	3.498E-01
						K-40	6.504E+00
						RA-226	9.101E-01
						TH-232	1.105E+00
						U-235	6.737E-01
S15	1.00	2.994	0.533	2.351	0.393	Sum	9.806E+00
						CS-137	2.950E-01
						K-40	7.509E+00
						RA-226	8.906E-01
						TH-232	9.678E-01
						U-235	1.434E-01
S16	0.00	3.608	0.436	2.937	0.366	Sum	8.584E+00
						CS-137	5.699E-01
						K-40	6.007E+00
						RA-226	7.771E-01
						TH-232	9.509E-01
						U-235	2.788E-01
S17	0.00	2.319	0.356	2.087	0.339	Sum	7.347E+00
						CS-137	3.711E-01
						K-40	5.532E+00
						RA-226	7.392E-01
						TH-232	5.788E-01
						U-235	1.260E-01

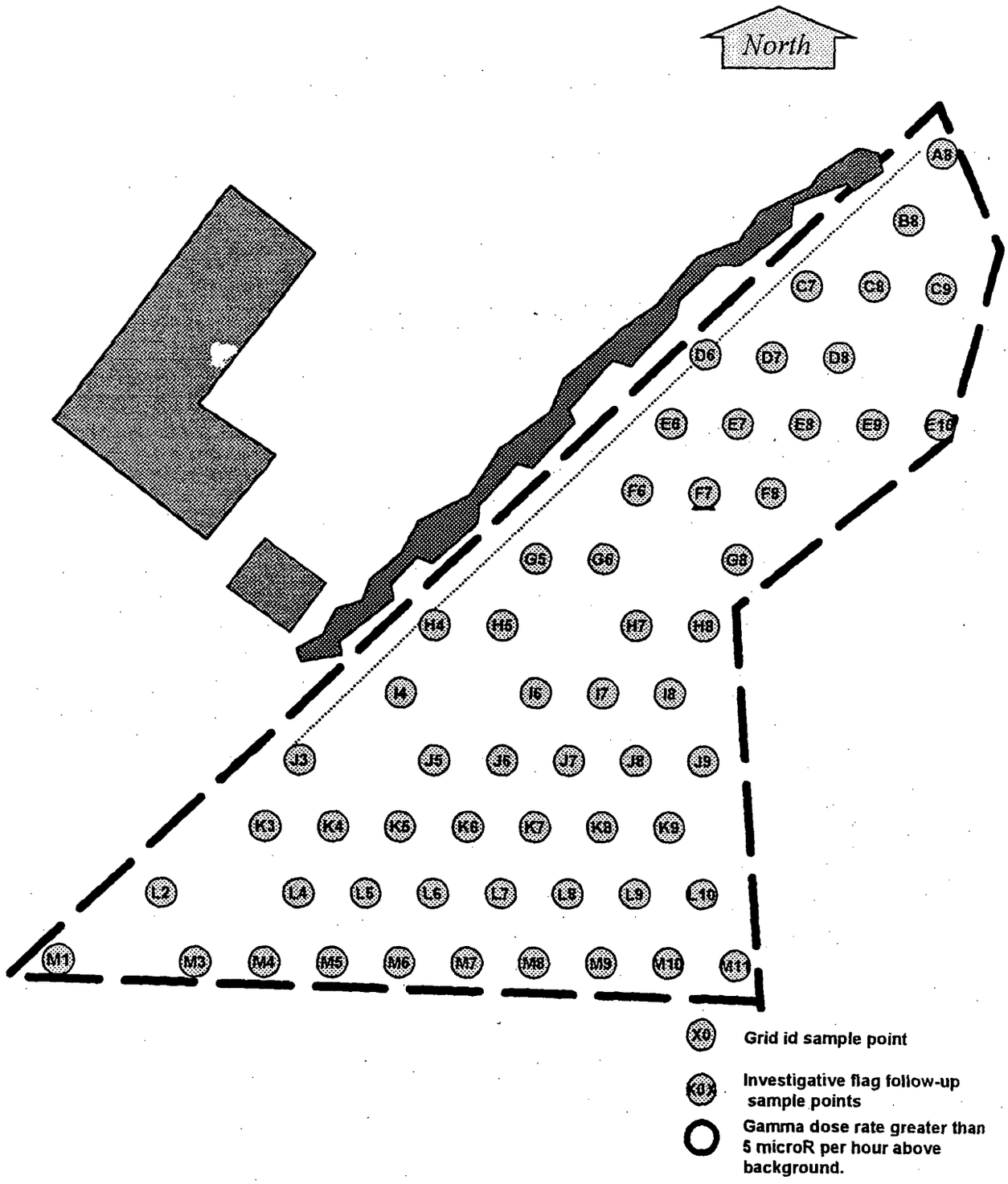
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
S18	0.00	1.889	0.440	2.750	0.366	Sum	7.151E+00
						CS-137	2.973E-01
						K-40	5.379E+00
						RA-226	6.468E-01
						TH-232	6.924E-01
						U-235	1.360E-01
T14	-1.00	0.483	0.653	3.085	0.420	Sum	1.031E+01
						CS-137	3.256E-01
						K-40	7.873E+00
						RA-226	7.615E-01
						TH-232	1.200E+00
						U-235	1.504E-01
T15	-1.00	1.978	0.418	2.458	0.360	Sum	7.753E+00
						CS-137	3.929E-01
						K-40	5.537E+00
						RA-226	8.182E-01
						TH-232	9.257E-01
						U-235	7.920E-02
T16	0.00	1.641	0.427	2.607	0.363	Sum	9.650E+00
						CS-137	4.005E-01
						K-40	7.451E+00
						RA-226	7.029E-01
						TH-232	9.247E-01
						U-235	1.710E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
T17	0.00	2.148	0.382	1.497	0.351	Sum	9.005E+00
						CS-137	3.577E-01
						K-40	6.914E+00
						RA-226	7.811E-01
						TH-232	8.122E-01
						U-235	1.395E-01
T18	-2.00	2.536	0.390	2.479	0.354	Sum	8.481E+00
						CS-137	3.569E-01
						K-40	6.354E+00
						RA-226	8.281E-01
						TH-232	7.949E-01
						U-235	1.475E-01
U15	0.00	2.519	0.532	2.551	0.393	Sum	8.126E+00
						CS-137	2.730E-01
						K-40	5.908E+00
						RA-226	7.681E-01
						TH-232	1.010E+00
						U-235	1.665E-01
U16	-1.00	1.887	0.555	1.893	0.396	Sum	1.104E+01
						CS-137	4.789E-01
						K-40	8.440E+00
						RA-226	9.213E-01
						TH-232	9.544E-01
						U-235	2.459E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
U17	-1.00	2.526	0.534	2.861	0.389	Sum	6.995E+00
						CS-137	3.945E-01
						K-40	5.246E+00
						RA-226	6.581E-01
						TH-232	6.110E-01
						U-235	8.579E-02

		Alpha		Beta		Gamma (Sum)
Minimum	-2	0.067	0.260	0.039	0.276	9.654E-01
Maximum	3	7.346	1.482	6.542	0.572	1.593E+01
Average	0	1.936	0.532	2.625	0.372	7.507E+00

Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone L



08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION	SOIL
	ZONE: 2 SUBZONE: L

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
M11 - J05	SCHAEPPI	11-Jun-97	00926	723416							10	N/A
A08 - J03	SCHAEPPI	12-Jun-97	00926	723416							10	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION	SOIL
	ZONE: 2 SUBZONE: L

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
M11 - J05	1407	.01 - .38	
A08 - J03	1410	.01 - .36	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION	SOIL	
	ZONE: 2	SUBZONE: L

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
A08	-2.00	1.187	0.324	1.183	0.411	Sum	5.388E+00
						CS-137	3.754E-01
						K-40	3.833E+00
						RA-226	4.404E-01
						TH-232	4.922E-01
						U-235	2.469E-01
B08	-1.00	4.187	0.472	3.862	0.478	Sum	9.498E+00
						CS-137	5.661E-01
						K-40	6.874E+00
						RA-226	9.871E-01
						TH-232	8.769E-01
						U-235	1.939E-01
C07	1.00	2.251	0.530	3.351	0.506	Sum	1.082E+01
						CS-137	4.015E-01
						K-40	8.211E+00
						RA-226	1.042E+00
						TH-232	9.729E-01
						U-235	1.877E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
C08	1.00	1.940	0.529	4.065	0.503	Sum	1.120E+01
						CS-137	1.033E+00
						K-40	8.205E+00
						RA-226	8.329E-01
						TH-232	9.424E-01
						U-235	1.908E-01
C09	0.00	3.753	0.486	4.343	0.488	Sum	7.219E+00
						CS-137	2.706E-01
						K-40	5.000E+00
						RA-226	8.611E-01
						TH-232	9.168E-01
						U-235	1.707E-01
D07	2.00	2.476	0.675	3.153	0.559	Sum	1.341E+01
						CS-137	8.445E-01
						K-40	1.006E+01
						RA-226	1.156E+00
						TH-232	1.125E+00
						U-235	2.292E-01
D08	0.00	1.270	0.346	1.901	0.422	Sum	6.659E+00
						CS-137	3.917E-01
						K-40	4.744E+00
						RA-226	6.562E-01
						TH-232	7.170E-01
						U-235	1.500E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D09	0.00	1.336	0.315	2.433	0.408	Sum	9.630E+00
						CS-137	3.614E-01
						K-40	7.580E+00
						RA-226	7.215E-01
						TH-232	8.013E-01
						U-235	1.661E-01
E06	2.00	1.647	0.388	2.554	0.440	Sum	1.329E+01
						CS-137	5.392E-01
						K-40	1.014E+01
						RA-226	1.222E+00
						TH-232	1.180E+00
						U-235	2.069E-01
E07	2.00	1.983	0.467	3.089	0.479	Sum	1.378E+01
						CS-137	6.329E-01
						K-40	1.060E+01
						RA-226	1.094E+00
						TH-232	1.264E+00
						U-235	1.901E-01
E08	1.00	3.530	0.494	2.996	0.489	Sum	1.094E+01
						CS-137	3.581E-01
						K-40	8.383E+00
						RA-226	8.468E-01
						TH-232	1.127E+00
						U-235	2.236E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E09	0.00	2.580	0.361	4.032	0.430	Sum	8.329E+00
						CS-137	4.349E-01
						K-40	5.892E+00
						RA-226	8.883E-01
						TH-232	9.647E-01
						U-235	1.495E-01
E10	-2.00	0.785	0.254	1.008	0.372	Sum	3.422E+00
						CS-137	2.186E-01
						K-40	1.960E+00
						RA-226	6.203E-01
						TH-232	5.499E-01
						U-235	7.294E-02
F06	2.00	1.639	0.531	5.069	0.505	Sum	1.252E+01
						CS-137	9.184E-01
						K-40	8.952E+00
						RA-226	1.012E+00
						TH-232	1.401E+00
						U-235	2.354E-01
F07	1.00	1.619	0.524	3.991	0.504	Sum	1.077E+01
						CS-137	7.189E-01
						K-40	8.201E+00
						RA-226	8.451E-01
						TH-232	8.806E-01
						U-235	1.280E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F08	-1.00	3.307	0.350	1.356	0.424	Sum	7.569E+00
						CS-137	1.966E-01
						K-40	5.542E+00
						RA-226	7.628E-01
						TH-232	9.230E-01
						U-235	1.441E-01
G05	2.00	2.090	0.570	4.813	0.522	Sum	1.174E+01
						CS-137	7.215E-01
						K-40	8.704E+00
						RA-226	1.048E+00
						TH-232	1.071E+00
						U-235	1.973E-01
G06	0.00	1.076	0.429	2.154	0.462	Sum	9.968E+00
						CS-137	3.945E-01
						K-40	7.761E+00
						RA-226	8.585E-01
						TH-232	7.887E-01
						U-235	1.651E-01
G08	-1.00	3.896	0.348	2.386	0.423	Sum	7.466E+00
						CS-137	3.148E-01
						K-40	5.520E+00
						RA-226	6.772E-01
						TH-232	8.362E-01
						U-235	1.178E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H04	1.00	3.074	0.430	2.549	0.465	Sum	9.455E+00
						CS-137	5.449E-01
						K-40	6.840E+00
						RA-226	1.010E+00
						TH-232	9.256E-01
						U-235	1.342E-01
H05	1.00	2.775	0.513	4.038	0.500	Sum	1.059E+01
						CS-137	5.449E-01
						K-40	7.874E+00
						RA-226	1.009E+00
						TH-232	1.016E+00
						U-235	1.503E-01
H07	-1.00	1.271	0.507	2.324	0.498	Sum	1.210E+01
						CS-137	4.637E-01
						K-40	9.308E+00
						RA-226	1.057E+00
						TH-232	1.068E+00
						U-235	2.028E-01
H08	0.00	2.696	0.411	2.780	0.454	Sum	8.740E+00
						CS-137	4.224E-01
						K-40	6.405E+00
						RA-226	8.380E-01
						TH-232	9.237E-01
						U-235	1.508E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I04	0.00	2.777	0.423	2.298	0.461	Sum	8.524E+00
						CS-137	4.936E-01
						K-40	6.098E+00
						RA-226	8.860E-01
						TH-232	8.671E-01
						U-235	1.792E-01
I06	0.00	2.272	0.420	2.658	0.458	Sum	9.320E+00
						CS-137	3.113E-01
						K-40	6.895E+00
						RA-226	9.657E-01
						TH-232	1.019E+00
						U-235	1.288E-01
I07	1.00	0.832	0.431	2.978	0.461	Sum	9.105E+00
						CS-137	3.805E-01
						K-40	6.798E+00
						RA-226	9.597E-01
						TH-232	8.018E-01
						U-235	1.654E-01
I08	0.00	0.830	0.430	3.210	0.462	Sum	9.628E+00
						CS-137	3.220E-01
						K-40	7.185E+00
						RA-226	9.357E-01
						TH-232	9.990E-01
						U-235	1.859E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J03	2.00	1.226	0.635	3.428	0.545	Sum	9.025E+00
						CS-137	4.062E-01
						K-40	6.661E+00
						RA-226	8.866E-01
						TH-232	9.507E-01
						U-235	1.201E-01
J05	1.00	2.779	0.466	3.476	0.433	Sum	1.028E+01
						CS-137	4.368E-01
						K-40	7.485E+00
						RA-226	1.013E+00
						TH-232	1.115E+00
						U-235	2.260E-01
J06	0.00	2.061	0.461	4.136	0.425	Sum	1.111E+01
						CS-137	6.600E-01
						K-40	7.791E+00
						RA-226	1.007E+00
						TH-232	1.423E+00
						U-235	2.301E-01
J07	0.00	1.555	0.447	4.638	0.424	Sum	1.112E+01
						CS-137	5.505E-01
						K-40	7.948E+00
						RA-226	1.150E+00
						TH-232	1.001E+00
						U-235	4.682E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J08	2.00	2.654	0.486	4.364	0.440	Sum	9.276E+00
						CS-137	4.304E-01
						K-40	6.303E+00
						RA-226	1.033E+00
						TH-232	1.169E+00
						U-235	3.408E-01
J09	1.00	2.210	0.445	3.441	0.420	Sum	1.035E+01
						CS-137	5.906E-01
						K-40	7.277E+00
						RA-226	1.052E+00
						TH-232	1.155E+00
						U-235	2.726E-01
K03	-2.00	1.155	0.332	2.416	0.372	Sum	4.708E+00
						CS-137	4.657E-01
						K-40	3.058E+00
						RA-226	6.020E-01
						TH-232	4.484E-01
						U-235	1.336E-01
K04	-1.00	3.661	0.461	3.522	0.429	Sum	9.543E+00
						CS-137	3.483E-01
						K-40	7.159E+00
						RA-226	9.862E-01
						TH-232	9.333E-01
						U-235	1.165E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K05	2.00	0.836	0.421	2.801	0.410	Sum	1.069E+01
						CS-137	5.301E-01
						K-40	7.845E+00
						RA-226	1.089E+00
						TH-232	9.441E-01
						U-235	2.792E-01
K06	1.00	3.033	0.407	3.889	0.407	Sum	1.068E+01
						CS-137	4.728E-01
						K-40	8.143E+00
						RA-226	9.028E-01
						TH-232	1.036E+00
						U-235	1.303E-01
K07	0.00	2.234	0.450	3.934	0.426	Sum	8.695E+00
						CS-137	7.702E-01
						K-40	5.882E+00
						RA-226	9.948E-01
						TH-232	8.969E-01
						U-235	1.514E-01
K08	0.00	1.254	0.505	4.791	0.445	Sum	9.360E+00
						CS-137	5.058E-01
						K-40	6.734E+00
						RA-226	9.649E-01
						TH-232	1.074E+00
						U-235	8.162E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K09	2.00	3.284	0.734	4.835	0.524	Sum	1.044E+01
						CS-137	6.670E-01
						K-40	7.648E+00
						RA-226	7.988E-01
						TH-232	1.105E+00
						U-235	2.177E-01
L02	0.00	1.603	0.403	4.428	0.405	Sum	8.250E+00
						CS-137	1.227E+00
						K-40	5.198E+00
						RA-226	8.397E-01
						TH-232	8.106E-01
						U-235	1.749E-01
L04	2.00	4.187	0.702	5.314	0.510	Sum	1.201E+01
						CS-137	6.703E-01
						K-40	8.717E+00
						RA-226	1.245E+00
						TH-232	1.187E+00
						U-235	1.887E-01
L05	1.00	4.515	0.649	5.494	0.495	Sum	1.247E+01
						CS-137	5.787E-01
						K-40	9.383E+00
						RA-226	1.017E+00
						TH-232	1.177E+00
						U-235	3.105E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L06	1.00	4.501	0.604	3.434	0.479	Sum	1.108E+01
						CS-137	5.338E-01
						K-40	8.013E+00
						RA-226	1.191E+00
						TH-232	1.197E+00
						U-235	1.499E-01
L07	0.00	4.822	0.693	4.332	0.507	Sum	1.142E+01
						CS-137	5.932E-01
						K-40	8.240E+00
						RA-226	1.207E+00
						TH-232	1.210E+00
						U-235	1.652E-01
L08	0.00	0.979	0.657	5.520	0.497	Sum	1.046E+01
						CS-137	6.852E-01
						K-40	7.506E+00
						RA-226	1.047E+00
						TH-232	1.027E+00
						U-235	1.989E-01
L09	1.00	1.368	0.551	4.169	0.460	Sum	1.070E+01
						CS-137	6.743E-01
						K-40	7.870E+00
						RA-226	1.056E+00
						TH-232	9.277E-01
						U-235	1.742E-01

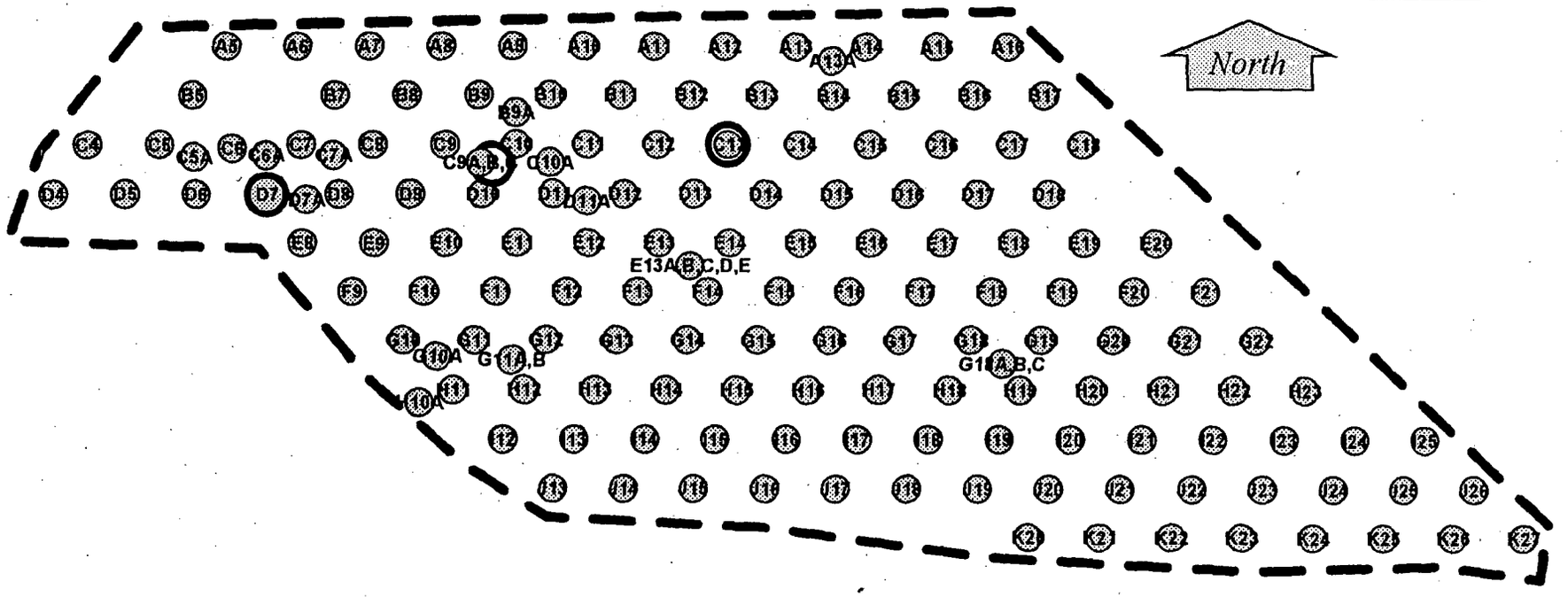
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
L10	1.00	3.585	0.722	6.844	0.520	Sum	1.243E+01
						CS-137	7.212E-01
						K-40	8.646E+00
						RA-226	1.091E+00
						TH-232	1.469E+00
						U-235	5.005E-01
M01	0.00	0.665	0.669	4.749	0.505	Sum	1.223E+01
						CS-137	8.044E-01
						K-40	8.899E+00
						RA-226	1.086E+00
						TH-232	1.250E+00
						U-235	1.883E-01
M03	0.00	3.552	0.477	4.169	0.436	Sum	9.532E+00
						CS-137	1.546E+00
						K-40	6.030E+00
						RA-226	7.801E-01
						TH-232	9.796E-01
						U-235	1.961E-01
M04	0.00	2.673	0.384	2.509	0.397	Sum	6.418E+00
						CS-137	4.571E-01
						K-40	4.286E+00
						RA-226	8.299E-01
						TH-232	7.252E-01
						U-235	1.197E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M05	2.00	2.438	0.701	4.931	0.515	Sum	1.254E+01
						CS-137	6.997E-01
						K-40	9.223E+00
						RA-226	1.194E+00
						TH-232	1.169E+00
						U-235	2.528E-01
M06	2.00	3.456	0.580	3.233	0.473	Sum	1.229E+01
						CS-137	4.022E-01
						K-40	9.483E+00
						RA-226	1.090E+00
						TH-232	1.062E+00
						U-235	2.529E-01
M07	1.00	3.449	0.631	3.193	0.492	Sum	1.068E+01
						CS-137	4.363E-01
						K-40	7.548E+00
						RA-226	1.208E+00
						TH-232	1.224E+00
						U-235	2.600E-01
M08	1.00	1.148	0.770	7.651	0.533	Sum	1.259E+01
						CS-137	1.034E+00
						K-40	8.748E+00
						RA-226	1.343E+00
						TH-232	1.341E+00
						U-235	1.277E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
M09	2.00	1.341	0.540	5.098	0.459	Sum	1.233E+01
						CS-137	9.455E-01
						K-40	9.075E+00
						RA-226	1.134E+00
						TH-232	1.057E+00
						U-235	1.210E-01
M10	0.00	3.679	0.570	4.172	0.470	Sum	9.527E+00
						CS-137	4.688E-01
						K-40	6.753E+00
						RA-226	1.101E+00
						TH-232	1.064E+00
						U-235	1.407E-01
M11	0.00	2.952	0.594	4.189	0.481	Sum	1.047E+01
						CS-137	5.523E-01
						K-40	7.614E+00
						RA-226	1.154E+00
						TH-232	9.453E-01
						U-235	2.005E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
		Alpha		Beta			Gamma (Sum)
Minimum	-2	0.665	0.254	1.008	0.372		3.422E+00
Maximum	2	4.822	0.770	7.651	0.559		1.378E+01
Average	1	2.378	0.502	3.684	0.464		1.007E+01

Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone M



Grid id sample point

Investigative flag follow-up sample points

Gamma dose rate greater than 5 microR per hour above background.

08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION	SOIL	
	ZONE: 2	SUBZONE: M

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
A04 - C09	EAVES	20-Jun-97	00892	723412							10	N/A
C10 - E19	EAVES	23-Jun-97	00914	723415							10	N/A
F08 - H14	EAVES	24-Jun-97	00914	723415							10	N/A
C05A - I23	EAVES	25-Jun-97	00914	723415							10	N/A
J12 - K26	EAVES	26-Jun-97	00914	723415							10	N/A
E13A - I24	EAVES	09-Jul-97	00916	723414							10	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION	SOIL
	ZONE: 2 SUBZONE: M

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
A04 - C09	1431	.01 - .40	
C10 - E19	1434	.01 - .48	
F08 - H14	1437	.01 - .39	
C05A - I23	1439	.01 - .38	
J12 - K26	1445	.01 - .26	
E13A - I24	1464	.01 - .19	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 2 SUBZONE: M

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
A04	1.00	1.638	0.447	2.903	0.456	Sum	1.195E+01
						CS-137	4.507E-01
						K-40	8.867E+00
						RA-226	1.214E+00
						TH-232	1.215E+00
						U-235	2.075E-01
A05	0.00	2.170	0.363	3.111	0.417	Sum	8.161E+00
						CS-137	6.090E-01
						K-40	6.034E+00
						RA-226	6.935E-01
						TH-232	6.865E-01
						U-235	1.384E-01
A06	1.00	2.285	0.538	4.916	0.493	Sum	1.064E+01
						CS-137	8.387E-01
						K-40	7.834E+00
						RA-226	9.026E-01
						TH-232	8.959E-01
						U-235	1.712E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
A07	0.00	3.967	0.555	5.073	0.499	Sum	1.124E+01
						CS-137	4.032E-01
						K-40	8.267E+00
						RA-226	1.242E+00
						TH-232	1.152E+00
						U-235	1.793E-01
A08	0.00	3.643	0.510	3.504	0.482	Sum	1.175E+01
						CS-137	6.409E-01
						K-40	8.486E+00
						RA-226	1.111E+00
						TH-232	1.277E+00
						U-235	2.331E-01
A09	0.00	4.425	0.533	2.950	0.491	Sum	1.069E+01
						CS-137	2.441E-01
						K-40	8.111E+00
						RA-226	1.030E+00
						TH-232	1.126E+00
						U-235	1.747E-01
A10	1.00	1.740	0.564	4.832	0.502	Sum	1.160E+01
						CS-137	4.432E-01
						K-40	8.895E+00
						RA-226	1.010E+00
						TH-232	1.000E+00
						U-235	2.540E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
A11	0.00	3.414	0.570	5.130	0.505	Sum	1.114E+01
						CS-137	5.166E-01
						K-40	8.183E+00
						RA-226	1.074E+00
						TH-232	1.169E+00
						U-235	2.021E-01
A12	2.00	3.920	0.472	3.813	0.466	Sum	1.103E+01
						CS-137	3.411E-01
						K-40	8.208E+00
						RA-226	1.036E+00
						TH-232	1.302E+00
						U-235	1.406E-01
A13	1.00	1.864	0.604	5.066	0.517	Sum	1.304E+01
						CS-137	3.140E-01
						K-40	9.983E+00
						RA-226	1.255E+00
						TH-232	1.284E+00
						U-235	2.009E-01
A13A	3.00	3.585	0.555	3.851	0.372	Sum	1.249E+01
						CS-137	5.137E-01
						K-40	9.241E+00
						RA-226	1.235E+00
						TH-232	1.273E+00
						U-235	2.257E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
A14	0.00	2.368	0.596	4.933	0.384	Sum	1.102E+01
						CS-137	6.765E-01
						K-40	7.932E+00
						RA-226	1.095E+00
						TH-232	1.058E+00
						U-235	2.596E-01
A15	2.00	3.360	0.563	4.269	0.375	Sum	9.641E+00
						CS-137	4.046E-01
						K-40	6.873E+00
						RA-226	9.716E-01
						TH-232	1.162E+00
						U-235	2.295E-01
B04	0.00	1.226	0.617	4.190	0.389	Sum	1.060E+01
						CS-137	6.171E-01
						K-40	7.970E+00
						RA-226	8.085E-01
						TH-232	9.692E-01
						U-235	2.379E-01
B06	1.00	0.571	0.575	4.157	0.379	Sum	9.815E+00
						CS-137	3.463E-01
						K-40	7.218E+00
						RA-226	1.104E+00
						TH-232	9.045E-01
						U-235	2.423E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B07	1.00	2.260	0.569	3.575	0.376	Sum	1.122E+01
						CS-137	4.580E-01
						K-40	8.307E+00
						RA-226	1.125E+00
						TH-232	1.126E+00
						U-235	2.055E-01
B08	0.00	2.591	0.522	3.058	0.362	Sum	1.132E+01
						CS-137	4.144E-01
						K-40	8.524E+00
						RA-226	9.972E-01
						TH-232	1.210E+00
						U-235	1.753E-01
B09	2.00	2.804	0.434	3.130	0.337	Sum	7.040E+00
						CS-137	1.712E-01
						K-40	5.186E+00
						RA-226	6.707E-01
						TH-232	8.575E-01
						U-235	1.546E-01
B09A	3.00	1.482	0.331	2.158	0.300	Sum	1.271E+01
						CS-137	1.950E-01
						K-40	7.651E+00
						RA-226	2.185E+00
						TH-232	2.287E+00
						U-235	3.967E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B10	1.00	3.230	0.722	5.611	0.416	Sum	1.276E+01
						CS-137	4.068E-01
						K-40	9.756E+00
						RA-226	1.000E+00
						TH-232	1.407E+00
						U-235	1.885E-01
B11	0.00	0.557	0.560	3.866	0.374	Sum	1.210E+01
						CS-137	4.070E-01
						K-40	9.088E+00
						RA-226	1.245E+00
						TH-232	1.206E+00
						U-235	1.526E-01
B12	1.00	2.075	0.597	5.499	0.384	Sum	1.322E+01
						CS-137	5.215E-01
						K-40	9.934E+00
						RA-226	1.135E+00
						TH-232	1.303E+00
						U-235	3.250E-01
B13	2.00	1.993	0.573	4.563	0.380	Sum	1.223E+01
						CS-137	3.950E-01
						K-40	9.317E+00
						RA-226	1.073E+00
						TH-232	1.206E+00
						U-235	2.408E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
B14	1.00	3.889	0.522	4.133	0.363	Sum	1.064E+01
						CS-137	5.868E-01
						K-40	7.611E+00
						RA-226	1.056E+00
						TH-232	1.219E+00
						U-235	1.677E-01
B15	0.00	1.218	0.490	4.100	0.353	Sum	1.000E+01
						CS-137	5.739E-01
						K-40	7.450E+00
						RA-226	9.525E-01
						TH-232	8.986E-01
						U-235	1.272E-01
B16	0.00	3.190	0.535	3.869	0.367	Sum	9.886E+00
						CS-137	6.162E-01
						K-40	6.947E+00
						RA-226	1.123E+00
						TH-232	1.028E+00
						U-235	1.718E-01
C03	2.00	1.020	0.513	3.038	0.359	Sum	1.180E+01
						CS-137	6.076E-01
						K-40	8.797E+00
						RA-226	1.074E+00
						TH-232	1.074E+00
						U-235	2.460E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
C04	2.00	2.522	0.634	2.761	0.395	Sum	8.557E+00
						K-40	6.687E+00
						RA-226	7.885E-01
						TH-232	8.654E-01
						U-235	2.165E-01
C05A	5.00	1.644	0.448	4.649	0.458	Sum	1.163E+01
						CS-137	3.556E-01
						K-40	8.591E+00
						RA-226	1.326E+00
						TH-232	1.182E+00
						U-235	1.791E-01
C06	1.00	1.977	0.568	3.407	0.375	Sum	1.295E+01
						CS-137	2.761E-01
						K-40	1.010E+01
						RA-226	1.138E+00
						TH-232	1.298E+00
						U-235	1.393E-01
C06A	4.00	3.805	0.458	4.487	0.458	Sum	1.228E+01
						CS-137	5.090E-01
						K-40	8.705E+00
						RA-226	1.422E+00
						TH-232	1.359E+00
						U-235	2.835E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
C07	0.00	2.578	0.577	4.230	0.378	Sum	1.220E+01
						CS-137	4.691E-01
						K-40	9.103E+00
						RA-226	1.117E+00
						TH-232	1.299E+00
						U-235	2.163E-01
C07A	5.00	3.138	0.439	4.107	0.452	Sum	1.253E+01
						CS-137	5.395E-01
						K-40	9.272E+00
						RA-226	1.358E+00
						TH-232	1.181E+00
						U-235	1.832E-01
C08	2.00	2.498	0.559	3.460	0.372	Sum	1.174E+01
						CS-137	3.734E-01
						K-40	8.824E+00
						RA-226	1.186E+00
						TH-232	1.120E+00
						U-235	2.357E-01
C09	2.00	3.601	0.659	4.211	0.399	Sum	1.100E+01
						CS-137	2.310E-01
						K-40	8.527E+00
						RA-226	9.950E-01
						TH-232	1.093E+00
						U-235	1.530E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
C09A	4.00	3.096	0.472	3.991	0.467	Sum	1.119E+01
						CS-137	4.035E-01
						K-40	8.130E+00
						RA-226	1.197E+00
						TH-232	1.268E+00
						U-235	1.890E-01
C09B	6.00	1.560	0.425	3.718	0.445	Sum	1.315E+01
						CS-137	4.852E-01
						K-40	9.549E+00
						RA-226	1.327E+00
						TH-232	1.599E+00
						U-235	1.883E-01
C09C	6.00	2.968	0.496	4.335	0.477	Sum	1.161E+01
						CS-137	3.740E-01
						K-40	8.419E+00
						RA-226	1.431E+00
						TH-232	1.184E+00
						U-235	2.045E-01
C10	-1.00	2.008	0.589	3.861	0.365	Sum	6.468E+00
						CS-137	6.053E-01
						K-40	4.222E+00
						RA-226	7.109E-01
						TH-232	7.743E-01
						U-235	1.556E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
C10A	4.00	3.873	0.542	5.541	0.493	Sum	1.204E+01
						CS-137	5.546E-01
						K-40	8.857E+00
						RA-226	1.135E+00
						TH-232	1.357E+00
						U-235	1.343E-01
C11	1.00	2.292	0.974	4.848	0.450	Sum	1.202E+01
						CS-137	3.397E-01
						K-40	9.354E+00
						RA-226	1.089E+00
						TH-232	1.061E+00
						U-235	1.713E-01
C12	3.00	4.183	0.868	4.289	0.430	Sum	1.217E+01
						CS-137	3.905E-01
						K-40	9.154E+00
						RA-226	1.428E+00
						TH-232	1.014E+00
						U-235	1.828E-01
C13	6.00	4.778	0.923	4.403	0.441	Sum	1.236E+01
						CS-137	4.538E-01
						K-40	9.312E+00
						RA-226	1.127E+00
						TH-232	1.256E+00
						U-235	2.134E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
C14	1.00	2.578	0.685	3.807	0.389	Sum	9.312E+00
						CS-137	3.457E-01
						K-40	6.742E+00
						RA-226	1.056E+00
						TH-232	9.672E-01
						U-235	2.013E-01
C15	1.00	1.263	0.632	2.842	0.374	Sum	8.027E+00
						CS-137	4.029E-01
						K-40	5.786E+00
						RA-226	7.704E-01
						TH-232	8.470E-01
						U-235	2.208E-01
C16	1.00	2.075	0.609	3.757	0.369	Sum	7.808E+00
						CS-137	3.590E-01
						K-40	5.540E+00
						RA-226	8.643E-01
						TH-232	7.860E-01
						U-235	2.583E-01
C17	1.00	1.276	0.775	3.431	0.409	Sum	9.842E+00
						CS-137	4.490E-01
						K-40	7.164E+00
						RA-226	1.057E+00
						TH-232	1.017E+00
						U-235	1.552E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D03	1.00	3.364	0.894	7.773	0.434	Sum	8.730E+00
						CS-137	1.087E+00
						K-40	6.210E+00
						RA-226	5.855E-01
						TH-232	7.240E-01
						U-235	1.235E-01
D04	1.00	2.289	0.556	2.497	0.356	Sum	5.216E+00
						CS-137	3.943E-01
						K-40	3.512E+00
						RA-226	5.610E-01
						TH-232	6.826E-01
						U-235	6.630E-02
D05	0.00	3.158	0.655	3.357	0.382	Sum	7.847E+00
						CS-137	5.182E-01
						K-40	5.412E+00
						RA-226	8.688E-01
						TH-232	8.562E-01
						U-235	1.921E-01
D06	-1.00	2.859	0.838	4.900	0.424	Sum	1.304E+01
						CS-137	4.777E-01
						K-40	9.466E+00
						RA-226	1.318E+00
						TH-232	1.518E+00
						U-235	2.622E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D07	6.00	1.907	0.811	4.872	0.414	Sum	1.143E+01
						CS-137	4.445E-01
						K-40	8.300E+00
						RA-226	1.240E+00
						TH-232	1.234E+00
						U-235	2.081E-01
D07A	3.00	3.697	0.445	3.802	0.455	Sum	1.294E+01
						CS-137	3.808E-01
						K-40	9.882E+00
						RA-226	1.245E+00
						TH-232	1.214E+00
						U-235	2.135E-01
D08	3.00	2.931	0.860	5.683	0.426	Sum	1.217E+01
						CS-137	3.369E-01
						K-40	9.004E+00
						RA-226	1.326E+00
						TH-232	1.261E+00
						U-235	2.411E-01
D09	2.00	2.489	0.814	2.840	0.417	Sum	1.060E+01
						CS-137	2.810E-01
						K-40	7.936E+00
						RA-226	9.682E-01
						TH-232	1.233E+00
						U-235	1.830E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D10	3.00	2.217	0.820	4.259	0.418	Sum	1.134E+01
						CS-137	4.002E-01
						K-40	8.064E+00
						RA-226	1.266E+00
						TH-232	1.262E+00
						U-235	3.455E-01
D11	1.00	1.921	0.817	4.847	0.419	Sum	1.268E+01
						CS-137	4.848E-01
						K-40	9.296E+00
						RA-226	1.179E+00
						TH-232	1.402E+00
						U-235	3.208E-01
D11A	4.00	1.521	0.415	3.621	0.443	Sum	1.127E+01
						CS-137	5.532E-01
						K-40	8.003E+00
						RA-226	1.107E+00
						TH-232	1.276E+00
						U-235	3.278E-01
D12	2.00	3.953	1.159	5.599	0.484	Sum	1.158E+01
						CS-137	4.137E-01
						K-40	8.628E+00
						RA-226	1.071E+00
						TH-232	1.327E+00
						U-235	1.407E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D13	0.00	2.840	0.833	5.624	0.421	Sum	1.201E+01
						CS-137	4.877E-01
						K-40	8.662E+00
						RA-226	1.170E+00
						TH-232	1.512E+00
						U-235	1.748E-01
D14	2.00	3.989	0.969	4.926	0.449	Sum	1.182E+01
						CS-137	4.005E-01
						K-40	8.452E+00
						RA-226	1.231E+00
						TH-232	1.563E+00
						U-235	1.784E-01
D15	3.00	2.936	0.713	4.629	0.393	Sum	9.818E+00
						CS-137	5.358E-01
						K-40	7.182E+00
						RA-226	8.449E-01
						TH-232	1.073E+00
						U-235	1.821E-01
D16	3.00	2.470	0.808	5.192	0.413	Sum	1.195E+01
						CS-137	5.121E-01
						K-40	9.162E+00
						RA-226	9.957E-01
						TH-232	1.148E+00
						U-235	1.301E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
D17	4.00	3.077	0.818	4.669	0.418	Sum	1.282E+01
						CS-137	6.039E-01
						K-40	9.660E+00
						RA-226	1.264E+00
						TH-232	1.022E+00
						U-235	2.746E-01
E07	2.00	2.946	0.963	4.317	0.450	Sum	1.266E+01
						CS-137	4.823E-01
						K-40	9.157E+00
						RA-226	1.320E+00
						TH-232	1.474E+00
						U-235	2.285E-01
E08	1.00	1.930	0.821	4.083	0.417	Sum	1.202E+01
						CS-137	3.736E-01
						K-40	8.876E+00
						RA-226	1.397E+00
						TH-232	1.177E+00
						U-235	1.998E-01
E09	2.00	4.914	0.788	3.254	0.407	Sum	1.092E+01
						CS-137	4.372E-01
						K-40	7.875E+00
						RA-226	1.235E+00
						TH-232	1.170E+00
						U-235	1.983E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E10	1.00	2.661	0.780	4.484	0.409	Sum	1.283E+01
						CS-137	4.322E-01
						K-40	9.532E+00
						RA-226	1.264E+00
						TH-232	1.446E+00
						U-235	1.548E-01
E11	2.00	2.794	0.742	3.960	0.397	Sum	1.060E+01
						CS-137	3.796E-01
						K-40	7.361E+00
						RA-226	1.353E+00
						TH-232	1.299E+00
						U-235	2.115E-01
E12	1.00	3.080	0.903	5.056	0.437	Sum	1.244E+01
						CS-137	3.892E-01
						K-40	9.313E+00
						RA-226	1.284E+00
						TH-232	1.207E+00
						U-235	2.497E-01
E13	4.00	2.029	0.863	6.555	0.427	Sum	1.189E+01
						CS-137	3.820E-01
						K-40	9.138E+00
						RA-226	1.020E+00
						TH-232	1.214E+00
						U-235	1.325E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E13A	3.00	2.755	0.657	4.455	0.501	Sum	1.170E+01
						CS-137	4.869E-01
						K-40	8.992E+00
						RA-226	1.000E+00
						TH-232	1.163E+00
						U-235	5.374E-02
E13B	3.00	5.160	0.779	3.934	0.535	Sum	1.056E+01
						CS-137	3.951E-01
						K-40	6.957E+00
						RA-226	1.331E+00
						TH-232	1.419E+00
						U-235	4.615E-01
E13C	4.00	1.292	0.597	4.732	0.478	Sum	1.327E+01
						CS-137	4.468E-01
						K-40	9.626E+00
						RA-226	1.219E+00
						TH-232	1.313E+00
						U-235	6.669E-01
E13D	4.00	3.987	0.737	5.185	0.523	Sum	1.097E+01
						CS-137	5.934E-01
						K-40	7.522E+00
						RA-226	1.253E+00
						TH-232	1.348E+00
						U-235	2.511E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E13E	4.00	1.732	0.675	4.452	0.501	Sum	1.187E+01
						CS-137	3.832E-01
						K-40	8.663E+00
						RA-226	1.146E+00
						TH-232	1.501E+00
						U-235	1.742E-01
E14	2.00	3.310	0.880	4.532	0.428	Sum	1.310E+01
						CS-137	4.171E-01
						K-40	1.012E+01
						RA-226	1.197E+00
						TH-232	1.145E+00
						U-235	2.190E-01
E15	1.00	5.797	0.930	3.616	0.441	Sum	1.146E+01
						CS-137	5.307E-01
						K-40	8.318E+00
						RA-226	1.196E+00
						TH-232	1.195E+00
						U-235	2.168E-01
E16	2.00	3.017	0.987	5.127	0.451	Sum	1.214E+01
						CS-137	6.048E-01
						K-40	9.072E+00
						RA-226	1.156E+00
						TH-232	1.142E+00
						U-235	1.611E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
E17	4.00	1.527	0.928	5.464	0.442	Sum	1.306E+01
						CS-137	6.799E-01
						K-40	9.772E+00
						RA-226	1.104E+00
						TH-232	1.270E+00
						U-235	2.321E-01
E18	2.00	2.126	0.786	4.266	0.411	Sum	1.055E+01
						CS-137	6.660E-01
						K-40	7.665E+00
						RA-226	9.429E-01
						TH-232	1.123E+00
						U-235	1.552E-01
E19	4.00	4.231	0.818	4.206	0.413	Sum	1.060E+01
						CS-137	4.982E-01
						K-40	7.671E+00
						RA-226	1.182E+00
						TH-232	1.120E+00
						U-235	1.290E-01
F08	1.00	4.699	0.566	5.355	0.500	Sum	1.391E+01
						CS-137	4.653E-01
						K-40	1.040E+01
						RA-226	1.404E+00
						TH-232	1.457E+00
						U-235	1.828E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F09	3.00	4.779	0.576	5.242	0.498	Sum	1.355E+01
						CS-137	3.050E-01
						K-40	1.040E+01
						RA-226	1.278E+00
						TH-232	1.369E+00
						U-235	2.007E-01
F10	2.00	3.429	0.522	5.310	0.488	Sum	1.435E+01
						CS-137	4.273E-01
						K-40	1.122E+01
						RA-226	1.415E+00
						TH-232	1.138E+00
						U-235	1.466E-01
F11	2.00	4.154	0.633	5.757	0.529	Sum	1.219E+01
						CS-137	3.756E-01
						K-40	8.930E+00
						RA-226	1.372E+00
						TH-232	1.306E+00
						U-235	2.048E-01
F12	2.00	3.290	0.550	4.256	0.499	Sum	1.219E+01
						CS-137	5.219E-01
						K-40	8.806E+00
						RA-226	1.284E+00
						TH-232	1.434E+00
						U-235	1.396E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F13	5.00	4.561	0.550	5.678	0.497	Sum	1.450E+01
						CS-137	4.766E-01
						K-40	1.074E+01
						RA-226	1.442E+00
						TH-232	1.610E+00
						U-235	2.290E-01
F14	2.00	5.950	0.670	6.154	0.539	Sum	1.291E+01
						CS-137	4.432E-01
						K-40	9.887E+00
						RA-226	1.154E+00
						TH-232	1.207E+00
						U-235	2.216E-01
F15	2.00	3.606	0.603	4.849	0.514	Sum	1.354E+01
						CS-137	5.932E-01
						K-40	1.011E+01
						RA-226	1.587E+00
						TH-232	1.146E+00
						U-235	1.012E-01
F16	3.00	2.501	0.589	4.738	0.512	Sum	1.488E+01
						CS-137	3.920E-01
						K-40	1.167E+01
						RA-226	1.223E+00
						TH-232	1.439E+00
						U-235	1.563E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
F17	1.00	3.504	0.534	4.192	0.491	Sum	1.214E+01
						CS-137	6.030E-01
						K-40	8.545E+00
						RA-226	1.314E+00
						TH-232	1.489E+00
						U-235	1.863E-01
F18	2.00	4.479	0.473	4.058	0.465	Sum	1.181E+01
						CS-137	3.141E-01
						K-40	8.920E+00
						RA-226	1.195E+00
						TH-232	1.193E+00
						U-235	1.864E-01
F19	1.00	4.641	0.491	6.047	0.477	Sum	1.119E+01
						CS-137	4.674E-01
						K-40	7.968E+00
						RA-226	1.198E+00
						TH-232	1.377E+00
						U-235	1.842E-01
F20	2.00	1.047	0.542	5.290	0.494	Sum	1.117E+01
						CS-137	4.801E-01
						K-40	8.003E+00
						RA-226	1.267E+00
						TH-232	1.111E+00
						U-235	3.077E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G09	2.00	2.747	0.569	4.515	0.507	Sum	1.195E+01
						CS-137	3.929E-01
						K-40	8.880E+00
						RA-226	1.179E+00
						TH-232	1.291E+00
						U-235	2.083E-01
G10	3.00	5.061	0.535	3.487	0.491	Sum	1.252E+01
						CS-137	4.677E-01
						K-40	9.424E+00
						RA-226	1.239E+00
						TH-232	1.210E+00
						U-235	1.777E-01
G10A	3.00	4.322	0.653	3.641	0.496	Sum	1.340E+01
						CS-137	4.419E-01
						K-40	9.948E+00
						RA-226	1.368E+00
						TH-232	1.262E+00
						U-235	3.789E-01
G11	2.00	5.502	0.467	4.215	0.464	Sum	1.205E+01
						CS-137	3.897E-01
						K-40	9.013E+00
						RA-226	1.124E+00
						TH-232	1.312E+00
						U-235	2.143E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G11A	3.00	2.405	0.574	2.494	0.471	Sum	1.476E+01
						CS-137	2.805E-01
						K-40	1.077E+01
						RA-226	1.550E+00
						TH-232	1.718E+00
						U-235	4.388E-01
G11B	4.00	2.322	0.554	3.092	0.464	Sum	1.427E+01
						CS-137	6.070E-01
						K-40	1.075E+01
						RA-226	1.475E+00
						TH-232	1.247E+00
						U-235	1.905E-01
G12	1.00	5.270	0.525	5.306	0.488	Sum	1.134E+01
						CS-137	3.996E-01
						K-40	8.469E+00
						RA-226	1.069E+00
						TH-232	1.208E+00
						U-235	1.992E-01
G13	0.00	2.376	0.559	5.524	0.499	Sum	1.118E+01
						CS-137	3.932E-01
						K-40	8.455E+00
						RA-226	1.134E+00
						TH-232	1.076E+00
						U-235	1.266E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G14	2.00	5.087	0.507	3.418	0.482	Sum	1.321E+01
						CS-137	4.579E-01
						K-40	9.956E+00
						RA-226	1.224E+00
						TH-232	1.177E+00
						U-235	3.990E-01
G15	2.00	1.574	0.371	3.529	0.422	Sum	1.210E+01
						CS-137	4.279E-01
						K-40	9.114E+00
						RA-226	1.209E+00
						TH-232	1.153E+00
						U-235	1.940E-01
G16	1.00	3.519	0.456	4.489	0.458	Sum	1.127E+01
						CS-137	6.030E-01
						K-40	8.104E+00
						RA-226	1.194E+00
						TH-232	1.222E+00
						U-235	1.517E-01
G17	0.00	2.648	0.404	3.166	0.435	Sum	1.279E+01
						CS-137	3.852E-01
						K-40	9.673E+00
						RA-226	1.241E+00
						TH-232	1.279E+00
						U-235	2.091E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G18	1.00	3.703	0.518	4.591	0.486	Sum	1.195E+01
						CS-137	4.690E-01
						K-40	8.536E+00
						RA-226	1.220E+00
						TH-232	1.560E+00
						U-235	1.639E-01
G18A	4.00	2.271	0.600	3.360	0.480	Sum	1.039E+01
						CS-137	5.434E-01
						K-40	7.018E+00
						RA-226	1.404E+00
						TH-232	1.190E+00
						U-235	2.369E-01
G18B	4.00	2.842	0.568	3.425	0.466	Sum	1.025E+01
						CS-137	3.923E-01
						K-40	7.255E+00
						RA-226	1.118E+00
						TH-232	1.321E+00
						U-235	1.665E-01
G18C	4.00	3.102	0.574	3.872	0.472	Sum	1.112E+01
						CS-137	4.073E-01
						K-40	8.264E+00
						RA-226	1.215E+00
						TH-232	1.017E+00
						U-235	2.149E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
G19	1.00	2.524	0.467	3.962	0.464	Sum	1.112E+01
						CS-137	4.108E-01
						K-40	7.883E+00
						RA-226	1.368E+00
						TH-232	1.275E+00
						U-235	1.873E-01
G20	3.00	4.212	0.507	3.832	0.479	Sum	1.099E+01
						CS-137	5.780E-01
						K-40	7.640E+00
						RA-226	1.254E+00
						TH-232	1.268E+00
						U-235	2.488E-01
G21	3.00	1.790	0.488	3.951	0.473	Sum	1.267E+01
						CS-137	5.077E-01
						K-40	9.632E+00
						RA-226	1.351E+00
						TH-232	1.133E+00
						U-235	4.324E-02
H10	2.00	4.660	0.604	5.626	0.517	Sum	1.261E+01
						CS-137	4.774E-01
						K-40	9.121E+00
						RA-226	1.288E+00
						TH-232	1.558E+00
						U-235	1.662E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H10A	4.00	1.965	0.581	4.368	0.473	Sum	1.071E+01
						CS-137	4.128E-01
						K-40	7.668E+00
						RA-226	1.139E+00
						TH-232	1.283E+00
						U-235	2.065E-01
H11	2.00	4.415	0.497	3.994	0.478	Sum	1.325E+01
						CS-137	4.316E-01
						K-40	1.011E+01
						RA-226	1.345E+00
						TH-232	1.166E+00
						U-235	1.951E-01
H12	0.00	3.007	0.556	3.814	0.500	Sum	1.298E+01
						CS-137	5.175E-01
						K-40	9.541E+00
						RA-226	1.233E+00
						TH-232	1.484E+00
						U-235	2.069E-01
H13	2.00	3.949	0.511	4.129	0.484	Sum	1.290E+01
						CS-137	4.776E-01
						K-40	9.769E+00
						RA-226	1.280E+00
						TH-232	1.136E+00
						U-235	2.389E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H14	2.00	3.866	0.541	3.949	0.494	Sum	1.217E+01
						CS-137	4.607E-01
						K-40	8.838E+00
						RA-226	1.347E+00
						TH-232	1.317E+00
						U-235	2.114E-01
H15	1.00	2.250	0.466	5.465	0.464	Sum	1.243E+01
						CS-137	5.002E-01
						K-40	9.163E+00
						RA-226	1.301E+00
						TH-232	1.231E+00
						U-235	2.307E-01
H16	1.00	4.368	0.492	5.263	0.476	Sum	1.137E+01
						CS-137	6.751E-01
						K-40	8.006E+00
						RA-226	1.435E+00
						TH-232	1.121E+00
						U-235	1.322E-01
H17	0.00	3.920	0.441	4.674	0.452	Sum	1.089E+01
						CS-137	4.418E-01
						K-40	7.941E+00
						RA-226	1.283E+00
						TH-232	1.092E+00
						U-235	1.278E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H18	3.00	2.156	0.447	4.077	0.458	Sum	1.158E+01
						CS-137	5.907E-01
						K-40	8.247E+00
						RA-226	1.223E+00
						TH-232	1.321E+00
						U-235	1.977E-01
H19	1.00	2.085	0.432	4.471	0.448	Sum	1.204E+01
						CS-137	4.002E-01
						K-40	9.225E+00
						RA-226	1.098E+00
						TH-232	1.163E+00
						U-235	1.572E-01
H20	0.00	1.878	0.442	5.411	0.452	Sum	1.225E+01
						CS-137	5.835E-01
						K-40	8.585E+00
						RA-226	1.440E+00
						TH-232	1.495E+00
						U-235	1.479E-01
H21	1.00	3.817	0.430	3.413	0.447	Sum	1.279E+01
						CS-137	5.084E-01
						K-40	9.373E+00
						RA-226	1.331E+00
						TH-232	1.324E+00
						U-235	2.557E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
H22	0.00	3.239	0.419	4.575	0.442	Sum	1.220E+01
						CS-137	5.331E-01
						K-40	9.035E+00
						RA-226	1.233E+00
						TH-232	1.269E+00
						U-235	1.263E-01
I11	3.00	2.914	0.487	5.126	0.471	Sum	1.378E+01
						CS-137	5.497E-01
						K-40	1.061E+01
						RA-226	1.123E+00
						TH-232	1.368E+00
						U-235	1.310E-01
I12	4.00	3.911	0.440	4.344	0.452	Sum	1.236E+01
						CS-137	5.634E-01
						K-40	8.864E+00
						RA-226	1.385E+00
						TH-232	1.370E+00
						U-235	1.747E-01
I13	2.00	4.759	0.448	5.360	0.455	Sum	1.219E+01
						CS-137	3.399E-01
						K-40	8.878E+00
						RA-226	1.311E+00
						TH-232	1.407E+00
						U-235	2.536E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I13A	3.00	1.910	0.505	2.652	0.444	Sum	1.239E+01
						CS-137	2.924E-01
						K-40	9.085E+00
						RA-226	1.429E+00
						TH-232	1.409E+00
						U-235	1.711E-01
I14	1.00	4.097	0.386	3.943	0.426	Sum	1.216E+01
						CS-137	3.222E-01
						K-40	9.356E+00
						RA-226	1.077E+00
						TH-232	1.243E+00
						U-235	1.615E-01
I15	1.00	1.801	0.333	2.857	0.403	Sum	1.140E+01
						CS-137	1.600E-01
						K-40	8.867E+00
						RA-226	1.096E+00
						TH-232	1.105E+00
						U-235	1.707E-01
I16	1.00	2.097	0.434	4.238	0.449	Sum	1.226E+01
						CS-137	5.624E-01
						K-40	8.848E+00
						RA-226	1.264E+00
						TH-232	1.099E+00
						U-235	4.844E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I16A	3.00	2.793	0.667	4.826	0.504	Sum	1.157E+01
						CS-137	3.078E-01
						K-40	8.334E+00
						RA-226	1.325E+00
						TH-232	1.446E+00
						U-235	1.573E-01
I17	2.00	3.364	0.513	4.803	0.481	Sum	9.895E+00
						CS-137	4.709E-01
						K-40	6.968E+00
						RA-226	1.050E+00
						TH-232	1.268E+00
						U-235	1.378E-01
I18	2.00	5.781	0.576	5.166	0.508	Sum	1.147E+01
						CS-137	4.320E-01
						K-40	8.245E+00
						RA-226	1.224E+00
						TH-232	1.416E+00
						U-235	1.511E-01
I19	3.00	1.858	0.438	3.937	0.452	Sum	1.072E+01
						CS-137	3.452E-01
						K-40	7.721E+00
						RA-226	1.154E+00
						TH-232	1.334E+00
						U-235	1.615E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I20	1.00	2.319	0.481	4.604	0.470	Sum	1.097E+01
						CS-137	4.024E-01
						K-40	7.776E+00
						RA-226	1.213E+00
						TH-232	1.349E+00
						U-235	2.262E-01
I21	0.00	2.641	0.489	3.793	0.474	Sum	1.290E+01
						CS-137	3.607E-01
						K-40	9.765E+00
						RA-226	1.140E+00
						TH-232	1.429E+00
						U-235	2.063E-01
I22	3.00	1.737	0.474	4.070	0.467	Sum	1.171E+01
						CS-137	4.027E-01
						K-40	8.500E+00
						RA-226	1.339E+00
						TH-232	1.360E+00
						U-235	1.126E-01
I23	4.00	3.097	0.472	3.728	0.466	Sum	1.156E+01
						CS-137	4.205E-01
						K-40	8.269E+00
						RA-226	1.313E+00
						TH-232	1.222E+00
						U-235	3.312E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
I24	4.00	1.993	0.670	4.491	0.506	Sum	1.120E+01
						CS-137	2.976E-01
						K-40	8.095E+00
						RA-226	1.436E+00
						TH-232	1.185E+00
						U-235	1.907E-01
J12	3.00	1.662	0.661	3.587	0.438	Sum	1.044E+01
						CS-137	4.869E-01
						K-40	7.400E+00
						RA-226	1.182E+00
						TH-232	1.201E+00
						U-235	1.739E-01
J13	1.00	5.490	0.599	3.690	0.420	Sum	1.186E+01
						CS-137	4.182E-01
						K-40	8.962E+00
						RA-226	1.278E+00
						TH-232	1.057E+00
						U-235	1.494E-01
J14	1.00	3.806	0.990	4.533	0.516	Sum	1.226E+01
						CS-137	1.519E-01
						K-40	9.430E+00
						RA-226	1.352E+00
						TH-232	1.128E+00
						U-235	1.958E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J15	1.00	2.505	0.736	4.311	0.459	Sum	1.090E+01
						CS-137	2.855E-01
						K-40	8.241E+00
						RA-226	1.068E+00
						TH-232	1.122E+00
						U-235	1.861E-01
J16	0.00	1.469	0.710	4.411	0.451	Sum	1.299E+01
						CS-137	7.967E-01
						K-40	9.826E+00
						RA-226	1.137E+00
						TH-232	1.020E+00
						U-235	2.090E-01
J17	2.00	2.523	1.003	5.073	0.519	Sum	1.203E+01
						CS-137	3.302E-01
						K-40	9.071E+00
						RA-226	1.216E+00
						TH-232	1.197E+00
						U-235	2.190E-01
J18	2.00	5.050	0.976	4.607	0.512	Sum	1.166E+01
						CS-137	4.388E-01
						K-40	8.390E+00
						RA-226	1.284E+00
						TH-232	1.206E+00
						U-235	3.378E-01

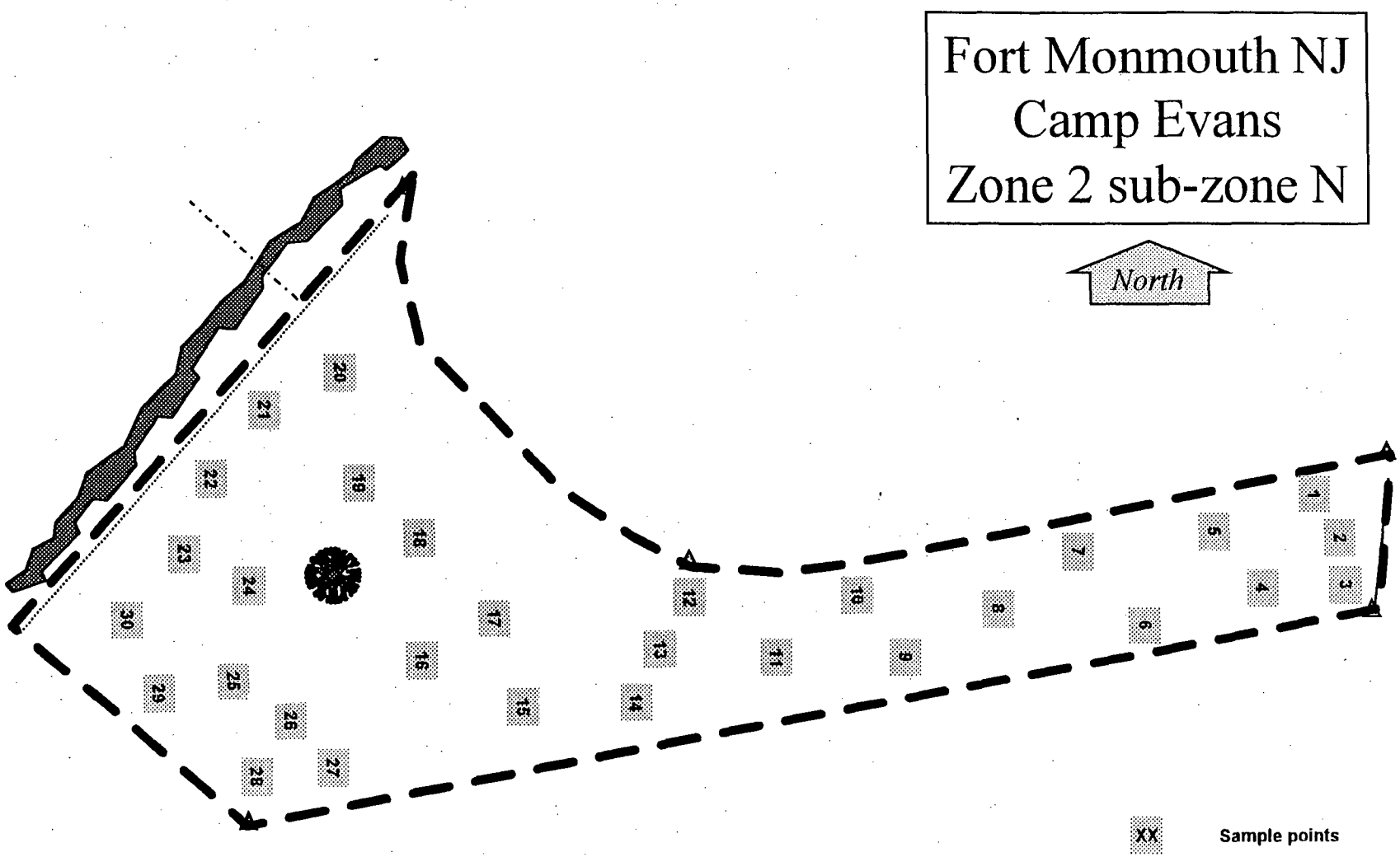
GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J19	3.00	4.003	0.660	5.146	0.437	Sum	1.141E+01
						CS-137	5.242E-01
						K-40	7.901E+00
						RA-226	1.395E+00
						TH-232	1.384E+00
						U-235	2.102E-01
J20	4.00	1.731	0.688	3.560	0.445	Sum	1.268E+01
						CS-137	3.810E-01
						K-40	9.500E+00
						RA-226	1.431E+00
						TH-232	1.207E+00
						U-235	1.641E-01
J21	2.00	3.152	0.735	4.022	0.457	Sum	1.111E+01
						CS-137	3.176E-01
						K-40	8.179E+00
						RA-226	1.079E+00
						TH-232	1.384E+00
						U-235	1.513E-01
J22	0.00	1.879	0.635	3.347	0.429	Sum	1.330E+01
						CS-137	5.507E-01
						K-40	9.888E+00
						RA-226	1.286E+00
						TH-232	1.342E+00
						U-235	2.315E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
J23	1.00	3.204	0.747	4.337	0.462	Sum	1.147E+01
						CS-137	4.298E-01
						K-40	8.563E+00
						RA-226	1.057E+00
						TH-232	1.223E+00
						U-235	1.955E-01
J24	0.00	0.982	0.289	1.310	0.310	Sum	1.335E+01
						CS-137	4.253E-01
						K-40	9.525E+00
						RA-226	1.489E+00
						TH-232	1.660E+00
						U-235	2.466E-01
J25	2.00	2.768	0.645	4.397	0.432	Sum	1.180E+01
						CS-137	4.889E-01
						K-40	8.739E+00
						RA-226	1.249E+00
						TH-232	1.175E+00
						U-235	1.496E-01
K19	-1.00	1.802	0.469	3.003	0.375	Sum	6.190E+00
						CS-137	2.233E-01
						K-40	3.965E+00
						RA-226	9.059E-01
						TH-232	9.998E-01
						U-235	9.581E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K20	0.00	2.400	0.396	1.767	0.352	Sum	7.072E+00
						CS-137	2.451E-01
						K-40	4.574E+00
						RA-226	1.013E+00
						TH-232	1.092E+00
						U-235	1.480E-01
K21	0.00	1.479	0.500	3.586	0.390	Sum	9.418E+00
						CS-137	2.543E-01
						K-40	6.691E+00
						RA-226	9.727E-01
						TH-232	1.253E+00
						U-235	2.474E-01
K22	0.00	1.574	0.463	2.327	0.374	Sum	1.105E+01
						CS-137	5.395E-01
						K-40	7.714E+00
						RA-226	1.275E+00
						TH-232	1.262E+00
						U-235	2.558E-01
K23	0.00	2.044	0.601	4.459	0.422	Sum	1.189E+01
						CS-137	4.596E-01
						K-40	8.431E+00
						RA-226	1.429E+00
						TH-232	1.366E+00
						U-235	2.002E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
K24	-1.00	5.148	0.622	3.856	0.429	Sum	1.166E+01
						CS-137	6.608E-01
						K-40	8.204E+00
						RA-226	1.359E+00
						TH-232	1.230E+00
						U-235	2.074E-01
K25	-1.00	2.194	0.645	3.283	0.432	Sum	1.068E+01
						CS-137	3.697E-01
						K-40	7.739E+00
						RA-226	1.173E+00
						TH-232	1.195E+00
						U-235	2.012E-01
K26	1.00	3.729	0.615	3.143	0.424	Sum	1.033E+01
						CS-137	4.010E-01
						K-40	7.535E+00
						RA-226	1.080E+00
						TH-232	1.018E+00
						U-235	3.008E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
		Alpha		Beta			Gamma (Sum)
Minimum	-1	0.557	0.289	1.310	0.300		5.216E+00
Maximum	6	5.950	1.159	7.773	0.539		1.488E+01
Average	2	2.953	0.608	4.240	0.444		1.157E+01


Fort Monmouth NJ
Camp Evans
Zone 2 sub-zone N
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Sample points
Off site

08-Apr-98

FIELD TECHNICAL SUPPORT DATA

LOCATION	SOIL	
	ZONE: 2	SUBZONE: N

FIELD SURVEY

GRIDS	LEAD TECH	SURVEY DATE	INST #	PROBE #	ALPHA BKG	ALPHA MDA (dpm/100cm²)	ALPHA EFF. %	BETA BKG	BETA MDA (dpm/100cm²)	BETA EFF. %	GAMMA BKG (µR/hr)	PROBE AREA
R01 - R30	EAVES	18-Jul-97	00914	723415							11	N/A

20-Apr-98

FIELD TECHNICAL SUPPORT DATA (2)

LOCATION

SOIL

ZONE: 2 SUBZONE: N

FIELD SURVEY

GRIDS	SURVEY NUMBER	SAMPLE NUMBER	
R01 - R30	1502	.01 - .38	

08-Apr-98

RADIOLOGICAL SURVEY DATA REPORT

LOCATION

SOIL

ZONE: 2 SUBZONE: N

All field data in this report are background corrected; all lab data are corrected values using an empty container or planchet for background.

	FIELD	LAB					
	GAMMA	ALPHA		BETA		GAMMA	
GRIDS	(µR/hr)	pCi/gm	MDA (pCi/gm)	pCi/gm	MDA (pCi/gm)	Nuclide	pCi/gm
R01	0.00	0.608	0.612	4.094	0.569	Sum	9.459E+00
						CS-137	5.522E-01
						K-40	6.659E+00
						RA-226	1.210E+00
						TH-232	9.006E-01
						U-235	1.373E-01
R02	1.00	2.147	0.540	4.236	0.538	Sum	8.438E+00
						CS-137	3.166E-01
						K-40	6.034E+00
						RA-226	7.884E-01
						TH-232	1.000E+00
						U-235	2.991E-01
R03	1.00	2.852	0.574	7.813	0.554	Sum	1.073E+01
						CS-137	5.502E-01
						K-40	7.936E+00
						RA-226	1.259E+00
						TH-232	9.660E-01
						U-235	2.146E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R04	1.00	2.244	0.753	9.489	0.620	Sum	9.979E+00
						CS-137	4.272E-01
						K-40	6.795E+00
						RA-226	1.283E+00
						TH-232	1.344E+00
						U-235	1.299E-01
R05	0.00	4.481	0.752	9.692	0.620	Sum	1.249E+01
						CS-137	5.400E-01
						K-40	8.895E+00
						RA-226	1.692E+00
						TH-232	1.128E+00
						U-235	2.352E-01
R06	1.00	3.982	0.802	7.893	0.635	Sum	1.091E+01
						CS-137	3.085E-01
						K-40	7.793E+00
						RA-226	1.177E+00
						TH-232	1.478E+00
						U-235	1.529E-01
R07	1.00	0.855	0.430	3.944	0.490	Sum	6.566E+00
						CS-137	6.747E-01
						K-40	4.225E+00
						RA-226	7.122E-01
						TH-232	8.985E-01
						U-235	5.587E-02

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R08	1.00	3.007	0.756	6.381	0.624	Sum	1.475E+01
						CS-137	4.284E-01
						K-40	1.130E+01
						RA-226	1.093E+00
						TH-232	1.682E+00
						U-235	2.508E-01
R09	-1.00	3.021	0.608	5.437	0.569	Sum	5.032E+00
						CS-137	7.555E-01
						K-40	3.245E+00
						RA-226	4.595E-01
						TH-232	5.715E-01
R10	0.00	1.908	0.549	4.472	0.545	Sum	1.997E+00
						CS-137	7.304E-01
						RA-226	6.518E-01
						TH-232	4.424E-01
						U-235	1.727E-01
R11	2.00	1.307	0.658	3.319	0.584	Sum	1.053E+01
						CS-137	2.691E-01
						K-40	7.311E+00
						RA-226	1.353E+00
						TH-232	1.418E+00
						U-235	1.818E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R12	1.00	3.660	0.818	6.794	0.643	Sum	1.519E+01
						CS-137	6.108E-01
						K-40	1.075E+01
						RA-226	1.343E+00
						TH-232	1.614E+00
						U-235	8.753E-01
R13	0.00	2.161	0.870	6.859	0.659	Sum	9.317E+00
						CS-137	4.636E-01
						K-40	5.713E+00
						RA-226	1.625E+00
						TH-232	1.494E+00
						U-235	2.134E-02
R14	1.00	1.179	0.791	5.414	0.633	Sum	1.233E+01
						CS-137	4.973E-01
						K-40	8.522E+00
						RA-226	1.557E+00
						TH-232	1.606E+00
						U-235	1.521E-01
R15	1.00	5.413	0.838	5.986	0.649	Sum	1.513E+01
						CS-137	6.152E-01
						K-40	1.123E+01
						RA-226	1.434E+00
						TH-232	1.624E+00
						U-235	2.309E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R16	0.00	2.583	0.400	3.333	0.474	Sum	1.449E+01
						CS-137	4.881E-01
						K-40	9.853E+00
						RA-226	1.522E+00
						TH-232	1.321E+00
						U-235	1.307E+00
R17	2.00	4.319	0.435	4.708	0.492	Sum	1.078E+01
						CS-137	5.849E-01
						K-40	7.888E+00
						RA-226	1.048E+00
						TH-232	1.110E+00
						U-235	1.457E-01
R18	2.00	4.677	0.941	6.267	0.680	Sum	1.240E+01
						CS-137	6.188E-01
						K-40	8.841E+00
						RA-226	1.503E+00
						TH-232	1.151E+00
						U-235	2.894E-01
R19	2.00	3.521	0.394	3.480	0.472	Sum	1.135E+01
						CS-137	3.392E-01
						K-40	7.808E+00
						RA-226	1.405E+00
						TH-232	1.313E+00
						U-235	4.890E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R20	0.00	6.909	1.159	5.213	0.742	Sum	1.109E+01
						CS-137	6.609E-01
						K-40	7.247E+00
						RA-226	1.027E+00
						TH-232	1.924E+00
						U-235	2.290E-01
R21	2.00	2.525	0.635	4.255	0.578	Sum	1.075E+01
						CS-137	3.579E-01
						K-40	7.511E+00
						RA-226	1.276E+00
						TH-232	1.451E+00
						U-235	1.564E-01
R22	0.00	1.562	0.629	8.216	0.575	Sum	1.008E+01
						CS-137	1.399E+00
						K-40	6.249E+00
						RA-226	9.202E-01
						TH-232	9.057E-01
						U-235	6.084E-01
R23	0.00	4.299	0.666	6.111	0.587	Sum	9.761E+00
						CS-137	5.903E-01
						K-40	6.082E+00
						RA-226	1.530E+00
						TH-232	1.420E+00
						U-235	1.386E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
R24	2.00	2.926	0.736	5.268	0.616	Sum	1.175E+01
						CS-137	5.009E-01
						K-40	8.685E+00
						RA-226	1.056E+00
						TH-232	1.343E+00
						U-235	1.648E-01
R25	0.00	3.067	0.686	5.200	0.597	Sum	9.943E+00
						CS-137	3.977E-01
						K-40	6.656E+00
						RA-226	1.323E+00
						TH-232	1.381E+00
						U-235	1.849E-01
R26	3.00	3.225	0.649	5.885	0.585	Sum	1.145E+01
						CS-137	5.760E-01
						K-40	7.793E+00
						RA-226	1.355E+00
						TH-232	1.404E+00
						U-235	3.221E-01
R27	1.00	4.189	0.649	5.390	0.584	Sum	1.032E+01
						CS-137	4.937E-01
						K-40	6.712E+00
						RA-226	1.368E+00
						TH-232	1.271E+00
						U-235	4.766E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	LAB ALPHA MDA (pCi/gm)	LAB BETA pCi/gm	LAB BETA MDA (pCi/gm)	LAB GAMMA Nuclide	LAB GAMMA pCi/gm
R28	0.00	3.300	0.664	5.145	0.590	Sum	1.198E+01
						CS-137	4.418E-01
						K-40	8.773E+00
						RA-226	1.501E+00
						TH-232	1.029E+00
						U-235	2.372E-01
R29	0.00	2.080	0.381	3.734	0.464	Sum	6.201E+00
						K-40	4.607E+00
						RA-226	7.629E-01
						TH-232	8.311E-01
R30	0.00	1.885	0.379	2.243	0.464	Sum	6.518E+00
						K-40	4.479E+00
						RA-226	7.861E-01
						TH-232	1.152E+00
						U-235	1.014E-01

GRIDS	FIELD GAMMA (µR/hr)	LAB ALPHA pCi/gm	ALPHA MDA (pCi/gm)	BETA pCi/gm	BETA MDA (pCi/gm)	GAMMA Nuclide	GAMMA pCi/gm
		Alpha		Beta			Gamma (Sum)
Minimum	-1	0.608	0.379	2.243	0.464		1.997E+00
Maximum	3	6.909	1.159	9.692	0.742		1.519E+01
Average	1	2.996	0.658	5.542	0.581		1.039E+01

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