

ATTACHMENT 1



Idaho National Engineering Laboratory

bcc: C. G. Dietz, MS 3953
V. E. Halford, MS 3953 *VEH*
R. J. Hover, MS 3953
ER ARDC, (with Encl), MS 3953
A. R. Baumer II File

September 7, 1994

Ms. Lisa A. Green
U.S. Department of Energy
Idaho Operations Office
850 Energy Drive, MS 1117
Idaho Falls, ID 83401-1563

TRANSMITTAL OF TWO NEW SITE IDENTIFICATION FORMS FOR WASTE AREA GROUP 5 -
ARB-331-94

Dear Ms. Green:

Copies of two New Site Identification Forms were delivered to Alan T. Jines September 7, 1994. These forms are submitted for review and concurrence to add the Auxiliary Reactor Area Radioactive Soil Contamination to the Federal Facility Agreement and Consent Order and recommends that a Track 1 investigation be conducted on the Special Power Excursion Reactor Test IV Septic System (PBF-25).

These forms need to be forwarded to the U.S. Environmental Protection Agency, Region 10 and the Idaho Department of Health and Welfare Project Managers for inclusion in the weekly conference call no later than September 28, 1994. Please see the attached timeline for completing the New Site Identification schedule.

If you need further information or have questions, please contact Vaughn E. Halford at 526-6096 or me at 526-9331.

Sincerely,

Andrew R. Baumer II, Manager
Environmental Restoration

VEH:mm

cc: A. T. Jines, DOE-ID, MS 1118
R. A. Taft, DOE-ID, MS 4160



Idaho, Inc.

P.O. Box 1625 Idaho Falls, ID 83415

J-49

Time Line for Completing New Site Identification Schedule

Day of Week of Identification (Step 1)	Step 2 Complete no later than	Step 3b Complete no later than	Step 4 Complete no later than	Step 5b Complete no later than	Step 6b Complete no later than	Step 7 Complete no later than	Step 9 Occurs on
Sept. 1	Sept. 4	Sept. 7	Sept. 9	Sept. 12	Sept. 21	Sept. 22	Sept. 28

- Step 1 Discovery of new site by field personnel
- Step 2 Completion of New Site Identification (NSI) Forms
- Step 3b Contractor WAG Manager reviews NSI forms, makes notification of new site to DOE-ID and prepares 30-day schedule
- Step 4 Contractor WAG Manager inspects site
- Step 5b Contractor WAG Manager makes recommendation on new site, signs NSI forms and forwards to DOE WAG Manager and DOE Facility Manager
- Step 6 DOE WAG Manager concurs with or rejects recommendation; ensures NSI forms for new sites are forwarded to the PCC for inclusion in the next FFA/CO project manager conference call
- Step 7 PCC faxes the NSI forms to the FFA/CO project managers
- Step 9 PCC collects meeting minutes documenting project managers decision regarding new sites

ATTACHMENT B

NEW SITE IDENTIFICATION FORM

Part A (to be completed by observer)

1. Person initiating report R. J. Hover Phone: 6-9316
Designated Contractor WAG Manager: Vaughn Halford Phone: 6-6096
Date initiated: 09/02/94

2. Site Title: PBF-25 SPERT IV Septic System (See attached sheet)

3. Describe the conditions observed that indicate a possible inactive or unreported waste site. Include locations and description of suspicious condition, amount or extent of condition, and date observed. A location map and/or diagram should be included to help with the site visit.

This site was originally included with the "No Action" sites defined in the FFA/CO for the INEL. Recently, Steve Rose documented anecdotal information that indicates the septic system for a time received wastes from a temporary photographic lab. The site should be revisited to either verify the original classification or re-classify it under CERCLA.

Part B (to be completed by Contractor WAG Manager)

4. Recommendation:

X This site meets the requirements for an inactive waste site, requires investigation, and should be included in the FFA/CO Action Plan. Proposed OU assignment is included in the FFA/CO. OU 5-12.

 This site DOES NOT meet the requirements for an inactive waste site, DOES NOT require investigation, and should NOT be included in the FFA/CO Action Plan.

5. Basis for the recommendation:

Photographic lab wastes usually include chemicals that might leave toxic residues or other environmentally unsafe conditions in the receiving vessels or surrounding soils.

6. Contractor WAG Manager Certification: I have examined the proposed site and the information submitted in this document and believe the information to be true, accurate, and complete. My recommendation is indicated in Section 4 above.

Name: VAUGHN HALFORD Signature: Vaughn E. Halford Date: 9-7-94

(over)

Part B (to be completed by DOE WAG Manager)

7. DOE WAG Manager Concurrence:

- Concur with the recommendation.
 Do not concur with the recommendation. Explanation follows:

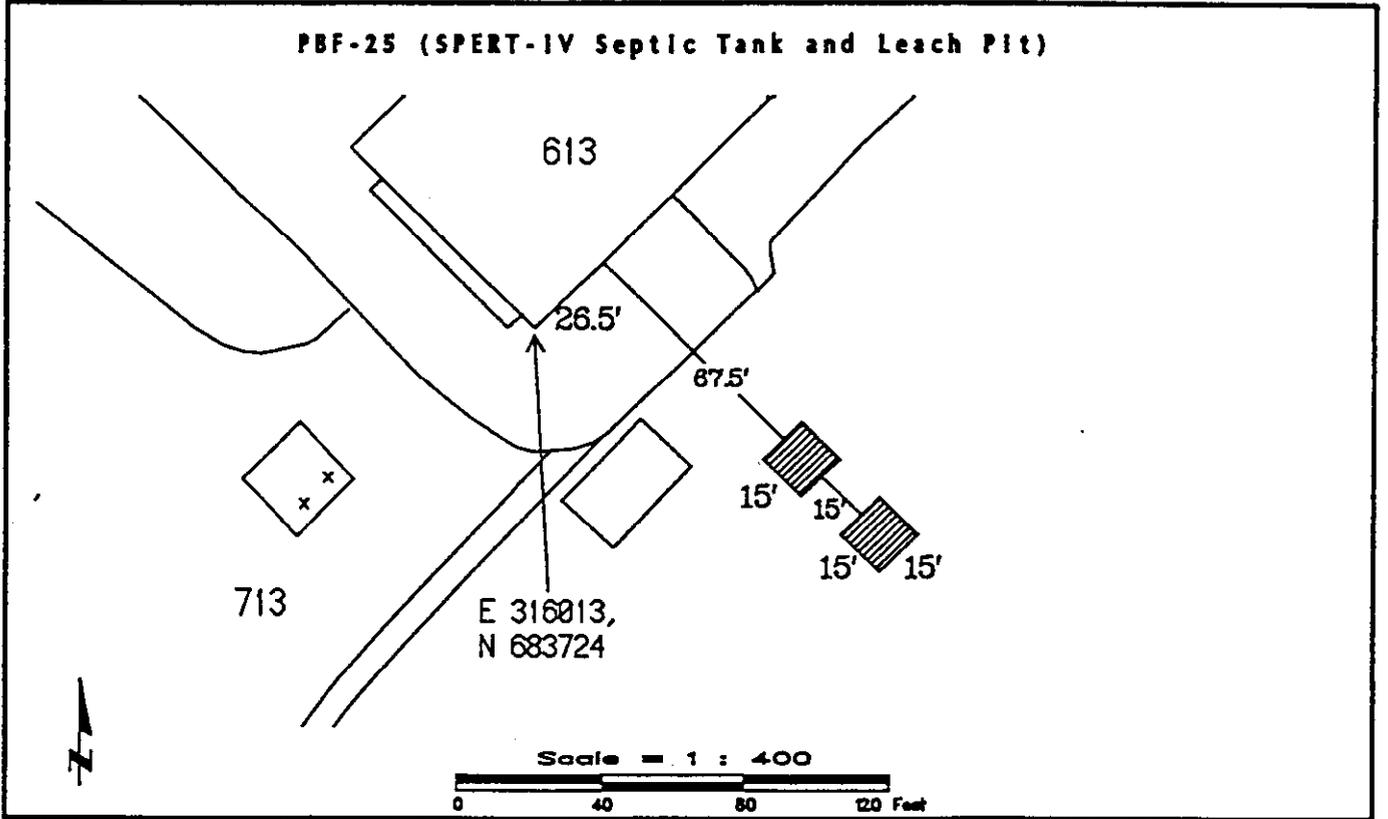
Name: Alan Tines Signature:  Date: 12/24/94

FFA/CO Project Managers' concurrence/non-concurrence will be documented in the tele-conference meeting minutes.

NOTE: This determination will be formally documented in the next semi-annual FFA/CO Action Plan update. These forms will be maintained for record until that time.

Environmentally Controlled Area

PBF-25 (SPERT-IV Septic Tank and Leach Pit)



**Before Disturbing This Area
Contact Environmental Restoration
Department at 526-5914**

ATTACHMENT 2

Vaughn:

Here is the PBF-25 analytical results. I have put a copy of this in the "PBF-25" file

INTEROFFICE CORRESPONDENCE
Charlie

Date: October 17, 1994
 To: S. R. Parkinson, MS 8101
 From: R. S. Rice, MS 4110 *RR*
 Lockheed Idaho Technologies Company
 Subject: CLOSURE REPORT FOR THE SAMPLING OF DARK ROOM WASH WASTE AT MWSF;
 EMS-065-94 - RSR-37-94

Attached is a copy of the laboratory report of analyses, the Limitations and Validation report, and the logbook entries for the sampling of dark room wash waste at the Mixed Waste Storage Facility (MWSF).

On August 25, 1994, an Environmental Monitoring Sampling team collected samples of dark room wash waste (wipes) from the MWSF. The wash waste was analyzed for Total Resource Conservation and Recovery Act (RCRA) metals. In addition to the wash waste, a bottle of liquid found in the room was analyzed for reactive characteristics. The samples were collected and analyzed in accordance with the Abbreviated Sampling and Analysis Plan for the Sampling of Dark Room Wash Waste at MWSF; EMS-065-93. The samples were sent to Analytical Technologies, Inc., Fort Collins, Colorado under full chain of custody.

The data were validated by the Sample Management Office (SMO) at method validation level "B," as described in the SMO Standard Operation Procedure 12.1.1, "Levels of Method Validation."

Results of the Total RCRA metals data are found in the table below

Analyte	06594011XM (mg/kg)	06594012XM (mg/kg)
Arsenic	ND	ND
Barium	10	20
Cadmium	2.7	3.4
Chromium	20	14
Lead	20	15
Mercury	0.4	0.5
Selenium	ND	ND
Silver	82	81

S. R. Parkinson
October 17, 1994
RSR-37-94
Page 2

To relate the Total RCRA metals results to TCLP metals values, multiply the concentration of the individual analytes by 0.1 kg, then divide by 2 L (see attached letter from S. J. Sailer; SJS-16-90). By applying this formula to the above results, all analytes fall below the regulatory levels found in 40 CFR 261.24, Table 1.

The results of the reactivity analysis indicates there was no detectable reactive cyanide or reactive sulfide in sample 06594011WR.

If there are any questions or if you have other sampling and analysis needs, please feel free to contact me at 6-4189.

cae

Attachments:
As Stated

cc: (w/o Attach)
J. A. Johnson, MS 4110
K. McNeel, MS 8102
L. V. Street, MS 4110

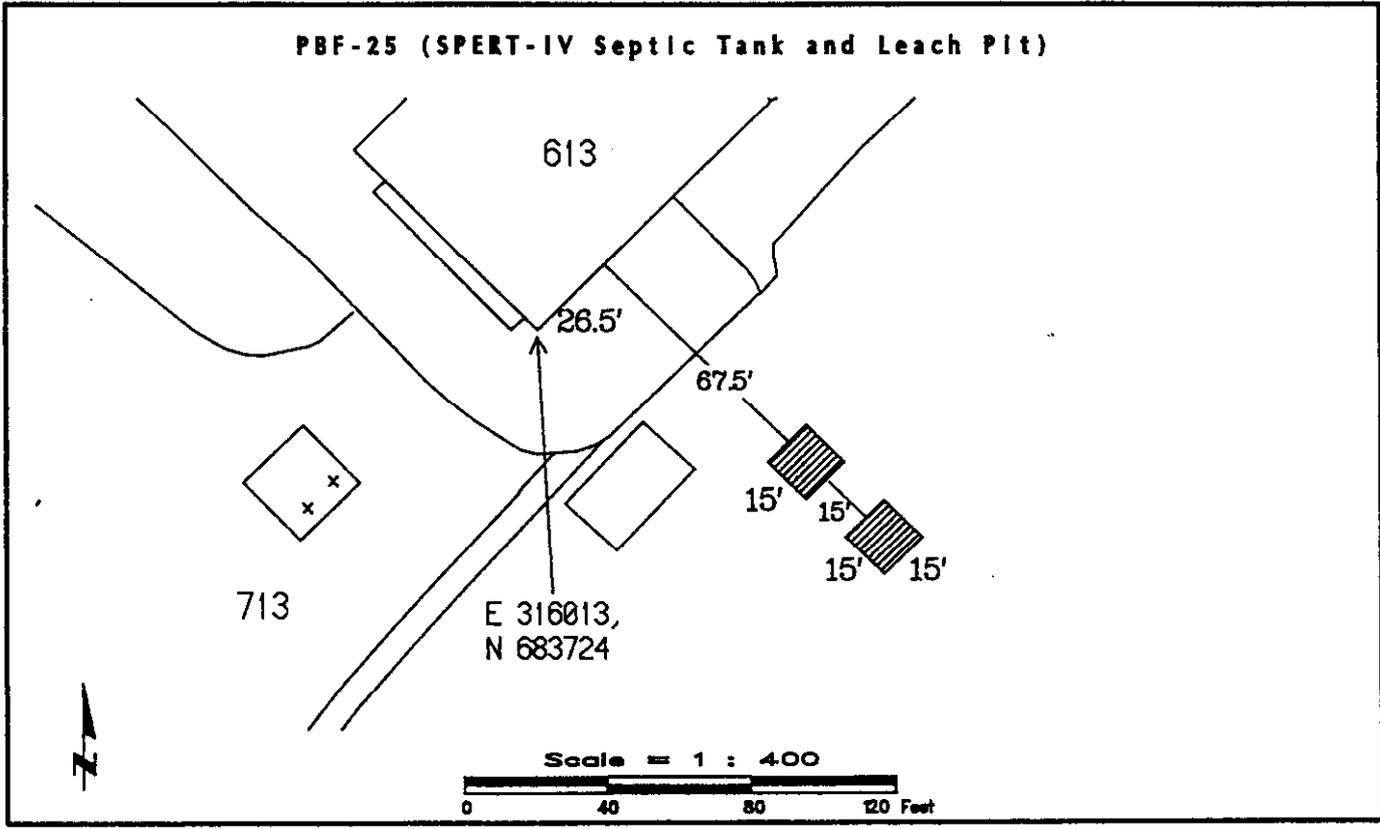
(with Attach)
R. S. Rice Project File

ATTACHMENT 3

004209 24-Apr-1992 14:13 /var/spool/synetri/a04209.esri User ID: seh Output Bin: LBC1-C1 Charge Ni

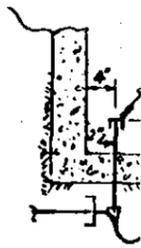
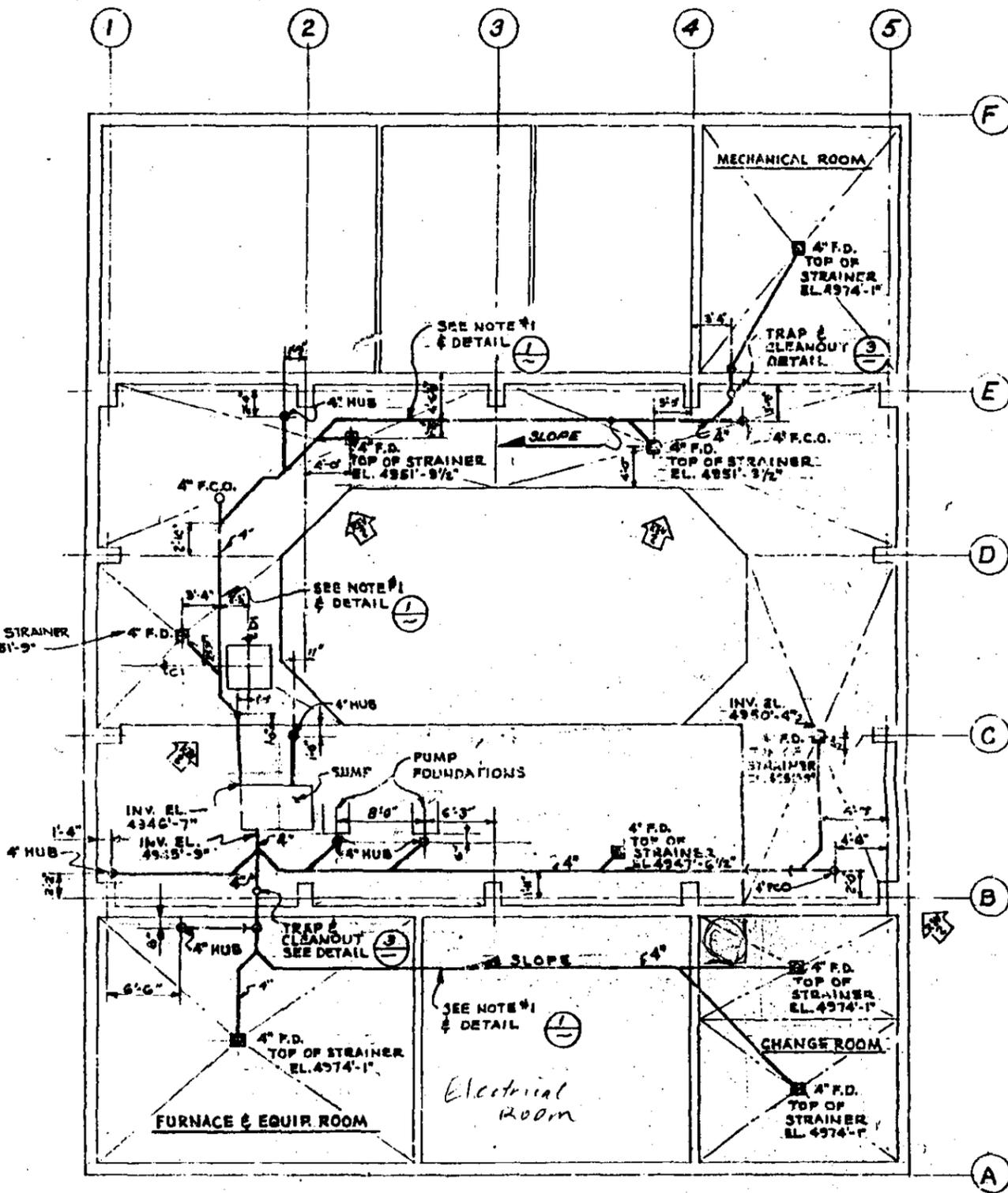
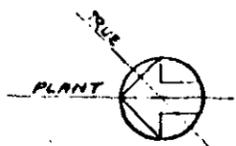
Environmentally Controlled Area

PBF-25 (SPERT-IV Septic Tank and Leach Pit)



**Before Disturbing This Area
Contact Environmental Restoration
Department at 526-5914**

004209 24-Apr-1992 14:13 /var/spool/synetri/a04209.esri User ID: seh Output Bin: LBC1-C1 Charge Ni



DET
NO 3



SANI

**PLAN
FLOOR DRAINS**
SCALE: 1/8" = 1'-0"

CONCRETE-
REINFORCIN

FLOOR DR

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where is the elabod??

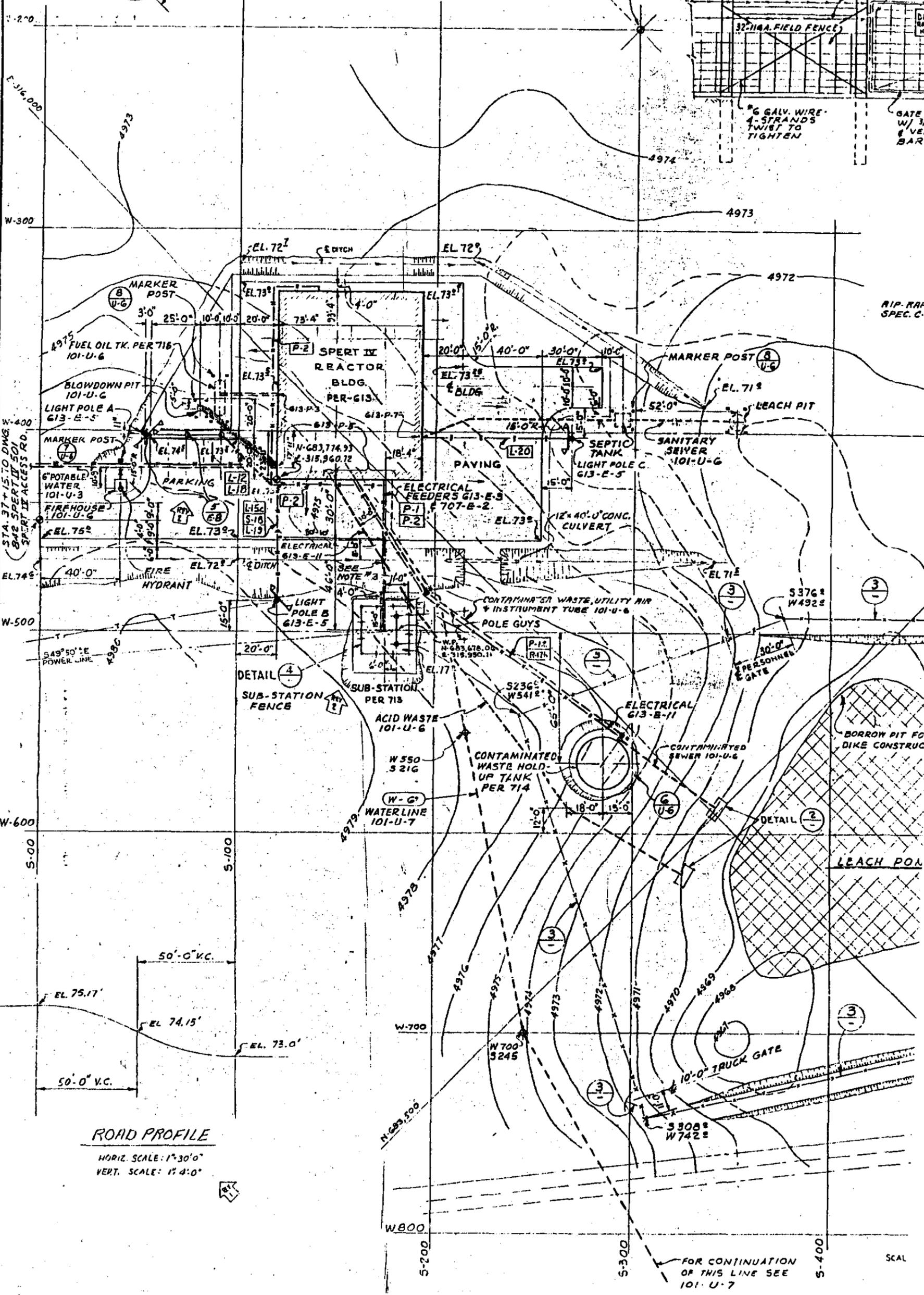
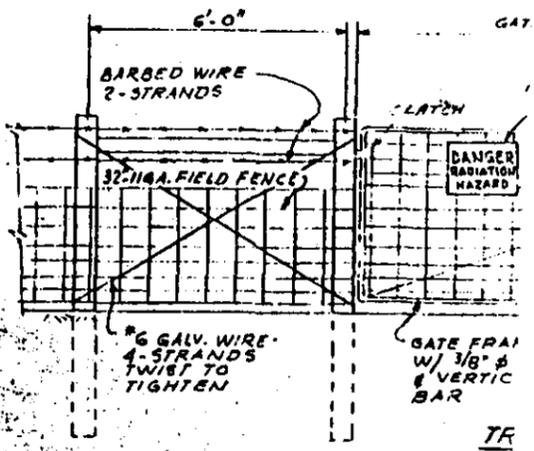
J-63

A B C D E F G H

1 2 3 4 5 6 7 8 9 10 11



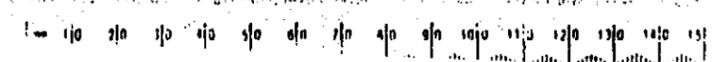
SPERT IV N.E. MONUMENT
N-683,805.99
E-316,246.34



ROAD PROFILE
HORIZ. SCALE: 1"=30'0"
VERT. SCALE: 1"=4'0"

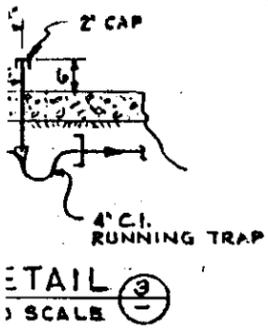
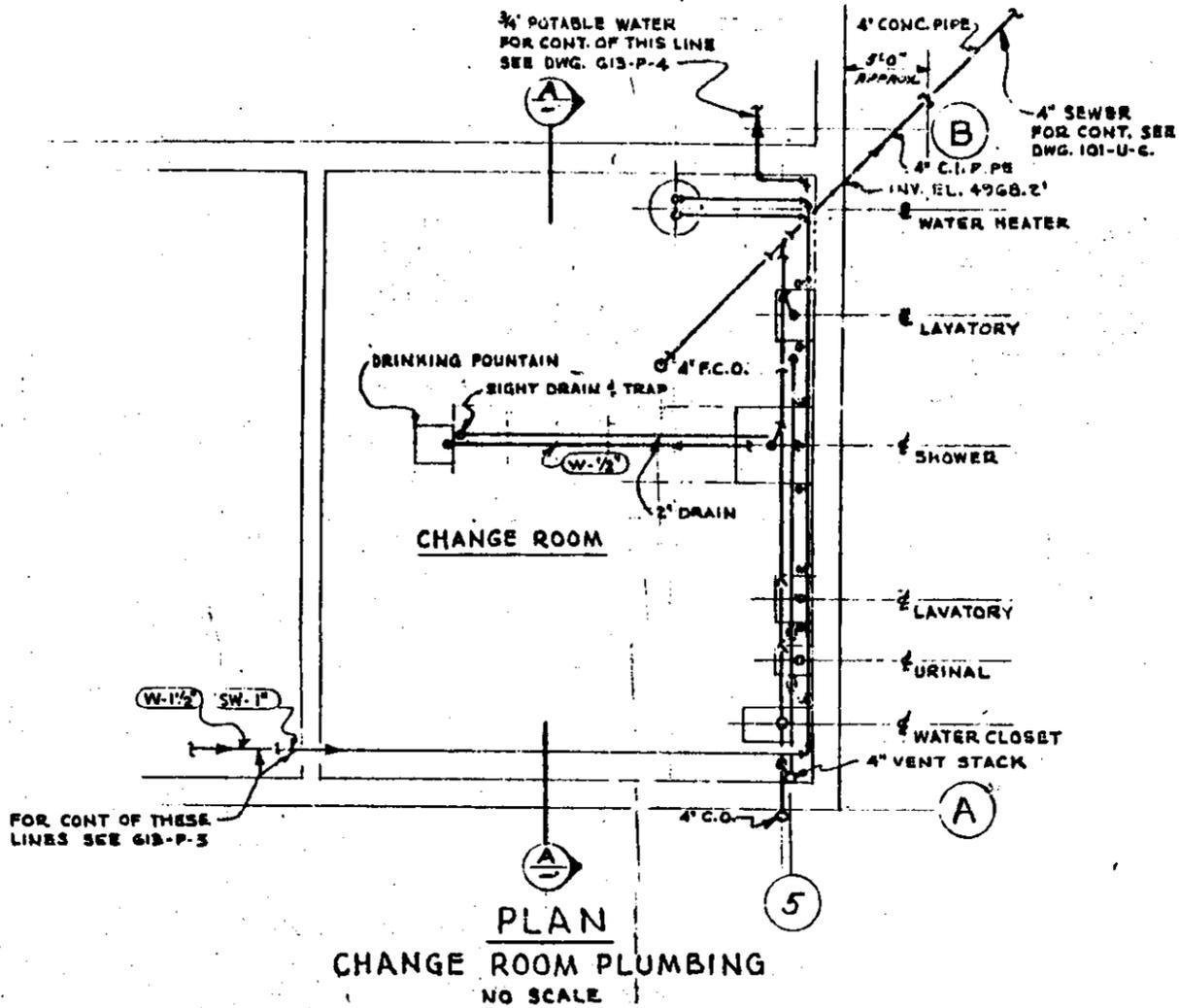
J-64

FOR CONTINUATION OF THIS LINE SEE 101-U-7

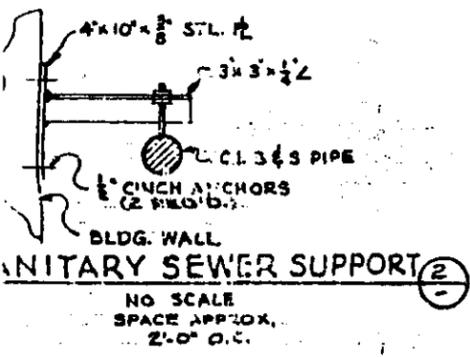


NOTE

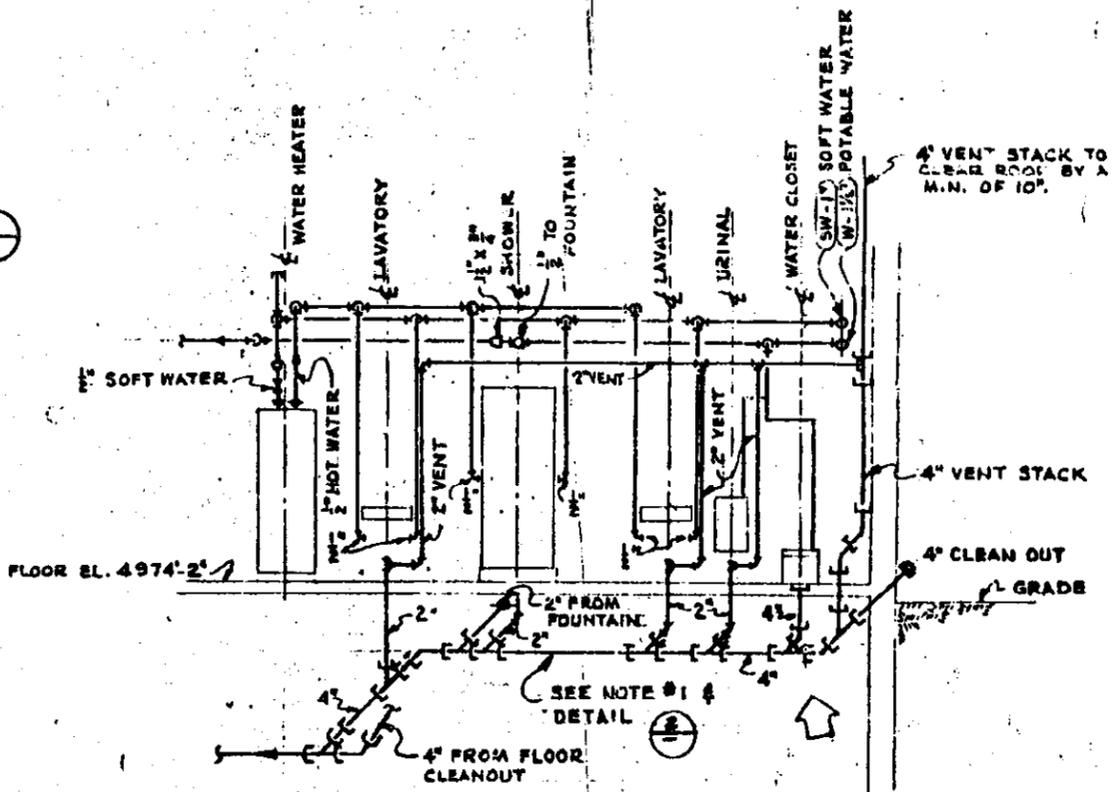
1. ALL 8" B.S. PIPE SHALL BE SUPPORTED & BRACED BEFORE BACKFILLING CONCRETE FLOOR. NOT REST ON THE FLOOR.
2. TOPS OF ALL HUBS ON FINISHED FLOORS SHALL BE FINISHED FLOORS SHALL BE SET AT SHOWN ON THE PLAN.



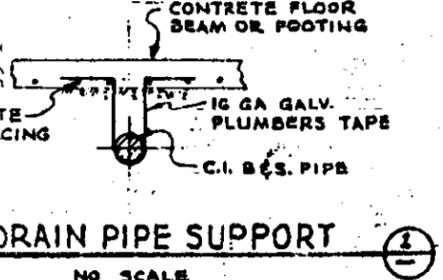
DETAIL 3
NO SCALE



DETAIL 2
NO SCALE
SPACE APPROX. 2'-0\"/>



SECTION A
NO SCALE



DETAIL 1
NO SCALE
2 SUPPORTS ARE REQ'D. FOR EACH LENGTH OF 8\"/>

INDEX CODE			
AREA	NO.	TYPE	CL.
76406	1350		

NO.	DATE	BY	REVISION
1	1/14/60	AS	ADDED TITLE SCALE

SPERT IV ARE
PLUMBING LAY

S. D. BOHN,
CONSULTING
SAN FRANCISCO

U. S. ATOMIC ENERGY COMMISSION
IDAHO OPERATING DIVISION
IDAHO FALLS

DWG NO. 1008-PER/1

DWG NO.	DESCRIPTION	DATE
613-P-3	PIPING PLAN BASEMENT	
101-U-6	SUPPORT FACILITY DETAILS	
613-P-4	PIPING PLAN - OPERATING FLOOR	
613-P-5	PIPING - SECTIONS & DETAILS	

NO.	DATE	BY	REVISION
DRAWN	J. B.	7/2/57	
DESIGNED	CDF	7/2/57	
APPROVED	RDK	1/14/60	
APPROVED	ESD	1/14/60	
APPROVED			
APPROVED			
APPROVED	RDK	1-14-60	
ACT. APPROVED	ESD	1-14-60	
AS E. APPROVED		1-14-60	

SCALE: AS NOTED
DATE: 1-14-60

PROJECT (10-1) 1022

ATTACHMENT 4

INTEROFFICE CORRESPONDENCE

Date: October 1, 1993
 To: A. P. Wilson, MS 8102
 From: J. A. Johnson, MS 4110 *JAJ*
 Subject: CLOSURE REPORT FOR THE SAMPLING OF THE SPERT IV SEPTIC TANK; EMS-044-93 - JAJ-49-93

Attached is the report in response to the request for sampling and analysis of the material contained in the SPERT IV septic tank located at SPERT IV (per 613).

On July 21, 1993, an Environmental Monitoring Sampling team collected samples of both the liquid and the solids from the tank at SPERT IV. The samples were sent to Analytical Technologies Incorporated in Ft. Collins, CO. under full chain of custody for analysis.

The samples were analyzed for metals, Volatile Organics (VOA) semi-VOA, pesticides, herbicides, ignitability as well as rad analysis.

A review of the analytical results indicates the sample does not contain any analytes of concern that would warrant the material in the tank being classified as a hazardous waste as directed in the Environmental Protection Agency (EPA) limits set in 40 CFR 261. The sample of the liquid did show 11 ppb of Aroclor 1254 (PCB).

The results of the rad analysis that was performed on the samples is listed in the table.

MATRIX	ISOTOPE	RESULT
Liquid	Strontium 89	< 0.72 pCi/l
	Strontium 90	< 1.04 pCi/l
	Tritium	< 736.1 pCi/l
	Americium 241	0.09 ± 0.04 pCi/l
	Plutonium 238	< 0.04 pCi/l
	Plutonium 239	0.02 ± 0.02 pCi/l
	Thorium 228	9.44 ± 1.21 pCi/l
	Thorium 230	0.08 ± 0.02 pCi/l
	Thorium 232	< 0.01 pCi/l
	Uranium 238	0.23 ± 0.06 pCi/l

A. P. Wilson
 October 1, 1993
 JAJ-49-93
 Page 2

MATRIX	ISOTOPE	RESULT
Liquid (cont.)	Uranium 238	0.23 ± 0.06 pCi/l
	Uranium 234	0.26 ± 0.06 pCi/l
	Uranium 235	0.04 ± 0.02 pCi/l
Solid	Strontium 89	< 0.41 pCi/g
	Strontium 90	< 0.28 pCi/g
	Tritium	< 0.606 pCi/g
	Americium 241	< 0.08 pCi/g
	Plutonium 238	< 0.22 pCi/g
	Plutonium 239	< 0.05 pCi/g
	Thorium 228	5.48 ± 0.75 pCi/g
	Thorium 230	0.69 ± 0.12 pCi/g
	Thorium 232	0.76 ± 0.13 pCi/g
	Uranium 234	2.65 ± 0.37 pCi/g
	Uranium 235	0.15 ± 0.04 pCi/g
	Uranium 238	1.52 ± 0.23 pCi/g

These results are currently going through data validation and the results of this review will be submitted at that time.

All data meets minimum quality assurance/quality control requirements.

If there are any questions or if you have other sampling and analysis needs, please feel free to contact me at 6-4815.

cae

Attachments:
 As Stated

cc: ~~W~~(w/o Attach)
 L. V. Street, MS 4110

(with Attach)
 E. D. Walker, MS 4110
 Central Files, MS 1651
 J. A. Johnson File



REPORT OF ANALYSES

Contract Number: C93-170306
Task Number: 12

Prepared for:

Mr. Jay Johnson
EG & G Idaho, Inc.
P.O. Box 1625, MS 4133
Idaho Falls, ID 83415

August 24, 1993

DATA EVALUATION COMPLETE
REFER TO JAY-49-93
FOR REVIEW COMMENTS
DATE: 10-1-93



"Providing research and development services to the government"

INTEROFFICE CORRESPONDENCE

Date: August 20, 1993
 To: J. A. Johnson, MS 4110
 From: J. L. Doherty, MS 7111 *JS*
 Subject: RML GAMMA-RAY ANALYSIS OF FOUR EMS-044-93 PBF SEPTIC TANK SAMPLES FOR SHIPPING/SCREENING - JLD-06-93

Ref.: L. D. Koeppen letter to R. N. Wilhelmsen (LDK-06-92) RML Gamma-Emitting Radionuclide Detection Limits for Radiological Environmental Surveillance Program (RESP) Samples, March 27, 1992

Two sludge samples and two liquid samples from the EMS-044-93 PBF septic tank project were counted and analyzed by the Radiation Measurements Laboratory (RML) using standardized high resolution gamma-ray spectrometry techniques. Refer to above mentioned RML detection limits. The results of the analysis of these samples are listed below.

<u>Sample ID</u>	<u>RML ID</u>	<u>Detected</u>	<u>Activity</u>
04408049301	D1081093022	None detected	N/A
04408049302	D1081193008	Cs-137	(3.5±0.5)E-01 pCi/gm
PER61307219301	A3080293040	None detected	N/A
PER61307219302	D1080293021	None detected	N/A

If additional counting and analysis information is needed, please call the RML.

jd

cc: L. D. Koeppen, MS 7111 *JS*
 JW Rogers, MS 7111
 C. L. Rowsell, MS 7111
 Central Files, MS 1651
 J. L. Doherty File

CONDITION OF SAMPLE UPON RECEIPT

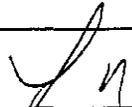
CLIENT EG+G

SHIPPING CONTAINER ID Client

WORKORDER NO. 93-07-179

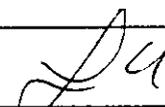
INITIALS VR

DATE 7-23-93

Does this project require special handling according to NEESA, Level-3, or CLP protocols?		Yes	<u>No</u>
1 If yes, complete a. and b.			
a. Cooler Temperature _____			
b. Lot No's. _____			
2	Are custody seals on cooler intact?	N/A	<u>Yes</u> No
3	Are custody seals on sample containers intact?	<u>N/A</u>	Yes No
4	Is there a Chain-of-Custody (COC)?	<u>Yes</u>	No
Is the COC complete? <u>Yes</u> No			
5	Relinquished: Yes <u>✓</u> No _____ Requested Analyses: Yes <u>✓</u> No _____	<u>Yes</u>	No
Is the COC in agreement with the samples received?			
6	No. of Samples: Yes <u>✓</u> No _____ Sample ID's: Yes <u>✓</u> No _____	<u>Yes</u>	No
	Matrix: yes <u>✓</u> No _____ No. of Containers: Yes <u>✓</u> No _____		
7	Are the samples preserved correctly?	<u>N/A</u>	Yes No
8	Is there enough sample for all the requested analyses?	<u>Yes</u>	No
9	Are all samples within holding times for the requested analyses:	<u>Yes</u>	No
10	Were the samples received cold? <u>4°C</u>	<u>Yes</u>	No
11	Were all sample containers received intact? (not broken or leaking, etc.)	<u>Yes</u>	No
12	Are samples requiring no headspace, headspace free?	<u>N/A</u>	Yes No
13	Do the samples require quarantine?	Yes	<u>No</u>
14	Do samples require ATI disposal?	<u>Yes</u>	No
Describe "No" items (except No's 1, 13 & 14): _____			
Was client contacted? Yes _____ No _____			
If yes, Date: _____ Name of person contacted: _____			
Describe actions taken or client instructions: _____			
 Group Leader's Signature		 Date	
*Or other representative documents, letters or shipping memos.			

CONDITION OF SAMPLE UPON RECEIPT

CLIENT EG+G SHIPPING CONTAINER ID Client
 WORKORDER NO. 93-07-178 INITIALS VR DATE 7-23-93

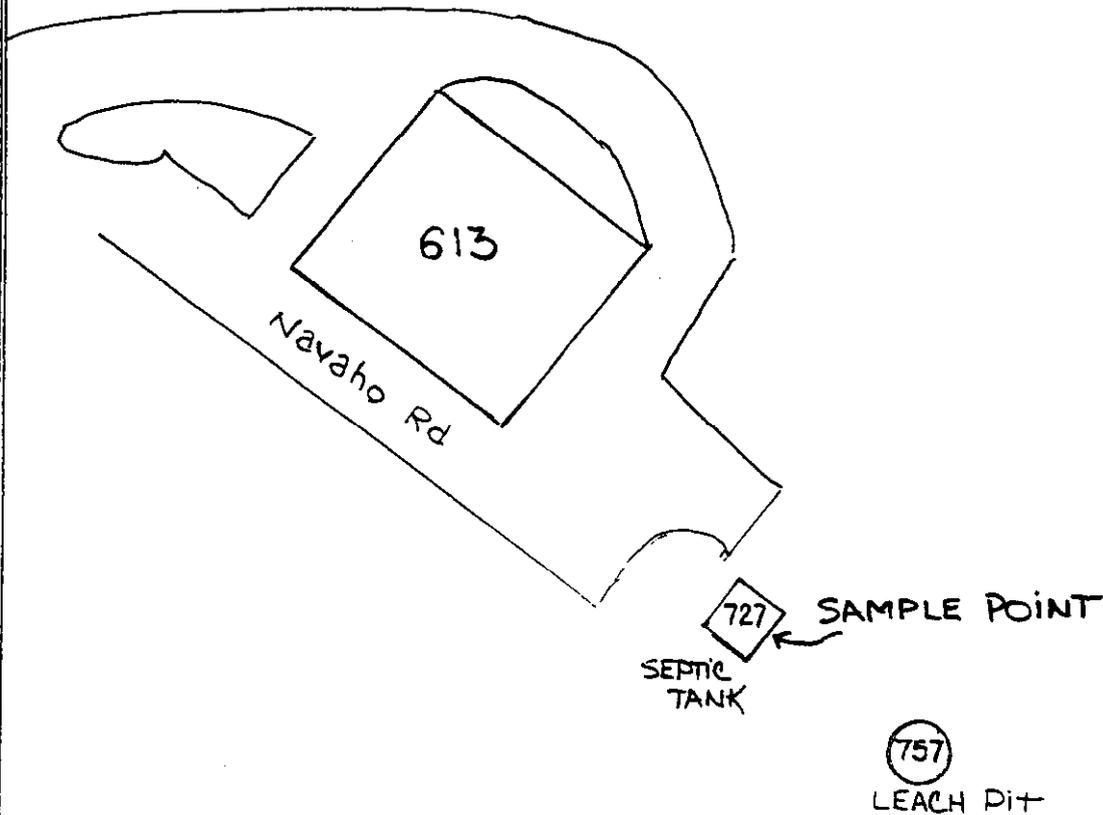
Does this project require special handling according to NEEESA, Level-3, or CLP protocols?		Yes	<input checked="" type="radio"/> No
1 If yes, complete a. and b. a. Cooler Temperature _____ b. Lot No's. _____			
2	Are custody seals on cooler intact?	N/A	<input checked="" type="radio"/> Yes No
3	Are custody seals on sample containers intact?	<input checked="" type="radio"/> N/A	Yes No
4	Is there a Chain-of-Custody (COC)?	<input checked="" type="radio"/> Yes	No
5	Is the COC complete? Relinquished: Yes <input checked="" type="checkbox"/> No _____ Requested Analyses: Yes <input checked="" type="checkbox"/> No _____	<input checked="" type="radio"/> Yes	No
6	Is the COC in agreement with the samples received? No. of Samples: Yes <input checked="" type="checkbox"/> No _____ Sample ID's: Yes <input checked="" type="checkbox"/> No _____ Matrix: yes <input checked="" type="checkbox"/> No _____ No. of Containers: Yes <input checked="" type="checkbox"/> No _____	<input checked="" type="radio"/> Yes	No
7	Are the samples preserved correctly?	<input checked="" type="radio"/> N/A	Yes No
8	Is there enough sample for all the requested analyses?	<input checked="" type="radio"/> Yes	No
9	Are all samples within holding times for the requested analyses:	<input checked="" type="radio"/> Yes	No
10	Were the samples received cold? 4°C	<input checked="" type="radio"/> Yes	No
11	Were all sample containers received intact? (not broken or leaking, etc.)	<input checked="" type="radio"/> Yes	No
12	Are samples requiring no headspace, headspace free? 7-23 N/A	<input checked="" type="radio"/> Yes	No
13	Do the samples require quarantine?	Yes	<input checked="" type="radio"/> No
14	Do samples require ATI disposal?	<input checked="" type="radio"/> Yes	No
Describe "No" items (except No's 1, 13 & 14): _____			
Was client contacted? Yes _____ No _____			
If yes, Date: _____ Name of person contacted: _____			
Describe actions taken or client instructions: _____			
 _____ Group Leader's Signature		_____ Date	
*Or other representative documents, letters or shipping memos.			

MAP OF SAMPLING LOCATION
(N/A if not applicable)



NORTH

containers. The liquid sample was collected using a peristaltic pump. The tubing was moved to several spots in the tank to obtain a representative sample. The liquid was then composited in an aluminum bucket before placing it in the proper sample containers.



RECORDED BY: Adrienne Egan READ AND UNDERSTOOD BY: _____