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107115 01

Formerly Utilized Sites Remedial Action Program (FUSRAP)

ADMINISTRATIVE RECORD

for Maywood, New Jersey



U.S. Department of Energy



Department of Energy

Oak Ridge Operations
P.O. Box 2001
Oak Ridge, Tennessee 37831— 8723

August 13, 1993

Paul A. Giardina, Chief
Radiation Branch
Environmental Protection Agency
Region II
Jacob K. Javits Federal Building
New York, NY 10278

Dear Mr. Giardina:

DOE-OWNED FUSRAP SITES - SEMIANNUAL RADON FLUX MONITORING RESULTS - SUBMITTAL TO EPA REGION II

Enclosed for your consideration are the results of radon flux monitoring conducted at the following sites in Region II being administered by the Department of Energy (DOE) under the Formerly Utilized Sites Remedial Action Program (FUSRAP): the Maywood Interim Storage Site (MISS); the Middlesex Sampling Plant (MSP); the New Brunswick Site (NBS); and the Niagara Falls Storage Site (NFSS).

The monitoring information is being provided for your information in the spirit of the draft Memorandum of Understanding between DOE and EPA to provide data under 40 CFR part 61, Subpart Q, of the National Emission Standards for Hazardous Air Pollutants (NESHAPs).

Enclosed are the data for the interim storage piles at MSP and MISS, for the waste containment structure at NFSS, and for the designated monitoring area at NBS. The data includes the results of semiannual monitoring conducted in June and July of 1993. Results of the monitoring indicate that the sites are in compliance with the radon flux standard of 20 pCi/m²/s.

In the interest of providing the results of radon flux monitoring in as timely a manner as possible, we will continue to submit future results of each semiannual monitoring event to EPA within 60 days of each sampling event. This time period is necessary in order to consolidate the monitoring results from all four FUSRAP sites within Region II into one transmittal.

If you have any questions, please contact me at (615) 576-0948.

Sincerely,

A handwritten signature in cursive script that reads "Lester K. Price".

Lester K. Price, Director
Former Sites Restoration Division

Enclosures:

Bechtel

Oak Ridge Corporate Center
151 Lafayette Drive
P.O. Box 350
Oak Ridge, Tennessee 37831-0350

Facsimile: (615) 220-2100

Job No. 14501, FUSRAP Project
DOE Contract No. DE-AC05-91OR21949
Code: 7520/WBS: 118, 138, 144, 158

AUG 11 1993

U.S. Department of Energy
Oak Ridge Operations Office
P.O. Box 2001
Oak Ridge, TN 37831-8723

Attention: Lester K. Price, Director
Former Sites Restoration Division

Subject: Maywood, Middlesex, New Brunswick, and Niagara Falls
FUSRAP Sites - Semiannual Radon Flux Monitoring
Results - Transmittal to EPA Region II

Reference: Letter, Price to Giardina, dated December 23, 1992,
Transmittal of Radon Flux Monitoring Data (CCN 098536)

Dear Mr. Price:

Enclosed for your review and signature is a letter to EPA Region II transmitting the result of radon flux monitoring conducted at certain FUSRAP sites in June and July, 1993.

The information is being provided to the EPA for their information only, in the spirit of the draft Memorandum of Understanding negotiated between DOE and EPA. Transmittal of the monitoring results to EPA is consistent with prior practice and does not establish any new or additional recordkeeping commitments for FUSRAP under Subpart Q of 40 CFR Part 61, the National Emission Standards for Hazardous Air Pollutants (NESHAPs).

I certify that the enclosed document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. To the best of my knowledge and belief, the information submitted is true, accurate, and complete.



Bechtel National, Inc.

L. K. Price

2

Please be aware that the radon monitoring results must be submitted to the EPA by August 15, 1993, in order to meet our commitment of providing the results within 60 days of each sampling event (see CCN 098536).

If you have any questions, please contact myself or Tom Morris at 574-3355.

Sincerely,



R. R. Harbert
Program Manager - FUSRAP

EAR:jah:LR_1254

Enclosure: Radon flux data transmittal to EPA Region II

cc: Susan M. Cange
Ronald E. Kirk

Concurrence: E. A. Rudek @ EAR J. F. Ramsey JFR
C. R. Hickey CRH M. E. Redmon MER
M. E. Kaye MEK T. E. Morris TEM
G. R. Galen GRG

ACTION REQ'D	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	DATE	8/15/93				
RESPONSE TO CHRON NO.								
<input type="checkbox"/> RFA	<input type="checkbox"/> Permit	<input type="checkbox"/> Milestone	<input type="checkbox"/> O&M	<input type="checkbox"/> CCN	<input type="checkbox"/> CAN	<input type="checkbox"/> Mid-Yr	<input type="checkbox"/> Yr-End	<input checked="" type="checkbox"/> Periodic



Department of Energy

Oak Ridge Operations
P.O. Box 2001
Oak Ridge, Tennessee 37831—

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Radiation Branch
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Region II
Jacob K. Javits Federal Building
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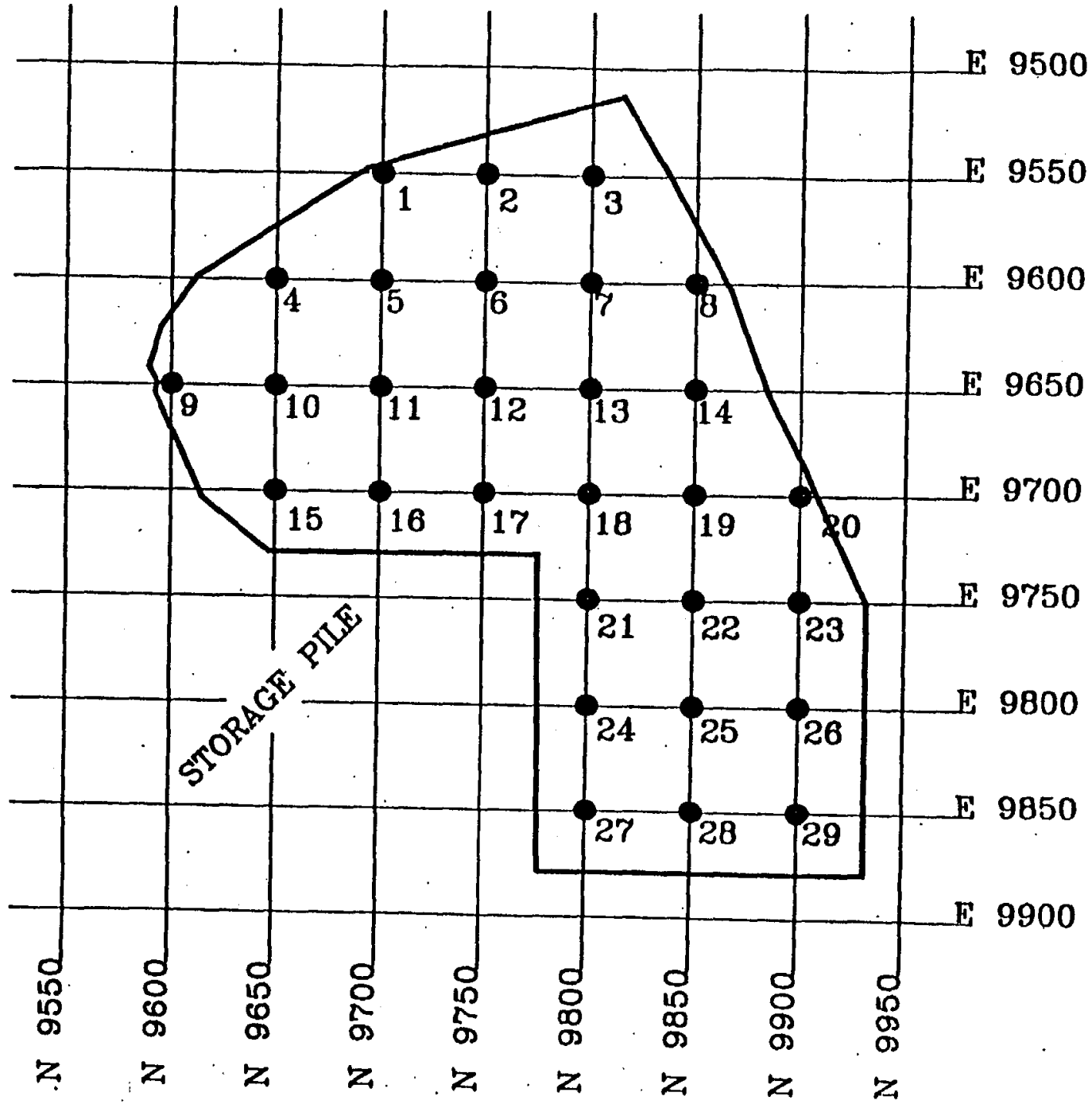
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If you have any questions, please contact me at (615) 576-0948.

Sincerely,

Lester K. Price, Director
Former Sites Restoration Division

Enclosures:



MAYWOOD INTERIM STORAGE PILE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS Storage Pile
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
087



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

7/26/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
138-RF-M1	07/14-07/15/93	Rn-222	07/19/93	0.20±0.07	
138-RF-M2	07/14-07/15/93	Rn-222	07/19/93	0.19±0.07	
138-RF-M3	07/14-07/15/93	Rn-222	07/19/93	0.22±0.07	
138-RF-M4	07/14-07/15/93	Rn-222	07/19/93	0.18±0.07	
138-RF-M5	07/14-07/15/93	Rn-222	07/19/93	0.17±0.07	
138-RF-M6	07/14-07/15/93	Rn-222	07/19/93	0.21±0.07	
138-RF-M7	07/14-07/15/93	Rn-222	07/19/93	0.19±0.07	
138-RF-M8	07/14-07/15/93	Rn-222	07/19/93	0.21±0.07	
138-RF-M9	07/14-07/15/93	Rn-222	07/19/93	0.20±0.07	
138-RF-M10	07/14-07/15/93	Rn-222	07/19/93	0.15±0.07	
138-RF-M11	07/14-07/15/93	Rn-222	07/19/93	0.08±0.06	
138-RF-M12	07/14-07/15/93	Rn-222	07/19/93	0.17±0.07	
138-RF-M13	07/14-07/15/93	Rn-222	07/19/93	0.17±0.07	
138-RF-M14	07/14-07/15/93	Rn-222	07/19/93	0.22±0.07	
138-RF-M14	07/14-07/15/93	Rn-222	07/19/93	0.19±0.07	QC
138-RF-M15	07/14-07/15/93	Rn-222	07/19/93	0.17±0.07	
138-RF-M16	07/14-07/15/93	Rn-222	07/19/93	0.14±0.07	
138-RF-M17	07/14-07/15/93	Rn-222	07/19/93	0.15±0.07	
138-RF-M18	07/14-07/15/93	Rn-222	07/19/93	0.11±0.07	
138-RF-M19	07/14-07/15/93	Rn-222	07/19/93	0.18±0.07	

 REPORTED VIA TELEPHONE

PAGE 1 OF 2 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

Bruce Coomer 7/28/93

DA



CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS Storage Pile
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
087

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

7/26/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
138-RF-M20	07/14-07/15/93	Rn-222	07/19/93	0.10±0.07	
138-RF-M20	07/14-07/15/93	Rn-222	07/19/93	0.10±0.07	QC
138-RF-M21	07/14-07/15/93	Rn-222	07/19/93	0.15±0.07	
138-RF-M22	07/14-07/15/93	Rn-222	07/19/93	0.14±0.07	
138-RF-M23	07/14-07/15/93	Rn-222	07/19/93	0.16±0.07	
138-RF-M24	07/14-07/15/93	Rn-222	07/19/93	0.16±0.07	
138-RF-M25	07/14-07/15/93	Rn-222	07/19/93	0.15±0.07	
138-RF-M26	07/14-07/15/93	Rn-222	07/19/93	0.17±0.07	
138-RF-M27	07/14-07/15/93	Rn-222	07/19/93	0.18±0.07	
138-RF-M28	07/14-07/15/93	Rn-222	07/19/93	0.13±0.07	
138-RF-M28	07/14-07/15/93	Rn-222	07/19/93	0.14±0.07	QC
138-RF-M29	07/14-07/15/93	Rn-222	07/19/93	0.15±0.07	
138-RF-M30	07/14-07/15/93	Rn-222	07/19/93	0.17±0.07	

 REPORTED VIA TELEPHONE

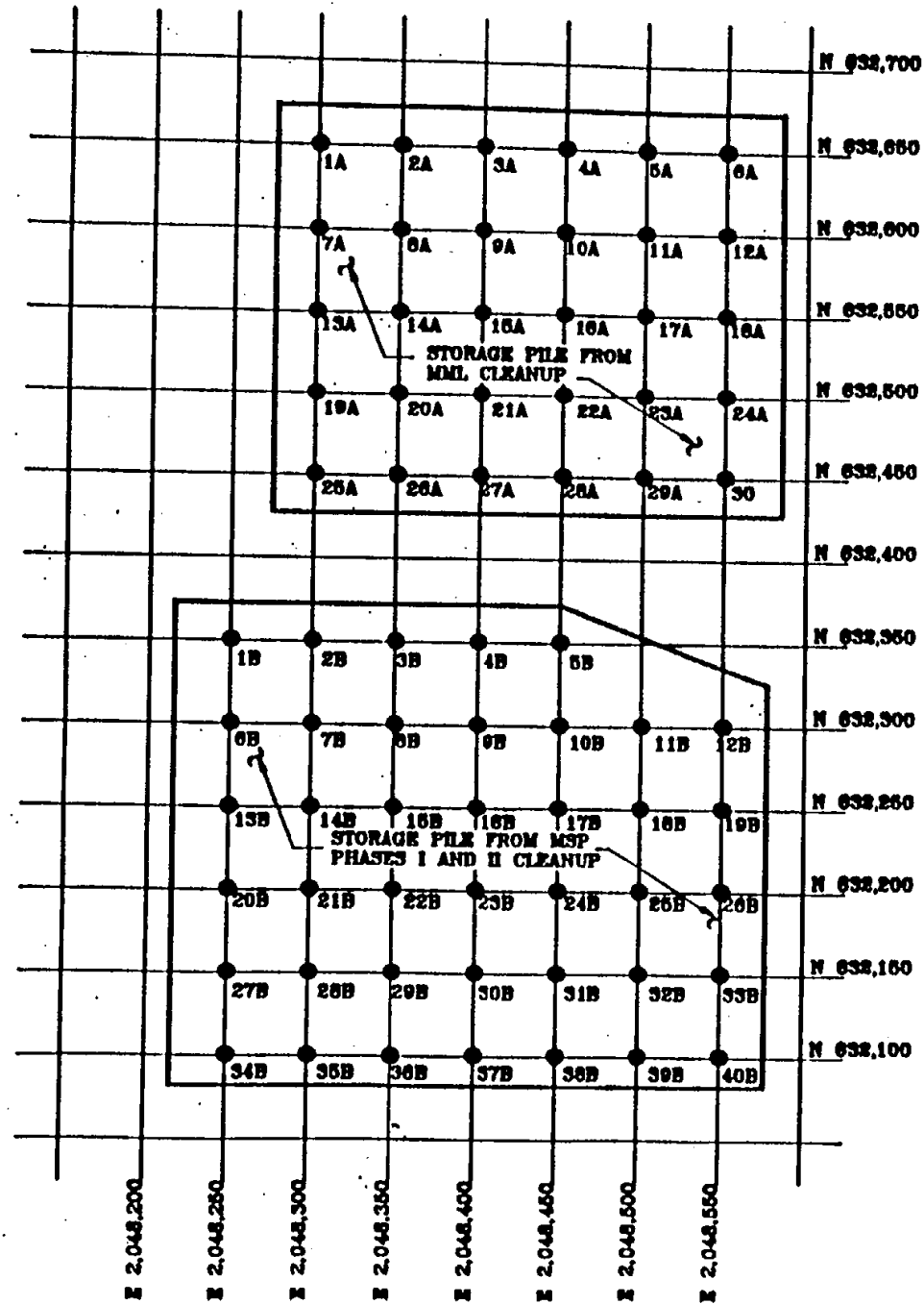
PAGE 2 OF 2 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

Bruce Coomer 7/28/93



MIDDLESEY INTERIM STORAGE PILE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MSP Storage Piles
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
081



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 7/27/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
118-RF-001A	07/13-07/14/93	Rn-222	07/15/93	0.14±0.04	
118-RF-002A	07/13-07/14/93	Rn-222	07/15/93	0.08±0.04	
118-RF-002A	07/13-07/14/93	Rn-222	07/15/93	0.09±0.04	QC
118-RF-003A	07/13-07/14/93	Rn-222	07/15/93	0.25±0.04	
118-RF-004A	07/13-07/14/93	Rn-222	07/15/93	0.09±0.04	
118-RF-005A	07/13-07/14/93	Rn-222	07/15/93	0.08±0.04	
118-RF-006A	07/13-07/14/93	Rn-222	07/15/93	0.09±0.04	
118-RF-007A	07/13-07/14/93	Rn-222	07/15/93	0.22±0.04	
118-RF-008A	07/13-07/14/93	Rn-222	07/15/93	0.08±0.04	
118-RF-009A	07/13-07/14/93	Rn-222	07/15/93	0.23±0.04	
118-RF-010A	07/13-07/14/93	Rn-222	07/15/93	0.08±0.04	
118-RF-011A	07/13-07/14/93	Rn-222	07/15/93	0.39±0.05	
118-RF-012A	07/13-07/14/93	Rn-222	07/15/93	0.16±0.04	
118-RF-013A	07/13-07/14/93	Rn-222	07/15/93	0.35±0.05	
118-RF-014A	07/13-07/14/93	Rn-222	07/15/93	0.13±0.04	
118-RF-015A	07/13-07/14/93	Rn-222	07/15/93	0.06±0.04	
118-RF-016A	07/13-07/14/93	Rn-222	07/15/93	0.23±0.04	
118-RF-017A	07/13-07/14/93	Rn-222	07/15/93	0.14±0.04	
118-RF-018A	07/13-07/14/93	Rn-222	07/15/93	0.22±0.04	
118-RF-019A	07/13-07/14/93	Rn-222	07/15/93	0.19±0.04	

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PAGE 1 OF 4 PAGE

TMA Eberline
Thermo Analytical Inc.

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ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

Bruce Coomer

7/28/93

DATE

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ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MSP Storage Piles
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
081



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

7/27/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
118-RF-020A	07/13-07/14/93	Rn-222	07/15/93	0.51±0.05	
118-RF-020A	07/13-07/14/93	Rn-222	07/15/93	0.47±0.05	QC
118-RF-021A	07/13-07/14/93	Rn-222	07/15/93	0.09±0.04	
118-RF-022A	07/13-07/14/93	Rn-222	07/15/93	0.10±0.04	
118-RF-023A	07/13-07/14/93	Rn-222	07/15/93	0.09±0.04	
118-RF-024A	07/13-07/14/93	Rn-222	07/15/93	0.08±0.04	
118-RF-025A	07/13-07/14/93	Rn-222	07/15/93	0.34±0.05	
118-RF-026A	07/13-07/14/93	Rn-222	07/15/93	0.22±0.04	
118-RF-027A	07/13-07/14/93	Rn-222	07/15/93	0.14±0.04	
118-RF-028A	07/13-07/14/93	Rn-222	07/15/93	0.12±0.04	
118-RF-029A	07/13-07/14/93	Rn-222	07/15/93	0.06±0.04	
118-RF-029A	07/13-07/14/93	Rn-222	07/15/93	0.09±0.04	
118-RF-030A	07/13-07/14/93	Rn-222	07/15/93	0.10±0.04	
118-RF-001B	07/13-07/14/93	Rn-222	07/16/93	0.08±0.04	
118-RF-002B	07/13-07/14/93	Rn-222	07/16/93	0.18±0.05	
118-RF-003B	07/13-07/14/93	Rn-222	07/16/93	0.07±0.04	
118-RF-004B	07/13-07/14/93	Rn-222	07/16/93	0.08±0.04	
118-RF-005B	07/13-07/14/93	Rn-222	07/16/93	0.13±0.04	
118-RF-006B	07/13-07/14/93	Rn-222	07/16/93	0.13±0.04	
118-RF-007B	07/13-07/14/93	Rn-222	07/16/93	0.13±0.05	

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PAGE 2 OF 4 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

DATE

Bruce Coomer 7/28/93

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MSP Storage Piles
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
081



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 7/27/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
118-RF-008B	07/13-07/14/93	Rn-222	07/16/93	0.09±0.04	
118-RF-009B	07/13-07/14/93	Rn-222	07/16/93	0.09±0.04	
118-RF-010B	07/13-07/14/93	Rn-222	07/16/93	0.13±0.05	
118-RF-011B	07/13-07/14/93	Rn-222	07/16/93	0.07±0.04	
118-RF-012B	07/13-07/14/93	Rn-222	07/16/93	0.11±0.04	
118-RF-013B	07/13-07/14/93	Rn-222	07/16/93	0.10±0.04	
118-RF-013B	07/13-07/14/93	Rn-222	07/16/93	0.10±0.04	QC
118-RF-014B	07/13-07/14/93	Rn-222	07/16/93	0.11±0.04	
118-RF-015B	07/13-07/14/93	Rn-222	07/16/93	0.12±0.04	
118-RF-016B	07/13-07/14/93	Rn-222	07/16/93	0.12±0.05	
118-RF-017B	07/13-07/14/93	Rn-222	07/16/93	0.07±0.04	
118-RF-018B	07/13-07/14/93	Rn-222	07/16/93	0.08±0.04	
118-RF-019B	07/13-07/14/93	Rn-222	07/16/93	0.08±0.04	
118-RF-020B	07/13-07/14/93	Rn-222	07/16/93	0.10±0.04	
118-RF-021B	07/13-07/14/93	Rn-222	07/16/93	0.09±0.04	
118-RF-022B	07/13-07/14/93	Rn-222	07/16/93	0.06±0.04	
118-RF-023B	07/13-07/14/93	Rn-222	07/16/93	0.08±0.04	
118-RF-024B	07/13-07/14/93	Rn-222	07/16/93	0.11±0.04	
118-RF-025B	07/13-07/14/93	Rn-222	07/16/93	0.08±0.04	
118-RF-026B	07/13-07/14/93	Rn-222	07/16/93	0.09±0.04	

REPORTED VIA TELEPHONE

PAGE 3 OF 4 PAGE

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Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

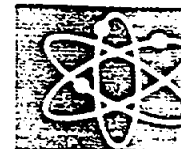
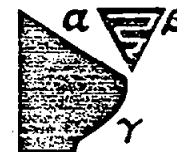
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DATE

Bruce Coomer 7/28/93

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

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Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
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REPORT OF ANALYSIS

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118-RF-028B	07/13-07/14/93	Rn-222	07/16/93	0.08±0.04	
118-RF-028B	07/13-07/14/93	Rn-222	07/16/93	0.09±0.04	QC
118-RF-029B	07/13-07/14/93	Rn-222	07/16/93	0.08±0.04	
118-RF-030B	07/13-07/14/93	Rn-222	07/16/93	0.10±0.05	
118-RF-031B	07/13-07/14/93	Rn-222	07/16/93	0.17±0.05	
118-RF-032B	07/13-07/14/93	Rn-222	07/16/93	0.16±0.05	
118-RF-033B	07/13-07/14/93	Rn-222	07/16/93	0.22±0.05	
118-RF-034B	07/13-07/14/93	Rn-222	07/16/93	0.14±0.04	
118-RF-035B	07/13-07/14/93	Rn-222	07/16/93	0.14±0.05	
118-RF-036B	07/13-07/14/93	Rn-222	07/16/93	0.09±0.04	
118-RF-037B	07/13-07/14/93	Rn-222	07/16/93	0.13±0.05	
118-RF-038B	07/13-07/14/93	Rn-222	07/16/93	0.11±0.04	
118-RF-039B	07/13-07/14/93	Rn-222	07/16/93	0.27±0.05	
118-RF-040B	07/13-07/14/93	Rn-222	07/16/93	0.13±0.04	
118-RF-040B	07/13-07/14/93	Rn-222	07/16/93	0.11±0.04	QC

REPORTED VIA TELEPHONE

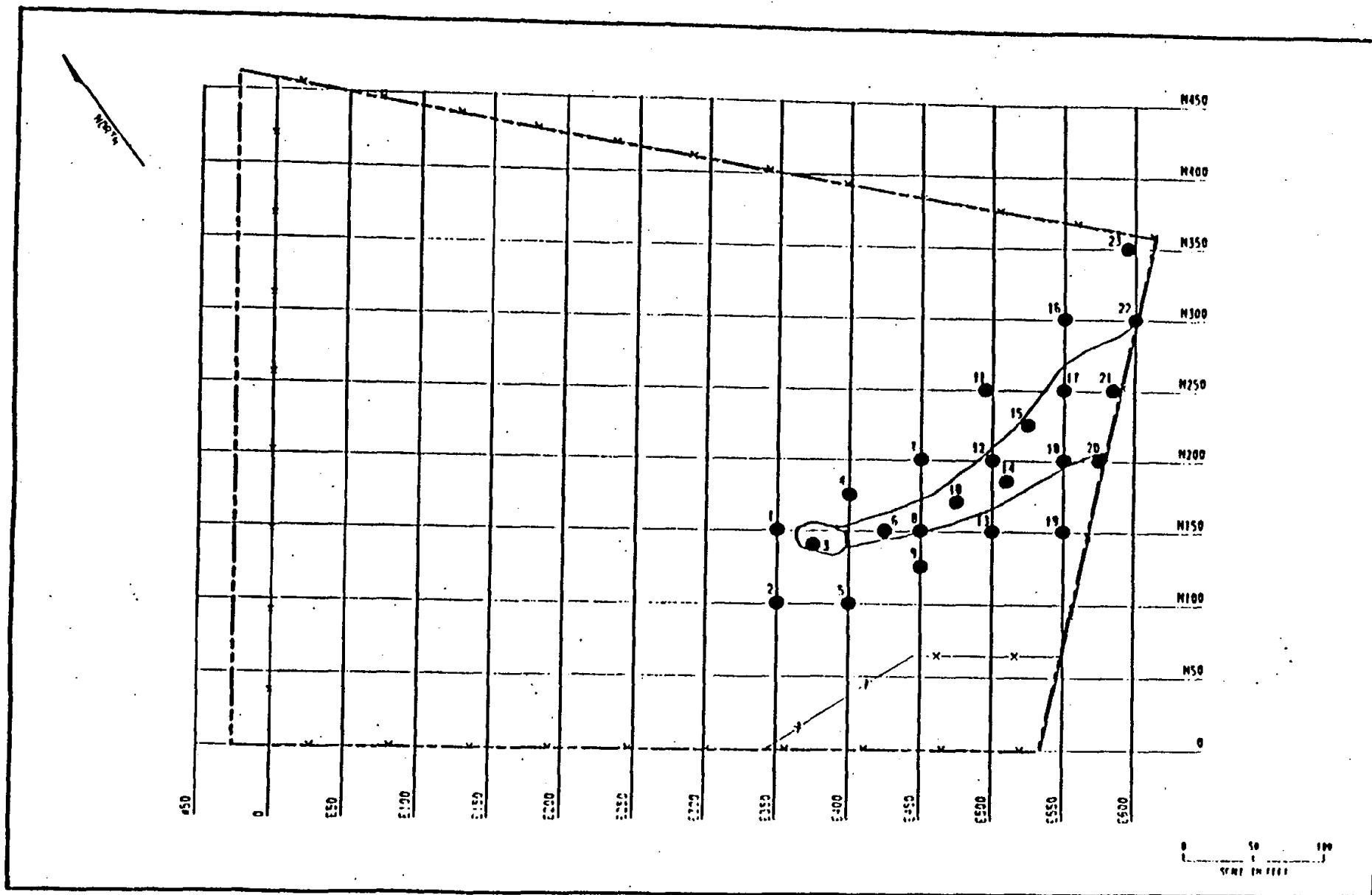
PAGE 4 OF 4 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

Bruce Coomer 7/28/93



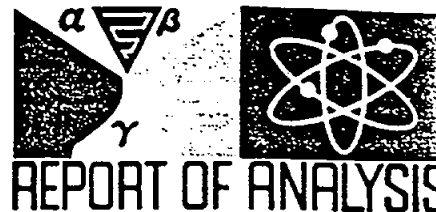
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RADON FLUX MONITORING STATIONS
AT THE NEW BRUNSWICK SITE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NBS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
095

D-15221



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

07/22/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
144-RF-001	07/13-07/14/93	Rn-222	07/16/93	0.17±0.05	
144-RF-002	07/13-07/14/93	Rn-222	07/16/93	0.24±0.05	
144-RF-003	07/13-07/14/93	Rn-222	07/16/93	0.24±0.05	
144-RF-004	07/13-07/14/93	Rn-222	07/16/93	0.21±0.05	
144-RF-005	07/13-07/14/93	Rn-222	07/16/93	0.17±0.05	
144-RF-006	07/13-07/14/93	Rn-222	07/16/93	0.66±0.06	
144-RF-007	07/13-07/14/93	Rn-222	07/16/93	2.31±0.09	
144-RF-007	07/13-07/14/93	Rn-222	07/16/93	2.30±0.09	QC
144-RF-008	07/13-07/14/93	Rn-222	07/16/93	0.83±0.07	
144-RF-009	07/13-07/14/93	Rn-222	07/16/93	0.22±0.05	
144-RF-010	07/13-07/14/93	Rn-222	07/16/93	0.09±0.05	
144-RF-011	07/13-07/14/93	Rn-222	07/16/93	1.12±0.07	
144-RF-012	07/13-07/14/93	Rn-222	07/16/93	0.98±0.07	
144-RF-013	07/13-07/14/93	Rn-222	07/16/93	2.30±0.09	
144-RF-014	07/13-07/14/93	Rn-222	07/16/93	0.18±0.05	
144-RF-015	07/13-07/14/93	Rn-222	07/16/93	11.31±0.18	
144-RF-015	07/13-07/14/93	Rn-222	07/16/93	11.13±0.18	QC
144-RF-016	07/13-07/14/93	Rn-222	07/16/93	0.18±0.05	
144-RF-017	07/13-07/14/93	Rn-222	07/16/93	2.30±0.09	
144-RF-018	07/13-07/14/93	Rn-222	07/16/93	0.31±0.05	

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PAGE 1 OF 2 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

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Bruce Coomer

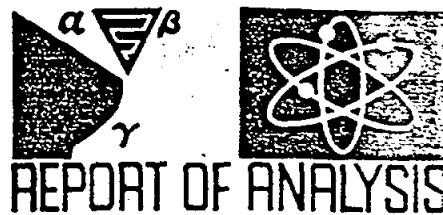
DATE:

7/23/93

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NBS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
095

D-15221



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

07/22/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
144-RF-019	07/13-07/14/93	Rn-222	07/16/93	0.66±0.06	
144-RF-020	07/13-07/14/93	Rn-222	07/16/93	0.26±0.05	
144-RF-021	07/13-07/14/93	Rn-222	07/16/93	0.30±0.05	
144-RF-022	07/13-07/14/93	Rn-222	07/16/93	0.30±0.05	
144-RF-023	07/13-07/14/93	Rn-222	07/16/93	0.41±0.06	
144-RF-023	07/13-07/14/93	Rn-222	07/16/93	0.39±0.06	QC

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PAGE 2 OF 2 PAGE

MA Eberline
Thermo Analytical Inc.

701 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

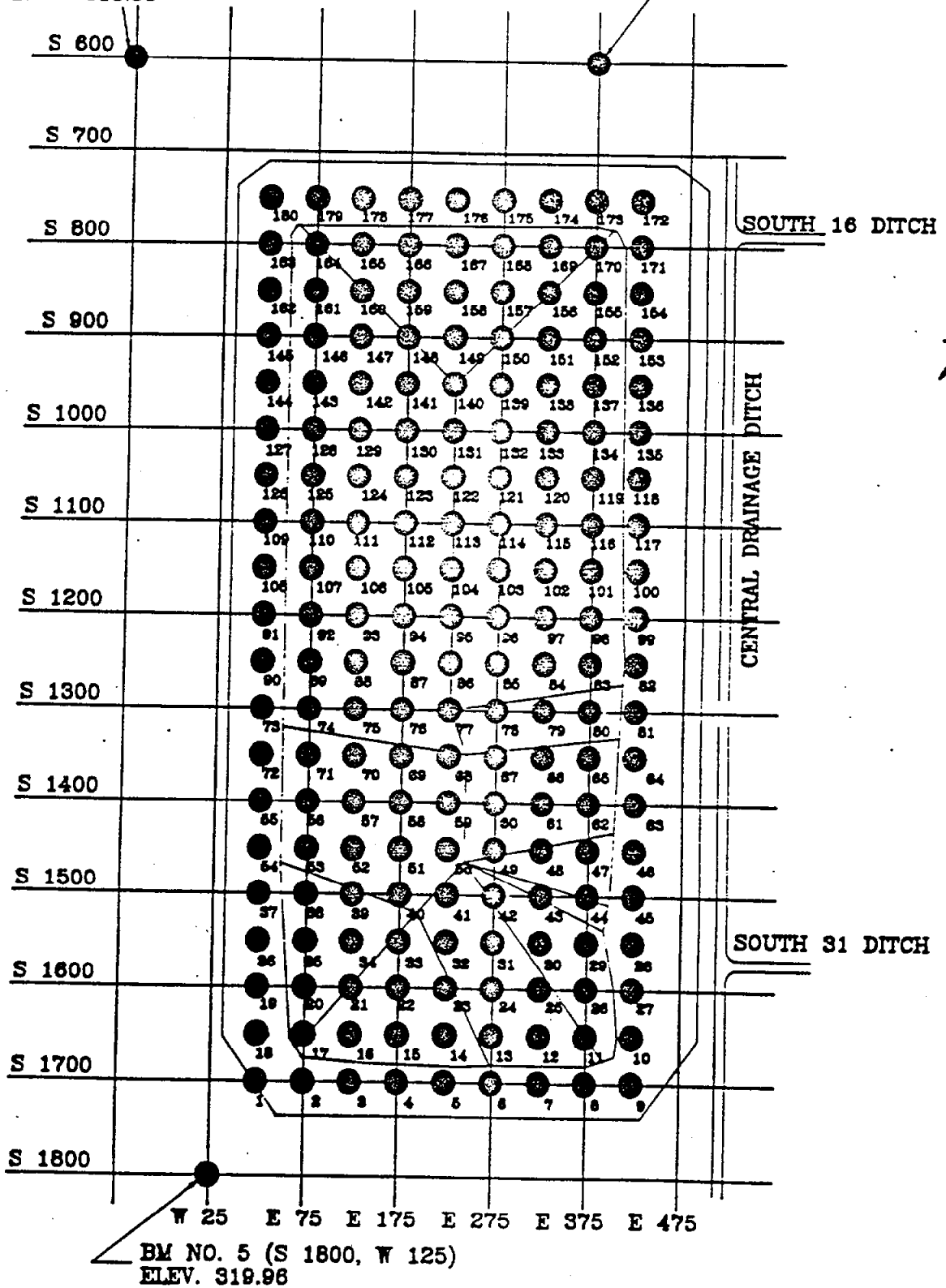
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DATE

Bruce Coomer 7/23/93

BM NO. 6 (S 600, W 125)
ELEV. 318.38

BM NO. 7 (S 600, E 375)
ELEV. 316.80



SURVEY GRID FOR THE NFSS WASTE CONTAINMENT STRUCTURE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
098



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER 158

SAMPLES RECEIVED

7/1/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-001	6/15-6/16/93	Rn-222	6/18/93	0.44±0.07
202-RF-002	6/15-6/16/93	Rn-222	6/18/93	2.04±0.09
202-RF-002	6/15-6/16/93	Rn-222	6/18/93	2.09±0.09 QC
202-RF-003	6/15-6/16/93	Rn-222	6/18/93	0.49±0.07
202-RF-004	6/15-6/16/93	Rn-222	6/18/93	0.71±0.08
202-RF-005	6/15-6/16/93	Rn-222	6/18/93	0.22±0.07
202-RF-006	6/15-6/16/93	Rn-222	6/18/93	0.29±0.07
202-RF-007	6/15-6/16/93	Rn-222	6/18/93	< 0.05
202-RF-008	6/15-6/16/93	Rn-222	6/18/93	0.26±0.07
202-RF-009	6/15-6/16/93	Rn-222	6/18/93	0.26±0.07
202-RF-010	6/15-6/16/93	Rn-222	6/18/93	0.52±0.07
202-RF-011	6/15-6/16/93	Rn-222	6/18/93	0.48±0.07
202-RF-011	6/15-6/16/93	Rn-222	6/18/93	0.64±0.08 QC
202-RF-012	6/15-6/16/93	Rn-222	6/18/93	0.55±0.07
202-RF-013	6/15-6/16/93	Rn-222	6/18/93	0.53±0.07
202-RF-014	6/15-6/16/93	Rn-222	6/18/93	0.29±0.07
202-RF-015	6/15-6/16/93	Rn-222	6/18/93	0.33±0.07
202-RF-016	6/15-6/16/93	Rn-222	6/18/93	0.52±0.07
202-RF-017	6/15-6/16/93	Rn-222	6/18/93	0.45±0.07
202-RF-018	6/15-6/16/93	Rn-222	6/18/93	0.44±0.07

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PAGE 1 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
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PHONE (505) 345-3461

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Bruce Coomer 7/17/93

DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
098



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER 158

SAMPLES RECEIVED

7/1/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pci/M ² /sec
202-RF-019	6/15-6/16/93	Rn-222	6/18/93	0.63±0.08
202-RF-020	6/15-6/16/93	Rn-222	6/18/93	0.32±0.07
202-RF-021	6/15-6/16/93	Rn-222	6/18/93	0.53±0.08
202-RF-022	6/15-6/16/93	Rn-222	6/18/93	0.57±0.08
202-RF-023	6/15-6/16/93	Rn-222	6/18/93	0.26±0.07
202-RF-024	6/15-6/16/93	Rn-222	6/18/93	0.31±0.07
202-RF-025	6/15-6/16/93	Rn-222	6/18/93	0.67±0.08
202-RF-026	6/15-6/16/93	Rn-222	6/18/93	1.01±0.08
202-RF-026	6/15-6/16/93	Rn-222	6/18/93	0.35±0.07 QC
202-RF-027	6/15-6/16/93	Rn-222	6/18/93	0.45±0.07
202-RF-027	6/15-6/16/93	Rn-222	6/18/93	0.40±0.07 QC
202-RF-028	6/15-6/16/93	Rn-222	6/18/93	0.33±0.07
202-RF-029	6/15-6/16/93	Rn-222	6/18/93	0.24±0.07
202-RF-030	6/15-6/16/93	Rn-222	6/18/93	0.49±0.07
202-RF-031	6/15-6/16/93	Rn-222	6/18/93	0.52±0.08
202-RF-032	6/15-6/16/93	Rn-222	6/18/93	0.83±0.08
202-RF-033	6/15-6/16/93	Rn-222	6/18/93	0.51±0.08
202-RF-034	6/15-6/16/93	Rn-222	6/17/93	0.33±0.06
202-RF-035	6/15-6/16/93	Rn-222	6/17/93	0.39±0.06
202-RF-036	6/15-6/16/93	Rn-222	6/17/93	0.23±0.06

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PAGE 2 OF 1 PAGE

TMA Eberline
Inmetro Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
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ONE (505) 345-3461

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Bruce Coomer 7/7/93

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
098



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER 158

SAMPLES RECEIVED

7/1/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-037	6/15-6/16/93	Rn-222	6/17/93	0.63±0.07
202-RF-038	6/15-6/16/93	Rn-222	6/17/93	0.33±0.06
202-RF-039	6/15-6/16/93	Rn-222	6/17/93	0.40±0.06
202-RF-040	6/15-6/16/93	Rn-222	6/17/93	0.29±0.06
202-RF-041	6/15-6/16/93	Rn-222	6/17/93	0.54±0.07
202-RF-042	6/15-6/16/93	Rn-222	6/17/93	0.80±0.07
202-RF-043	6/15-6/16/93	Rn-222	6/17/93	0.49±0.06
202-RF-044	6/15-6/16/93	Rn-222	6/17/93	0.33±0.06
202-RF-044	6/15-6/16/93	Rn-222	6/17/93	0.30±0.06 QC
202-RF-045	6/15-6/16/93	Rn-222	6/17/93	0.28±0.06
202-RF-045	6/15-6/16/93	Rn-222	6/17/93	0.24±0.06 QC
202-RF-046	6/15-6/16/93	Rn-222	6/17/93	0.23±0.06
202-RF-047	6/15-6/16/93	Rn-222	6/17/93	0.32±0.06
202-RF-048	6/15-6/16/93	Rn-222	6/17/93	0.61±0.07
202-RF-049	6/15-6/16/93	Rn-222	6/17/93	0.67±0.07
202-RF-050	6/15-6/16/93	Rn-222	6/17/93	0.19±0.06
202-RF-050	6/15-6/16/93	Rn-222	6/17/93	0.63±0.06 QC
202-RF-051	6/15-6/16/93	Rn-222	6/17/93	0.43±0.07
202-RF-052	6/15-6/16/93	Rn-222	6/17/93	0.34±0.06
202-RF-053	6/15-6/16/93	Rn-222	6/17/93	0.50±0.06

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PAGE 3 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

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PHONE (505) 345-3461

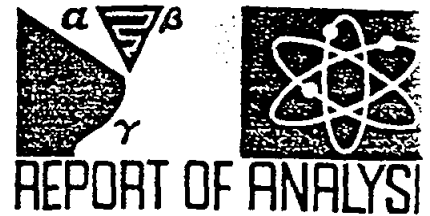
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Bruce Coomer 7/7/93

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
098



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER 158

SAMPLES RECEIVED

7/1/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-054	6/15-6/16/93	Rn-222	6/17/93	0.37±0.06
202-RF-055	6/15-6/16/93	Rn-222	6/17/93	0.52±0.07
202-RF-056	6/15-6/16/93	Rn-222	6/17/93	0.42±0.06
202-RF-057	6/15-6/16/93	Rn-222	6/17/93	0.26±0.06
202-RF-058	6/15-6/16/93	Rn-222	6/17/93	0.23±0.06
202-RF-059	6/15-6/16/93	Rn-222	6/17/93	0.21±0.06
202-RF-060	6/15-6/16/93	Rn-222	6/17/93	0.38±0.07
202-RF-061	6/15-6/16/93	Rn-222	6/17/93	0.36±0.06
202-RF-062	6/15-6/16/93	Rn-222	6/17/93	0.26±0.06
202-RF-063	6/15-6/16/93	Rn-222	6/17/93	0.34±0.06
202-RF-064	6/15-6/16/93	Rn-222	6/17/93	0.25±0.06
202-RF-065	6/15-6/16/93	Rn-222	6/17/93	0.29±0.06
202-RF-066	6/15-6/16/93	Rn-222	6/17/93	0.25±0.06
202-RF-066	6/15-6/16/93	Rn-222	6/17/93	0.18±0.06 QC
202-RF-067	6/15-6/16/93	Rn-222	6/17/93	0.18±0.06
202-RF-068	6/15-6/16/93	Rn-222	6/17/93	0.25±0.06
202-RF-068	6/15-6/16/93	Rn-222	6/17/93	0.23±0.06 QC
202-RF-069	6/15-6/16/93	Rn-222	6/17/93	0.98±0.07
202-RF-069	6/15-6/16/93	Rn-222	6/17/93	0.22±0.06 QC
202-RF-069	6/15-6/16/93	Rn-222	6/17/93	0.20±0.06 QC

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PAGE 4 OF 11 PAGE

TVA Eberline
Thermo Analytical Inc.

021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

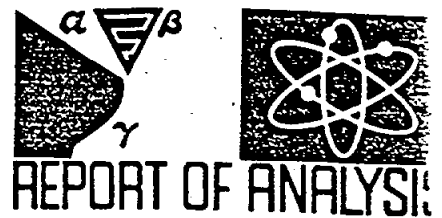
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DATE

Bruce Coomer 7/7/93

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
098



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER 158

SAMPLES RECEIVED

7/1/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-070	6/15-6/16/93	Rn-222	6/17/93	0.41±0.06
202-RF-071	6/15-6/16/93	Rn-222	6/17/93	0.43±0.06
202-RF-072	6/15-6/16/93	Rn-222	6/17/93	0.65±0.07
202-RF-073	6/15-6/16/93	Rn-222	6/17/93	0.72±0.07
202-RF-074	6/15-6/16/93	Rn-222	6/17/93	0.26±0.06
202-RF-075	6/15-6/16/93	Rn-222	6/17/93	0.36±0.07
202-RF-076	6/15-6/16/93	Rn-222	6/17/93	0.29±0.06
202-RF-077	6/15-6/16/93	Rn-222	6/17/93	0.26±0.06
202-RF-078	6/15-6/16/93	Rn-222	6/17/93	0.44±0.06
202-RF-078	6/15-6/16/93	Rn-222	6/17/93	0.19±0.06 QC
202-RF-079	6/15-6/16/93	Rn-222	6/17/93	0.39±0.06
202-RF-080	6/15-6/16/93	Rn-222	6/17/93	0.44±0.06
202-RF-081	6/15-6/16/93	Rn-222	6/17/93	0.25±0.06
202-RF-082	6/15-6/16/93	Rn-222	6/17/93	0.17±0.06
202-RF-083	6/15-6/16/93	Rn-222	6/17/93	0.95±0.07
202-RF-083	6/15-6/16/93	Rn-222	6/17/93	0.38±0.06 QC
202-RF-084	6/15-6/16/93	Rn-222	6/17/93	0.37±0.06
202-RF-085	6/15-6/16/93	Rn-222	6/17/93	0.41±0.07
202-RF-086	6/15-6/16/93	Rn-222	6/17/93	0.30±0.06
202-RF-087	6/15-6/16/93	Rn-222	6/17/93	0.37±0.07

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PAGE 5 OF 11 PAGE

MA Eberline
Thermo Analytical Inc.

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Bruce Coomer 7/7/93

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
098



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER 158

SAMPLES RECEIVED

7/1/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-088	6/15-6/16/93	Rn-222	6/17/93	0.28±0.06
202-RF-088	6/15-6/16/93	Rn-222	6/17/93	0.26±0.06 QC
202-RF-089	6/15-6/16/93	Rn-222	6/17/93	0.46±0.07
202-RF-090	6/15-6/16/93	Rn-222	6/17/93	0.20±0.06
202-RF-091	6/15-6/16/93	Rn-222	6/17/93	0.26±0.06
202-RF-092	6/15-6/16/93	Rn-222	6/17/93	0.47±0.06
202-RF-093	6/15-6/16/93	Rn-222	6/17/93	0.40±0.06
202-RF-094	6/15-6/16/93	Rn-222	6/17/93	0.41±0.06
202-RF-095	6/15-6/16/93	Rn-222	6/17/93	0.17±0.06
202-RF-096	6/15-6/16/93	Rn-222	6/17/93	0.26±0.06
202-RF-097	6/15-6/16/93	Rn-222	6/17/93	0.30±0.07
202-RF-098	6/15-6/16/93	Rn-222	6/17/93	0.26±0.06
202-RF-099	6/16-6/17/93	Rn-222	6/18/93	1.52±0.08
202-RF-100	6/16-6/17/93	Rn-222	6/18/93	0.77±0.07
202-RF-101	6/16-6/17/93	Rn-222	6/18/93	1.95±0.08
202-RF-102	6/16-6/17/93	Rn-222	6/18/93	0.59±0.07
202-RF-103	6/16-6/17/93	Rn-222	6/18/93	0.74±0.07
202-RF-104	6/16-6/17/93	Rn-222	6/18/93	0.56±0.07
202-RF-104	6/16-6/17/93	Rn-222	6/18/93	0.65±0.07 QC
202-RF-105	6/16-6/17/93	Rn-222	6/18/93	0.84±0.07

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PAGE 6 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

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PHONE (505) 345-3461

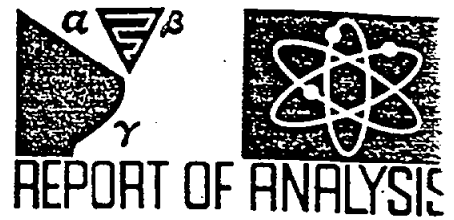
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Bruce Coomer 7/7/93

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
098



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER 158

SAMPLES RECEIVED

7/1/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-106	6/16-6/17/93	Rn-222	6/18/93	0.59±0.07
202-RF-107	6/16-6/17/93	Rn-222	6/18/93	1.17±0.08
202-RF-108	6/16-6/17/93	Rn-222	6/18/93	0.92±0.07
202-RF-109	6/16-6/17/93	Rn-222	6/18/93	0.79±0.07
202-RF-110	6/16-6/17/93	Rn-222	6/18/93	1.20±0.08
202-RF-111	6/16-6/17/93	Rn-222	6/18/93	1.47±0.08
202-RF-112	6/16-6/17/93	Rn-222	6/18/93	0.86±0.07
202-RF-113	6/16-6/17/93	Rn-222	6/18/93	1.16±0.08
202-RF-114	6/16-6/17/93	Rn-222	6/18/93	0.66±0.07
202-RF-115	6/16-6/17/93	Rn-222	6/18/93	0.76±0.07
202-RF-116	6/16-6/17/93	Rn-222	6/18/93	1.54±0.08
202-RF-117	6/16-6/17/93	Rn-222	6/18/93	0.94±0.07
202-RF-118	6/16-6/17/93	Rn-222	6/18/93	1.31±0.08
202-RF-119	6/16-6/17/93	Rn-222	6/18/93	0.86±0.07
202-RF-120	6/16-6/17/93	Rn-222	6/18/93	0.63±0.07
202-RF-121	6/16-6/17/93	Rn-222	6/18/93	0.95±0.07
202-RF-122	6/16-6/17/93	Rn-222	6/18/93	1.27±0.08
202-RF-123	6/16-6/17/93	Rn-222	6/18/93	0.73±0.07
202-RF-124	6/16-6/17/93	Rn-222	6/18/93	1.04±0.07
202-RF-125	6/16-6/17/93	Rn-222	6/18/93	0.92±0.07

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TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

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DATE

Bruce Coomer 7/7/93

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
098



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER 158

SAMPLES RECEIVED

7/1/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-126	6/16-6/17/93	Rn-222	6/18/93	0.57±0.07
202-RF-126	6/16-6/17/93	Rn-222	6/18/93	0.79±0.07 QC
202-RF-127	6/16-6/17/93	Rn-222	6/18/93	1.37±0.08
202-RF-128	6/16-6/17/93	Rn-222	6/18/93	0.80±0.07
202-RF-128	6/16-6/17/93	Rn-222	6/18/93	1.06±0.07 QC
202-RF-129	6/16-6/17/93	Rn-222	6/18/93	0.80±0.07
202-RF-130	6/16-6/17/93	Rn-222	6/18/93	0.52±0.07
202-RF-131	6/16-6/17/93	Rn-222	6/18/93	1.00±0.07
202-RF-132	6/16-6/17/93	Rn-222	6/18/93	0.76±0.07
202-RF-133	6/16-6/17/93	Rn-222	6/19/93	0.49±0.07
202-RF-134	6/16-6/17/93	Rn-222	6/19/93	0.92±0.08
202-RF-135	6/16-6/17/93	Rn-222	6/19/93	1.07±0.08
202-RF-136	6/16-6/17/93	Rn-222	6/19/93	0.72±0.08
202-RF-137	6/16-6/17/93	Rn-222	6/19/93	1.06±0.08
202-RF-138	6/16-6/17/93	Rn-222	6/19/93	1.40±0.08
202-RF-139	6/16-6/17/93	Rn-222	6/19/93	0.64±0.08
202-RF-140	6/16-6/17/93	Rn-222	6/19/93	0.61±0.07
202-RF-141	6/16-6/17/93	Rn-222	6/19/93	1.30±0.08
202-RF-142	6/16-6/17/93	Rn-222	6/19/93	0.39±0.07
202-RF-143	6/16-6/17/93	Rn-222	6/19/93	0.93±0.08

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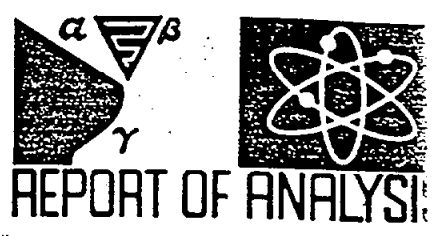
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Bruce Coomer 7/7/93

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
098



TYPE OF ANALYSIS **Radon Flux** CUSTOMER ORDER NUMBER **158** SAMPLES RECEIVED **7/1/93**

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-144	6/16-6/17/93	Rn-222	6/19/93	0.63±0.08
202-RF-144	6/16-6/17/93	Rn-222	6/19/93	0.79±0.08 QC
202-RF-145	6/16-6/17/93	Rn-222	6/19/93	0.62±0.08
202-RF-146	6/16-6/17/93	Rn-222	6/19/93	0.78±0.08
202-RF-147	6/16-6/17/93	Rn-222	6/19/93	0.58±0.07
202-RF-148	6/16-6/17/93	Rn-222	6/19/93	0.67±0.08
202-RF-148	6/16-6/17/93	Rn-222	6/19/93	0.60±0.08 QC
202-RF-148	6/16-6/17/93	Rn-222	6/19/93	0.58±0.07 QC
202-RF-149	6/16-6/17/93	Rn-222	6/19/93	0.51±0.07
202-RF-150	6/16-6/17/93	Rn-222	6/19/93	0.54±0.07
202-RF-151	6/16-6/17/93	Rn-222	6/19/93	0.67±0.08
202-RF-152	6/16-6/17/93	Rn-222	6/19/93	0.78±0.08
202-RF-153	6/16-6/17/93	Rn-222	6/19/93	0.29±0.07
202-RF-154	6/16-6/17/93	Rn-222	6/19/93	0.55±0.07
202-RF-155	6/16-6/17/93	Rn-222	6/19/93	0.36±0.07
202-RF-156	6/16-6/17/93	Rn-222	6/19/93	0.40±0.07
202-RF-157	6/16-6/17/92	Rn-222	6/19/93	0.25±0.07
202-RF-158	6/16-6/17/93	Rn-222	6/19/93	0.69±0.08
202-RF-159	6/16-6/17/93	Rn-222	6/19/93	0.59±0.08
202-RF-160	6/16-6/17/93	Rn-222	6/19/93	0.56±0.08

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Bruce Coomer 7/7/93

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Bruce Coomer
P.O. Box 350
Oak Ridge, TN. 37831-0350
098



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER 158

SAMPLES RECEIVED

7/1/93

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-160	6/16-6/17/93	Rn-222	6/19/93	0.73±0.08 QC
202-RF-161	6/16-6/17/93	Rn-222	6/19/93	0.84±0.08
202-RF-162	6/16-6/17/93	Rn-222	6/19/93	0.52±0.07
202-RF-163	6/16-6/17/93	Rn-222	6/19/93	0.73±0.08
202-RF-164	6/16-6/17/93	Rn-222	6/19/93	0.45±0.07
202-RF-164	6/16-6/17/93	Rn-222	6/19/93	0.52±0.08 QC
202-RF-165	6/16-6/17/93	Rn-222	6/18/93	0.52±0.07
202-RF-165	6/16-6/17/93	Rn-222	6/18/93	0.87±0.07 QC
202-RF-166	6/16-6/17/93	Rn-222	6/18/93	0.82±0.07
202-RF-167	6/16-6/17/93	Rn-222	6/18/93	1.05±0.07
202-RF-168	6/16-6/17/93	Rn-222	6/18/93	0.52±0.06
202-RF-169	6/16-6/17/93	Rn-222	6/18/93	0.44±0.06
202-RF-169	6/16-6/17/93	Rn-222	6/18/93	0.54±0.07 QC
202-RF-170	6/16-6/17/93	Rn-222	6/18/93	0.82±0.07
202-RF-171	6/16-6/17/93	Rn-222	6/18/93	0.66±0.07
202-RF-171	6/16-6/17/93	Rn-222	6/18/93	0.69±0.07 QC
202-RF-172	6/16-6/17/93	Rn-222	6/18/93	0.58±0.07
202-RF-173	6/16-6/17/93	Rn-222	6/18/93	0.70±0.07
202-RF-174	6/16-6/17/93	Rn-222	6/18/93	0.58±0.07
202-RF-175	6/16-6/17/93	Rn-222	6/18/93	0.73±0.07

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