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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

NOV 30 1982

ATTACHED ADDRESSEES

Enclosed is a report of my trip to West Chicago on November 17, 1982.
If there are any questions, please advise me by return mail.

Sincerely,

Donald B. Mausshardt
Presiding Officer

Enclosures: As stated

DISTRIBUTION LIST

NOV 30 1982

Kerr-McGee -- Docket No. 40-2061

The Honorab'le A. E. Rennels
Mayor of the City of West Chicago
475 Main Street
West Chicago, Illinois 60185

Ms. Anne Rapkin
Attorney General's Office
Environmental Control Division
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Chicago, Illinois 60601

Illinois Environmental Protection Agency
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Division of Land/Noise
Pollution Control
2200 Churchill Road
Springfield, Illinois 62706

Illinois Environmental Protection Agency
ATTN: Mr. William C. Child, Manager
Land Field Operations Section
Division of Land/Noise Pollution Control
2200 Churchill Road
Springfield, Illinois 62706

Illinois Environmental Protection Agency
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2200 Churchill Road
Springfield, Illinois 62706

U.S. Environmental Protection Agency
Region V
ATTN: Mr. William D. Franz, Project Manager
Environmental Impact Review Staff
230 South Dearborn Street
Chicago, Illinois 60604

U.S. Environmental Protection Agency
Region V
ATTN: Mr. Larry Jensen
230 South Dearborn Street, 5 AHWM
Chicago, Illinois 60604

Illinois Department of Public Health
ATTN: Mr. Gary Wright
Division of Nuclear Safety
535 West Jefferson
Springfield, Illinois 62721

Paul Bollwerk
Office of General Counsel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Illinois State Geological Survey
ATTN: Mr. Keros Cartwright
Natural Resources Building
Urbana, Illinois 61801

Radiation Safety Services, Inc.
ATTN: Dr. Eli A. Port
827 Simpson Street
Evanston, Illinois 60201

Kerr-McGee Chemical Corporation
ATTN: Mr. I. L. Denny
Kerr-McGee Center
Oklahoma City, Oklahoma 73125

Argonne National Laboratory
ATTN: P. Chae
Building 214
Argonne, Illinois 60439

U.S. Nuclear Regulatory Commission
Region III
ATTN: Carl J. Paperiello, Chief
Emergency Preparedness and
Program Support Branch
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Shaw, Pittman, Potts & Trowbridge
ATTN: Mr. John Rhineland
1800 M Street, N.W.
Washington, D.C. 20036

West Chicago Public Library
ATTN: Ms. Kay Sauer, Head Librarian
332 E. Washington Street
West Chicago, Illinois 60185

Mr. Alexander Williams
U.S. Environmental Protection Agency
Mail Stop A-104
Washington, D.C. 20460

Mr. Harold Spelman
200 High Street
P.O. Box 190
West Chicago, Illinois 60185

Robert L. Fonner
Office of Executive Legal Director
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

NOV 30 1982

Kerr-McGee Hearing Service List

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Secretary
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

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Docketing and Service Section
Office of the Secretary
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Robert L. Fonner, ELD

Donald B. Mausshardt



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

NOV 30 1982

MEMORANDUM FOR THE FILE

FROM: Donald B. Mausshardt, Presiding Officer

SUBJECT: SITE VISIT TO KERR-McGEE CORPORATION, WEST CHICAGO,
ILLINOIS - NOVEMBER 17, 1982

The following were present at the site visit of the Kerr-McGee facility at West Chicago, Illinois, on November 17, 1982:

Donald B. Mausshardt, Presiding Officer, Nuclear Regulatory Commission
Robert Fonner, Legal Advisor to Presiding Officer, NRC
William A. Nixon, Project Manager, NRC
Carl Paperiello, Region III, NRC
Bruce Kelsey, Attorney representing City of West Chicago
Robert Zahler, Shaw, Pittman, Potts & Trowbridge
John C. Berghoff, Jr., Chadwell & Kayser (Chicago), counsel
for Kerr-McGee
I. L. Denny, Kerr-McGee
Scott Munson, Kerr-McGee

The purpose of the visit was to observe the facilities and especially those identified in Amendments 5 and 6 to the Kerr-McGee license. A second reason was to discuss informal proceeding to be followed in the resolution of the dispute over Amendments 5 and 6 to the Kerr-McGee license.

The site visit was as follows: (1) walk-through the disposal area, (2) visit buildings covered by Amendments 5 and 6 and (3) meet with the principals to review the procedures.

The meeting to review the procedures addressed the following subjects:

- o Schedule - It was understood that the City would file with the Presiding Officer a response to the November 1 Commission Order (Docket #40-2061) concerning specific objection to those items covered in Amendment 6. Specific issues to Amendment 5 will also be included.
- o The Kerr-McGee Corporation would file a list of documents which identify information they consider relevant to Amendments 5 and 6 by December 1, 1982.

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- o Both parties will provide a factual statement of the issues as they see them and what they would consider a satisfactory resolution to the matter by December 22, 1982. All parties agreed.
- o The City feels their issues revolve about:
 - (1) The piecemeal segmentation of this project.
 - (2) The uncertainty as to demonstrating the safety of demolition process.
 - (3) The cumulative effect of exposures both on and off site.

I questioned the City representative, Mr. Kelsey, about the Kerr-McGee filing for a building permit for the incinerator and whether this resolved that specific issue; his response was affirmative.

I questioned the City representative about their concern over the removal of building #16; he agreed that it was a very minor thing.

Mr. Kelsey did question what NRC procedure and authority was being used for the hearing. Our response was tied to the August 6 Commission Order. The City may challenge NRC to define an informal hearing.

Copies of telephone calls to arrange the visit were distributed. It was noted that all further records of telephone calls would be distributed to the service list.



Donald B. Mausshardt
Presiding Officer

SHAW, PITTMAN, POTTS & TROWBRIDGE

A PARTNERSHIP OF PROFESSIONAL CORPORATIONS

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WRITER'S DIRECT DIAL NUMBER

(202) 822-1043

December 1, 1982

By Hand-Delivery

Mr. Donald B. Mausshardt
Deputy Director
Office of Nuclear Material
Safety and Safeguards
U.S. Nuclear Regulatory
Commission
7915 Eastern Avenue
Silver Spring, Maryland

Re: Kerr-McGee Chemical Corporation
(West Chicago): NRC Hearing #2,
License Amendments Nos. 5 & 6

Dear Mr. Mausshardt:

We have enclosed a compilation of the documents which we believe should be designated as the initial record in this hearing. Most of these documents are already on file with the Commission. We do not intend this to be an exclusive list of the documents, however, and we intend to submit further relevant documents in the near future. We also note that we incorporate by reference into this compilation the Stabilization Plan and the Health Physics Plan which are on file with the Commission.

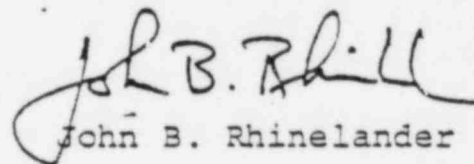
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Mr. Donald B. Mausshardt
Page Two
December 1, 1982

The first volume of the enclosed documents contains those documents which we consider to be most directly related to the upcoming hearing. The remaining volumes contain the other documents which are of relevance but which are not focused specifically on the hearing.

We are sending a copy of the letter, and enclosures, by first class mail to Harold J. Spelman, counsel for the City of Chicago.

Sincerely,


John B. Rhineland

JBR:jmb

Enclosures

cc: Harold J. Spelman, Esq.
John C. Berghoff, Jr., Esq.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DEC 2 1982

Mr. John B. Rhinelander
Shaw, Pittman, Potts & Trowbridge
1800 M Street, N.W.
Washington, D.C. 20036

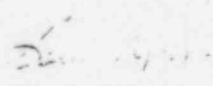
Re: Kerr-McGee Chemical Corporation
(West Chicago): NRC Hearing #2,
License Amendments Nos. 5 & 6

Dear Mr. Rhinelander:

We are in receipt of the documents designated as the initial record in NRC Hearing #2, hand-delivered to our office December 1, 1982. We understand that additional documents will be sent us as they are generated.

We note a copy of your letter and all enclosures have been sent to Mr. Spelman.

Sincerely,


Donald B. Mausshardt
Deputy Director
Office of Nuclear Material Safety
and Safeguards

cc: Harold J. Spelman, Esq.
John C. Berghoff, Jr., Esq.

~~8212100496~~

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LAW OFFICES OF

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Harold J. Spelman and Associates

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200 HIGH STREET
P O Box 190
WEST CHICAGO, IL 60185

December 16, 1982

Mr. Donald B. Mausshardt
Presiding Officer
United States Nuclear
Regulatory Commission
Washington, D. C. 20555

RE: Pending License Amendment
Request by Kerr-McGee for
West Chicago Facility

Dear Mr. Mausshardt:

The City is in receipt of your November 30, 1982 memorandum documenting your visit to the Kerr-McGee site in West Chicago. We note that the schedule set out in that memorandum requires the City and Kerr-McGee to file responses on December 1, 1982 and on December 22, 1982 with your office regarding the pending request for Amendments 5 and 6 to Kerr-McGee's material license. The City complied with the December 1, 1982 deadline by its response dated November 29, 1982. The City received copies of the documents submitted by Kerr-McGee (as its response) on December 6, 1982. As you know, these documents contain several hundred pages. Many of the technical sections contain data that the City has not previously received.

Because of its unfamiliarity with some of Kerr-McGee's technical submissions and the need for consultation with its radiological health expert, the City hereby requests a thirty day extension of time in which to file its statement of issues in this matter. The City is concerned that the proposed control procedures for demolition are specifically identified and that there is up-to-date information on the safety of such procedures as well as relevant information on the planned-monitoring of demolition activities. As stated in the City's response of November 29, 1982, the City is especially concerned about the placement and operation of air monitors on the site and of water runoff. If the technical data recently submitted by Kerr-McGee does not contain adequate information on these points to enable the City's consulting experts to evaluate the proposed demolition activities, we will again request data through your office on these matters.

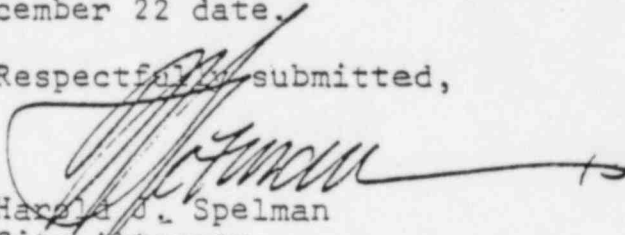
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Mr. Donald B. Mausshardt
RE: Pending License Amendment
Request by Kerr-McGee for
West Chicago Facility
December 16, 1982
Page Two

As with the City's previous submissions to NRC in this matter, the City hereby reserves the right to question and object to the legality of the proposed hearing procedures. We reiterate and incorporate herein the legal objections presented in our previous responses to the "informal" hearing proposed in this case.

Thank you for your consideration of the City's request for extension of time beyond the December 22 date.

Respectfully submitted,



Harold J. Spelman
City Attorney
City of West Chicago, Illinois

HJS:PLF:bao
cc: Attached Service List

SERVICE LIST

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December 21, 1982

By Hand-Delivery

Mr. Donald B. Mausshardt
Deputy Director
Office of Nuclear Material
Safety and Safeguards
U.S. Nuclear Regulatory Commission
7915 Eastern Avenue
Silver Spring, Maryland 20910

Re: Kerr-McGee Chemical Corporation (West
Chicago Rare Earths Facility), Docket
No. 40-2061, License Amendment Nos. 5 and 6

Dear Mr. Mausshardt:

We have received a copy of Mr. Spelman's letter of December 16, 1982 (copy enclosed), requesting an extension of 30 days within which to file West Chicago's factual statement of relevant issues in the above-referenced proceeding. While Kerr-McGee Chemical Corporation ("Kerr-McGee") does not oppose granting West Chicago a reasonable extension of time within which to make its filing, Kerr-McGee is concerned that this "informal hearing" not be unduly delayed. Since West Chicago already has had the documentary material which forms the basis of its request for 20 days, we believe an extension of time for some shorter period might be sufficient to permit West Chicago the time it needs to carefully review the documentary material.

8301140508

SHAW, PITTMAN, POTTS & TROWBRIDGE

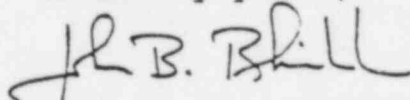
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Mr. Donald B. Mausshardt
December 21, 1982
Page Two

The filings due of December 22 were to be simultaneous, and Kerr-McGee still believes this procedure to be appropriate. Therefore, if West Chicago is granted any additional time, Kerr-McGee requests that it too be provided a similar extension, and that both West Chicago and Kerr-McGee be notified by telephone of the new date. We will be prepared to submit our filing on any date you set.

Despite the delay resulting from West Chicago's request, it is Kerr-McGee's hope that you would be in a position to issue your decision in this matter on the schedule initially discussed at the November 17 meeting -- i.e., late January or early February, 1983.

Sincerely yours,


John B. Rhinelander



KERR-MCGEE CORPORATION

KERR-MCGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

ENVIRONMENT AND HEALTH MANAGEMENT DIVISION

CERTIFIED MAIL RETURN RECEIPT REQUESTED

November 5, 1982

Mr. W. A. Nixon
Uranium Process Licensing Section
Uranium Fuel Licensing Branch
Division of Fuel Cycle & Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: License No. STA-583

Dear Mr. Nixon

Enclosed are results of daily lead-212 determinations for environmental air monitoring stations of Kerr-McGee Chemical Corporation's Rare Earths Facility in West Chicago, Illinois. The accompanying sketch shows the location of each sampler station.

You will note sampling did not all begin on the same day nor did it begin with initial establishment of air sampling locations. Initial samplers (MSA battery driven) had to be operated for a week to obtain detectable particulate loadings. We could not quantify Pb-212 for that time period. With the acquisitions of higher volume samplers (Eberline) and installation of power lines to stations, we are now able to quantify daily samples for Pb-212.

Data for each station have been averaged and airborne Pb-212 concentrations, with one exception, are within levels specified in Appendix B, Table II, of 10 CFR Part 20. We suspect elevated levels at Station 6 are related to topographical features. This station is located in a slight depression immediately south of the tailings pile and east of the railroad embankment. The station elevation is 736 feet whereas the embankment elevation is 747 feet. During periods of calm winds or inversions, radon-220 emanating from the pile could collect in this shallow depression, resulting in the elevated concentration of Pb-212. We have begun a special sampling effort to further characterize local influences.

8301110003

W. A. Nixon
License STA-583
November 5, 1982

In that our stations 3, 7, 8 and 9 are located generally in areas where the U.S. Environmental Protection Agency located their stations referred to in the report transmitted September 29, 1982 from V. V. Adamkus, EPA Region V Administrator to J. L. Rainey, President Kerr-McGee Chemical Corporation, we believe conclusions stated in Mr. Adamkus', transmittal letter are erroneous in regard to radon-220 daughters. Further, conclusions in the report described above seem at variance with statements by Mr. Adamkus (see p. 29, "Ambient Monitoring of Airborne Radioactivity Associated with Thorium Wastes Near the Kerr-McGee, West Chicago, Illinois, Facility", U.S. Environmental Protection Agency Region V, May 1982).

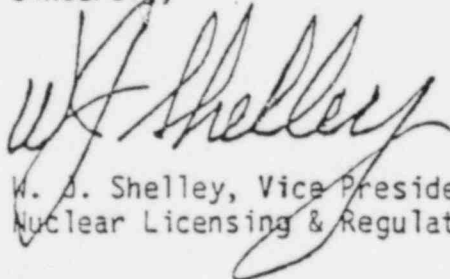
Specifically, the report states average concentrations of radon-220 daughters measured were 177 and 237 pCi/m³ at the fencelines, 43 pCi/m³ in the nearly residential community, and 23 pCi/m³ along Kress Creek. We are puzzled as to how Mr. Adamkus arrives at the conclusion that "... radon-220 daughters ... under the appropriate atmospheric conditions ... can rise to several times the maximum permissible levels for lead-212 listed for unrestricted areas in 10 CFR 20, Appendix B". The average concentration reported by EPA for the nearby residential community was 43 pCi/m³ which is about 14 times less than the 600 pCi/m³ limit in Appendix B. The suggestion that atmospheric conditions could further enhance Pb-212 concentrations by a factor of 14 seems extreme in our experience.

In this regard, it is noteworthy the report presents both arithmetic and geometric means for air sampler data. Geometric means for the various locations are substantially lower than arithmetic means and quite likely are preferred values since the data are probably log-normal. On the basis of the geometric mean of 14 pCi/m³ for Pb-212 concentrations in the nearby residential community, the level is some 43 times less than the 10 CFR Part 20 limit of 600 pCi/m³.

Mr. Adamkus further states in his transmittal letter "...that transport may carry the contaminants as far as the residential homes around Kress Creek...". Again, the report indicates the arithmetic mean for Pb-212 concentrations along Kress Creek was 23 pCi/m³ and the geometric mean was 10 pCi/m³. These values are 26 and 60 times less than the 10 CFR Part 20 limits. Further, the report concludes that "Kress Creek was not a significant radon-220 daughter source".

After studying the results attached related to our sampling efforts, please let me know if we can provide additional information. These data are of course available for study by your Region III staff at any time.

Sincerely,

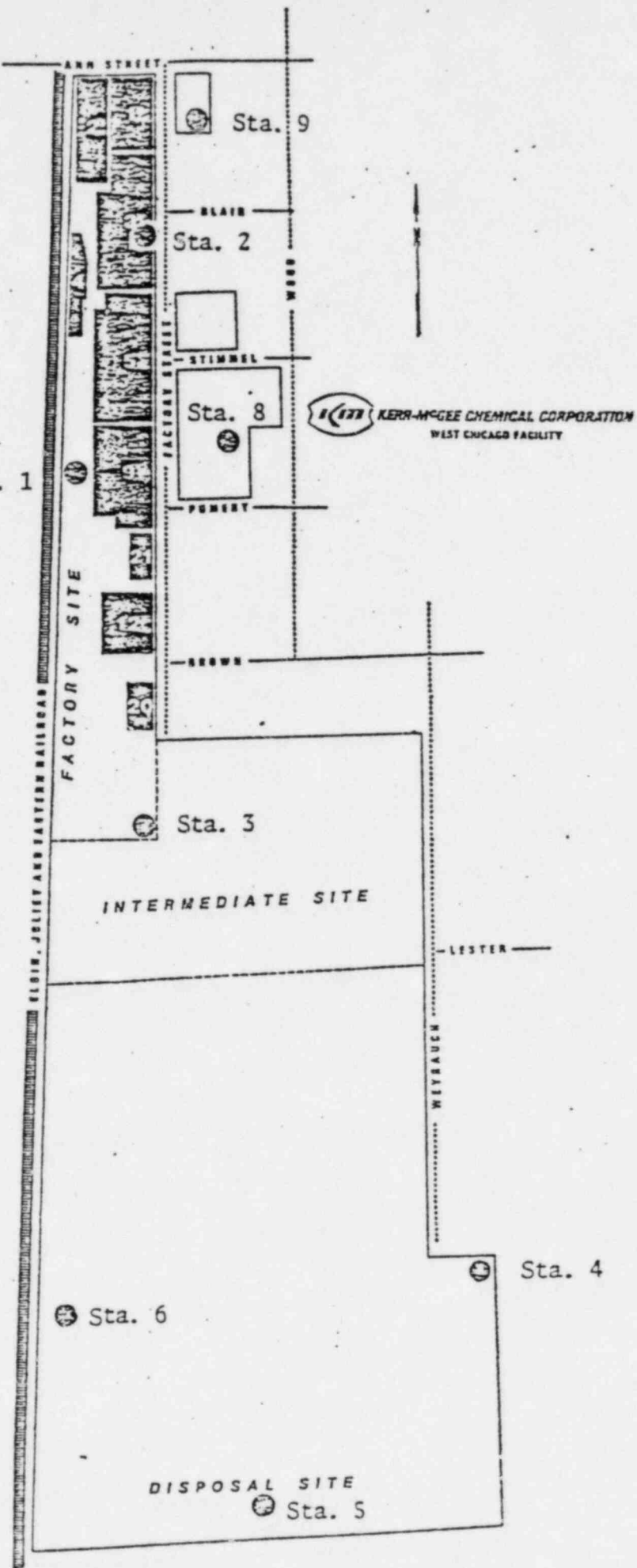


W. J. Shelley, Vice President
Nuclear Licensing & Regulation

TLB/ba

● Sta. 7

Sta. 1



Sta. 9

Sta. 2

Sta. 8

Sta. 3

INTERMEDIATE SITE

Sta. 4

Sta. 6

DISPOSAL SITE
Sta. 5

ENVIRONMENTAL AIR STATIONS

SUMMARY
Lead-212 Concentrations
Kerr-McGee Chemical Corporation
West Chicago, Illinois Facility

Station	Sampling Dates	Number of Data Points	Average Lead-212 Concentration (uCi/ml)
1	11/24/81 - 9/16/82	199	1.0×10^{-10}
2	11/3/81 - 9/16/82	207	7.6×10^{-11}
3	11/2/81 - 9/16/82	208	2.3×10^{-10}
4	11/2/81 - 9/16/82	219	1.6×10^{-10}
5	11/4/81 - 9/16/82	64	5.0×10^{-10}
6	11/6/81 - 9/16/82	60	2.2×10^{-9}
7	11/2/81 - 9/16/82	216	2.8×10^{-11}
8	11/2/81 - 9/16/82	211	6.2×10^{-11}
9	2/24/82 - 9/16/82	141	4.8×10^{-11}

~~830110005~~

Environmental Monitoring Station Summary Log

Station 1

Page

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
7-30-82	9.7×10^{-11}	7-30	1.7×10^{-14}	8-1	
8-2-82	1.6×10^{-10}	8-2	5.7×10^{-15}	8-11	
8-3-82	1.8×10^{-10}	8-3	3.4×10^{-14}	8-11	
8-4-82	3.9×10^{-11}	8-4	2.0×10^{-14}	8-11	
8-5-82	1.6×10^{-11}	8-5	2.0×10^{-14}	8-11	
8-6-82	3.2×10^{-11}	8-6	3.4×10^{-14}	8-11	
8-9-82	3.6×10^{-11}	8-9	2.1×10^{-14}	8-18	
8-10-82	2.7×10^{-11}	8-10	3.5×10^{-14}	8-18	
8-11-82	4.5×10^{-10}	8-11	2.5×10^{-14}	8-18	
8-12-82	4.6×10^{-11}	8-12	5.6×10^{-14}	8-18	
8-13-82	1.4×10^{-10}	8-13	2.5×10^{-14}	8-18	
8-16-82	1.8×10^{-10}	8-16	1.7×10^{-14}	8-25	
8-17-82	2.8×10^{-10}	8-17	2.1×10^{-14}	8-25	
8-18-82	1.6×10^{-10}	8-18	2.0×10^{-14}	8-25	
8-19-82	2.6×10^{-10}	8-19	6.9×10^{-14}	8-25	
8-20-82	5.5×10^{-11}	8-20	3.4×10^{-14}	8-25	
8-23-82	1.3×10^{-10}	8-23	2.8×10^{-14}	9-1	
8-24-82	8.2×10^{-10}	8-24	4.4×10^{-14}	9-1	
8-25-82	7.0×10^{-11}	8-25	7.0×10^{-14}	9-1	
8-26-82	9.9×10^{-10}	8-26	2.5×10^{-14}	9-1	
8-27-82	3.9×10^{-10}	8-27	6.4×10^{-14}	9-1	
8-30-82	3.7×10^{-10}	8-30	1.3×10^{-14}	9-9	
8-31-82	7.1×10^{-11}	8-31	4.2×10^{-14}	9-9	
9-1-82	2.6×10^{-10}	9-1	2.4×10^{-14}	9-9	
9-2-82	5.3×10^{-10}	9-2	5.1×10^{-14}	9-9	
9-3-82	1.2×10^{-10}	9-3	5.4×10^{-14}	9-9	
9-7-82	9.3×10^{-11}	9-7	1.1×10^{-14}	9-15	
9-8-82	2.3×10^{-10}	9-8	2.2×10^{-14}	9-15	
9-9-82	7.3×10^{-10}	9-9	3.5×10^{-14}	9-15	
9-10-82	3.8×10^{-10}	9-10	5.5×10^{-14}	9-15	
9-13-82	2.3×10^{-10}	9-13			
9-14-82	3.4×10^{-10}	9-14			
9-15-82	4.6×10^{-11}	9-15			
9-16-82	6.1×10^{-11}	9-16			

Environmental Monitoring Station Summary Log

Station - 1

Page 9

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
6-10-82	4.6×10^{-10}	6-10	63.3×10^{-14}	6-16	
6-11-82	1.9×10^{-10}	6-11	45.0×10^{-14}	6-16	
6-14-82	2.3×10^{-10}	6-14	1.3×10^{-14}	6-24	
6-15-82	7.6×10^{-11}	6-15	45.2×10^{-14}	6-24	
6-16-82	2.2×10^{-11}	6-16	42.5×10^{-14}	6-24	
6-17-82	3.2×10^{-11}	6-17	42.4×10^{-14}	6-24	
6-18-82	1.8×10^{-11}	6-18	2.8×10^{-14}	6-24	
6-21-82	5.7×10^{-11}	6-21	8.1×10^{-15}	7-1	
6-22-82	1.3×10^{-10}	6-22	45.1×10^{-14}	7-1	
6-23-82	2.5×10^{-10}	6-23	4.0×10^{-14}	7-1	
6-24-82	4.0×10^{-10}	6-24	5.2×10^{-14}	7-1	
6-25-82	1.6×10^{-10}	6-25	42.0×10^{-14}	7-1	
6-28-82	6.4×10^{-11}	6-28	1.5×10^{-14}	7-7	
6-29-82	3.0×10^{-10}	6-29	42.8×10^{-14}	7-7	
6-30-82	3.1×10^{-11}	6-30	42.7×10^{-14}	7-7	
7-1-82	3.7×10^{-10}	7-1	46.0×10^{-14}	7-7	
7-2-82	2.9×10^{-10}	7-2	4.5×10^{-14}	7-7	
7-6-82	1.1×10^{-10}	7-6	2.1×10^{-14}	7-14	
7-7-82	2.3×10^{-11}	7-7	4.9×10^{-14}	7-14	
7-8-82	NO SAMPLE	PUMP FOUND NOT RUNNING.			
7-9-82	NO SAMPLE	PUMP FOUND NOT RUNNING.			
7-12-82	1.2×10^{-10}	7-12	49.9×10^{-15}	7-21	
7-13-82	1.7×10^{-10}	7-13	2.6×10^{-14}	7-21	
7-14-82	NO SAMPLE	PUMP FOUND NOT RUNNING.			
7-15-82	1.3×10^{-10}	7-15	44.5×10^{-14}	7-21	
7-16-82	2.2×10^{-10}	7-16	6.7×10^{-14}	7-21	
7-19-82	1.4×10^{-10}	7-19	44.2×10^{-15}	7-28	
7-20-82	3.2×10^{-11}	7-20	42.2×10^{-14}	7-28	
7-21-82	4.4×10^{-11}	7-21	1.5×10^{-14}	7-28	
7-22-82	4.5×10^{-11}	7-22	1.5×10^{-14}	7-28	
7-23-82	2.0×10^{-11}	7-23	42.3×10^{-14}	7-28	
7-26-82	2.7×10^{-10}	7-26	45.7×10^{-15}	8-4	
7-27-82	3.7×10^{-10}	7-27	41.7×10^{-14}	8-4	
7-28-82	2.2×10^{-11}	7-28	43.4×10^{-14}	8-4	
7-29-82	5.8×10^{-11}	7-29	43.5×10^{-14}	8-4	

Environmental Monitoring Station Summary Log

Station 1

Page 8

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
4-21-82	2.6×10^{-11}	4-21	$< 3.4 \times 10^{-14}$	4-28	
4-22-82	1.3×10^{-10}	4-22	$< 3.3 \times 10^{-14}$	4-28	
4-23-82	4 1.3×10^{-10}	4-22	6.3×10^{-14}	4-28	
4-26-82	3.1×10^{-10}	4-26	7.5×10^{-15}	5-5	
4-27-82	3.4×10^{-11}	4-27	$< 2.1 \times 10^{-14}$	5-5	
4-28-82	4.1×10^{-11}	4-28	$< 1.9 \times 10^{-14}$	5-5	
4-29-82	6.9×10^{-11}	4-29	$< 2.0 \times 10^{-14}$	5-5	
4-30-82	2.2×10^{-10}	4-30	8.9×10^{-14}	5-5	
5-3-82	3.2×10^{-10}	5-3	$< 1.3 \times 10^{-14}$	5-12	
5-4-82	2.2×10^{-10}	5-4	2.2×10^{-14}	5-12	
5-5-82	1.5×10^{-10}	5-5	4.5×10^{-14}	5-12	
5-6-82	1.5×10^{-10}	5-6	$< 1.9 \times 10^{-14}$	5-12	
5-7-82	2.9×10^{-11}	5-7	$\cdot \times 10^{-14}$	5-12	
5-10-82	2.4×10^{-10}	5-10	$< 7.8 \times 10^{-15}$	5-19	
5-11-82	2.7×10^{-10}	5-11	$< 3.3 \times 10^{-14}$	5-19	
5-12-82	6.9×10^{-11}	5-12	3.9×10^{-14}	5-19	
5-13-82	1.1×10^{-10}	5-13	$< 2.4 \times 10^{-14}$	5-19	
5-14-82	2.4×10^{-10}	5-14	$< 3.2 \times 10^{-14}$	5-19	
5-17-82	1.3×10^{-10}	5-17	1.3×10^{-14}	5-26	
5-18-82	1.7×10^{-10}	5-18	$< 5.2 \times 10^{-14}$	5-26	
5-19-82	1.9×10^{-10}	5-19	$< 5.0 \times 10^{-14}$	5-26	
5-20-82	1.9×10^{-10}	5-20	$< 2.4 \times 10^{-14}$	5-26	
5-21-82	2.9×10^{-11}	5-21	3.9×10^{-14}	5-26	
5-24-82	4.0×10^{-11}	5-24	$< 9.1 \times 10^{-15}$	6-2	
5-25-82	8.0×10^{-11}	5-25	$< 6.2 \times 10^{-14}$	6-2	
5-26-82	7.2×10^{-11}	5-26	5.5×10^{-14}	6-2	
5-27-82	1.2×10^{-10}	5-27	$< 2.8 \times 10^{-14}$	6-2	
5-28-82	6.0×10^{-11}	5-28	$< 2.7 \times 10^{-14}$	6-2	
6-1-82	3.4×10^{-11}	6-1	$< 5.9 \times 10^{-15}$	6-9	
6-2-82	3.0×10^{-10}	6-2	$< 3.3 \times 10^{-14}$	6-9	
6-3-82	2.9×10^{-11}	6-3	$< 4.9 \times 10^{-14}$	6-9	
6-4-82	4.4×10^{-11}	6-4	$< 3.2 \times 10^{-14}$	6-9	
6-7-82	2.8×10^{-10}	6-7	$< 1.1 \times 10^{-14}$	6-16	
6-8-82	1.1×10^{-10}	6-8	2.8×10^{-14}	6-16	
6-9-82	9.4×10^{-11}	6-9	$< 2.4 \times 10^{-14}$	6-16	

Environmental Monitoring Station Summary Log

Station - 1

Page 7

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
3-2-82	3.4×10^{-11}	3-2	2.4×10^{-14}	3-10	
3-3-82	1.2×10^{-11}	3-3	2.2×10^{-14}	3-10	
3-4-82	1.8×10^{-11}	3-4	2.4×10^{-14}	3-10	
3-5-82	9.5×10^{-11}	3-5	2.9×10^{-14}	3-10	
3-8-82	1.1×10^{-10}	3-8	1.4×10^{-14}	3-17	
3-9-82	4.5×10^{-12}	3-9	2.4×10^{-14}	3-17	
3-10-82	2.9×10^{-11}	3-10	2.4×10^{-14}	3-17	
3-11-82	1.5×10^{-11}	3-11	2.3×10^{-14}	3-17	
3-12-82	3.7×10^{-11}	3-12	3.6×10^{-14}	3-17	
3-15-82	2.4×10^{-11}	3-15	4.6×10^{-15}	3-24	
3-16-82	1.8×10^{-11}	3-16	3.0×10^{-14}	3-24	
3-17-82	6.8×10^{-12}	3-17	3.2×10^{-14}	3-24	
3-18-82	3.7×10^{-11}	3-18	4.7×10^{-14}	3-24	
3-19-82	2.8×10^{-11}	3-19	4.7×10^{-14}	3-24	
3-22-82	1.4×10^{-11}	3-22	1.4×10^{-14}	3-31	
3-23-82	3.4×10^{-10}	3-23	1.8×10^{-14}	3-31	
3-24-82	2.5×10^{-11}	3-24	3.6×10^{-14}	3-31	
3-25-82	2.7×10^{-11}	3-25	1.8×10^{-14}	3-31	
3-26-82	5.6×10^{-12}	3-26	1.8×10^{-14}	3-31	
3-29-82	1.0×10^{-10}	3-29	1.3×10^{-14}	4-7	
3-30-82	6.9×10^{-11}	3-30	6.2×10^{-14}	4-7	
3-31-82	6.4×10^{-12}	3-31	3.4×10^{-14}	4-7	
4-1-82	2.1×10^{-11}	4-1	2.4×10^{-14}	4-7	
4-2-82	3.5×10^{-11}	4-2	2.6×10^{-14}	4-7	
4-5-82	1.6×10^{-11}	4-5	3.6×10^{-14}	4-14	
4-6-82	4.7×10^{-12}	4-6	2.9×10^{-14}	4-14	
4-7-82	6.3×10^{-11}	4-7	2.0×10^{-14}	4-14	
4-8-82	4.0×10^{-11}	4-8	3.6×10^{-14}	4-14	
4-12-82	2.0×10^{-11}	4-12	5.6×10^{-15}	4-21	
4-13-82	2.3×10^{-11}	4-13	4.2×10^{-14}	4-21	
4-14-82	8.3×10^{-11}	4-14	2.3×10^{-13}	4-21	
4-15-82	4.6×10^{-11}	4-15	3.4×10^{-14}	4-21	
4-16-82	9.0×10^{-11}	4-16	2.3×10^{-14}	4-21	
4-19-82	8.9×10^{-11}	4-19	9.4×10^{-15}	4-28	
4-20-82	2.0×10^{-11}	4-20	3.4×10^{-14}	4-28	

Environmental Monitoring Station Summary Log

Station 1

Page 6

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
1-13-82	2.1×10^{-11}	1-13	43.8×10^{-14}	1-22	
1-14-82	Sample Void				Hole in filter
1-15-82	1.9×10^{-11}	1-15	45.4×10^{-14}	1-22	
1-18-82	2.2×10^{-12}	1-18	1.3×10^{-14}	2-1	
1-19-82	2.0×10^{-10}	1-19	43.5×10^{-14}	2-1	
1-20-82	6.5×10^{-11}	1-20	44.8×10^{-14}	2-1	
1-21-82	3.1×10^{-11}	1-21	42.5×10^{-14}	2-1	
1-22-82	1.9×10^{-11}	1-22	45.1×10^{-14}	2-1	
1-25-82	6.2×10^{-12}	1-25	47.6×10^{-15}	2-4	
1-26-82	2.1×10^{-12}	1-26	42.2×10^{-14}	2-4	
1-27-82	1.2×10^{-11}	1-27	45.1×10^{-14}	2-4	
1-28-82	7.8×10^{-13}	1-28	45.2×10^{-14}	2-4	
1-29-82	2.2×10^{-11}	1-29	43.1×10^{-14}	2-4	
2-1-82	8.5×10^{-12}	2-1	41.4×10^{-14}	2-10	
2-2-82	4.2×10^{-11}	2-2	41.7×10^{-14}	2-10	
2-3-82	1.9×10^{-11}	2-3	41.8×10^{-14}	2-10	
2-4-82	2.7×10^{-12}	2-4	2.2×10^{-14}	2-10	
2-5-82	6.5×10^{-12}	2-5	3.5×10^{-14}	2-10	
2-8-82	6.6×10^{-11}	2-8	41.1×10^{-14}	2-17	
2-9-82	5.1×10^{-12}	2-9	42.4×10^{-14}	2-17	
2-10-82	3.1×10^{-12}	2-10	42.3×10^{-14}	2-17	
2-11-82	2.0×10^{-11}	2-11	45.0×10^{-14}	2-17	
2-12-82	9.4×10^{-11}	2-12	5.3×10^{-14}	2-17	
2-15-82	1.0×10^{-11}	2-15	1.1×10^{-14}	2-24	
2-16-82	1.3×10^{-13}	2-16	42.9×10^{-14}	2-24	
2-17-82	1.8×10^{-11}	2-17	44.4×10^{-14}	2-24	
2-18-82	2.3×10^{-11}	2-18	42.8×10^{-14}	2-24	
2-19-82	4.5×10^{-12}	2-19	44.5×10^{-14}	2-24	
2-22-82	7.6×10^{-11}	2-22	41.1×10^{-14}	3-3	
2-23-82	4.0×10^{-11}	2-23	45.2×10^{-14}	3-3	
2-24-82	1.3×10^{-11}	2-24	45.1×10^{-14}	3-3	
2-25-82	5.6×10^{-12}	2-25	45.1×10^{-14}	3-3	
2-26-82	1.2×10^{-10}		4.0×10^{-14}	3-3	
3-1-82	1.2×10^{-11}	3-1	2.5×10^{-14}	3-10	

Environmental Monitoring Station Summary Log

Station 1

Page 5

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
11-2-81			49.0×10^{-14}	11-11	
11-9-81			46.8×10^{-14}	11-18	
11-16-81			44.0×10^{-14}	12-2	
11-23-81			48.8×10^{-14}	12-2	
11-24-81	2.4×10^{-11}	11-24	42.7×10^{-14}	12-2	AC Pump Installed
11-25-81	5.5×10^{-11}	11-25	44.0×10^{-14}	12-2	
11-30-81	9.9×10^{-11}	11-30	49.4×10^{-15}	12-9	
12-1-81	2.6×10^{-11}	12-1	44.6×10^{-14}	12-9	
12-2-81	4.8×10^{-12}	12-2	43.9×10^{-14}	12-9	
12-3-81	1.5×10^{-10}	12-3	43.6×10^{-14}	12-9	
12-4-81	3.2×10^{-11}	12-4	43.9×10^{-14}	12-9	
12-7-81	3.7×10^{-11}	12-7	41.3×10^{-14}	12-16	
12-8-81	4.5×10^{-12}	12-8	47.7×10^{-14}	12-16	
12-9-81	7.6×10^{-12}	12-9	46.0×10^{-14}	12-16	
12-10-81	8.4×10^{-12}	12-10	45.9×10^{-14}	12-16	
12-11-81	2.0×10^{-11}	12-11	43.6×10^{-14}	12-16	
12-14-81	1.5×10^{-10}	12-14	41.5×10^{-14}	12-29	
12-15-81	5.9×10^{-12}	12-15	5.0×10^{-14}	12-29	
12-16-81	6.3×10^{-12}	12-16	6.0×10^{-14}	12-29	
12-17-81	1.3×10^{-11}	12-17	44.5×10^{-14}	12-29	
12-18-81	5.2×10^{-12}	12-18	44.9×10^{-14}	12-29	
12-21-81	2.9×10^{-11}	12-21	3.5×10^{-14}	12-29	
12-22-81	5.3×10^{-12}	12-22	44.4×10^{-14}	12-29	
12-23-81	1.8×10^{-11}	12-23	44.4×10^{-14}	12-29	
12-28-81			47.4×10^{-15}	1-5-82	
12-29-81	9.1×10^{-11}	12-29	43.8×10^{-14}	1-5-82	
12-30-81	4.4×10^{-11}	12-30	6.3×10^{-14}	1-5	
12-31-81	2.6×10^{-11}	12-31	2.1×10^{-14}	1-5	
1-4-82	1.3×10^{-11}	1-4	9.2×10^{-15}	1-13	
1-5-82	5.6×10^{-12}	1-5	43.8×10^{-14}	1-13	
1-6-82	4.8×10^{-12}	1-6	43.7×10^{-14}	1-13	
1-7-82	1.6×10^{-12}	1-7	44.7×10^{-14}	1-13	
1-8-82	9.7×10^{-13}	1-8	43.8×10^{-14}	1-13	
1-11-82	2.4×10^{-13}	1-11	49.1×10^{-15}	1-22	
1-12-82	3.0×10^{-11}	1-12	45.3×10^{-14}	1-22	

Environmental Monitoring Station Summary Log

Station - 2

Page 10

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
7-20-82	1.2×10^{-12}	7-20	2.5×10^{-14}	7-28	
7-21-82	1.6×10^{-11}	7-21	4.0×10^{-14}	7-28	
7-22-82	1.6×10^{-11}	7-22	1.3×10^{-14}	7-28	
7-23-82	5.0×10^{-12}	7-23	1.7×10^{-14}	7-28	
7-26-82	1.7×10^{-10}	7-26	1.3×10^{-14}	8-4	
7-27-82	1.2×10^{-10}	7-27	2.2×10^{-14}	8-4	
7-28-82	1.9×10^{-11}	7-28	1.9×10^{-14}	8-4	
7-29-82	3.9×10^{-11}	7-29	1.9×10^{-14}	8-4	
7-30-82	1.9×10^{-10}	7-30	5.7×10^{-14}	8-4	
8-2-82	1.5×10^{-10}	8-2	6.4×10^{-15}	8-11	
8-3-82	1.1×10^{-10}	8-3	3.4×10^{-14}	8-11	
8-4-82	3.2×10^{-11}	8-4	3.4×10^{-14}	8-11	
8-5-82	6.7×10^{-12}	8-5	2.3×10^{-14}	8-11	
8-6-82	6.7×10^{-12}	8-6	2.0×10^{-14}	8-11	
8-9-82	3.0×10^{-11}	8-9	1.6×10^{-14}	8-18	
8-10-82	2.1×10^{-11}	8-10	3.2×10^{-14}	8-18	
8-11-82	2.6×10^{-10}	8-11	2.4×10^{-14}	8-18	
8-12-82	4.2×10^{-10}	8-12	8.5×10^{-14}	8-18	
8-13-82	1.0×10^{-10}	8-13	2.3×10^{-14}	8-18	
8-16-82	1.2×10^{-10}	8-16	1.1×10^{-14}	8-25	
8-17-82	2.4×10^{-10}	8-17	2.0×10^{-14}	8-25	
8-18-82	1.7×10^{-10}	8-18	2.0×10^{-14}	8-25	
8-19-82	3.7×10^{-10}	8-19	3.3×10^{-14}	8-25	
8-20-82	6.0×10^{-11}	8-20	4.5×10^{-14}	8-25	
8-23-82	1.2×10^{-10}	8-23	1.6×10^{-14}	9-1	
8-24-82	5.1×10^{-10}	8-24	2.4×10^{-14}	9-1	
8-25-82	4.6×10^{-11}	8-25	2.3×10^{-14}	9-1	
8-26-82	5.7×10^{-10}	8-26	5.0×10^{-14}	9-1	
8-27-82	2.2×10^{-10}	8-27	9.6×10^{-14}	9-1	
8-30-82	1.4×10^{-10}	8-30	1.3×10^{-14}	9-9	
8-31-82	1.8×10^{-11}	8-31	5.3×10^{-14}	9-9	
9-1-82	1.1×10^{-10}	9-1	2.4×10^{-14}	9-9	
9-2-82	2.6×10^{-10}	9-2	2.5×10^{-14}	9-9	
9-3-82	5.8×10^{-11}	9-3	2.5×10^{-14}	9-9	
9-7-82	4.5×10^{-11}	9-7	6.1×10^{-15}	9-15	

Environmental Monitoring Station Summary Log

Station - 2

Page 9

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
5-28-82	3.1×10^{-11}	5-28	44.4×10^{-14}	6-2	
6-1-82	2.6×10^{-11}	6-1	41.2×10^{-14}	6-9	
6-2-82	1.9×10^{-10}	6-2	2.8×10^{-14}	6-9	
6-3-82	4.3×10^{-12}	6-3	44.9×10^{-14}	6-9	
6-4-82	No Sample	Filter	not Attached	6-9	
6-7-82	4.5×10^{-11}	6-7	48.0×10^{-14}	6-16	
6-8-82	7.6×10^{-11}	6-8	5.1×10^{-14}	6-16	
6-9-82	3.3×10^{-11}	6-9	45.1×10^{-14}	6-16	
6-10-82	4.5×10^{-11}	6-10	2.8×10^{-14}	6-16	
6-11-82	1.4×10^{-10}	6-11	45.0×10^{-14}	6-16	
6-14-82	1.8×10^{-10}	6-14	2.1×10^{-14}	6-24	
6-15-82	8.1×10^{-11}	6-15	43.5×10^{-14}	6-24	
6-16-82	8.7×10^{-12}	6-16	42.5×10^{-14}	6-24	
6-17-82	2.0×10^{-10}	6-17	43.3×10^{-14}	6-24	
6-18-82	8.8×10^{-11}	6-18	45.0×10^{-14}	6-24	
6-21-82	4.7×10^{-11}	6-21	41.1×10^{-14}	7-1	
6-22-82	7.0×10^{-11}	6-22	43.3×10^{-14}	7-1	
6-23-82	2.2×10^{-11}	6-23	43.4×10^{-14}	7-1	
6-24-82	2.4×10^{-10}	6-24	45.0×10^{-14}	7-1	
6-25-82	3.9×10^{-10}	6-25	4.6×10^{-14}	7-1	
6-28-82	2.2×10^{-11}	6-28	1.5×10^{-14}	7-7	
6-29-82	1.6×10^{-10}	6-29	42.8×10^{-14}	7-7	
6-30-82	1.1×10^{-11}	6-30	44.3×10^{-14}	7-7	
7-1-82	1.9×10^{-10}	7-1	42.7×10^{-14}	7-7	
7-2-82	1.3×10^{-10}	7-2	3.4×10^{-14}	7-7	
7-6-82	9.5×10^{-11}	7-6	16.9×10^{-15}	7-14	
7-7-82	2.7×10^{-11}	7-7	2.7×10^{-14}	7-14	
7-8-82	5.6×10^{-11}	7-8	4.0×10^{-14}	7-14	
7-9-82	1.2×10^{-10}	7-9	38×10^{-14}	7-14	
7-12-82	7.4×10^{-11}	7-12	21.1×10^{-14}	7-21	
7-13-82	4.7×10^{-11}	7-13	42.5×10^{-14}	7-21	
7-14-82	1.9×10^{-10}	7-14	45.0×10^{-14}	7-21	
7-15-82	8.1×10^{-11}	7-15	5.1×10^{-14}	7-21	
7-16-82	1.4×10^{-10}	7-16	5.3×10^{-14}	7-21	
7-19-82	7.7×10^{-11}	7-19	50×10^{-15}	7-28	

Environmental Monitoring Station Summary Log

Station 2

Page 8

Sample Date	Pb-212 Conc.		Activity uCi/ml Date	Activity uCi/ml Date	Th-232 Conc.	Comments
	Activity uCi/ml	Date				
4-8-82	5.1 x 10 ⁻¹²	4-8	2.0 x 10 ⁻¹⁴	4-14		
4-12-82	2.2 x 10 ⁻¹¹	4-12	1.1 x 10 ⁻¹⁴	4-21		
4-13-82	4.4 x 10 ⁻¹¹	4-13	2.4 x 10 ⁻¹⁴	4-21		
4-14-82	3.4 x 10 ⁻¹¹	4-14	5.8 x 10 ⁻¹⁴	4-21		
4-15-82	2.8 x 10 ⁻¹¹	4-15	4.9 x 10 ⁻¹⁴	4-21		
4-16-82	8.7 x 10 ⁻¹¹	4-14	6.9 x 10 ⁻¹⁴	4-21		
4-19-82	1.5 x 10 ⁻¹⁰	4-19	4.1 x 10 ⁻¹⁴	4-28		
4-20-82	3.5 x 10 ⁻¹¹	4-20	2.5 x 10 ⁻¹⁴	4-28		
4-21-82	4.1 x 10 ⁻¹¹	4-21	7.6 x 10 ⁻¹⁴	4-28		
4-22-82	1.1 x 10 ⁻¹⁰	4-22	1.0 x 10 ⁻¹³	4-28		
4-23-82	2.7 x 10 ⁻¹⁰	4-23	5.2 x 10 ⁻¹⁴	4-28		
4-26-82	2.9 x 10 ⁻¹⁰	4-26	2.2 x 10 ⁻¹⁴	5-5		
4-27-82	9.6 x 10 ⁻¹²	4-27	4.0 x 10 ⁻¹⁴	5-5		
4-28-82	No sample			5-5	Filter Head Fall off	
4-29-82	1.2 x 10 ⁻¹¹	4-29	2.3 x 10 ⁻¹⁴	5-5		
4-30-82	2.1 x 10 ⁻¹¹	4-30	3.5 x 10 ⁻¹⁴	5-5		
5-3-82	2.2 x 10 ⁻¹⁰	5-3	1.5 x 10 ⁻¹⁴	5-12		
5-4-82	1.8 x 10 ⁻¹⁰	5-4	2.2 x 10 ⁻¹⁴	5-12		
5-5-82	1.6 x 10 ⁻¹⁰	5-5	4.9 x 10 ⁻¹⁴	5-12		
5-6-82	2.1 x 10 ⁻¹⁰	5-6	2.0 x 10 ⁻¹⁴	5-12		
5-7-82	3.4 x 10 ⁻¹¹	5-7	4.5 x 10 ⁻¹⁴	5-12		
5-10-82	2.1 x 10 ⁻¹⁰	5-10	7.8 x 10 ⁻¹⁵	5-19		
5-11-82	2.8 x 10 ⁻¹⁰	5-11	2.8 x 10 ⁻¹⁴	5-19		
5-12-82	5.9 x 10 ⁻¹¹	5-12	4.9 x 10 ⁻¹⁴	5-19		
5-13-82	1.1 x 10 ⁻¹⁰	5-13	4.9 x 10 ⁻¹⁴	5-19		
5-14-82	2.0 x 10 ⁻¹⁰	5-14	2.3 x 10 ⁻¹⁴	5-19		
5-17-82	8.8 x 10 ⁻¹¹	5-17	1.1 x 10 ⁻¹⁴	5-26		
5-18-82	1.5 x 10 ⁻¹⁰	5-18	3.0 x 10 ⁻¹⁴	5-26		
5-19-82	2.4 x 10 ⁻¹⁰	5-19	2.4 x 10 ⁻¹⁴	5-26		
5-20-82	2.2 x 10 ⁻¹⁰	5-20	2.3 x 10 ⁻¹⁴	5-26		
5-24-82	3.8 x 10 ⁻¹¹	5-24	4.5 x 10 ⁻¹⁴	6-2		
5-25-82	1.4 x 10 ⁻¹¹	5-25	2.8 x 10 ⁻¹⁴	6-2		
5-26-82	2.1 x 10 ⁻¹²	5-26	2.8 x 10 ⁻¹⁴	6-2		
5-27-82	4.0 x 10 ⁻¹¹	5-27	3.1 x 10 ⁻¹⁴	6-2		

Environmental Monitoring Station Summary Log

Station - 2

Page 10

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
7-20-82	1.2×10^{-10}	7-20	2.5×10^{-14}	7-28	
7-21-82	1.6×10^{-11}	7-21	4.0×10^{-14}	7-28	
7-22-82	1.6×10^{-11}	7-22	1.3×10^{-14}	7-28	
7-23-82	5.0×10^{-12}	7-23	1.7×10^{-14}	7-28	
7-26-82	1.7×10^{-10}	7-26	1.3×10^{-14}	8-4	
7-27-82	1.2×10^{-10}	7-27	2.2×10^{-14}	8-4	
7-28-82	1.9×10^{-11}	7-28	1.9×10^{-14}	8-4	
7-29-82	3.9×10^{-11}	7-29	1.9×10^{-14}	8-4	
7-30-82	1.9×10^{-10}	7-30	5.7×10^{-14}	8-4	
8-2-82	1.5×10^{-10}	8-2	6.4×10^{-15}	8-11	
8-3-82	1.1×10^{-10}	8-3	3.4×10^{-14}	8-11	
8-4-82	3.2×10^{-11}	8-4	3.4×10^{-14}	8-11	
8-5-82	6.7×10^{-12}	8-5	2.3×10^{-14}	8-11	
8-6-82	6.7×10^{-12}	8-6	2.0×10^{-14}	8-11	
8-9-82	3.0×10^{-11}	8-9	1.6×10^{-14}	8-18	
8-10-82	2.1×10^{-11}	8-10	3.2×10^{-14}	8-18	
8-11-82	2.6×10^{-10}	8-11	2.4×10^{-14}	8-18	
8-12-82	4.2×10^{-10}	8-12	8.5×10^{-14}	8-18	
8-13-82	1.0×10^{-10}	8-13	2.3×10^{-14}	8-18	
8-16-82	1.2×10^{-10}	8-16	1.1×10^{-14}	8-25	
8-17-82	2.4×10^{-10}	8-17	2.0×10^{-14}	8-25	
8-18-82	1.7×10^{-10}	8-18	2.0×10^{-14}	8-25	
8-19-82	3.7×10^{-10}	8-19	3.3×10^{-14}	8-25	
8-20-82	6.0×10^{-11}	8-20	4.5×10^{-14}	8-25	
8-23-82	1.2×10^{-10}	8-23	1.6×10^{-14}	9-1	
8-24-82	5.1×10^{-10}	8-24	2.4×10^{-14}	9-1	
8-25-82	4.6×10^{-11}	8-25	2.3×10^{-14}	9-1	
8-26-82	5.7×10^{-10}	8-26	5.0×10^{-14}	9-1	
8-27-82	2.2×10^{-10}	8-27	7.6×10^{-14}	9-1	
8-30-82	1.4×10^{-10}	8-30	1.3×10^{-14}	9-9	
8-31-82	1.8×10^{-11}	8-31	5.3×10^{-14}	9-9	
9-1-82	1.1×10^{-10}	9-1	2.4×10^{-14}	9-9	
9-2-82	2.6×10^{-10}	9-2	2.5×10^{-14}	9-9	
9-3-82	5.8×10^{-10}	9-3	2.5×10^{-14}	9-9	
9-7-82	4.5×10^{-11}	9-7	6.1×10^{-15}	9-15	

Environmental Monitoring Station Summary Log

Station - 2

Page 7

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
2-19-82	5.2×10^{-12}	2-19	4.5×10^{-14}	2-24	
2-22-82	7.0×10^{-11}	2-22	1.9×10^{-14}	3-3	
2-23-82	3.4×10^{-11}	2-23	4.35×10^{-14}	3-3	
2-24-82	4.24×10^{-13}	2-24	6.2×10^{-14}	3-3	
2-25-82	2.3×10^{-12}	2-25	4.51×10^{-14}	3-3	
2-26-82	3.3×10^{-11}	2-26	5.1×10^{-14}	3-3	
3-1-82	1.9×10^{-11}	3-1	4.76×10^{-15}	3-10	
3-2-82	No Sample Filter Head Lying on Ground				
3-3-82	2.0×10^{-13}	3-3	4.11×10^{-14}	3-10	
3-4-82	4.25×10^{-13}	3-4	2.9×10^{-14}	3-10	
3-5-82	1.1×10^{-10}	3-5	1.7×10^{-14}	3-10	
3-8-82	8.1×10^{-11}	3-8	4.78×10^{-15}	3-17	
3-9-82	8.4×10^{-12}	3-9	4.24×10^{-14}	3-17	
3-10-82	1.2×10^{-11}	3-10	4.24×10^{-14}	3-17	
3-11-82	4.6×10^{-11}	3-11	2.3×10^{-14}	3-17	
3-12-82	1.2×10^{-11}	3-12	4.24×10^{-14}	3-17	
3-15-82	1.7×10^{-11}	3-15	4.96×10^{-15}	3-24	
3-16-82	1.7×10^{-12}	3-16	4.30×10^{-14}	3-24	
3-17-82	1.2×10^{-11}	3-17	4.29×10^{-14}	3-24	
3-18-82	4.2×10^{-12}	3-18	4.29×10^{-14}	3-24	
3-19-82	2.8×10^{-12}	3-19	4.29×10^{-14}	3-24	
3-22-82	1.3×10^{-11}	3-22	4.58×10^{-15}	3-31	
3-23-82	2.4×10^{-10}	3-23	4.43×10^{-14}	3-31	
3-24-82	5.2×10^{-11}	3-24	6.0×10^{-14}	3-31	
3-25-82	2.2×10^{-11}	3-25	4.18×10^{-14}	3-31	
3-26-82	7.1×10^{-12}	3-26	4.70×10^{-14}	3-31	
3-29-82	1.1×10^{-10}	3-29	1.3×10^{-14}	4-7	
3-30-82	7.2×10^{-11}	3-30	4.52×10^{-14}	4-7	
3-31-82	1.9×10^{-11}	3-31	4.25×10^{-14}	4-7	
4-1-82	No Sample Filter Head Fell OFF				
4-2-82	8.0×10^{-12}	4-2	4.26×10^{-14}	4-7	
4-5-82	No Sample Filter Head Fell OFF				
4-6-82	2.3×10^{-12}	4-6	4.20×10^{-14}	4-14	
4-7-82	7.3×10^{-11}	4-7	4.39×10^{-14}	4-14	

Environmental Monitoring Station Summary Log

Station 2

Page 6

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
12-31-81	3.0×10^{-11}	12-31	2.1×10^{-14}	1-5	
1-4-82	3.5×10^{-12}	1-4	4.5×10^{-14}	1-13	
1-5-82	7.5×10^{-12}	1-5	6.0×10^{-14}	1-13	
1-6-82	1.8×10^{-11}	1-6	3.7×10^{-14}	1-13	
1-7-82	3.1×10^{-12}	1-7	3.7×10^{-14}	1-13	
1-8-82	7.1×10^{-12}	1-8	3.8×10^{-14}	1-13	
1-11-82	1.1×10^{-12}	1-11	1.8×10^{-14}	1-22	
1-12-82	5.6×10^{-11}	1-12	3.8×10^{-14}	1-22	
1-13-82	1.6×10^{-11}	1-13	5.6×10^{-14}	1-22	
1-14-82	2.7×10^{-11}	1-14	2.8×10^{-14}	1-22	
1-15-82	2.3×10^{-11}	1-15	5.3×10^{-14}	1-22	
1-18-82	1.6×10^{-11}	1-18	1.3×10^{-14}	2-1	
1-19-82	1.1×10^{-11}	1-19	3.5×10^{-14}	2-1	
1-20-82	2.9×10^{-11}	1-20	2.2×10^{-14}	2-1	
1-21-82	4.7×10^{-13}	1-21	2.5×10^{-14}	2-1	
1-22-82	3.6×10^{-13}	1-22	5.1×10^{-14}	2-1	
1-25-82	2.3×10^{-12}	1-25	1.7×10^{-14}	2-4	
1-26-82	4.5×10^{-12}	1-26	2.2×10^{-14}	2-4	
1-27-82	1.2×10^{-11}	1-27	2.3×10^{-14}	2-4	
1-28-82	1.2×10^{-11}	1-28	2.9×10^{-14}	2-4	
1-29-82	Sample Void				Filter head off
2-1-82	6.4×10^{-12}	2-1	1.4×10^{-14}	2-10	
2-2-82	1.6×10^{-11}	2-2	1.7×10^{-14}	2-10	
2-3-82	3.7×10^{-12}	2-3	1.8×10^{-14}	2-10	
2-4-82	3.4×10^{-12}	2-4	1.7×10^{-14}	2-10	
2-5-82	2.0×10^{-12}	2-5	4.1×10^{-14}	2-10	
2-8-82	7.5×10^{-11}	2-8	7.5×10^{-15}	2-17	
2-9-82	2.8×10^{-12}	2-9	3.5×10^{-14}	2-17	
2-10-82	7.9×10^{-12}	2-10	2.3×10^{-14}	2-17	
2-11-82	4.2×10^{-11}	2-11	3.9×10^{-14}	2-17	
2-12-82	5.7×10^{-11}	2-12	5.3×10^{-14}	2-17	
2-15-82	2.6×10^{-11}	2-15	1.9×10^{-14}	2-24	
2-16-82	6.8×10^{-11}	2-16	2.9×10^{-14}	2-24	
2-17-82	1.7×10^{-13}	2-17	4.4×10^{-14}	2-24	
2-18-82	2.2×10^{-13}	2-18	4.4×10^{-14}	2-24	

Environmental Monitoring Station Summary Log

Station - 2

Page 5

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
11-3-81			$<6.6 \times 10^{-14}$	11-11	
11-6-81			$<2.2 \times 10^{-13}$	11-11	
11-10-81	2.9×10^{-10}	11-10	$<3.2 \times 10^{-14}$	11-18	AC Pump Installed
11-11-81	1.6×10^{-10}	11-11	$<5.2 \times 10^{-14}$	11-18	
11-12-81	1.4×10^{-10}	11-12	3.7×10^{-14}	11-18	
11-13-81	7.9×10^{-11}	11-13	5.9×10^{-14}	11-18	
11-16-81	4.7×10^{-11}	11-16	$<2.0 \times 10^{-14}$	11-25	
11-17-81	8.4×10^{-11}	11-17	$<3.8 \times 10^{-14}$	11-25	
11-18-81	1.4×10^{-10}	11-18	$<4.2 \times 10^{-14}$	11-25	
11-19-81	1.3×10^{-11}	11-19	$<3.7 \times 10^{-14}$	11-25	
11-20-81	2.1×10^{-12}	11-20	$<7.8 \times 10^{-14}$	11-25	
11-23-81	2.4×10^{-11}	11-23	$<1.1 \times 10^{-14}$	12-2	
11-24-81	1.7×10^{-12}	11-24	$<4.8 \times 10^{-14}$	12-2	
11-25-81	2.0×10^{-11}	11-25	$<4.9 \times 10^{-14}$	12-2	
11-30-81	5.1×10^{-11}	11-30	$<7.6 \times 10^{-15}$	12-9	
12-1-81	1.0×10^{-11}	12-1	$<4.0 \times 10^{-14}$	12-9	
12-2-81	9.9×10^{-12}	12-2	$<3.9 \times 10^{-14}$	12-9	
12-3-81	1.6×10^{-10}	12-3	$<7.3 \times 10^{-14}$	12-9	
12-4-81	2.0×10^{-11}	12-4	$<4.9 \times 10^{-14}$	12-9	
12-7-81	6.2×10^{-11}	12-7	$<1.3 \times 10^{-14}$	12-16	
12-8-81	9.3×10^{-12}	12-8	$<4.9 \times 10^{-14}$	12-16	
12-9-81	8.6×10^{-12}	12-9	$<3.9 \times 10^{-14}$	12-16	
12-10-81	1.3×10^{-11}	12-10	8.1×10^{-14}	12-16	
12-11-81	1.5×10^{-11}	12-11	$<5.7 \times 10^{-14}$	12-16	
12-14-81	9.1×10^{-11}	12-14	$<2.2 \times 10^{-14}$	12-29	
12-15-81	7.3×10^{-12}	12-15	$<6.6 \times 10^{-14}$	12-29	
12-16-81	9.6×10^{-12}	12-16	$<4.4 \times 10^{-14}$	12-29	
12-17-81	7.3×10^{-12}	12-17	$<6.7 \times 10^{-14}$	12-29	
12-18-81	6.5×10^{-12}	12-18	5.0×10^{-14}	12-29	
12-21-81	4.1×10^{-11}	12-21	2.4×10^{-14}	12-29	
12-22-81	1.7×10^{-11}	12-22	$<6.6 \times 10^{-14}$	12-29	
12-23-81	9.6×10^{-12}	12-23	$<7.1 \times 10^{-14}$	12-29	
12-28-81	Sample Void				Filter head off
12-29-81	9.8×10^{-11}	12-29	$<3.9 \times 10^{-14}$	1-5	
12-30-81	5.9×10^{-11}	12-30	$<1.6 \times 10^{-14}$	1-5	

Environmental Monitoring Station Summary Log

Station - 3

Page 11

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
7-14-82	5.4×10^{-10}	7-14	45.6×10^{-14}	7-21	
7-15-82	3.2×10^{-10}	7-15	2.9×10^{-14}	7-21	
7-16-82	4.6×10^{-10}	7-16	1.1×10^{-14}	7-21	
7-19-82	2.9×10^{-10}	7-19	5.1×10^{-15}	7-28	
7-20-82	1.7×10^{-11}	7-20	42.5×10^{-14}	7-28	
7-21-82	1.5×10^{-11}	7-21	2.8×10^{-14}	7-28	
7-22-82	5.1×10^{-11}	7-22	42.5×10^{-14}	7-28	
7-23-82	5.9×10^{-12}	7-23	42.5×10^{-14}	7-28	
7-26	6.9×10^{-10}	7-26	41.5×10^{-14}	8-4	
7-27	7.0×10^{-10}	7-27	41.9×10^{-14}	8-4	
7-28-82	1.8×10^{-11}	7-28	42.0×10^{-14}	8-4	
7-29-82	1.0×10^{-10}	7-29	41.9×10^{-14}	8-4	
7-30-82	5.6×10^{-10}	7-30	5.5×10^{-14}	8-4	
8-2-82	3.3×10^{-10}	8-2	46.4×10^{-15}	8-11	
8-3-82	3.4×10^{-10}	8-3	42.0×10^{-14}	8-11	
8-4-82	5.3×10^{-11}	8-4	2.2×10^{-14}	8-11	
8-5-82	3.7×10^{-12}	8-5	42.0×10^{-14}	8-11	
8-6-82	5.1×10^{-12}	8-6			
8-9-82	4.8×10^{-11}	8-9	41.6×10^{-14}	8-18	
8-10-82	3.3×10^{-11}	8-10	43.2×10^{-14}	8-18	
8-11-82	7.5×10^{-10}	8-11	2.7×10^{-14}	8-18	
8-12-82	1.9×10^{-10}	8-12	45.2×10^{-14}	8-18	
8-13-82	3.3×10^{-10}	8-13	5.0×10^{-14}	8-18	
8-16-82	3.2×10^{-10}	8-16	41.3×10^{-14}	8-25	
8-17-82	1.0×10^{-9}	8-17	2.3×10^{-14}	8-25	
8-18-82	4.8×10^{-10}	8-18	42.0×10^{-14}	8-25	
8-19-82	1.1×10^{-9}	8-19	41.9×10^{-14}	8-25	
8-20-82	3.8×10^{-10}	8-20	5.4×10^{-14}	8-25	
8-23-82	SAMPLE INVALID		DUE TO POWER FAILURE		FAILURE.
8-24-82	1.4×10^{-9}	8-24	7.5×10^{-14}	9-1	
8-25-82	5.8×10^{-11}	8-25	43.0×10^{-14}	9-1	
8-26-82	1.8×10^{-9}	8-26	2.4×10^{-14}	9-1	
8-27-82	1.1×10^{-9}	8-27	5.6×10^{-14}	9-1	
8-30-82	4.2×10^{-10}	8-30	48.2×10^{-15}	9-9	
8-31-82	1.9×10^{-11}	8-31	44.1×10^{-14}	9-9	

Environmental Monitoring Station Summary Log

Station 3

Page 10

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
5-24-82	3.1×10^{-11}	5-24	4.1×10^{-15}	6-2	
5-25-82	7.8×10^{-12}	5-25	4.2×10^{-14}	6-2	
5-26-82	5.0×10^{-12}	5-26	4.7×10^{-14}	6-2	
5-27-82	1.2×10^{-11}	5-27	4.2×10^{-14}	6-2	
5-28-82	8.4×10^{-11}	5-28	4.7×10^{-14}	6-2	
6-1-82	5.2×10^{-11}	6-1	4.8×10^{-15}	6-9	
6-2-82	2.8×10^{-10}	6-2	4.2×10^{-14}	6-9	
6-3-82	3.5×10^{-12}	6-3	4.3×10^{-14}	6-9	
6-4-82	6.2×10^{-12}	6-4	4.9×10^{-14}	6-9	
6-7-82	1.2×10^{-10}	6-7	4.8×10^{-15}	6-16	
6-8-82	2.1×10^{-10}	6-8	4.3×10^{-14}	6-16	
6-9-82	7.5×10^{-11}	6-9	2.9×10^{-14}	6-16	
6-10-82	5.0×10^{-11}	6-10	3.9×10^{-14}	6-16	
6-11-82	3.7×10^{-10}	6-11	5.1×10^{-14}	6-16	
6-14-82	4.8×10^{-10}	6-14	9.5×10^{-15}	6-24	
6-15-82	1.1×10^{-10}	6-15	4.5×10^{-14}	6-24	
6-16-82	9.9×10^{-12}	6-16	4.5×10^{-14}	6-24	
6-17-82	7.6×10^{-10}	6-17	2.8×10^{-14}	6-24	
6-18-82	2.1×10^{-10}	6-18	2.9×10^{-14}	6-24	
6-21-82	1.6×10^{-10}	6-21	1.3×10^{-14}	7-1	
6-22-82	3.1×10^{-10}	6-22	2.8×10^{-14}	7-1	
6-23-82	7.4×10^{-10}	6-23	4.2×10^{-14}	7-1	
6-24-82	7.1×10^{-10}	6-24	4.3×10^{-14}	7-1	
6-25-82	8.6×10^{-10}	6-25	2.0×10^{-14}	7-1	
6-28-82	2.2×10^{-11}	6-28	4.9×10^{-15}	7-7	
6-29-82	6.8×10^{-10}	6-29	4.7×10^{-14}	7-7	
6-30-82	1.4×10^{-11}	6-30	4.8×10^{-14}	7-7	
7-1-82	NO SAMPLE				
7-2-82	6.2×10^{-10}	7-2	1.5×10^{-13}	7-7	
7-6-82	2.2×10^{-10}	7-6	4.2×10^{-14}	7-14	
7-7-82	4.0×10^{-10}	7-7	4.9×10^{-14}	7-14	
7-8-82	2.4×10^{-10}	7-8	3.8×10^{-14}	7-14	
7-9-82	5.1×10^{-10}	7-9	9.5×10^{-14}		
7-12-82	4.1×10^{-10}	7-12	4.1×10^{-14}	7-21	
7-13-82	2.9×10^{-10}	7-13	4.5×10^{-14}	7-21	

Environmental Monitoring Station Summary Log

Station - 3

Page 9

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
4-2-82	7.6×10^{-12}	4-2	$< 3.5 \times 10^{-14}$	4-7	
4-5-82	2.0×10^{-12}	4-5	$< 1.9 \times 10^{-14}$	4-14	
4-6-82	3.6×10^{-12}	4-6	$< 2.0 \times 10^{-14}$	4-14	
4-7-82	4.0×10^{-10}	4-7	$< 2.0 \times 10^{-14}$	4-14	
4-8-82	4.1×10^{-12}	4-8	$< 2.3 \times 10^{-14}$	4-14	
4-12-82	5.0×10^{-11}	4-12	$< 4.9 \times 10^{-15}$	4-21	
4-13-82	4.8×10^{-11}	4-13	3.6×10^{-14}	4-21	
4-14-82	3.7×10^{-11}	4-14	$< 2.0 \times 10^{-14}$	4-21	
4-15-82	7.2×10^{-11}	4-15	3.4×10^{-14}	4-21	
4-16-82	1.6×10^{-10}	4-16	3.5×10^{-14}	4-21	
4-19-82	2.5×10^{-10}	4-19	$< 8.0 \times 10^{-15}$	4-28	
4-20-82	3.6×10^{-11}	4-20	$< 2.5 \times 10^{-14}$	4-28	
4-21-82	8.8×10^{-11}	4-21	$< 2.5 \times 10^{-14}$	4-28	
4-22-82	3.1×10^{-10}	4-22	$< 1.2 \times 10^{-13}$	4-28	
4-23-82	1.1×10^{-9}	4-23	5.0×10^{-14}	4-28	
4-26-82	8.5×10^{-10}	4-26	$< 1.3 \times 10^{-14}$	5-5	
4-27-82	1.4×10^{-11}	4-27	$< 4.0 \times 10^{-14}$	5-5	
4-28-82	5.5×10^{-12}	4-28	$< 3.8 \times 10^{-14}$	5-5	
4-29-82	5.8×10^{-12}	4-29	$< 3.0 \times 10^{-14}$	5-5	
4-30-82	9.6×10^{-12}	4-30	$< 1.9 \times 10^{-14}$	5-5	
5-3-82	4.7×10^{-10}	5-3	$< 6.4 \times 10^{-14}$	5-5	
5-4-82	4.6×10^{-10}	5-3	$< 2.0 \times 10^{-14}$	5-12	
5-5-82	2.7×10^{-10}	5-5	$< 3.7 \times 10^{-14}$	5-12	
5-6-82	4.2×10^{-10}	5-6	2.3×10^{-14}	5-12	
5-7-82	3.9×10^{-11}	5-7	$< 3.8 \times 10^{-14}$	5-12	
5-10-82	5.9×10^{-10}	5-10	$< 1.1 \times 10^{-14}$	5-19	
5-11-82	6.9×10^{-10}	5-11	$< 2.4 \times 10^{-14}$	5-19	
5-12-82	No Sample Filter Head Fell off Pump				
5-13-82	2.3×10^{-10}	5-13	$< 2.4 \times 10^{-14}$	5-19	
5-14-82	3.5×10^{-10}	5-14	$< 4.9 \times 10^{-14}$	5-19	
5-17-82	2.5×10^{-10}	5-17	1.7×10^{-14}	5-26	
5-18-82	5.4×10^{-10}	5-18	$< 3.4 \times 10^{-14}$	5-26	
5-19-82	6.1×10^{-10}	5-19	$< 5.1 \times 10^{-14}$	5-26	
5-20-82	7.2×10^{-10}	5-20	2.8×10^{-14}	5-26	
5-21-82	5.2×10^{-12}	5-21	5.0×10^{-14}	5-26	

Environmental Monitoring Station Summary Log

Station - 3

Page 8

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
2-15-82	No Sample	filter	head fell	off	up
2-16-82	9.8×10^{-11}	2-16	4.6×10^{-14}	2-24	
2-17-82	4.6×10^{-13}	2-17	2.8×10^{-14}	2-24	
2-18-82	Not counted		2.8×10^{-14}	2-24	
2-19-82	3.3×10^{-12}	2-19	2.8×10^{-14}	2-24	
2-22-82	No Sample		filter head	fell	off
2-23-82	2.2×10^{-11}	2-23	3.5×10^{-14}	3-3	
2-24-82	2.1×10^{-13}	2-24	2.3×10^{-14}	3-3	
2-25-82	1.6×10^{-11}	2-25	5.1×10^{-14}	3-3	
2-26-82	1.8×10^{-10}	2-26	4.0×10^{-14}	3-3	
3-1-82	2.0×10^{-11}	3-1	3.8×10^{-15}	3-10	
3-2-82	No Sample	Filter	Head	Lying	on ground
3-3-82	1.6×10^{-13}	3-3	1.7×10^{-14}	3-10	
3-4-82	2.3×10^{-13}	3-4	2.4×10^{-14}	3-10	
3-5-82	2.9×10^{-10}	3-5	7.5×10^{-14}	3-10	
3-8-82	3.1×10^{-11}	3-8	7.9×10^{-15}	3-17	
3-9-82	1.0×10^{-11}	3-9	2.4×10^{-14}	3-17	
3-10-82	3.1×10^{-11}	3-10	2.4×10^{-14}	3-17	
3-11-82	4.4×10^{-11}	3-11	3.4×10^{-14}	3-17	
3-12-82	4.0×10^{-11}	3-12	3.9×10^{-14}	3-17	
3-15-82	3.9×10^{-11}	3-15	9.6×10^{-15}	3-24	
3-16-82	4.4×10^{-12}	3-16	3.0×10^{-14}	3-24	
3-17-82	5.5×10^{-12}	3-17	2.9×10^{-14}	3-24	
3-18-82	5.5×10^{-12}	3-18	3.0×10^{-14}	3-24	
3-19-82	4.3×10^{-12}	3-19	2.9×10^{-14}	3-24	
3-22-82	2.5×10^{-11}	3-22	5.8×10^{-15}	3-31	
3-23-82	7.9×10^{-10}	3-23	1.9×10^{-14}	3-31	
3-24-82	4.5×10^{-11}	3-24	1.8×10^{-14}	3-31	
3-25-82	4.7×10^{-11}	3-25	1.8×10^{-14}	3-31	
3-26-82	5.4×10^{-12}	3-26	1.8×10^{-14}	3-31	
3-29-82	3.1×10^{-10}	3-29	9.5×10^{-15}	4-7	
3-30-82	8.8×10^{-11}	3-30	2.4×10^{-14}	4-7	
3-31-82	8.2×10^{-12}	3-31	3.4×10^{-14}	4-7	
4-1-82	2.6×10^{-11}	4-1	3.3×10^{-14}	4-7	

Environmental Monitoring Station Summary Log

Station - 3

Page 7

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
12-23-81	8.3×10^{-12}	12-23	4.7×10^{-14}	12-29	
12-28-81			6.4×10^{-15}	1-5-82	
12-29-81	2.5×10^{-10}	12-29	4.3×10^{-14}	1-5	
12-30-81	1.4×10^{-10}	12-30	4.6×10^{-14}	1-5	
12-31-81	6.8×10^{-11}	12-31	2.1×10^{-14}	1-5	
1-4-82	Sample Void				ext. cord stolen
1-5-82	2.6×10^{-11}	1-5	5.2×10^{-14}	1-13	
1-6-82	1.8×10^{-11}	1-6	4.5×10^{-14}	1-13	
1-7-82	2.6×10^{-12}	1-7	4.6×10^{-14}	1-13	
1-8-82	9.9×10^{-13}	1-8	4.3×10^{-14}	1-13	
1-11-82	5.2×10^{-13}	1-11	4.1×10^{-14}	1-22	
1-12-82	2.4×10^{-10}	1-12	4.2×10^{-14}	1-22	
1-13-82	2.2×10^{-11}	1-13	4.2×10^{-14}	1-22	
1-14-82	6.8×10^{-11}	1-14	4.2×10^{-14}	1-22	
1-15-82	1.8×10^{-10}	1-15	4.3×10^{-14}	1-22	
1-18-82	1.3×10^{-11}	1-18	4.7×10^{-14}	2-1	
1-19-82	3.3×10^{-11}	1-19	4.3×10^{-14}	2-1	
1-20-82	1.2×10^{-10}	1-20	4.3×10^{-14}	2-1	
1-21-82	4.7×10^{-13}	1-21	4.2×10^{-14}	2-1	
1-22-82	5.0×10^{-13}	1-22	4.2×10^{-14}	2-1	
1-25-82	1.7×10^{-12}	1-25	4.1×10^{-14}	2-4	
1-26-82	4.5×10^{-11}	1-26	2.4×10^{-14}	2-4	
1-27-82	3.2×10^{-11}	1-27	4.2×10^{-14}	2-4	
1-28-82	2.4×10^{-12}	1-28	4.5×10^{-14}	2-4	
1-29-82	4.2×10^{-11}	1-29	4.2×10^{-14}	2-4	
2-1-82	1.1×10^{-11}	2-1	4.5×10^{-15}	2-10	
2-2-82	3.1×10^{-11}	2-2	3.4×10^{-14}	2-10	
2-3-82	1.3×10^{-11}	2-3	4.8×10^{-14}	2-10	
2-4-82	Sample Void				fuse blown
2-5-82	6.7×10^{-12}	2-5	4.9×10^{-14}	2-10	
2-8-82	2.1×10^{-10}	2-8	4.7×10^{-15}	2-17	
2-9-82	7.5×10^{-12}	2-9	4.2×10^{-14}	2-17	
2-10-82	3.8×10^{-11}	2-10	4.3×10^{-14}	2-17	
2-11-82	8.5×10^{-11}	2-11	4.2×10^{-14}	2-17	
2-12-82	1.3×10^{-10}	2-12	2.9×10^{-14}	2-17	

Environmental Monitoring Station Summary Log

Station. 3

Page 6

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
11-2-81	3.1×10^{-11}	11-3	41.2×10^{-14}	11-11	
11-3-81	7.5×10^{-12}	11-3	45.4×10^{-14}	11-11	
11-4-81	6.8×10^{-11}	11-4	42.8×10^{-14}	11-11	
11-5-81	1.7×10^{-10}	11-5	43.8×10^{-14}	11-11	
11-6-81	6.0×10^{-12}	11-6	45.3×10^{-14}	11-11	
11-9-81	3.0×10^{-10}	11-9	42.1×10^{-14}	11-18	
11-10-81	9.2×10^{-10}	11-10	42.7×10^{-14}	11-18	
11-11-81	7.1×10^{-10}	11-11	43.6×10^{-14}	11-18	
11-12-81	3.5×10^{-10}	11-12	42.7×10^{-14}	11-18	
11-13-81	1.4×10^{-10}	11-13	44.8×10^{-14}	11-18	
11-16-81	7.3×10^{-10}	11-16	41.2×10^{-14}	11-25	
11-17-81	2.2×10^{-10}	11-17	43.8×10^{-14}	11-25	
11-18-81	7.2×10^{-10}	11-18	45.7×10^{-14}	11-25	
11-19-81	1.4×10^{-11}	11-19	43.7×10^{-14}	11-25	
11-20-81					filter destroyed
11-23-81	1.2×10^{-10}	11-23	47.1×10^{-15}	12-2	
11-24-81	5.5×10^{-12}	11-24	42.1×10^{-14}	12-2	
11-25-81	4.0×10^{-10}	11-25	43.2×10^{-14}	12-2	
11-30-81	2.2×10^{-10}	11-30	47.6×10^{-15}	12-9	
12-1-81	2.2×10^{-11}	12-1	43.7×10^{-14}	12-9	
12-2-81	6.0×10^{-12}	12-2	45.0×10^{-14}	12-9	
12-3-81	5.0×10^{-10}	12-3	44.7×10^{-14}	12-9	
12-4-81	2.9×10^{-11}	12-4	43.9×10^{-14}	12-9	
12-7-81	9.3×10^{-11}	12-7	42.0×10^{-14}	12-16	
12-8-81	6.6×10^{-12}	12-8	43.8×10^{-14}	12-16	
12-9-81	9.2×10^{-12}	12-9	43.8×10^{-14}	12-16	
12-10-81	1.0×10^{-11}	12-10	43.8×10^{-14}	12-16	
12-11-81	2.5×10^{-11}	12-11	45.7×10^{-14}	12-16	
12-14-81	1.9×10^{-10}	12-14	41.7×10^{-14}	12-29	
12-15-81	8.1×10^{-12}	12-15	46.6×10^{-14}	12-29	
12-16-81	8.1×10^{-12}	12-16	48.3×10^{-14}	12-29	
12-17-81	1.6×10^{-11}	12-17	45.0×10^{-14}	12-29	
12-18-81	4.7×10^{-12}	12-18	44.4×10^{-14}	12-29	
12-21-81	1.2×10^{-10}	12-21	4.2×10^{-14}	12-29	
12-22-81	6.0×10^{-12}	12-22	44.9×10^{-14}	12-29	

Environmental Monitoring Station Summary Log

Station - 4

Page 11

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
7-13-82	2.4×10^{-10}	7-13	$< 3.4 \times 10^{-14}$	7-21	
7-14-82	4.1×10^{-11}	7-14	$< 2.4 \times 10^{-14}$	7-21	
7-15-82	3.8×10^{-11}	7-15	$< 2.4 \times 10^{-14}$	7-21	
7-16-82	1.9×10^{-11}	7-16	$< 2.8 \times 10^{-14}$	7-22	
7-19-82	2.4×10^{-10}	7-19	5.7×10^{-15}	7-28	
7-20-82	1.2×10^{-11}	7-20	1.7×10^{-14}	7-28	
7-21-82	1.1×10^{-11}	7-21	6.4×10^{-14}	7-28	
7-22-82	6.0×10^{-12}	7-22	$< 1.4 \times 10^{-14}$	7-28	
7-23-82	1.4×10^{-12}	7-23	$< 2.5 \times 10^{-14}$	7-28	
7-26-82	5.9×10^{-10}	7-26	1.5×10^{-14}	8-4	
7-27-82	3.2×10^{-10}	7-27	$< 3.6 \times 10^{-14}$	8-4	
7-28-82	2.7×10^{-11}	7-28	$< 2.0 \times 10^{-14}$	8-4	
7-29-82	3.9×10^{-10}	8-29	$< 1.9 \times 10^{-14}$	8-4	
7-30-82	2.8×10^{-10}	7-30	7.8×10^{-14}	8-4	
8-2-82	7.1×10^{-10}	8-2	1.9×10^{-14}	8-11	
8-3-82	4.8×10^{-11}	8-3	$< 2.0 \times 10^{-14}$	8-11	
8-4-82	2.8×10^{-11}	8-4	$< 1.9 \times 10^{-14}$	8-11	
8-5-82	8.8×10^{-12}	8-5	$< 2.0 \times 10^{-14}$	8-11	
8-6-82	6.3×10^{-12}	8-6	$< 1.9 \times 10^{-14}$	8-11	
8-9-82	2.8×10^{-10}	8-9	$< 7.9 \times 10^{-15}$	8-18	
8-10-82	1.3×10^{-10}	8-10	2.8×10^{-14}	8-18	
8-11-82	7.0×10^{-10}	8-11	$< 2.4 \times 10^{-14}$	8-18	
8-12-82	3.1×10^{-10}	8-12	$< 2.4 \times 10^{-14}$	8-18	
8-13-82	6.5×10^{-10}	8-13	5.0×10^{-14}	8-18	
8-16-82	3.2×10^{-10}	8-16	1.1×10^{-14}	8-25	
8-17-82	1.8×10^{-9}	8-17	$< 2.0 \times 10^{-14}$	8-25	
8-18-82	8.1×10^{-10}	8-18	$< 2.0 \times 10^{-14}$	8-25	
8-19-82	1.9×10^{-10}	8-19	$< 3.8 \times 10^{-14}$	8-25	
8-20-82	1.6×10^{-10}	8-20	3.4×10^{-14}	8-25	
8-23-82	3.4×10^{-10}	8-23	$< 7.6 \times 10^{-15}$	9-1	
8-24-82	9.2×10^{-10}	8-24	$< 3.4 \times 10^{-14}$	9-1	
8-25-82	3.9×10^{-11}	8-25	$< 2.2 \times 10^{-14}$	9-1	
8-26-82	7.7×10^{-10}	8-26	$< 3.2 \times 10^{-14}$	9-1	
8-27-82	7.3×10^{-10}	8-27	4.9×10^{-14}	9-1	
8-30-82	7.2×10^{-10}	8-30	$< 1.4 \times 10^{-14}$	9-9	

Environmental Monitoring Station Summary Log

Station - 4

Page 10

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
5-21-82	6.0×10^{-12}	5-21-82	2.4×10^{-14}	5-26	
5-24-82	1.8×10^{-10}	5-24	2.5×10^{-15}	6-2	
5-25-82	2.1×10^{-11}	5-25	2.5×10^{-14}	6-2	
5-26-82	7.6×10^{-12}	5-26	2.7×10^{-14}	6-2	
5-27-82	8.1×10^{-12}	5-27	2.7×10^{-14}	6-2	
5-28-82	1.2×10^{-10}	5-28	4.5×10^{-14}	6-2	
6-1-82	6.2×10^{-11}	6-1	5.9×10^{-15}	6-9	
6-2-82	2.3×10^{-10}	6-2	2.4×10^{-14}	6-9	
6-3-82	4.4×10^{-12}	6-3	2.8×10^{-14}	6-9	
6-4-82	4.4×10^{-12}	6-4	3.2×10^{-14}	6-9	
6-7-82	5.8×10^{-11}	6-7	9.3×10^{-15}	6-16	
6-8-82	1.9×10^{-10}	6-8	2.4×10^{-14}	6-16	
6-9-82	5.5×10^{-11}	6-9	2.4×10^{-14}	6-16	
6-10-82	1.6×10^{-10}	6-10	2.4×10^{-14}	6-16	
6-11-82	6.2×10^{-10}	6-11	7.5×10^{-14}	6-16	
6-14-82	4.3×10^{-10}	6-14	1.7×10^{-14}	6-24	
6-15-82	3.6×10^{-11}	6-15	2.5×10^{-14}	6-24	
6-16-82	7.8×10^{-12}	6-16	2.5×10^{-14}	6-24	
6-17-82	3.7×10^{-11}	6-17	5.1×10^{-14}	6-24	
6-18-82	2.3×10^{-10}	6-18	3.4×10^{-14}	6-24	
6-21-82	3.7×10^{-10}	6-21	1.1×10^{-14}	7-1	
6-22-82	2.7×10^{-10}	6-22	3.4×10^{-14}	7-1	
6-23-82	2.1×10^{-11}	6-23	1.5×10^{-13}	7-1	
6-24-82	1.7×10^{-10}	6-24	2.5×10^{-14}	7-1	
6-25-82	4.5×10^{-11}	6-25	2.0×10^{-14}	7-1	
6-28-82	3.1×10^{-11}	6-28	9.0×10^{-14}	7-7	
6-29-82	1.1×10^{-09}	6-29	2.8×10^{-14}	7-7	
6-30-82	2.9×10^{-11}	6-30	2.7×10^{-14}	7-7	
7-1-82	1.5×10^{-09}	7-1	3.3×10^{-14}	7-7	
7-2-82	6.6×10^{-10}	7-2	6.6×10^{-14}	7-7	
7-6-82	6.3×10^{-11}	7-6	9.7×10^{-15}	7-14	
7-7-82	1.5×10^{-11}	7-7	2.4×10^{-14}	7-14	
7-8-82	2.4×10^{-10}	7-8	3.3×10^{-14}	7-14	
7-9-82	6.0×10^{-10}	7-9	1.3×10^{-13}	7-14	
7-12-82	2.9×10^{-10}	7-12	8.0×10^{-15}	7-21	

Environmental Monitoring Station Summary Log

Station - 4

Page 9

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
4-2-82	4.8×10^{-12}	4-2	4.25×10^{-14}	4-2	
4-5-82	1.1×10^{-11}	4-5	2.2×10^{-14}	4-14	
4-6-82	3.1×10^{-12}	4-6	3.5×10^{-14}	4-14	
4-7-82	3.9×10^{-10}	4-7	4.21×10^{-14}	4-14	
4-8-82	1.4×10^{-12}	4-8	2.3×10^{-14}	4-14	
4-12-82	3.8×10^{-11}	4-12	4.9×10^{-15}	4-21	
4-13-82	3.5×10^{-11}	4-13	4.21×10^{-14}	4-21	
4-14-82	3.0×10^{-11}	4-14	2.2×10^{-14}	4-21	
4-15-82	8.2×10^{-11}	4-15	4.20×10^{-14}	4-21	
4-16-82	2.6×10^{-11}	4-16	4.39×10^{-14}	4-21	
4-19-82	4.8×10^{-11}	4-19	8.0×10^{-15}	4-28	
4-20-82	8.9×10^{-11}	4-20	3.5×10^{-14}	4-28	
4-21-82	1.8×10^{-10}	4-21	3.4×10^{-14}	4-28	
4-22-82	4.2×10^{-10}	4-22	2.8×10^{-14}	4-28	
4-23-82	3.8×10^{-10}	4-23	2.8×10^{-14}	4-28	
4-26-82	4.2×10^{-10}	4-26	4.64×10^{-15}	5-5	
4-27-82	6.7×10^{-12}	4-27	4.0×10^{-14}	5-5	
4-28-82	5.3×10^{-12}	4-28	3.9×10^{-14}	5-5	
4-29-82	6.7×10^{-12}	4-29	2.2×10^{-14}	5-5	
4-30-82	1.0×10^{-10}	4-30	4.2×10^{-14}	5-5	
5-3-82	4.5×10^{-10}	5-3	4.2×10^{-15}	5-12	
5-4-82	5.3×10^{-11}	5-4	4.21×10^{-14}	5-12	
5-5-82	3.3×10^{-11}	5-5	4.9×10^{-14}	5-12	
5-6-82	4.1×10^{-11}	5-6	4.20×10^{-14}	5-12	
5-7-82	1.4×10^{-10}	5-7	4.9×10^{-14}	5-12	
5-10-82	7.7×10^{-11}	5-10	4.5×10^{-14}	5-19	
5-11-82	3.5×10^{-11}				
5-11-82	3.6×10^{-11}	5-11	3.3×10^{-14}	5-19	
5-12-82	4.2×10^{-11}	5-12	3.2×10^{-14}	5-19	
5-13-82	3.7×10^{-11}	5-13	3.3×10^{-14}	5-19	
5-14-82	3.0×10^{-10}	5-14	8.2×10^{-14}	5-19	
5-17-82	1.3×10^{-10}	5-17	4.1×10^{-14}	5-26	
5-18-82	3.4×10^{-10}	5-18	3.4×10^{-14}	5-26	
5-19-82	2.1×10^{-10}	5-19	4.24×10^{-14}	5-26	
5-20-82	4.0×10^{-10}	5-20	4.24×10^{-14}	5-26	

Environmental Monitoring Station Summary Log

Station - 4

Page 8

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
2-15-82	9.0×10^{-12}	2-15	49.3×10^{-15}	2-24	
2-16-82	2.0×10^{-11}	2-16	42.9×10^{-14}	2-24	
2-17-82	1.7×10^{-13}	2-17	42.8×10^{-14}	2-24	
2-18-82	2.3×10^{-13}	2-18	42.8×10^{-14}	2-24	
2-19-82	2.8×10^{-11}	2-19	46.2×10^{-14}	2-24	
2-22-82	1.7×10^{-10}	2-22	41.7×10^{-14}	3-3	
2-23-82	3.5×10^{-11}	2-23	42.3×10^{-14}	3-3	
2-24-82	41.6×10^{-13}	2-24	42.2×10^{-14}	3-3	
2-25-82	2.3×10^{-13}	2-25	42.2×10^{-14}	3-3	
2-26-82	9.8×10^{-12}	2-26	42.3×10^{-14}	3-3	
3-	1.2×10^{-11}	3-1	43.8×10^{-15}	3-10	
3-2-82	2.1×10^{-11}	3-2	41.2×10^{-14}	3-10	
3-3-82	2.1×10^{-13}	3-3	42.3×10^{-14}	3-10	
3-4-82	41.5×10^{-13}	3-4	2.8×10^{-14}	3-10	
3-5-82	1.8×10^{-10}	3-5	2.9×10^{-14}	3-10	
3-8-82	9.9×10^{-11}	3-8	41.2×10^{-14}	3-17	
3-9-82	3.8×10^{-11}	3-9	45.3×10^{-14}	3-17	
3-10-82	1.4×10^{-12}	3-10	42.4×10^{-14}	3-17	
3-11-82	40×10^{-11}	3-11	42.3×10^{-14}	3-17	
3-12-82	1.4×10^{-12}	3-12	43.6×10^{-14}	3-17	
3-15-82	9.9×10^{-12}	3-15	49.7×10^{-15}	3-24	
3-16-82	5.2×10^{-13}	3-16	46.6×10^{-14}	3-24	
3-17-82	3.5×10^{-11}	3-17	42.9×10^{-14}	3-24	
3-18-82	3.1×10^{-12}	3-18	42.9×10^{-14}	3-24	
3-19-82	2.1×10^{-12}	3-19	42.9×10^{-14}	3-24	
3-22-82	1.8×10^{-10}	3-22	45.9×10^{-15}	3-31	
3-23-82	3.7×10^{-10}	3-23	41.8×10^{-14}	3-31	
3-24-82	2.4×10^{-11}	3-24	41.8×10^{-14}	3-31	
3-25-82	1.1×10^{-10}	3-25	41.8×10^{-14}	3-31	
3-26-82	3.9×10^{-11}	3-26	2.3×10^{-14}	3-31	
3-29-82	1.6×10^{-11}	3-29	9.5×10^{-15}	4-7	
3-30-82	3.7×10^{-12}	3-30	42.5×10^{-14}	4-7	
3-31-82	2.1×10^{-11}	3-31	5.3×10^{-14}	4-7	
4-1-82	2.2×10^{-10}	4-1	45.0×10^{-14}	4-7	

Environmental Monitoring Station Summary Log

Station - 4

Page 7

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
12-23-81	5.4×10^{-11}	12-23	45.3×10^{-14}	12-29	
12-28-81			8.5×10^{-15}	1-5-82	
12-29-81	4.1×10^{-10}	12-29	33×10^{-14}	1-5	
12-30-81	3.5×10^{-12}	12-30	639×10^{-14}	1-5	
12-31-81	1.0×10^{-12}	12-31	41.6×10^{-14}	1-5	
1-4-82	1.6×10^{-11}	1-4	49.2×10^{-15}	1-13	
1-5-82	1.3×10^{-11}	1-5	43.8×10^{-14}	1-13	
1-6-82	1.6×10^{-11}	1-6	43.7×10^{-14}	1-13	
1-7-82	5.1×10^{-12}	1-7	44.7×10^{-14}	1-13	
1-8-82	7.5×10^{-12}	1-8	5.8×10^{-14}	1-13	
1-11-82	1.5×10^{-11}	1-11	2.8×10^{-14}	1-22	
1-12-82	5.8×10^{-11}	1-12	2.6×10^{-14}	1-22	
1-13-82	5.6×10^{-11}	1-13	44.0×10^{-14}	1-22	
1-14-82	5.0×10^{-11}	1-14	45.5×10^{-14}	1-22	
1-15-82	4.7×10^{-12}	1-15	42.6×10^{-14}	1-22	
1-18-82	2.4×10^{-12}	1-18	49.6×10^{-15}	2-1	
1-19-82	1.9×10^{-12}	1-19	43.5×10^{-14}	2-1	
1-20-82	1.6×10^{-12}	1-20	42.2×10^{-14}	2-1	
1-21-82	2.0×10^{-13}	1-21	42.5×10^{-14}	2-1	
1-22-82	2.8×10^{-13}	1-22	44.9×10^{-14}	2-1	
1-25-82	5.3×10^{-12}	1-25	9.5×10^{-15}	2-4	
1-26-82	9.8×10^{-11}	1-26	43.3×10^{-14}	2-4	
1-27-82	6.5×10^{-13}	1-27	42.3×10^{-14}	2-4	
1-28-82	1.2×10^{-11}	1-28	2.9×10^{-14}	2-4	
1-29-82	3.5×10^{-11}	1-29	44.9×10^{-14}	2-4	
2-1-82	3.2×10^{-11}	2-1	41.3×10^{-14}	2-10	
2-2-82	1.7×10^{-12}	2-2	41.8×10^{-14}	2-10	
2-3-82	2.5×10^{-13}	2-3	41.8×10^{-14}	2-10	
2-4-82	3.1×10^{-13}	2-4	2.2×10^{-14}	2-10	
2-5-82	2.5×10^{-12}	2-5	41.7×10^{-14}	2-10	
2-8-82	1.2×10^{-10}	2-8	41.1×10^{-14}	2-17	
2-9-82	5.6×10^{-12}	2-9	4.1×10^{-14}	2-17	
2-10-82	1.7×10^{-11}	2-10	42.3×10^{-14}	2-17	
2-11-82	1.1×10^{-13}	2-11	42.2×10^{-14}	2-17	
2-12-82	8.9×10^{-11}	2-12	45.3×10^{-14}	2-17	

Environmental Monitoring Station Summary Log

Station 4

Page 6

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
11-2-81	3.4×10^{-11}	11-2	4.1×10^{-14}	11-11	
11-3-81	3.9×10^{-12}	11-3	4.6×10^{-14}	11-11	
11-4-81	2.9×10^{-12}	11-4	4.5×10^{-14}	11-11	
11-5-81	1.4×10^{-10}	11-5	6.1×10^{-14}	11-11	
11-6-81	8.8×10^{-11}	11-6	4.3×10^{-14}	11-11	
11-9-81	9.0×10^{-11}	11-9	4.2×10^{-14}	11-18	
11-10-81	1.7×10^{-10}	11-10	4.3×10^{-14}	11-18	
11-11-81	5.0×10^{-10}	11-11	4.6×10^{-14}	11-18	
11-12-81	2.8×10^{-10}	11-12	4.5×10^{-14}	11-18	
11-13-81	5.2×10^{-11}	11-13	6.3×10^{-14}	11-18	
11-16-81	3.5×10^{-10}	11-16	4.2×10^{-14}	11-30	
11-17-81	7.5×10^{-10}	11-17	4.5×10^{-14}	11-25	
11-18-81	1.0×10^{-9}	11-18	4.7×10^{-14}	11-25	
11-19-81	3.4×10^{-12}	11-19	4.5×10^{-14}	11-25	
11-20-81	3.6×10^{-12}	11-20	4.8×10^{-14}	11-25	
11-23-81	1.2×10^{-10}	11-23	4.2×10^{-14}	12-2	
11-24-81	8.9×10^{-13}	11-24	6.1×10^{-14}	12-2	
11-25-81	2.3×10^{-10}	11-25	3.5×10^{-14}	12-2	
11-30-81	7.2×10^{-11}	11-30	9.4×10^{-15}	12-9	
12-1-81	2.8×10^{-12}	12-1	4.9×10^{-14}	12-9	
12-2-81	2.5×10^{-11}	12-2	4.6×10^{-14}	12-9	
12-3-81	3.7×10^{-10}	12-3	4.3×10^{-14}	12-9	
12-4-81	7.9×10^{-12}	12-4	4.3×10^{-14}	12-9	
12-7-81	4.7×10^{-11}	12-7	2.3×10^{-14}	12-16	
12-8-81	4.7×10^{-11}	12-8	4.3×10^{-14}	12-16	
12-9-81	3.7×10^{-11}	12-9	4.7×10^{-14}	12-16	
12-10-81	5.9×10^{-11}	12-10	5.9×10^{-14}	12-16	
12-11-81	4.9×10^{-11}	12-11	4.7×10^{-14}	12-16	
12-14-81	2.0×10^{-10}	12-14	4.2×10^{-14}	12-29	
12-15-81	5.4×10^{-11}	12-15	4.4×10^{-14}	12-29	
12-16-81	8.8×10^{-11}	12-16	4.9×10^{-14}	12-29	
12-17-81	2.0×10^{-11}	12-17	4.5×10^{-14}	12-29	
12-18-81	1.6×10^{-11}	12-18	4.4×10^{-14}	12-29	
12-21-81	5.1×10^{-11}	12-21	4.7×10^{-14}	12-29	
12-22-81	3.5×10^{-11}	12-22	4.4×10^{-14}	12-29	

Environmental Monitoring Station Summary Log

Station - 5

Page 7

Sample Date	Activity ug/ml	Date	Th-nat Conc.	Activity ug/ml	Date	Comments
8-10-82	9.4 x 10 ⁻¹¹	8-10	2.1 x 10 ⁻¹⁴	2.1 x 10 ⁻¹⁴	8-18	
8-11-82	1.6 x 10 ⁻⁹	8-11	3.0 x 10 ⁻¹⁴	3.0 x 10 ⁻¹⁴	8-18	
8-12-82	7.9 x 10 ⁻⁹	8-12	4.5 x 10 ⁻¹⁴	4.5 x 10 ⁻¹⁴	8-18	
8-13-82	1.1 x 10 ⁻⁹	8-13	1.9 x 10 ⁻¹³	1.9 x 10 ⁻¹³	8-18	
8-16-82	1.1 x 10 ⁻⁹	8-16	6.7 x 10 ⁻¹⁵	6.7 x 10 ⁻¹⁵	8-25	
8-17-82	2.6 x 10 ⁻¹¹	8-17	2.0 x 10 ⁻¹⁴	2.0 x 10 ⁻¹⁴	8-25	
8-18-82	1.7 x 10 ⁻⁹	8-18	2.0 x 10 ⁻¹⁴	2.0 x 10 ⁻¹⁴	8-25	
8-22-82	2.6 x 10 ⁻¹¹	8-22	3.4 x 10 ⁻¹⁴	3.4 x 10 ⁻¹⁴	8-25	
8-23-82	3.4 x 10 ⁻¹⁰	8-23	8.1 x 10 ⁻¹⁵	8.1 x 10 ⁻¹⁵	9-1	
8-24-82	1.3 x 10 ⁻⁹	8-24	4.4 x 10 ⁻¹⁴	4.4 x 10 ⁻¹⁴	9-1	
8-25-82	9.0 x 10 ⁻¹¹	8-25	2.1 x 10 ⁻¹⁴	2.1 x 10 ⁻¹⁴	9-1	
8-26-82	6.4 x 10 ⁻¹⁰	8-26	2.1 x 10 ⁻¹⁴	2.1 x 10 ⁻¹⁴	9-1	
8-27-82	2.7 x 10 ⁻¹⁰	8-27	6.4 x 10 ⁻¹⁴	6.4 x 10 ⁻¹⁴	9-1	
8-30-82	4.3 x 10 ⁻¹⁰	8-30	1.3 x 10 ⁻¹⁴	1.3 x 10 ⁻¹⁴	9-9	
8-31-82	8.5 x 10 ⁻¹¹	8-31	2.5 x 10 ⁻¹⁴	2.5 x 10 ⁻¹⁴	9-9	
9-1-82	5.8 x 10 ⁻¹⁰	9-1	2.4 x 10 ⁻¹⁴	2.4 x 10 ⁻¹⁴	9-9	
9-2-82	1.2 x 10 ⁻⁹	9-2	2.5 x 10 ⁻¹⁴	2.5 x 10 ⁻¹⁴	9-9	
9-3-82	6.2 x 10 ⁻¹¹	9-3	3.3 x 10 ⁻¹⁴	3.3 x 10 ⁻¹⁴	9-9	
9-7-82	2.0 x 10 ⁻¹⁰	9-7	3.7 x 10 ⁻¹⁵	3.7 x 10 ⁻¹⁵	9-15	
9-9-82	9.1 x 10 ⁻¹⁰	9-9	1.2 x 10 ⁻¹⁴	1.2 x 10 ⁻¹⁴	9-15	
9-9-82	2.1 x 10 ⁻⁹	9-9	5.6 x 10 ⁻¹⁴	5.6 x 10 ⁻¹⁴	9-15	
9-10-82	2.0 x 10 ⁻¹⁰	9-10	5.4 x 10 ⁻¹⁴	5.4 x 10 ⁻¹⁴	9-15	
9-13-82	8.4 x 10 ⁻¹¹	9-13				
9-14-82	8.8 x 10 ⁻¹⁰	9-14				
9-15-82	1.4 x 10 ⁻¹⁰	9-15				
9-16-82	3.9 x 10 ⁻¹⁰	9-16				

Environmental Monitoring Station Summary Log

Station - 5

Page 6

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
6-21-82	1.5×10^{-10}	6-21	1.2×10^{-14}	7-1	
6-22-82	No SAMPLE			7-1	
6-23-82	9.6×10^{-10}	6-23	2.7×10^{-14}	7-1	
6-24-82	6.4×10^{-10}	6-24	2.6×10^{-14}	7-1	
6-25-82	No SAMPLE		PUMP OFF		
6-28-82	2.6×10^{-10}	6-28	$< 1.3 \times 10^{-14}$	7-7	
6-29-82	1.2×10^{-09}	6-29	$< 2.5 \times 10^{-17}$	7-7	
6-30-82	1.6×10^{-10}	6-30	$< 2.4 \times 10^{-14}$	7-7	
7-1-82	1.6×10^{-09}	7-1	$< 5.4 \times 10^{-14}$	7-7	
7-2-82	3.5×10^{-10}	7-2	3.0×10^{-14}	7-7	
7-6-82	NO SAMPLE	7-6	Pump FOUND	NOT RUNNING.	
7-7-82	6.9×10^{-10}	7-7	$< 3.0 \times 10^{-14}$	7-14	
7-8-82	3.3×10^{-10}	7-8	$< 2.9 \times 10^{-14}$	7-14	
7-9-82	1.3×10^{-9}	7-9	2.4×10^{-13}	7-14	
7-12-82	3.8×10^{-11}	7-12	$< 7.2 \times 10^{-14}$	7-21	
7-13-82	2.2×10^{-10}	7-13	$< 4.7 \times 10^{-14}$	7-21	
7-14-82	9.9×10^{-11}	7-14	$< 2.2 \times 10^{-14}$	7-21	
7-15-82	3.4×10^{-11}	7-15	$< 2.2 \times 10^{-14}$	7-21	
7-16-82	6.4×10^{-11}	7-16	$< 2.5 \times 10^{-14}$	7-22	
7-19-82	2.5×10^{-10}	7-19	1.2×10^{-14}	7-28	
7-20-82	1.8×10^{-10}	7-20	1.5×10^{-14}	7-28	
7-21-82	7.5×10^{-11}	7-21	$< 2.2 \times 10^{-14}$	7-28	
7-22-82	1.5×10^{-11}	7-22	$< 1.3 \times 10^{-14}$	7-28	
7-23-82	6.5×10^{-11}	7-23	$< 1.7 \times 10^{-14}$	7-28	
7-26-82	4.7×10^{-10}	7-26	$< 1.1 \times 10^{-14}$	8-4	
7-27-82	7.8×10^{-10}	7-27	$< 1.7 \times 10^{-14}$	8-4	
7-28-82	1.4×10^{-10}	7-28	2.1×10^{-14}	8-4	
7-29-82	1.3×10^{-9}	7-29	3.0×10^{-14}	8-4	
7-30-82	1.3×10^{-10}	7-30	$< 3.5 \times 10^{-14}$	8-4	
8-2-82	1.1×10^{-10}	8-2	$< 5.7 \times 10^{-15}$	8-11	
8-3-82	1.0×10^{-10}	8-3	$< 1.8 \times 10^{-14}$	8-11	
8-4-82	3.4×10^{-11}	8-4	$< 1.7 \times 10^{-14}$	8-11	
8-5-82	2.4×10^{-11}	8-5	$< 3.4 \times 10^{-14}$	8-11	
8-6-82	4.1×10^{-11}	8-6	$< 1.7 \times 10^{-14}$	8-11	
8-9-82	5.1×10^{-11}	8-9	$< 7.0 \times 10^{-15}$	8-18	

Environmental Monitoring Station Summary Log

Station - 5

Page 5

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
11-4-81			1.8×10^{-13}	11-11	
11-13-81			4.3×10^{-14}	11-18	
11-20-81			5.1×10^{-14}	12-2	
11-30-81			2.1×10^{-13}	11-30	lost running 11-25-81
12-4-81			4.37×10^{-13}	12-16	
12-11-81			4.13×10^{-13}	12-16	
12-18-81			3.8×10^{-14}	1-5	
12-23-81			4.67×10^{-14}	1-5	
12-30-81			4.28×10^{-14}	1-5	
1-8-82			4.61×10^{-14}	1-13	
1-14-82	Sample void				pump not running
1-22-82			4.51×10^{-14}	2-1	
1-29-82			4.41×10^{-14}	2-4	
2-5-82			4.30×10^{-14}	2-10	
2-12-82			5.1×10^{-14}	2-17	
2-19-82			4.60×10^{-14}	2-24	
2-26-82			4.40×10^{-14}	3-3	
3-5-82			4.41×10^{-14}	3-10	
3-12-82			4.11×10^{-13}	3-17	
3-19-82			4.52×10^{-14}	3-24	
3-26-82			4.74×10^{-14}	3-31	
4-2-82			4.91×10^{-14}	4-7	
4-8-82			2.0×10^{-13}	4-14	
4-16-82			4.61×10^{-14}	4-21	
4-23-82			4.45×10^{-14}	4-28	
4-30-82			4.68×10^{-14}	5-5	
5-7-82			4.75×10^{-14}	5-13	
5-14-82			4.60×10^{-14}	5-19	
5-21-82			4.58×10^{-14}	5-26	
5-28-82			4.10×10^{-13}	6-2	
6-4-82			4.4×10^{-14}	6-9	
⁰⁻¹¹⁻⁸² 5-82	3.1×10^{-11}	6-15	⁰⁻¹⁶ 4.6×10^{-14} 4.31×10^{-14}	⁰⁻¹⁶ 6-24	AC pump 6-4-82
6-16-82	5.4×10^{-11}	6-16	4.22×10^{-14}	6-24	
6-17-82	1.3×10^{-10}	6-17	4.21×10^{-14}	6-24	
6-18-82	5.5×10^{-10}	6-18	4.6×10^{-14}	6-24	

Environmental Monitoring Station Summary Log

Station - 6

Page 6

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
6-21-82	7.6×10^{-10}	6-21	19.9×10^{-15}	7-1	
6-22-82	8.2×10^{-10}	6-22	2.2×10^{-14}	7-1	
6-23-82	6.7×10^{-9}	6-23	2.5×10^{-14}	7-1	
6-24-82	5.7×10^{-9}	6-24	7.9×10^{-14}	7-1	
6-25-82	2.1×10^{-11}	6-25	2.0×10^{-14}	7-1	
6-28-82	4.9×10^{-10}	6-28	8.1×10^{-15}	7-7	
6-29-82	3.9×10^{-9}	6-29	2.4×10^{-14}	7-7	
6-30-82	2.5×10^{-10}	6-30	2.4×10^{-14}	7-7	
7-1-82	NO	SAMPLE			
7-2-82	1.1×10^{-8}	7-2	9.7×10^{-13}	7-7	
7-6-82	5.5×10^{-11}	7-6	8.7×10^{-15}	7-14	
7-7-82	6.9×10^{-12}	7-7	2.2×10^{-14}	7-14	
7-8-82	3.2×10^{-10}	7-8	2.9×10^{-14}	7-14	
7-9-82	NO SAMPLE PUMP FOUND			NOT	RUNNING
7-12-82	2.2×10^{-9}	7-12	1.5×10^{-14}	7-21	
7-13-82	2.5×10^{-9}	7-13	2.2×10^{-14}	7-21	
7-14-82	3.7×10^{-10}	7-14	2.2×10^{-14}	7-21	
7-15-82	1.9×10^{-11}	7-15	3.0×10^{-14}	7-21	
7-16-82	SAMPLE INVALID - Flow Bypassed Filter				
7-19-82	8.2×10^{-10}	7-19	1.2×10^{-14}	7-28	
7-20-82	2.4×10^{-10}	7-20	3.6×10^{-14}	7-28	
7-21-82	5.0×10^{-10}	7-21	2.2×10^{-14}	7-28	
7-22-82	SAMPLE INVALID - PUMP FAILURE				
7-23-82	2.0×10^{-10}	7-23	3.0×10^{-14}	7-28	
7-26-82	1.9×10^{-8}	7-26	5.7×10^{-15}	8-4	
7-27-82	3.3×10^{-9}	7-27	1.7×10^{-14}	8-4	
7-28-82	NO SAMPLE - PUMP SHUT OFF				
7-29-82	1.4×10^{-9}	7-29	2.1×10^{-14}	8-4	
7-30-82	5.5×10^{-10}	7-30	4.0×10^{-14}	8-4	
8-2-82	1.1×10^{-9}	8-2	1.1×10^{-14}	8-11	
8-3-82	3.0×10^{-10}	8-3	2.1×10^{-14}	8-11	
8-4-82	5.2×10^{-11}	8-4	2.0×10^{-14}	8-11	
8-5-82	1.6×10^{-11}	8-5	3.4×10^{-14}	8-11	
8-6-82	2.6×10^{-10}	8-6	3.4×10^{-14}	8-11	
8-9-82	1.1×10^{-10}	8-9	8.2×10^{-15}	8-18	

Station - 6

Page 5

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
11-6-81			42.3×10^{-13}	11-11	
11-13-81			1.5×10^{-13}	11-18	
11-20-81			46.8×10^{-14}	12-2	
12-4-81			44.5×10^{-14}	12-16	
12-11-81			41.1×10^{-13}	12-16	
12-18-81			9.6×10^{-14}	1-5	
12-21-81			8.8×10^{-14}	1-5	
12-30-81			3.3×10^{-14}	1-5	
1-8-82			45.2×10^{-14}	1-13	
1-14-82			45.4×10^{-14}	1-22	
1-22-82			47.3×10^{-14}	2-1	
1-29-82			44.0×10^{-14}	2-4	
2-5-82			47.6×10^{-14}	2-10	
2-12-82			47.1×10^{-14}	2-17	
2-19-82			6.0×10^{-14}	2-24	
2-26-82			44.3×10^{-14}	3-3	
3-5-82			42.4×10^{-14}	3-10	
3-12-82			44.2×10^{-14}	3-17	
3-19-82			46.3×10^{-14}	3-24	
3-25-82			43.2×10^{-14}	3-31	
4-2-82			45.2×10^{-14}	4-7	
4-9-82			48.2×10^{-14}	4-14	
4-16-82			45.4×10^{-14}	4-21	
4-23-82			5.1×10^{-14}	4-28	
4-30-82			41.4×10^{-14}	5-5	
5-7-82			43.5×10^{-14}	5-13	
5-14-82			2.6×10^{-14}	5-19	
5-21-82			44.2×10^{-14}	5-26	
5-28-82	SAMPLE VOID				Filter appears "Too Clean"
6-4-82			44.2×10^{-14}	6-9	
6-14-82	5.7×10^{-9}		41.1×10^{-14}	6-24	AC. PUMP 6-19-82
6-15-82	1.3×10^{-11}	6-16	42.6×10^{-14}	6-24	
6-16-82	1.0×10^{-10}	6-16	42.2×10^{-14}	6-24	
6-17-82	No Sample				Filter Found on Ground
6-18-82	3.6×10^{-9}		5.5×10^{-13}	6-24	

Environmental Monitoring Station Summary Log

Station 7

Page 11

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
7-14-82	2.0×10^{-10}	7-14	$< 3.3 \times 10^{-14}$	7-21	
7-15-82	3.9×10^{-11}	7-15	2.9×10^{-14}	7-21	
7-16-82	3.1×10^{-11}	7-16	$< 2.6 \times 10^{-14}$	7-22	
7-19-82	3.0×10^{-11}	7-19	5.7×10^{-15}	7-28	
7-20-82	2.3×10^{-12}	7-20	2.9×10^{-14}	7-28	
7-21-82	7.3×10^{-12}	7-21	$< 2.5 \times 10^{-14}$	7-28	
7-22-82	8.7×10^{-12}	7-22	1.7×10^{-14}	7-28	
7-23-82	8.2×10^{-13}	7-23	$< 3.8 \times 10^{-14}$	7-28	
7-26-82	3.2×10^{-11}	7-26	1.1×10^{-14}	8-4	
7-27-82	1.0×10^{-10}	7-27	$< 2.0 \times 10^{-14}$	8-4	
7-28-82	8.7×10^{-12}	7-28	$< 3.9 \times 10^{-14}$	8-4	
7-29-82	5.6×10^{-12}	7-29	$< 1.9 \times 10^{-14}$	8-4	
7-30-82	1.2×10^{-11}	7-30	$< 3.6 \times 10^{-14}$	8-4	
8-2-82	2.6×10^{-11}	8-2	$< 1.3 \times 10^{-14}$	8-11	
8-3-82	6.5×10^{-11}	8-2	$< 2.0 \times 10^{-14}$	8-11	
8-4-82	6.2×10^{-12}	8-4	$< 1.9 \times 10^{-14}$	8-11	
8-5-82	1.3×10^{-12}	8-5	3.4×10^{-14}	8-11	
8-6-82	1.9×10^{-12}	8-6	$< 1.9 \times 10^{-14}$	8-11	
8-9-82	3.5×10^{-12}	8-9	$< 1.6 \times 10^{-14}$	8-18	
8-10-82	2.5×10^{-12}	8-10	$< 3.2 \times 10^{-14}$	8-18	
8-11-82	1.1×10^{-10}	8-11	$< 2.3 \times 10^{-14}$	8-18	
8-12-82	9.5×10^{-12}	8-12	$< 5.0 \times 10^{-14}$	8-18	
8-13-82	1.6×10^{-11}	8-13	3.2×10^{-14}	8-18	
8-16-82	3.0×10^{-11}	8-16	$< 6.5 \times 10^{-15}$	8-25	
8-17-82	2.0×10^{-11}	8-17	$< 3.9 \times 10^{-14}$	8-25	
8-18-82	1.3×10^{-11}	8-18	$< 2.0 \times 10^{-14}$	8-25	
8-19-82	3.1×10^{-11}	8-19	$< 3.8 \times 10^{-14}$	8-25	
8-20-82	1.0×10^{-11}	8-20	$< 4.6 \times 10^{-14}$	8-26	
8-23-82	1.5×10^{-11}	8-23	$< 1.0 \times 10^{-14}$	9-1	
8-24-82	1.6×10^{-10}	8-24	$< 2.3 \times 10^{-14}$	9-1	
8-25-82	8.8×10^{-12}	8-25	$< 2.2 \times 10^{-14}$	9-1	
8-26-82	3.3×10^{-10}	8-26	$< 4.4 \times 10^{-14}$	9-1	
8-27-82	4.1×10^{-12}	8-27	$< 2.1 \times 10^{-14}$	9-1	
8-30-82	9.5×10^{-11}	8-30	$< 8.3 \times 10^{-15}$	9-9	
8-31-82	7.8×10^{-12}	8-31	$< 2.5 \times 10^{-14}$	9-9	

Environmental Monitoring Station Summary Log

Station - 7

Page 10

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
5-24-82	2.9×10^{-12}	5-24	2.0×10^{-14}	6-2	
5-25-82	5.0×10^{-12}	5-25	2.8×10^{-14}	6-2	
5-26-82	NO Sample Filter Head Fall off Pump				
5-27-82	9.0×10^{-12}	5-27	3.4×10^{-14}	6-2	
5-28-82	1.7×10^{-11}	5-28	2.7×10^{-14}	6-2	
6-1-82	5.4×10^{-12}	6-1	5.9×10^{-15}	6-9	
6-2-82	1.3×10^{-10}	6-2	5.0×10^{-14}	6-9	
6-3-82	2.6×10^{-12}	6-3	2.4×10^{-14}	6-9	
6-4-82	2.8×10^{-12}	6-4	2.3×10^{-14}	6-9	
6-7-82	3.7×10^{-11}	6-7	7.9×10^{-15}	6-16	
6-8-82	1.0×10^{-11}	6-8	5.1×10^{-14}	6-16	
6-9-82	1.4×10^{-11}	6-9	2.3×10^{-14}	6-16	
6-10-82	7.8×10^{-12}	6-10	3.2×10^{-14}	6-17	
6-11-82	1.5×10^{-11}	6-11	3.1×10^{-14}	6-17	
6-14-82	5.5×10^{-11}	6-14	1.1×10^{-14}	6-24	
6-15-82	1.5×10^{-11}	6-15	2.6×10^{-14}	6-24	
6-16-82	NO Sample Filter Head off Pump				
6-17-82	4.9×10^{-11}	6-17	3.4×10^{-14}	6-24	
6-18-82	5.1×10^{-11}	6-18	4.1×10^{-14}	6-24	
6-21-82	7.5×10^{-12}	6-21	8.0×10^{-15}	7-1	
6-22-82	2.6×10^{-11}	6-22	3.4×10^{-15}	7-1	
6-23-82	5.2×10^{-11}	6-23	5.0×10^{-14}	7-1	
6-24-82	1.2×10^{-10}	6-24	4.1×10^{-14}	7-1	
6-25-82	1.7×10^{-11}	6-25	3.9×10^{-14}	7-1	
6-28-82	9.1×10^{-12}	6-28	9.0×10^{-15}	7-7	
6-29-82	4.2×10^{-11}	6-29	2.8×10^{-14}	7-7	
6-30-82	2.8×10^{-12}	6-30	2.5×10^{-14}	7-7	
7-1-82	1.1×10^{-10}	7-1	2.9×10^{-14}	7-7	
7-2-82	4.5×10^{-11}	7-2	2.7×10^{-14}	7-7	
7-6-82	2.4×10^{-11}	7-6	5.9×10^{-15}	7-14	
7-7-82	2.3×10^{-12}	7-7	3.3×10^{-14}	7-14	
7-8-82	6.7×10^{-11}	7-8	2.3×10^{-14}	7-14	
7-9-82	8.4×10^{-11}	7-9	3.8×10^{-14}	7-14	
7-12-82	2.3×10^{-11}	7-12	8.2×10^{-14}	7-21	
7-13-82	3.4×10^{-11}	7-13	2.5×10^{-14}	7-21	

Environmental Monitoring Station Summary Log

Station - 7

Page 9

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
4-2-82	4.3×10^{-12}	4-2	$< 2.5 \times 10^{-14}$	4-7	
4-5-82	1.7×10^{-12}	4-5	47.9×10^{-14}	4-14	
4-6-82	3.4×10^{-12}	4-6	43.9×10^{-14}	4-14	
4-7-82	2.9×10^{-12}	4-7	44.1×10^{-14}	4-14	
4-8-82	4.1×10^{-12}	4-8	42.0×10^{-14}	4-14	
4-12-82	1.1×10^{-11}	4-12	5.6×10^{-15}	4-21	
4-13-82	1.4×10^{-11}	4-13	44.1×10^{-14}	4-21	
4-14-82	2.1×10^{-11}	4-14	3.4×10^{-14}	4-21	
4-15-82	4.1×10^{-11}	4-15	43.8×10^{-14}	4-21	
4-16-82	5.2×10^{-11}	4-16	43.9×10^{-14}	4-21	
4-19-82	2.0×10^{-11}	4-19	8.0×10^{-15}	4-28	
4-20-82	6.1×10^{-12}	4-20	42.5×10^{-14}	4-28	
4-21-82	7.6×10^{-12}	4-21	42.5×10^{-14}	4-28	
4-22-82	1.6×10^{-11}	4-22	45.0×10^{-14}	4-28	
4-23-82	1.3×10^{-10}	4-23	43.2×10^{-14}	4-28	
4-26-82	Pump did not run. SAMPLE IN NAID				
4-27-82	3.6×10^{-12}	4-26	45.1×10^{-14}	5-5	
4-28-82	4.2×10^{-12}	4-28	42.0×10^{-14}	5-5	
4-29-82	5.5×10^{-12}	4-29	2.3×10^{-14}	5-5	
4-30-82	2.5×10^{-12}	4-30	43.8×10^{-14}	5-5	
5-3-82	8.7×10^{-11}	5-3	41.2×10^{-15}	5-12	
5-4-82	1.9×10^{-10}	5-4	42.0×10^{-14}	5-12	
5-5-82	4.3×10^{-11}	5-5	41.9×10^{-14}	5-12	
5-6-82	2.2×10^{-11}	5-6	42.0×10^{-14}	5-12	
5-7-82	6.4×10^{-12}	5-7	41.9×10^{-14}	5-12	
5-10-82	6.9×10^{-11}	5-10	41.6×10^{-15}	5-19	
5-11-82	9.7×10^{-11}	5-11	42.4×10^{-14}	5-19	
5-12-82	3.2×10^{-11}	5-12	42.3×10^{-14}	5-19	
5-13-82	9.9×10^{-11}	5-13	42.4×10^{-14}	5-19	
5-14-82	1.0×10^{-10}	5-14	43.2×10^{-14}	5-19	
5-17-82	4.0×10^{-11}	5-17	47.9×10^{-15}	5-26	
5-18-82	4.9×10^{-11}	5-18	42.5×10^{-14}	5-26	
5-19-82	5.1×10^{-11}	5-19	43.2×10^{-14}	5-26	
5-20-82	8.1×10^{-11}	5-20	42.4×10^{-14}	5-26	
5-21-82	2.7×10^{-12}	5-21	42.4×10^{-14}	5-26	

Environmental Monitoring Station Summary Log

Station 7

Page 8

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
2-15-82	4.0×10^{-12}	2-15	$4.9.3 \times 10^{-15}$	2-24	
2-16-82	1.2×10^{-11}	2-16	4.6×10^{-14}	2-24	
2-17-82	2.7×10^{-13}	2-17	$4.2.8 \times 10^{-14}$	2-24	
2-18-82	3.2×10^{-13}	2-18	$4.2.8 \times 10^{-14}$	2-24	
2-19-82	4.1×10^{-13}	2-19	$4.2.8 \times 10^{-14}$	2-24	
2-22-82	4.1×10^{-11}	2-22	$4.1.7 \times 10^{-14}$	3-3	
2-23-82	1.3×10^{-12}	2-23	$4.2.3 \times 10^{-14}$	3-3	
2-24-82	3.1×10^{-13}	2-24	$4.3.4 \times 10^{-14}$	3-3	
2-25-82	2.8×10^{-13}	2-25	$4.2.2 \times 10^{-14}$	3-3	
2-26-82	7.3×10^{-11}	2-26	6.3×10^{-14}	3-3	
3-1-82	2.3×10^{-12}	3-1	$4.7.6 \times 10^{-15}$	3-10	
3-2-82	1.6×10^{-12}	3-2	1.8×10^{-14}	3-10	
3-3-82	3.0×10^{-13}	3-3	$4.2.3 \times 10^{-14}$	3-10	
3-4-82	2.8×10^{-13}	3-4	$4.1.2 \times 10^{-14}$	3-10	
3-5-82	1.4×10^{-11}	3-5	1.7×10^{-14}	3-10	
3-8-82	5.4×10^{-11}	3-8	$4.7.8 \times 10^{-15}$	3-17	
3-9-82	1.3×10^{-12}	3-9	$4.3.5 \times 10^{-14}$	3-17	
3-10-82	7.6×10^{-12}	3-10	$4.2.3 \times 10^{-14}$	3-17	
3-11-82	2.1×10^{-12}	3-11	$4.2.3 \times 10^{-14}$	3-17	
3-12-82	1.1×10^{-11}	3-12	$4.3.6 \times 10^{-14}$	3-17	
3-15-82	4.8×10^{-12}	3-15	$4.9.7 \times 10^{-15}$	3-24	
3-16-82	3.5×10^{-12}	3-16	$4.3.0 \times 10^{-14}$	3-24	
3-17-82	1.3×10^{-12}	3-17	$4.2.9 \times 10^{-14}$	3-24	
3-18-82	2.5×10^{-12}	3-18	$4.2.9 \times 10^{-14}$	3-24	
3-19-82	8.9×10^{-13}	3-19	$4.2.9 \times 10^{-14}$	3-24	
3-22-82	2.9×10^{-12}	3-22	$4.1.4 \times 10^{-14}$	3-31	
3-23-82	1.6×10^{-10}	3-23	$4.1.8 \times 10^{-14}$	3-31	
3-24-82	2.7×10^{-12}	3-24	$4.2.4 \times 10^{-14}$	3-31	
3-25-82	2.3×10^{-12}	3-25	$4.1.8 \times 10^{-14}$	3-31	
3-26-82	5.4×10^{-13}	3-26	$4.1.7 \times 10^{-14}$	3-31	
3-29-82	1.1×10^{-10}	3-29	$4.8.1 \times 10^{-15}$	4-7	
3-30-82	2.6×10^{-11}	3-30	$4.3.4 \times 10^{-14}$	4-7	
3-31-82	3.1×10^{-12}	3-31	$4.2.5 \times 10^{-14}$	4-7	
4-1-82	6.8×10^{-12}	4-1	$4.2.4 \times 10^{-14}$	4-7	

Environmental Monitoring Station Summary Log

Station - 7

Page 7

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
12-23-81	1.9×10^{-12}	12-23	6.5×10^{-14}	12-29	
12-28-81			4.2×10^{-15}	1-5-82	
12-29-81	1.8×10^{-11}	12-29	4.6×10^{-14}	1-5	
12-30-81	1.2×10^{-11}	12-30	4.6×10^{-14}	1-5	
12-31-81	1.0×10^{-11}	12-31	4.3×10^{-14}	1-5	
1-4-82	6.6×10^{-13}	1-4	2.9×10^{-15}	1-13	
1-5-82	2.0×10^{-12}	1-5	4.6×10^{-14}	1-13	
1-6-82	6.2×10^{-13}	1-6	4.3×10^{-14}	1-13	
1-7-82	2.4×10^{-13}	1-7	4.3×10^{-14}	1-13	
1-8-82	2.1×10^{-13}	1-8	4.3×10^{-14}	1-13	
1-11-82	3.2×10^{-13}	1-11	1.6×10^{-14}	1-22	
1-12-82	6.1×10^{-12}	1-12	4.5×10^{-14}	1-22	
1-13-82	2.5×10^{-12}	1-13	4.2×10^{-14}	1-22	
1-14-82	7.0×10^{-12}	1-14	4.3×10^{-14}	1-22	
1-15-82	1.7×10^{-12}	1-15	4.2×10^{-14}	1-22	
1-18-82	9.5×10^{-13}	1-18	4.7×10^{-15}	2-1	
1-19-82	6.2×10^{-12}	1-19	4.2×10^{-14}	2-1	
1-20-82	1.2×10^{-12}	1-20	4.2×10^{-14}	2-1	
1-21-82	6.1×10^{-13}	1-21	4.3×10^{-14}	2-1	
1-22-82	2.8×10^{-13}	1-22	4.2×10^{-14}	2-1	
1-25-82	2.6×10^{-13}	1-25	4.7×10^{-15}	2-4	
1-26-82	1.3×10^{-13}	1-26	3.9×10^{-14}	2-4	
1-27-82	4.6×10^{-12}	1-27	4.2×10^{-14}	2-4	
1-28-82	2.2×10^{-13}	1-28	4.2×10^{-14}	2-4	
1-29-82	3.4×10^{-12}	1-29	4.2×10^{-14}	2-4	
2-1-82	6.0×10^{-13}	2-1	4.5×10^{-15}	2-10	
2-2-82	6.9×10^{-12}	2-2	4.1×10^{-14}	2-10	
2-3-82	7.9×10^{-13}	2-3	3.5×10^{-14}	2-10	
2-4-82	4.2×10^{-13}	2-4	4.1×10^{-14}	2-10	
2-5-82	4.0×10^{-13}	2-5	4.1×10^{-14}	2-10	
2-8-82	2.6×10^{-11}	2-8	4.1×10^{-14}	2-17	
2-9-82	4.5×10^{-13}	2-9	4.5×10^{-14}	2-17	
2-10-82	8.8×10^{-13}	2-10	4.2×10^{-14}	2-17	
2-11-82	1.3×10^{-12}	2-11	4.2×10^{-14}	2-17	
2-12-82	5.2×10^{-12}	2-12	4.2×10^{-14}	2-17	

Environmental Monitoring Station Summary Log

Station 7

Page 6

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
11-2-81	5.5×10^{-12}	11-3	4.1×10^{-14}	11-11	
11-3-81	9.2×10^{-12}	11-3	4.3×10^{-14}	11-11	
11-4-81	3.0×10^{-11}	11-4	4.3×10^{-14}	11-11	
11-5-81	1.8×10^{-11}	11-5	4.3×10^{-14}	11-11	
11-6-81	1.4×10^{-12}	11-6	4.3×10^{-14}	11-11	
11-9-81	2.5×10^{-11}	11-9	4.1×10^{-14}	11-18	
11-10-81	1.5×10^{-10}	11-10	4.3×10^{-14}	11-18	
11-11-81	2.9×10^{-11}	11-11	4.6×10^{-14}	11-18	
11-12-81	4.3×10^{-11}	11-12	4.6×10^{-14}	11-18	
11-13-81	4.3×10^{-11}	11-13	5.6×10^{-14}	11-18	
11-16-81	1.4×10^{-10}	11-16	4.5×10^{-14}	11-25	
11-17-81	1.8×10^{-11}	11-17	4.5×10^{-14}	11-25	
11-18-81	4.9×10^{-11}	11-18	4.5×10^{-14}	11-25	
11-19-81	7.7×10^{-12}	11-19	4.5×10^{-14}	11-25	
11-20-81	1.1×10^{-12}	11-20	4.8×10^{-14}	11-25	
11-23-81	1.6×10^{-11}	11-23	4.9×10^{-15}	12-2	
11-24-81	1.4×10^{-12}	11-24	4.0×10^{-14}	12-2	
11-25-81	1.7×10^{-11}	11-25	4.2×10^{-14}	12-2	
11-30-81	4.1×10^{-11}	11-30	1.2×10^{-14}	12-9	
12-1-81	6.7×10^{-12}	12-1	4.8×10^{-14}	12-9	
12-2-81	8.2×10^{-12}	12-2	4.6×10^{-14}	12-9	
12-3-81	7.9×10^{-11}	12-3	4.3×10^{-14}	12-9	
12-4-81	4.5×10^{-12}	12-4	4.9×10^{-14}	12-9	
12-7-81	1.2×10^{-11}	12-7	4.3×10^{-14}	12-16	
12-8-81	1.8×10^{-12}	12-8	3.8×10^{-14}	12-16	
12-9-81	1.8×10^{-12}	12-9	4.9×10^{-14}	12-16	
12-10-81	1.9×10^{-12}	12-10	4.9×10^{-14}	12-16	
12-11-81	2.0×10^{-12}	12-11	4.5×10^{-14}	12-16	
12-14-81	3.1×10^{-11}	12-14	1.7×10^{-14}	12-29	
12-15-81	7.9×10^{-13}	12-15	5.0×10^{-14}	12-29	
12-16-81	2.1×10^{-12}	12-16	4.4×10^{-14}	12-29	
12-17-81	1.9×10^{-12}	12-17	4.5×10^{-14}	12-29	
12-18-81	1.9×10^{-12}	12-18	4.4×10^{-14}	12-29	
12-21-81	6.8×10^{-12}	12-21	4.5×10^{-14}	12-29	
12-22-81	1.8×10^{-12}	12-22	4.4×10^{-14}	12-29	

Environmental Monitoring Station Summary Log

Station - 8

Page 10

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
7-19-82	5.7×10^{-11}	7-19	1.3×10^{-14}	7-28	
7-20-82	6.9×10^{-12}	7-20	4.25×10^{-14}	7-28	
7-21-82	6.8×10^{-12}	7-21	4.25×10^{-14}	7-28	
7-22-82	1.5×10^{-11}	7-22	4.25×10^{-14}	7-28	
7-23-82	2.8×10^{-12}	7-23	2.3×10^{-14}	7-28	
7-26-82	1.7×10^{-10}	7-26	7.2×10^{-15}	8-4	
7-27-82	7.6×10^{-11}	7-27	3.4×10^{-14}	8-4	
7-28	6.8×10^{-12}	7-28	3.4×10^{-14}	8-4	
7-29-82	2.0×10^{-10}	7-29	4.38×10^{-14}	8-4	
7-30-82	1.9×10^{-10}	7-30	8.9×10^{-14}	8-4	
8-2-82	1.1×10^{-10}	8-2	1.5×10^{-14}	8-11	
8-3-82	6.6×10^{-11}	8-3	3.9×10^{-14}	8-11	
8-4-82	1.7×10^{-11}	8-4	3.3×10^{-14}	8-11	
8-5-82	3.1×10^{-12}	8-5	4.9×10^{-14}	8-11	
8-6-82	4.1×10^{-12}	8-6	2.2×10^{-14}	8-11	
8-9-82	2.1×10^{-11}	8-9	7.9×10^{-15}	8-18	
8-10-82	1.0×10^{-11}	8-10	2.3×10^{-14}	8-18	
8-11-82	7.8×10^{-10}	8-11	2.8×10^{-14}	8-18	
8-12-82	3.3×10^{-11}	8-12	2.4×10^{-14}	8-18	
8-13-82	5.2×10^{-11}	8-13	6.1×10^{-14}	8-18	
8-16-82	3.9×10^{-11}	8-16	1.3×10^{-14}	8-25	
8-17-82	1.9×10^{-10}	8-17	2.9×10^{-14}	8-25	
8-18-82	1.4×10^{-10}	8-18	3.8×10^{-14}	8-25	
8-19-82	3.5×10^{-10}	8-19	3.8×10^{-14}	8-25	
8-20-82	3.1×10^{-11}	8-20	2.5×10^{-14}	8-26	
8-22-82	1.1×10^{-10}	8-22	7.6×10^{-15}	9-1	
8-24-82	2.8×10^{-10}	8-24	2.3×10^{-14}	9-1	
8-25-82	2.4×10^{-11}	8-25	4.5×10^{-14}	9-1	
8-26-82	4.2×10^{-10}	8-26	3.5×10^{-14}	9-1	
8-27-82	2.3×10^{-10}	8-27	24.3×10^{-14}	9-1	
8-30-82	1.1×10^{-10}	8-30	1.0×10^{-14}	9-9	
8-31-82	1.0×10^{-11}	8-31	3.1×10^{-14}	9-9	
9-1-82	8.9×10^{-11}	9-1	2.4×10^{-14}	9-9	
9-2-82	3.2×10^{-10}	9-2	2.5×10^{-14}	9-9	
9-3-82	5.1×10^{-11}	9-3	2.3×10^{-14}	9-9	

Environmental Monitoring Station Summary Log

Station 8

Page 9

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
5-27-82	8.3×10^{-12}	5-27	3.4×10^{-14}	6-2	
5-28-82	2.2×10^{-11}	5-28	4.2×10^{-14}	6-2	
6-1-82	2.2×10^{-11}	6-1	4.8×10^{-15}	6-9	
6-2-82	1.5×10^{-10}	6-2	4.2×10^{-14}	6-9	
6-3-82	4.0×10^{-12}	6-3	4.2×10^{-14}	6-9	
6-4-82	4.8×10^{-12}	6-4	4.2×10^{-14}	6-9	
6-7-82	3.9×10^{-11}	6-7	4.1×10^{-14}	6-17	
6-8-82	3.9×10^{-11}	6-8	4.3×10^{-14}	6-17	
6-9-82	1.8×10^{-11}	6-9	4.3×10^{-14}	6-17	
6-10-82	3.5×10^{-11}	6-10	4.5×10^{-14}	6-17	
6-11-82	3 AMP C	INVA P 10	Filter Head	fell off	Pump.
6-14-82	1.3×10^{-10}	6-14	2.1×10^{-14}	6-24	
6-15-82	6.4×10^{-11}	6-15	2.6×10^{-14}	6-24	
6-16-82	5.0×10^{-12}	6-16	4.2×10^{-14}	6-24	
6-17-82	1.1×10^{-10}	6-17	4.3×10^{-14}	6-24	
6-18-82	3.8×10^{-11}	6-18	4.2×10^{-14}	6-24	
6-21-82	4.8×10^{-11}	6-21	4.1×10^{-14}	7-1	
6-22-82	4.0×10^{-11}	6-22	4.2×10^{-14}	7-1	
6-23-82	2.3×10^{-11}	6-23	4.2×10^{-14}	7-1	
6-24-82	1.9×10^{-10}	6-24	4.2×10^{-14}	7-1	
6-25-82	2.2×10^{-10}	6-25	4.3×10^{-14}	7-1	
6-28-82	1.2×10^{-11}	6-28	4.9×10^{-15}	7-7	
6-29-82	1.3×10^{-10}	6-29	4.2×10^{-14}	7-7	
6-30-82	7.1×10^{-12}	6-30	4.2×10^{-14}	7-7	
7-1-82	1.6×10^{-10}	7-1	4.2×10^{-14}	7-7	
7-2-82	8.0×10^{-11}	7-2	4.2×10^{-14}	7-7	
7-6-82	9.0×10^{-11}	7-6	4.1×10^{-14}	7-14	
7-7-82	2.1×10^{-11}	7-7	2.8×10^{-14}	7-14	
7-8-82	6.7×10^{-11}	7-8	4.3×10^{-14}	7-14	
7-9-82	9.5×10^{-11}	7-9	4.3×10^{-14}	7-14	
7-12-82	9.5×10^{-11}	7-12	4.1×10^{-14}	7-21	
7-13-82	7.4×10^{-11}	7-13	4.2×10^{-14}	7-21	
7-14-82	2.0×10^{-10}	7-14	4.0×10^{-14}	7-21	
7-15-82	6.4×10^{-11}	7-15	4.3×10^{-14}	7-21	
7-16-82	1.0×10^{-10}	7-16	4.1×10^{-14}	7-22	

Environmental Monitoring Station Summary Log

Station - 8

Page 8

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
4-7-82	1.4×10^{-10}	4-7	4.1×10^{-14}	4-14	
4-8-82	2.5×10^{-12}	4-8	2.0×10^{-14}	4-14	
4-12-82	1.2×10^{-11}	4-12	8.5×10^{-15}	4-21	
4-13-82	3.1×10^{-11}	4-13	4.2×10^{-14}	4-21	
4-14-82	9.6×10^{-12}	4-14	5.6×10^{-14}	4-21	
4-15-82	1.1×10^{-11}	4-15	2.0×10^{-14}	4-21	
4-16-82	3.5×10^{-11}	4-16	3.4×10^{-14}	4-21	
4-19-82	1.5×10^{-10}	4-19	8.0×10^{-15}	4-28	
4-20-82	3.1×10^{-11}	4-20	2.9×10^{-14}	4-28	
4-21-82	4.7×10^{-11}	4-21	2.5×10^{-14}	4-28	
4-22-82	7.0×10^{-11}	4-22	5.0×10^{-14}	4-28	
4-23-82	2.8×10^{-10}	4-23	4.9×10^{-14}	4-28	
4-26-82	2.3×10^{-10}	4-26	1.3×10^{-15}	5-5	
4-27-82	6.6×10^{-12}	4-27	4.0×10^{-14}	5-5	
4-28-82	6.2×10^{-12}	4-28	2.0×10^{-14}	5-5	
4-29-82	6.0×10^{-12}	4-29	2.0×10^{-14}	5-5	
4-30-82	4.4×10^{-12}	4-30	3.8×10^{-14}	5-5	
5-3-82	1.6×10^{-10}	5-3	1.1×10^{-14}	5-12	
5-4-82	9.0×10^{-11}	5-4	3.6×10^{-14}	5-12	
5-5-82	1.0×10^{-10}	5-5	1.9×10^{-14}	5-12	
5-6-82	2.5×10^{-10}	5-6	3.9×10^{-14}	5-12	
5-7-82	2.2×10^{-11}	5-7	3.7×10^{-14}	5-12	
5-10-82	3.0×10^{-10}	5-10	7.8×10^{-15}	5-19	
5-11-82	2.3×10^{-10}	5-11	2.4×10^{-14}	5-19	
5-12-82	4.1×10^{-11}	5-12	3.2×10^{-14}	5-19	
5-13-82	5.0×10^{-11}	5-13	2.8×10^{-14}	5-19	
5-14-82	8.6×10^{-11}	5-14	3.2×10^{-14}	5-19	
5-17-82	6.1×10^{-11}	5-17	9.3×10^{-15}	5-26	
5-18-82	1.7×10^{-10}	5-18	2.5×10^{-14}	5-26	
5-19-82	2.3×10^{-10}	5-19	3.2×10^{-14}	5-26	
5-20-82	2.4×10^{-10}	5-20	2.8×10^{-14}	5-26	
5-21-82	4.5×10^{-12}	5-21	2.4×10^{-14}	5-26	
5-24-82	1.9×10^{-11}	5-24	9.0×10^{-15}	6-2	
5-25-82	1.3×10^{-11}	5-25	2.8×10^{-14}	6-2	
5-26-82	5.3×10^{-12}	5-26	2.7×10^{-14}	6-2	

Environmental Monitoring Station Summary Log

Station 8

Page 7

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
2-18-82	3.4×10^{-13}	2-18	4.4×10^{-14}	2-24	
2-19-82	7.0×10^{-12}	2-19	4.8×10^{-14}	2-24	
2-22-82	6.7×10^{-11}	2-22	4.1×10^{-14}	3-3	
2-23-82	1.9×10^{-11}	2-23	4.35×10^{-14}	3-3	
2-24-82	4.5×10^{-13}	2-24	4.23×10^{-14}	3-3	
2-25-82	4.4×10^{-13}	2-25	2.8×10^{-14}	3-3	
2-26-82	3.8×10^{-11}	2-26	4.52×10^{-14}	3-3	
3-1-82	1.9×10^{-11}	3-1	9.6×10^{-15}	3-10	
3-2-82	7.1×10^{-12}	3-2	4.2×10^{-14}	3-10	
3-3-82	1.6×10^{-13}	3-3	4.2×10^{-14}	3-10	
3-4-82	4.34×10^{-13}	3-4	4.2×10^{-14}	3-10	
3-5-82	1.3×10^{-10}	3-5	4.23×10^{-14}	3-10	
3-8-82	9.9×10^{-11}	3-8	4.78×10^{-15}	3-17	
3-9-82	6.7×10^{-12}	3-9	4.24×10^{-14}	3-17	
3-10-82	3.3×10^{-12}	3-10	4.23×10^{-14}	3-17	
3-11-82	2.1×10^{-11}	3-11	4.52×10^{-14}	3-17	
3-12-82	2.2×10^{-12}	3-12	4.24×10^{-14}	3-17	
3-15-82	1.6×10^{-11}	3-15	4.96×10^{-15}	3-24	
3-16-82	9.8×10^{-13}	3-16	4.30×10^{-14}	3-24	
3-17-82	5.0×10^{-12}	3-17	4.29×10^{-14}	3-24	
3-18-82	2.3×10^{-12}	3-18	4.29×10^{-14}	3-24	
3-19-82	1.5×10^{-12}	3-19	4.29×10^{-14}	3-24	
3-22-82	1.8×10^{-11}	3-22	4.58×10^{-15}	3-31	
3-23-82	2.1×10^{-10}	3-23	4.8×10^{-14}	3-31	
3-24-82	4.8×10^{-11}	3-24	4.8×10^{-14}	3-31	
3-25-82	1.2×10^{-11}	3-25	4.3×10^{-14}	3-31	
3-26-82	No Shv count		4.7×10^{-14}	3-31	
3-29-82	6.6×10^{-11}	3-29	4.01×10^{-15}	4-7	
3-30-82	4.3×10^{-11}	3-30	4.25×10^{-14}	4-7	
3-31-82	1.2×10^{-11}	3-31	2.9×10^{-14}	4-7	
4-1-82	2.4×10^{-11}	4-1	4.50×10^{-14}	4-7	
4-2-82	2.6×10^{-12}	4-2	4.25×10^{-14}	4-7	
4-5-82	1.5×10^{-12}	4-5	4.5×10^{-14}	4-14	
4-6-82	7.5×10^{-13}	4-6	2.3×10^{-14}	4-14	

Environmental Monitoring Station Summary Log

Station. 8

Page 6

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
12-30-81	5.6×10^{-11}	12-30	43.6×10^{-14}	1-5	
12-31-81	2.0×10^{-11}	12-31	4.3×10^{-14}	1-5	
1-4-82	2.5×10^{-12}	1-4	41.4×10^{-14}	1-13	
1-5-82	7.7×10^{-12}	1-5	23.8×10^{-14}	1-13	
1-6-82	1.1×10^{-11}	1-6	43.7×10^{-14}	1-13	
1-7-82	1.0×10^{-12}	1-7	44.7×10^{-14}	1-13	
1-8-82	3.1×10^{-12}	1-8	45.7×10^{-14}	1-13	
1-11-82	2.6×10^{-12}	1-11-5	2.4×10^{-14}	1-22	
1-12-82	6.2×10^{-11}	1-12	2.6×10^{-14}	1-22	
1-13-82	9.1×10^{-12}	1-13	42.5×10^{-14}	1-22	
1-14-82	2.2×10^{-11}	1-14	42.7×10^{-14}	1-22	
1-15-82	2.9×10^{-11}	1-15	43.7×10^{-14}	1-22	
1-18-82	1.3×10^{-11}	1-18	41.7×10^{-14}	2-1	
1-19-82	3.2×10^{-12}	1-19	43.5×10^{-14}	2-1	
1-20-82	6.0×10^{-11}	1-20	43.2×10^{-14}	2-1	
1-21-82	3.1×10^{-13}	1-21	43.7×10^{-14}	2-1	
1-22-82	4.6×10^{-13}	1-22	44.9×10^{-14}	2-1	
1-25-82	2.3×10^{-12}	1-25	9.5×10^{-15}	2-4	
1-26-82	1.3×10^{-11}	1-26	5.0×10^{-14}	2-4	
1-27-82	5.6×10^{-12}	1-27	45.1×10^{-14}	2-4	
1-28-82	5.2×10^{-12}	1-28	45.2×10^{-14}	2-4	
1-29-82	1.0×10^{-11}	1-29	42.2×10^{-14}	2-4	
2-1-82	4.6×10^{-12}	2-1	1.1×10^{-14}	2-10	
2-2-82	6.8×10^{-12}	2-2	44.1×10^{-14}	2-10	
2-3-82	4.9×10^{-13}	2-3	41.8×10^{-14}	2-10	
2-4-82	3.5×10^{-13}	2-4	43.9×10^{-14}	2-10	
2-5-82	5.0×10^{-13}	2-5	44.0×10^{-14}	2-10	
2-8-82	8.2×10^{-11}	2-8	47.5×10^{-15}	2-17	
2-9-82	9.8×10^{-13}	2-9	42.3×10^{-14}	2-17	
2-10-82	1.4×10^{-11}	2-10	42.3×10^{-14}	2-17	
2-11-82	5.4×10^{-11}	2-11	42.2×10^{-14}	2-17	
2-12-82	4.0×10^{-11}	2-12	43.6×10^{-14}	2-17	
2-15-82	1.2×10^{-11}	2-15	42.1×10^{-14}	2-24	
2-16-82	3.8×10^{-11}	2-16	42.9×10^{-14}	2-24	
2-17-82	4.6×10^{-13}	2-17	44.5×10^{-14}	2-24	

Environmental Monitoring Station Summary Log

Station. 8

Page 5

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
11-2-81			$< 7.7 \times 10^{-14}$	11-11	
11-6-81			$< 1.1 \times 10^{-13}$	11-11	
11-9-81			3.8×10^{-14}	11-18	
11-10-81	3.1×10^{-10}	11-10	$< 6.8 \times 10^{-14}$	11-18	AC Pump Installed
11-11-81	2.3×10^{-10}	11-11	$< 3.3 \times 10^{-14}$	11-18	
11-12-81	2.0×10^{-10}	11-12	$< 3.3 \times 10^{-14}$	11-18	
11-13-81	3.4×10^{-11}	11-13	$< 3.5 \times 10^{-14}$	11-18	
11-16-81	1.7×10^{-10}	11-16	$< 1.5 \times 10^{-14}$	11-25	
11-17-81	9.5×10^{-11}	11-17	$< 9.9 \times 10^{-14}$	11-25	
11-18-81	3.5×10^{-10}	11-18	$< 4.5 \times 10^{-14}$	11-25	
11-19-81	6.3×10^{-12}	11-19	$< 5.2 \times 10^{-14}$	11-25	
11-20-81	1.8×10^{-12}	11-20	$< 6.2 \times 10^{-14}$	11-25	
11-23-81	2.6×10^{-11}	11-23	$< 9.0 \times 10^{-15}$	12-2	
11-24-81	1.7×10^{-12}	11-24	6.1×10^{-14}	12-2	
11-25-81	1.9×10^{-11}	11-25	$< 6.4 \times 10^{-14}$	12-2	
1-30-81	4.0×10^{-11}	11-30	$< 9.4 \times 10^{-15}$	12-9	
12-1-81	4.7×10^{-12}	12-1	$< 7.5 \times 10^{-14}$	12-9	
12-2-81	1.5×10^{-12}	12-2	$< 4.6 \times 10^{-14}$	12-9	
12-3-81	2.3×10^{-10}	12-3	$< 3.6 \times 10^{-14}$	12-9	
12-4-81	1.1×10^{-11}	12-4	$< 3.9 \times 10^{-14}$	12-9	
12-7-81	5.0×10^{-11}	12-7	1.6×10^{-14}	12-16	
12-8-81	4.1×10^{-12}	12-8	$< 3.8 \times 10^{-14}$	12-16	
12-9-81	6.2×10^{-12}	12-9	$< 4.9 \times 10^{-14}$	12-16	
12-10-81	6.3×10^{-12}	12-10	$< 3.8 \times 10^{-14}$	12-16	
12-11-81	6.6×10^{-12}	12-11	$< 3.6 \times 10^{-14}$	12-16	
12-14-81	5.5×10^{-11}	12-14	$< 1.5 \times 10^{-14}$	12-30	
12-15-81	5.4×10^{-12}	12-15	$< 5.5 \times 10^{-14}$	12-30	
12-16-81	7.9×10^{-12}	12-16	$< 4.4 \times 10^{-14}$	12-30	
12-17-81	5.0×10^{-12}	12-17	$< 7.3 \times 10^{-14}$	12-30	
12-18-81	3.5×10^{-12}	12-18	$< 4.4 \times 10^{-14}$	12-30	
12-21-81	3.9×10^{-11}	12-21	2.9×10^{-14}	12-30	
12-22-81	1.0×10^{-11}	12-22	$< 5.5 \times 10^{-14}$	12-30	
12-23-81	5.9×10^{-12}	12-23	$< 9.5 \times 10^{-14}$	12-30	
12-28-81			1.1×10^{-14}	1-5-82	
12-29-81	1.2×10^{-10}	12-29	3.3×10^{-14}	1-5	

Environmental Monitoring Station Summary Log

Station 9

Page 4

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
7-22-82	7.1×10^{-12}	7-22	3.7×10^{-14}	7-25	
7-23-82	3.4×10^{-12}	7-23	$< 2.0 \times 10^{-14}$	7-28	
7-26-82	8.0×10^{-11}	7-26	$< 1.2 \times 10^{-14}$	8-4	
7-27-82	4.6×10^{-11}	7-27	$< 2.0 \times 10^{-14}$	8-4	
7-28-82	4.5×10^{-12}	7-28	$< 2.0 \times 10^{-14}$	8-4	
7-29-82	1.1×10^{-12}	7-29	2.2×10^{-14}	8-4	
7-30-82	SAMPLE INVALID ; Filter found on ground				
8-2-82	7.7×10^{-11}	8-2	$< 1.3 \times 10^{-14}$	8-11	
8-3-82	3.5×10^{-11}	8-3	4.6×10^{-14}	8-11	
8-4-82	1.3×10^{-11}	8-4	$< 1.9 \times 10^{-14}$	8-11	
8-5-82	2.9×10^{-12}	8-5	$< 1.9 \times 10^{-14}$	8-11	
8-6-82	4.1×10^{-12}	8-6	$< 1.9 \times 10^{-14}$	8-11	
8-9-82	1.1×10^{-11}	8-9	$< 2.7 \times 10^{-14}$	8-18	
8-10-82	5.2×10^{-12}	8-10	$< 3.2 \times 10^{-14}$	8-18	
8-11-82	1.5×10^{-10}	8-11	$< 2.4 \times 10^{-14}$	8-18	
8-12-82	1.8×10^{-11}	8-12	$< 2.4 \times 10^{-14}$	8-18	
8-13-82	3.3×10^{-11}	8-13	2.8×10^{-14}	8-18	
8-16-82	3.4×10^{-11}	8-16	$< 1.3 \times 10^{-14}$	8-25	
8-17-82	1.1×10^{-10}	8-17	$< 2.0 \times 10^{-14}$	8-25	
8-18-82	5.7×10^{-11}	8-18	$< 2.0 \times 10^{-14}$	8-25	
8-19-82	2.0×10^{-10}	8-19	$< 1.9 \times 10^{-14}$	8-25	
8-20-82	2.5×10^{-11}	8-20	$< 2.8 \times 10^{-14}$	8-26	
8-23-82	5.9×10^{-11}	8-23	$< 1.6 \times 10^{-14}$	9-1	
8-24-82	2.6×10^{-10}	8-24	$< 4.9 \times 10^{-14}$	9-1	
8-25-82	1.8×10^{-11}	8-25	$< 7.5 \times 10^{-14}$	9-1	
8-26-82	3.0×10^{-10}	8-26	$< 2.9 \times 10^{-14}$	9-1	
8-27-82	1.4×10^{-10}	8-27	$< 2.1 \times 10^{-14}$	9-1	
8-30-82	6.5×10^{-11}	8-30	$< 8.3 \times 10^{-15}$	9-9	
8-31-82	8.3×10^{-12}	8-31	$< 2.5 \times 10^{-14}$	9-9	
9-1-82	5.1×10^{-11}	9-1	4.0×10^{-14}	9-9	
9-2-82	1.4×10^{-10}	9-2	$< 2.5 \times 10^{-14}$	9-9	
9-3-82	2.9×10^{-11}	9-3	2.0×10^{-14}	9-8	
9-7-82	2.9×10^{-11}	9-7	$< 3.9 \times 10^{-15}$	9-15	
9-8-82	8.4×10^{-11}	9-8	$< 7.2 \times 10^{-14}$	9-15	
9-9-82	1.6×10^{-10}	9-9	$< 2.2 \times 10^{-14}$		

Environmental Monitoring Station Summary Log

Station. 9

Page 3

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity uCi/ml	Date	Activity uCi/ml	Date	
6-2-82	1.3×10^{-10}	6-2	$< 3.3 \times 10^{-14}$	6-9	
6-3-82	3.9×10^{-12}	6-3	$< 5.0 \times 10^{-14}$	6-9	
6-4-82	7.2×10^{-12}	6-4	$< 3.2 \times 10^{-14}$	6-9	
6-7-82	2.8×10^{-11}	6-7	$< 1.3 \times 10^{-14}$	6-17	
6-8-82	2.7×10^{-11}	6-8	$< 7.2 \times 10^{-14}$	6-17	
6-9-82	1.5×10^{-11}	6-9	$< 3.0 \times 10^{-14}$	6-17	
6-10-82	2.3×10^{-11}	6-10	$< 3.2 \times 10^{-14}$	6-17	
6-11-82	6.1×10^{-11}	6-11	$< 3.1 \times 10^{-14}$	6-17	
6-14-82	1.1×10^{-10}	6-14	$< 8.1 \times 10^{-14}$	6-24	
6-15-82	5.2×10^{-11}	6-15	$< 5.4 \times 10^{-14}$	6-24	
6-16-82	3.4×10^{-12}	6-16	$< 3.4 \times 10^{-14}$	6-24	
6-17-82	7.3×10^{-11}	6-17	$< 2.4 \times 10^{-14}$	6-24	
6-18-82	3.4×10^{-11}	6-18	$< 4.1 \times 10^{-14}$	6-24	
6-21-82	2.7×10^{-11}	6-21	$< 8.1 \times 10^{-15}$	7-1	
6-22-82	4.0×10^{-11}	6-22	$< 2.4 \times 10^{-14}$	7-1	
6-23-82	2.3×10^{-10}	6-23	$< 5.0 \times 10^{-14}$	7-1	
6-24-82	1.2×10^{-10}	6-24	$< 2.5 \times 10^{-14}$	7-1	
6-25-82	1.1×10^{-10}	6-25	3.4×10^{-14}	7-1	
6-28-82	1.3×10^{-11}	6-28	$< 9.0 \times 10^{-15}$	7-7	
6-29-82	9.6×10^{-11}	6-29	$< 2.8 \times 10^{-14}$	7-7	
6-30-82	6.5×10^{-12}	6-30	$< 2.5 \times 10^{-14}$	7-7	
7-1-82	1.3×10^{-10}	7-1	$< 2.9 \times 10^{-14}$	7-7	
7-2-82	5.2×10^{-11}	7-2	$< 2.7 \times 10^{-14}$	7-7	
7-6-82	5.9×10^{-11}	7-6	$< 8.1 \times 10^{-15}$	7-14	
7-7-82	1.8×10^{-11}	7-7	$< 5.0 \times 10^{-14}$	7-14	
7-8-82	3.0×10^{-11}	7-8	$< 2.3 \times 10^{-14}$	7-14	
7-9-82	6.5×10^{-11}	7-9	2.7×10^{-14}	7-14	
7-12-82	4.9×10^{-11}	7-12	$< 1.7 \times 10^{-14}$	7-21	
7-13-82	5.1×10^{-11}	7-13	$< 2.5 \times 10^{-14}$	7-21	
7-14-82	1.2×10^{-10}	7-14	$< 3.3 \times 10^{-14}$	7-21	
7-15-82	5.1×10^{-11}	7-15	$< 5.1 \times 10^{-14}$	7-21	
7-16-82	1.8×10^{-11}	7-16	$< 5.8 \times 10^{-14}$	7-22	
7-19-82	4.9×10^{-11}	7-19	9.0×10^{-15}	7-28	
7-20-82	5.5×10^{-12}	7-20	2.8×10^{-14}	7-28	
7-21-82	1.0×10^{-11}	7-21	2.8×10^{-14}	7-28	

Environmental Monitoring Station Summary Log

Station 9

Page 2

Sample Date	Pb-212 Conc.		Th-nat Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
4-13-82	2.3×10^{-11}	4-13	2.1×10^{-14}	4-21	
4-14-82	8.4×10^{-12}	4-14	3.4×10^{-14}	4-21	
4-15-82	7.9×10^{-12}	4-15	3.8×10^{-14}	4-21	
4-16-82	2.4×10^{-11}	4-16	2.3×10^{-14}	4-21	
4-19-82	1.5×10^{-10}	4-19	8.0×10^{-15}	4-28	
4-20-82	1.9×10^{-11}	4-20	2.5×10^{-14}	4-28	
4-21-82	2.0×10^{-11}	4-21	3.4×10^{-14}	4-28	
4-22-82	3.4×10^{-11}	4-22	2.4×10^{-14}	4-28	
4-23-82	2.2×10^{-10}	4-23	6.0×10^{-14}	4-28	
4-26-82	1.5×10^{-10}	4-26	2.6×10^{-13}	5-5	
4-27-82	4.8×10^{-12}	4-27	2.4×10^{-14}	5-5	
4-28-82	4.9×10^{-12}	4-28	2.0×10^{-14}	5-5	
4-29-82	5.2×10^{-12}	4-29	2.0×10^{-14}	5-5	
4-30-82	8.7×10^{-12}	4-30	3.8×10^{-14}	5-5	
5-3-82	1.2×10^{-10}	5-3	6.4×10^{-14}	5-13	
5-4-82	6.9×10^{-11}	5-4	2.1×10^{-14}	5-13	
5-5-82	7.5×10^{-11}	5-5	3.7×10^{-14}	5-13	
5-6-82	1.4×10^{-10}	5-6	2.0×10^{-14}	5-13	
5-7-82	1.6×10^{-11}	5-7	4.4×10^{-14}	5-13	
5-10-82	1.3×10^{-10}	5-10	7.8×10^{-15}	5-19	
5-11-82	1.7×10^{-10}	5-11	2.9×10^{-14}	5-19	
5-12-82	3.3×10^{-11}	5-12	2.3×10^{-14}	5-19	
5-13-82	3.9×10^{-11}	5-13	2.4×10^{-14}	5-19	
5-14-82	6.9×10^{-11}	5-14	2.3×10^{-14}	5-19	
5-17-82	4.7×10^{-11}	5-17	1.1×10^{-14}	5-26	
5-18-82	8.7×10^{-11}	5-18	4.1×10^{-14}	5-26	
5-19-82	1.4×10^{-10}	5-19	4.8×10^{-14}	5-26	
5-20-82	1.3×10^{-10}	5-20	3.3×10^{-14}	5-26	
5-21-82	4.3×10^{-12}	5-21	2.4×10^{-14}	5-26	
5-24-82	9.9×10^{-12}	5-24	9.0×10^{-15}	6-2	
5-25-82	7.5×10^{-12}	5-25	2.8×10^{-14}	6-2	
5-26-82	6.0×10^{-12}	5-26	2.7×10^{-14}	6-2	
5-27-82	6.5×10^{-12}	5-27	4.3×10^{-14}	6-2	
5-28-82	1.4×10^{-11}	5-28			
6-1-82	1.3×10^{-11}	6-1	8.1×10^{-15}	6-9	

Environmental Monitoring Station Summary Log

Station 9

Page 1

Sample Date	Pb-212 Conc.		Th-232 Conc.		Comments
	Activity $\mu\text{Ci/ml}$	Date	Activity $\mu\text{Ci/ml}$	Date	
2-24-82	1.6×10^{-13}	2-24	43.6×10^{-14}	3-3	1st Day
2-25-82	4.9×10^{-13}	2-25	42.2×10^{-14}	3-3	
2-26-82	1.8×10^{-11}	2-26	45.2×10^{-14}	3-3	
2-26-82			49.0×10^{-14}		See H.P. Log Prints off Geiger
3-1-82	1.0×10^{-11}	3-1	6.3×10^{-15}	3-10	
3-2-82	4.2×10^{-12}	3-2	42.3×10^{-14}	3-10	
3-3-82	42.4×10^{-13}	3-3	41.2×10^{-14}	3-10	
3-4-82	41.6×10^{-13}	3-4	42.3×10^{-14}	3-10	
3-5-82	5.5×10^{-11}	3-5	1.7×10^{-14}	3-10	
3-8-82	4.8×10^{-11}	3-8	47.8×10^{-15}	3-17	
3-9-82	2.7×10^{-12}	3-9	42.4×10^{-14}	3-17	
3-10-82	2.6×10^{-12}	3-10	42.3×10^{-14}	3-17	
3-11-82	1.1×10^{-11}	3-11	42.3×10^{-14}	3-17	
3-12-82	7.5×10^{-13}	3-12	43.6×10^{-14}	3-17	
3-15-82	6.8×10^{-12}	3-15	49.7×10^{-15}	3-24	
3-16-82	3.8×10^{-13}	3-16	43.0×10^{-14}	3-24	
3-17-82	2.7×10^{-12}	3-17	42.9×10^{-14}	3-24	
3-18-82	2.1×10^{-12}	3-18	42.9×10^{-14}	3-24	
3-19-82	6.3×10^{-13}	3-19	42.9×10^{-14}	3-24	
3-22-82	8.1×10^{-12}	3-22	45.8×10^{-15}	3-31	
3-23-82	1.1×10^{-10}	3-23	2.4×10^{-14}	3-31	
3-24-82	3.1×10^{-11}	3-24	41.8×10^{-14}	3-31	
3-25-82	5.1×10^{-12}	3-25	41.8×10^{-14}	3-31	
3-26-82	No 5hr Count		44.1×10^{-14}	3-31	
3-29-82	3.4×10^{-11}	3-29	48.1×10^{-15}	4-7	
3-30-82	2.9×10^{-11}	3-30	43.4×10^{-14}	4-7	
3-31-82	7.2×10^{-12}	3-31	42.5×10^{-14}	4-7	
4-1-82	1.4×10^{-11}	4-1	45.0×10^{-14}	4-7	
4-2-82	2.5×10^{-12}	4-2	42.5×10^{-14}	4-7	
4-5-82	1.3×10^{-12}	4-5	41.9×10^{-14}	4-14	
4-6-82	1.7×10^{-13}	4-6	42.0×10^{-14}	4-14	
4-7-82	2.6×10^{-11}	4-7	42.1×10^{-14}	4-14	
4-8-82	2.4×10^{-12}	4-8	3.5×10^{-14}	4-14	
4-12-82	1.0×10^{-11}	4-12	49.6×10^{-15}	4-21	



KERR-MCGEE CORPORATION

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ENVIRONMENT AND HEALTH MANAGEMENT DIVISION

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Uranium Fuel Licensing Branch
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U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Nixon:

In your telephone call to Ivan Denny on November 16, 1982, you asked three questions relating to our amendment application Nos. 5 and 6. At that time, Mr. Denny advised that the information would be supplied. This letter answers the questions as we understand them.

First Question: What is planned to be done with the wood from other structures that is stored in Building No.2 when this building is ready to be dismantled?

Reponse: This wood will be the first wood incinerated in the new incineration system. However, if the wood has not all been incinerated by the time dismantling work on Bldg. No. 2 requires the wood to be relocated, remaining wood will be moved to other structures on the Factory Site. The wood will be kept on the Factory Site and protected from the weather until incinerated.

Second Question: Have radiation surveys been done on Buildings No. 10, 11, 14 and 16 and is there contamination?

Response: Preliminary radiation surveys have been done on these buildings. These surveys indicate minor levels of contamination. Data from these preliminary surveys are shown on Attachment I to this letter.

Third Question: How will the sump sediment from under Building No. 14 be contained on the Factory Site after being removed from the sump basin?

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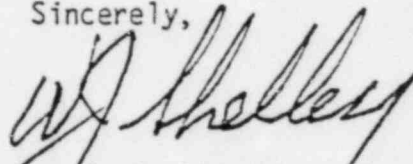
Mr. W. A. Nixon
November 29, 1982
Page two

Response: The sediment was mixed with cement and permitted to set up in blocks. The blocks were formed in metal containers that will remain around these dry blocks. The blocks will be stored on the Factory Site until approval from the NRC is given to move them on the Disposal Site.

In that same telephone call, you also asked about our access between the Factory Site and the Disposal Site. We now have a driveway across the Intermediate Site from the Southeast corner of the Factory Site to the Northwest corner of the Disposal Site. This permits the site personnel access between both areas without going on public roads for maintenance and monitoring. A crossing was constructed across the Commonwealth Edison driveway (12 feet wide) to provide them with easy access to their substation at the West end of Kerr-McGee's Intermediate Site.

Should you have questions or need additional information, please call me.

Sincerely,



W. J. Shelley, Vice-President
Nuclear Licensing & Regulation

WJS/TB/pd

Attachment

ATTACHMENT I

Radiation Surveys
Kerr-McGee Chemical Corp.
West Chicago, Illinois Facility

	<u>Bldg. #10</u>	<u>Bldg. #11</u>	<u>Bldg. #14</u>	<u>Bldg. #16</u>
Direct Average*	<200	400-600	8,000	<200
Direct Maximum *	2,000	1,200	10,000	<200
Removable Average*	<20	<20	40	<20
Removable Maximum*	87	120	60	<20

*All values dpm/100cm²