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7. Abstract

This report documents the non-CERCLA/RCRA sampling activities in support of Project C018-H water line construction. Samples were taken along the proposed route to determine if there was radioactive contamination associated with buried pipelines occur along the proposed C018-H pipeline route. Other samples were taken along the proposed C018-H pipeline route in areas where there was no reason to suspect radioactive contamination as confirmation that there was no radioactive contamination.

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FINAL REPORT FOR THE C018-H SOIL ANALYSIS

D. L. Smith

June 1992

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CONTENTS

1.0	INTRODUCTION . . . . .	4
2.0	METHODS. . . . .	4
3.0	SAMPLE ANALYSIS. . . . .	10
4.0	LESSONS LEARNED. . . . .	10
	4.1 KEH AND WESTINGHOUSE HANFORD INTERFACE. . . . .	11
	4.2 WESTINGHOUSE HANFORD OPERATIONS SUPPORT . . . . .	11
	4.3 SAMPLING GOALS. . . . .	11
	APPENDIX A - LIST OF PHOTOGRAPHS. . . . .	12
	ATTACHMENT 1 - SURVEY RESULTS . . . . .	14
	ATTACHMENT 2 - RADIATION WORK PERMIT. . . . .	23
	ATTACHMENT 3 - LABORATORY ANALYSIS RESULTS. . . . .	27

**LIST OF FIGURES**

1. C018-H Sampling Sections. . . . . 5

**LIST OF TABLES**

1. Sample Point Description. . . . . 6

## FINAL REPORT FOR THE C018-H SOIL ANALYSIS

### 1. INTRODUCTION





Construction of raw and sanitary water lines for the Effluent Treatment Facility is scheduled to begin in the last quarter of fiscal year 1992. The proposed water line routes traverse areas containing known radioactive pipelines, as depicted in Figure 1. Sampling of the areas near the pipelines was requested in order to determine if there was radioactive contamination associated with the lines. Other samples were taken in areas where there were no underground lines or known radioactive contamination as assurance that these areas were indeed free of radioactive contamination. Information gained from this sampling effort will be used to validate the proposed pipeline routes prior to construction, and to determine what portions of the pipeline can be constructed by a fixed price contractor and the site construction forces. This was not nor intended to be a Resource Conservation and Recovery Act or Comprehensive Environmental Response and Liability Act sampling effort.

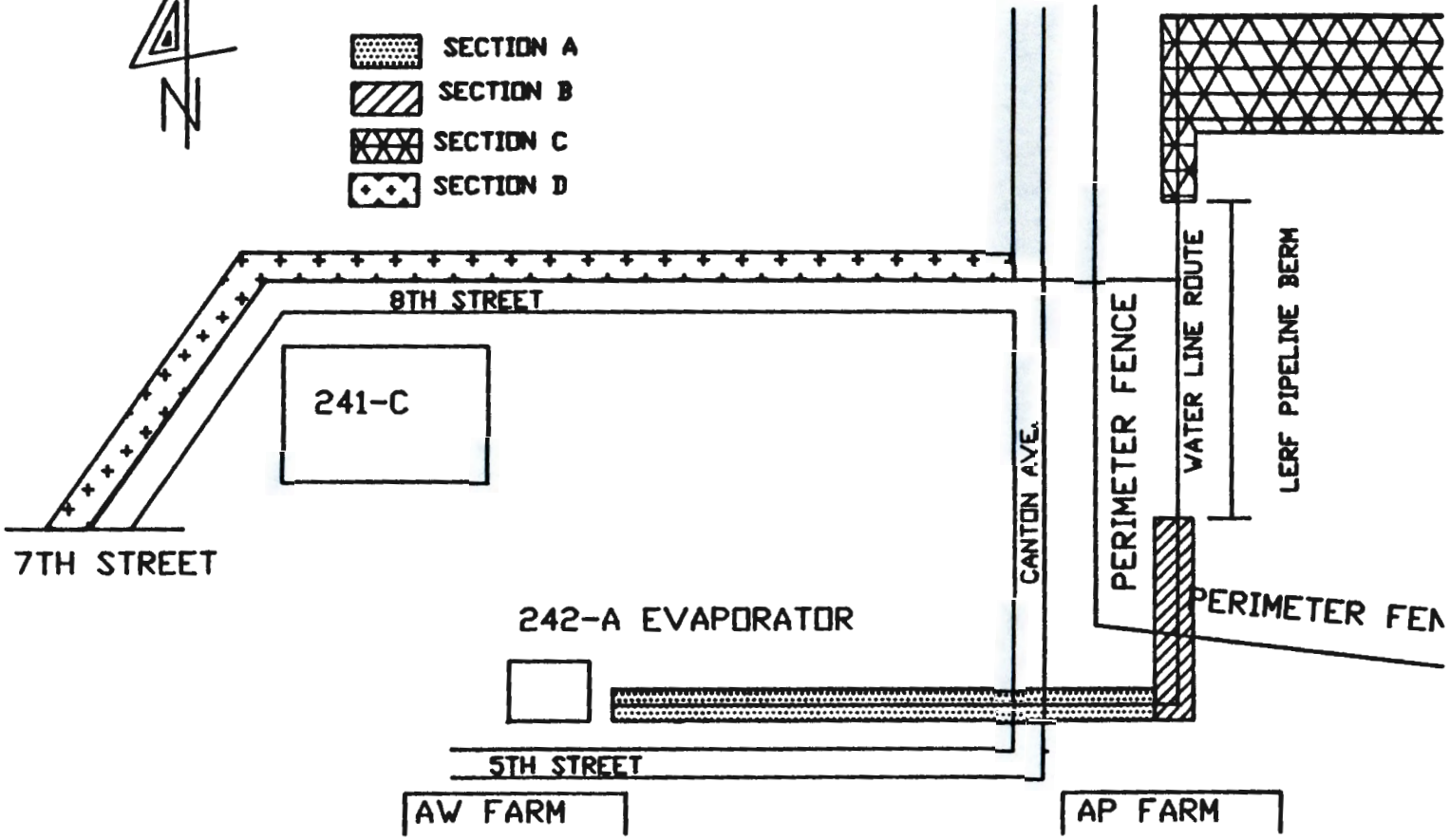
### 2. METHODS

Sample points were chosen based on the proposed pipeline routs, as depicted on facility drawings. Where the proposed pipeline route intersected a known radioactive pipeline, a sample point was designated. Other sample points were designated in areas where there was no known radioactive pipelines per discussions with C018-H Project Engineering. Areas sampled were divided into 4 sections based on location. See Figure 1 for the locations of each area sampled. Section A covered the area from the water services building east across Canton Avenue to approximately the 207-S retention basins. Section B covered the area from approximately the 207-S retention basins north to the beginning of the Liquid Effluent Retention Facility (LERF) effluent pipeline berm. Section C covered an area north and east of the LERF effluent pipeline berm. Section D ran along Sixth and Eighth Street, near the 241-C Tank Farm. Refer to drawings H-2-88722 through H-2-88727 for the proposed pipeline routes.

As a precaution, the entire pipeline route was scanned using ground penetrating radar (GPR). Sample points were adjusted from the pre-selected points and other sample points added based on the GPR data. Refer to Table 1 for a description of each sample point. A total of 32 samples were pre-selected. The sample points were then surveyed and marked in the field. Survey points were necessary because sample points were pre-selected as close to the location of the underground pipeline as possible. This, coupled with the GPR scans, minimized the chance of inadvertently striking the pipeline while drilling.

# C018-H SAMPLING SECTIONS

-  SECTION A
-  SECTION B
-  SECTION C
-  SECTION D



5

Figure 1. C018-H Sampling Sections.

Table 1. Sample Point Description.

SAMPLE NUMBER	LOCATION	DESCRIPTION OF AREA SAMPLED	RADIOACTIVITY ENCOUNTERED?
Section A			
C018H-A1	N40912 W47480	Sampled area near 16-in. water line. Pipe has potential for radioactive contamination.	No
C018H-A3	N40912 W47425	Sampled directly over 5-52 encasement. This is a radioactive line with a history of radioactive contamination in neighboring soil. Encasement is deeper than 6 ft.	Yes: shine (500 cpm beta/gamma)
C018H-A4	N40912 W47419.7	Sampled east of 5-52 encasement. This is a radioactive line with a history of radioactive contamination in neighboring soil.	No
C018H-A5	N40912 W47429.5	Sampled east of 5-52 encasement. This is a radioactive line with a history of radioactive contamination in neighboring soil.	No
C018H-A6	N40912 W47083.5	Sampled area near PUREX cooling water line. This line has carried radioactive material.	No

SAMPLE NUMBER	LOCATION	DESCRIPTION OF AREA SAMPLED	RADIOACTIVITY ENCOUNTERED?
Section B			
C018H-B1	N41055 W47065	Sampled area near a series of pipes that lead into the 207-A pump pit. These lines have carried radioactive material.	No
C018H-B2	N41064 W47065	Sampled area near a series of pipes that lead into the 207-A pump pit. These lines have carried radioactive material.	No
C018H-B3	N41515 W47045	Sampled area near 16-in. pipe that leads to the 216-A-8 crib. This line has carried radioactive material.	No
C018H-B4	N41570 W47045	Sampled area near 15-in. pipe that leads to the 216-A-34 crib. This line has carried radioactive material.	No
C018H-B5	N42429 W47045	No underground lines associated with this sample.	No
C018H-B6	N42920 W47080	Sampled area near PUREX cooling water line. This line has carried radioactive material.	No

SAMPLE NUMBER	LOCATION	DESCRIPTION OF AREA SAMPLED	RADIOACTIVITY ENCOUNTERED?
Section C			
C018H-C1	N45283 W47138	No underground lines associated with this sample.	No
C018H-C2	N45293 W47149	No underground lines associated with this sample.	No
C018H-C3	N45660 W47138	No underground lines associated with this sample.	No
C018H-C4	N45935 W47149	No underground lines associated with this sample.	No
C018H-C5	N45800 W47077.3	Sampled area near PUREX cooling water line. This line has carried radioactive material.	No
C018H-C6	N45800 W46600	No underground lines associated with this sample.	No
C018H-C7	N45800 W46300	No underground lines associated with this sample.	No
C018H-C8	N46229 W47077.3	Sampled area near PUREX cooling water line. This line has carried radioactive material.	No
C018H-C9	N46421 W47082.8	Sampled area near PUREX cooling water line. This line has carried radioactive material.	No
C018H-C10	N46245 W46600	No underground lines associated with this sample.	No
C018H-C11	N46235 W46300	No underground lines associated with this sample.	No

SAMPLE NUMBER	LOCATION	DESCRIPTION OF AREA SAMPLED	RADIOACTIVITY ENCOUNTERED?
<b>Section D</b>			
C018H-D1	N42658.6 W49086.4	Sampled area over 2-in. pipe. This line has carried radioactive material. This line is deeper than 6 ft deep.	No
C018H-D2	N42793 W48954	Sampled area over pair of 3-in. pipes. These lines have carried radioactive material, and are deeper than 6 ft.	No
C018H-D3	N43173.3 W48568.7	Sampled area near 4-in. pipe. This line has carried radioactive material. Pipe depth is approximately 4 ft.	Yes: shine (40,000 cpm beta/gamma).
C018H-D4	N43000 W48745	No underground lines associated with this sample.	No
C018H-D5	N43366 W48378.8	No underground lines associated with this sample.	No
C018H-D6	N43490 W48055	No underground lines associated with this sample.	No
C018H-D7	N43490 W47500	No underground lines associated with this sample.	No
C018H-D8	N42745 W49002	Sampled area near GPR survey contact. Object is between 0 and 5 ft deep.	No
C018H-D9	N42848 W48897	Sampled area near GPR survey contact. Object is between 0 and 2 ft deep.	No
C018H-D10	N43145 W48597	Sampled area near GPR survey contact. Object is between 0 and 4 ft deep.	No

Samples were collected by means of a drill rig outfitted with a 10-in. diameter auger. Because of the potential for radioactive contamination, plastic was placed over the sample point, and an approximately 4-ft diameter by 3-ft tall tube was placed on the plastic. The drill rig was positioned, and the auger was lowered to the sample point marked on the ground surface. As drilling progressed, the Health Physics Technician (HPT) monitored the cuttings as they were brought up by the auger. Drilling continued to a depth of 6 ft, at which time a sample was taken from the auger cuttings. Appendix A is a list of relevant photographs taken while work was in progress. No detectable radioactive contamination was found at any sample point or in subsequent laboratory analysis. Radioactive shine was encountered at sample points A3 and D3. Refer to Attachment 1 for the survey reports generated from this effort. If radioactive contamination had been encountered, drilling would have ceased. The area inside the tube would have been posted as "Surface Contaminated Area," and radioactively contaminated soils would have been drummed. The area would have been downposted after verifying that no detectable radioactive material was present. Refer to Attachment 2 for the Radiation Work Permit (RWP) with the ALARA management worksheet governing this work.

The drill rig was operated by Kaiser Engineers Hanford (KEH). Westinghouse Hanford Company (Westinghouse Hanford) provided the engineering, health physics, and operations support. Decommissioning Engineering provided the pre-selected sample points and coordination between groups. Health Physics provided radiation monitoring and the RWP, and took and shipped the samples. The 242-A Evaporator provided SWP clothing at the sampling sites and transport of the samples to the 222-S Laboratory. They also would have provided radioactive waste shippers, storage, and disposal had radioactive soil been encountered. Project C018-H project technicians maintained a field logbook and filled out sample labels. Environmental Quality Assurance provided the requirements and field verification.

### 3. SAMPLE ANALYSIS

Samples were field screened for detectable radioactive contamination. All samples were free of detectable radioactive contamination. Samples were then sent to the 222-S Laboratory for a total activity analysis. See Attachment 3 for the results of the laboratory analysis. All samples were less than 50 pCi/g total activity. If there would have been detectable contamination in either the field or laboratory screening, further analysis would have been requested on an as needed basis.

### 4. LESSONS LEARNED

There were several important lessons learned from this effort that should be applicable to future efforts of similar scope and interface among site contractors.

#### 4.1. KEH AND WESTINGHOUSE HANFORD INTERFACE

Kaiser Engineers Hanford operates to their own work packages and was not accustomed to working to Westinghouse Hanford procedures. In the future when utilizing KEH for this type of work, a letter of instruction (LOI) should be issued that directs the sampling operation. The LOI should specify all aspects of the sampling effort. KEH will then develop their own procedures based on the LOI. Other procedures may be necessary for Westinghouse Hanford employees shall be developed also from the LOI written to the Westinghouse Hanford supporting organizations. Projects Department shall retain the coordinating responsibilities and overall management of the activities to ensure cost, schedule and scope of work control.

#### 4.2. WESTINGHOUSE HANFORD OPERATIONS SUPPORT

Whenever utilizing KEH and when there is a potential for radioactive waste generation, a Westinghouse Hanford operations group will be required. It would have been extremely beneficial to have this group identified early in the planning process.

Other support groups for laboratory analysis, shipping, waste disposal, security/safeguards, and water and electrical utilities should be planned and coordinated from start to finish.

#### 4.3. SAMPLING GOALS

More complete information about what the sample data is trying to prove or disprove is necessary early in the planning process. This information determines the graded quality assurance requirements and surveillance that would be applicable to the work.

APPENDIX A

LIST OF PHOTOGRAPHS

## LIST OF PHOTOGRAPHS

PHOTOGRAPH #	DESCRIPTION OF PHOTOGRAPH
92052918 - 26 cn	Checking auger cuttings for radioactive contamination (close up view).
92052918 - 27 cn	General view of the job site while drill ring is operating.
92052918 - 28 cn	Checking auger cuttings for radioactive contamination (distant view).
92052918 - 29 cn	Checking auger cuttings for radioactive contamination (close up view).

**ATTACHMENT 1**

**SURVEY RESULTS**



# RADIATION SURVEY REPORT

Date **5-5-92** Time From **1030** To **1400** Survey Number **108645** FC **D** Page **1** of **2**

Bldg **NA** Area **600 area** Room **NA**

Description of Job  
**Health Physics Support of Soil Characterization**

RWP No **TF-KEH-012** Location **North of East Area gate.**

- Check if appropriate. When checked, do not place unrelated information on this record
- Personnel Contamination
  - CAM/Radiation Alarm
  - Establish Dose Rates
  - Radiation Contamination Incident
  - High Radiation Level Work
  - "Special Survey"
  - Property Release
  - RAM Shipment

Item No	P E R (1)	Description of Work Performed, Radiation Controls, and Measurements	Meter Deflection		Dist	CF	DOSE RATE			CONTAMINATION LEVELS				
			W/O	W/C			beta (non pen) mrad/hr	gamma (pen) mR/hr	neutron mrem/hr	Direct (dpm)		Smear 100 cm <sup>2</sup>		
										beta	alpha	beta (d/m)	alpha (d/m)	mrad/hr
1		General area dose rate	< 0.5	< 0.5	F	/	2.5	2.5	-	-	-	-	-	-
2		Survey of soil	-	-	-	/	-	-	-	< D	< D	-	-	-
3		Survey of Auger	-	-	-	/	-	-	-	< D	< D	-	-	-
4		Survey of Sample C-4	-	-	-	/	-	-	-	< D	< D	-	-	-
5		Survey of Sample C-5	-	-	-	/	-	-	-	< D	< D	-	-	-
NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

1 Check for personnel dose rate  Continued on supplemental report form

Instrument(s) Used	<input checked="" type="checkbox"/> CP	<input checked="" type="checkbox"/> G-M Pancake	<input checked="" type="checkbox"/> PAM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Serial No (s)	6644	1608 894	2164	-	-	-

Respiratory Protection Worn

- Supplied Air
- Filter
- Other \_\_\_\_\_
- None

ESTIMATED PERSONNEL DOSE RATES			
Phase of Work	Based on Measurement(s)	Average Dose Rate	Limit Applying
NA	NA	NA	WBP S E
↓	↓	↓	WBP S E
↓	↓	↓	WBP S E

RPT Exposure **2.5 mrem**

Work Location Code **NA**

Signed **[Signature]**  
PR No **82015**

Did you increase or reduce RWP requirements for this work?  
 No  Yes Explain on reverse side

Did you attend a pre job meeting for this work?  
 N.A  No  Yes

Reviewed By **[Signature]** Date **6/1/92**

15

MHC-SD-DD-TI-069 Rev. 0

RADIATION SURVEY REPORT (cont.)

Survey Number

108645

FC

D

Page 2 of 2

Further Descriptions, Data, and Comment

6 foot holes are drilled with auger and soil sample taken at 6 foot level to characterize soil prior to excavating.

DIAGRAMS OR SKETCHES



ADDITIONAL REPORTS COMPLETED

	Log No.		Log No.
Radiological Problem Report	NA	Onsite Radioactive Shipment	NA
Skin Contamination Survey	↓	Offsite Radioactive Shipment	↓
Personnel Effects Contamination Report	↓	Routine Radioactive Shipment	↓
Radiation Survey Report	↓	Sample Counter Log	↓



# RADIATION SURVEY REPORT

Date **5-6-92** Time From **0730** To **1430** Survey Number **108650** FC **D** Page **1** of **2**

Bldg **NA** Area **600** Room **NA**

Description of Job  
**Health Physics Support of Soil Characterization**

RWP No **TE-KEH-012** Location **North of 200 East**

Check if appropriate. When checked do not place unrelated information on this record

- Personnel Contamination
- CAM Radiation Alarm
- Establish Dose Rates
- Radiation Contamination Incident
- High Radiation Level Work
- "Special Survey"
- Property Release
- RAM Shipment

Item No	P E R (1)	Description of Work Performed, Radiation Controls, and Measurements	Meter Deflection		Dist	CF	DOSE RATE			CONTAMINATION LEVELS				
			W/O	W/K			beta (non pen) mrad/hr	gamma (pen) mR/hr	neutron mrem/hr	Direct (dpm)		Smear 100 cm <sup>2</sup>		
										beta	alpha	beta (d/m)	alpha (d/m)	mrad/hr
1		General area dose rate	<5	<5	F	/	<.5	<.5	-	-	-	-	-	-
2		Grid/ill survey of ground	-	-	-	/	-	-	-	<D	<D	-	-	-
3		Survey of soil (all holes)	-	-	-	/	-	-	-	<D	<D	-	-	-
4		Survey of Auger	-	-	-	/	-	-	-	<D	<D	-	-	-
5		Survey of All Soil Samples	-	-	-	/	-	-	-	<D	<D	-	-	-

1 Check for personnel dose rate  Continued on supplemental report form

Instrument(s) Used	<input checked="" type="checkbox"/> CP	<input checked="" type="checkbox"/> G-M Pancake	<input checked="" type="checkbox"/> PAM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Serial No (s)	6197	1158 / 1186	2433	-	-	-

Respiratory Protection Worn

- Supplied Air
- Filter
- Other \_\_\_\_\_
- None

### ESTIMATED PERSONNEL DOSE RATES

Phase of Work	Based on Measurement(s)	Average Dose Rate	Limit Applying		
			WBP	S	E
<i>NA</i>					
<i>NA</i>					
<i>NA</i>					

RPT Exposure **4.5 mrem** Work Location Code **NA** Signed **[Signature]** PR No **92015**  
 Did you increase or reduce RWP requirements for this work?  No  Yes Explain on reverse side  
 Did you attend a pre job meeting for this work?  N/A  No  Yes  
 Reviewed By **[Signature]** Date **6/1/92**

RADIATION SURVEY REPORT (cont.)

Survey Number

108650

FC

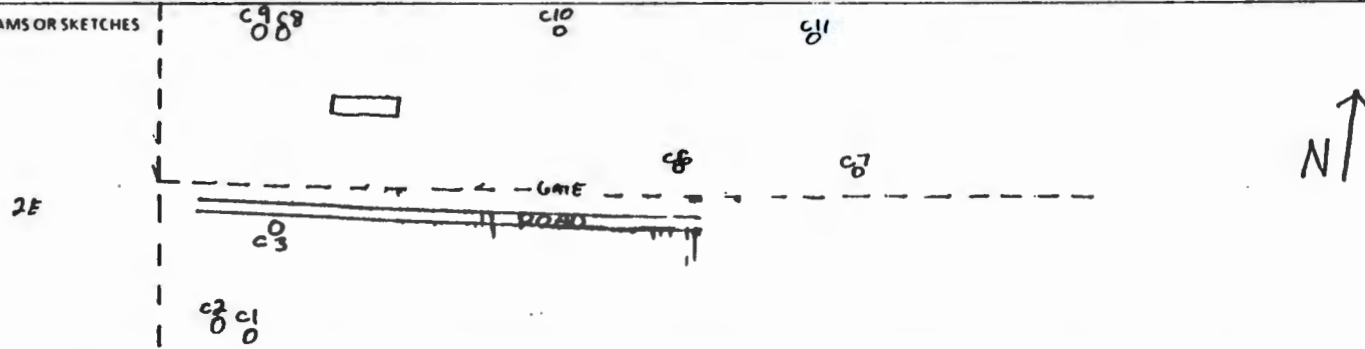
D

Page 2 of 2

Further Descriptions, Data, and Comment

Holes drilled were C1, C2, C3, C6, C7, C8, C9, C10, C11. All holes bored 6 Feet.

DIAGRAMS OR SKETCHES



ADDITIONAL REPORTS COMPLETED

	Log No.		Log No.
Radiological Problem Report	NA	Onsite Radioactive Shipment	NA
Skin Contamination Survey	↓	Offsite Radioactive Shipment	↓
Personnel Effects Contamination Report		Routine Radioactive Shipment	
Radiation Survey Report		Sample Counter Log	

18

WHC-SD-DD-TI-069 Rev. 0



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**RADIATION SURVEY REPORT**

Date: 5-7-92 Time: From 0245 To 15:00 Survey Number: 108658 FC: D Page: / of 1

Bldg: NA Area: 600/200E Room: NA

Description of Job:  
HEALTH PHYSICS SUPPORT OF SOIL CHARACTERIZATION  
Auger crew

RWP No: D-KEN-T-079  
103-7-92 FF-KEN-012 Location: SOUTH OF WEST OF CALM

Check if appropriate. When checked, do not place unrelated information on this record

Personnel Contamination  High Radiation Level Work  
 CAM/Radiation Alarm  "Special Survey"  
 Establish Dose Rates  Property Release  
 Radiation Contamination Incident  RAM Shipment

Item No	P E R (1)	Description of Work Performed, Radiation Controls, and Measurements	Meter Deflection		Dist	CF	DOSE RATE			CONTAMINATION LEVELS				
			W/O	W/C			beta (non pen) mrad/hr	gamma (pen) mR/hr	neutron mrem/hr	Direct (dpm)		Smear: 100 cm <sup>2</sup>		
										beta	alpha	beta (d/m)	alpha (d/m)	mrad-hr
1	-	Pre-drilling soil survey	-	-	-	/	-	-	-	<D	<D	-	-	-
2	-	Survey of soil	-	-	-	/	-	-	-	<D	<D	-	-	-
3	-	Survey of personnel	-	-	-	/	-	-	-	<D	<D	-	-	-
4	-	Survey of auger	-	-	-	/	-	-	-	<D	<D	-	-	-

1 Check for personnel dose rate  Continued on supplemental report form

Instrument(s) Used:  CR  GM Pancake  PAM  N  A

Serial No (s): A 1597 1834 2869 A

Respiratory Protection Worn

Supplied Air  
 Filter  
 Other \_\_\_\_\_  
 None

ESTIMATED PERSONNEL DOSE RATES

Phase of Work	Based on Measurement(s)	Average Dose Rate	Limit Applying
(Handwritten circle)			
			WBP S E
			WBP S E
			WBP S E

RPT Exposure: LO-5 mrem Work Location Code: N/A Signed: [Signature] 20 PM  
 PR No: 82015 / 82049  
 Did you increase or reduce RWP requirements for this work?  No  Yes Explain on reverse side  
 Did you attend a pre job meeting for this work?  N.A  No  Yes  
 Reviewed By: [Signature] Date: 6/1/92

19

WHC-SD-DD-TI-069 Rev. 0

**RADIATION SURVEY REPORT (cont.)**

Survey Number

108658

FC

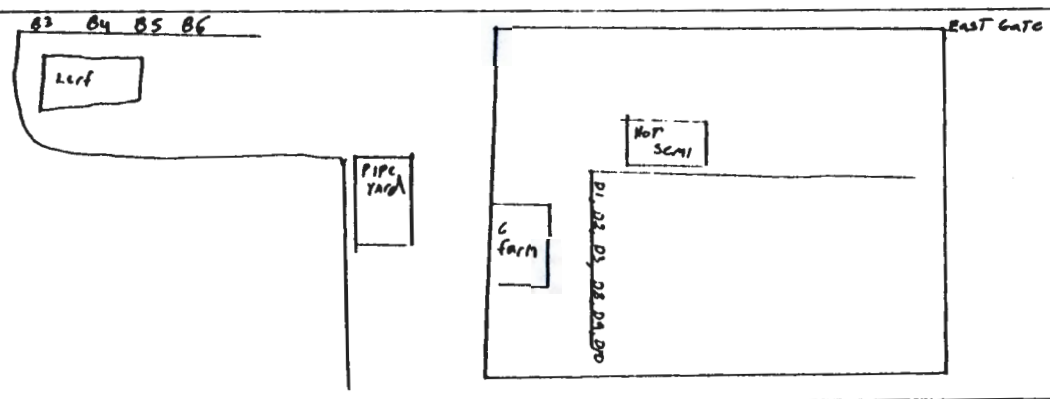
D

Page 1 of 1

Further Descriptions, Data, and Comment

Holes drilled were B3, B4, B5, B6, D1, D2, D8, D9, D10. All soil sample < D.

DIAGRAMS OR SKETCHES



ADDITIONAL REPORTS COMPLETED

	Log No.		Log No.
Radiological Problem Report	NA	Onsite Radioactive Shipment	NA
Skin Contamination Survey	↓	Offsite Radioactive Shipment	↓
Personnel Effects Contamination Report	↓	Routine Radioactive Shipment	↓
Radiation Survey Report	↓	Sample Counter Log	↓

20

MHC-SD-DD-TI-069 Rev. 0



Westinghouse Hanford Company

### RADIATION SURVEY REPORT

Date

5-8-92

Time

From 0730 To 1300

Survey Number

108661

FC

D

Page 1 of 1

Bldg

N/A

Area

200 EAST

Room

N/A

Description of Job

HPT coverage of auger well  
drilling in the <sup>5000</sup> ~~auger~~ 200 EAST.

RWP No

D-KCH-T-074

Location

WEST OF C FARM

Check if appropriate. When checked do not place unrelated information on this record

- Personnel Contamination
- High Radiation Level Work
- LAM Radiation Alarm
- "Special Survey"
- Establish Dose Rates
- Property Release
- Radiation Contamination Incident
- RAM Shipment

Item No	P E R (1)	Description of Work Performed, Radiation Controls, and Measurements	Meter Deflection		Dist	CF	DOSE RATE			CONTAMINATION LEVELS				
			W/O	W/C			beta (non pen) mrad/hr	gamma (pen) mR/hr	neutron mrem/hr	Direct (dpm)		Smear 100 cm <sup>2</sup>		
										beta	alpha	beta (d/m)	alpha (d/m)	mrad hr
1		Survey of ground prior to drilling	NA	NA	NA	NA	NA	NA	NA	<D	<D	NA	NA	NA
2		Survey of soil	↓	↓	↓	↓	↓	↓	↓	<D	<D	↓	↓	↓
3		Survey of Personnel	↓	↓	↓	↓	↓	↓	↓	<D	<D	↓	↓	↓
4		Survey of Auger	↓	↓	↓	↓	↓	↓	↓	<D	<D	↓	↓	↓
NA		NA	↓	↓	↓	↓	↓	↓	↓	NA	NA	↓	↓	↓

1 Check for personnel dose rate  Continued on supplemental report form

Instrument(s) Used	<input type="checkbox"/> CP	<input checked="" type="checkbox"/> G-M Pancake	<input checked="" type="checkbox"/> PAM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Serial No (s)	-	1597 1834	2869	-	-	-

Respiratory Protection Worn

- Supplied Air
- Filter
- Other \_\_\_\_\_
- None

#### ESTIMATED PERSONNEL DOSE RATES

Phase of Work	Based on Measurement(s)	Average Dose Rate	Limit Applying
<del>WBP S E</del>			
<del>WBP S E</del>			
<del>WBP S E</del>			

RPT Exposure 20.5 mrem

Work Location Code NA

Signed [Signature] / 1020  
PR No 82015 / 82049

Did you increase or reduce RWP requirements for this work?  
 No  Yes Explain on reverse side

Did you attend a pre job meeting for this work?  
 N.A  No  Yes

Reviewed By [Signature] Date 6/1/92

**RADIATION SURVEY REPORT (cont.)**

Survey Number 108661

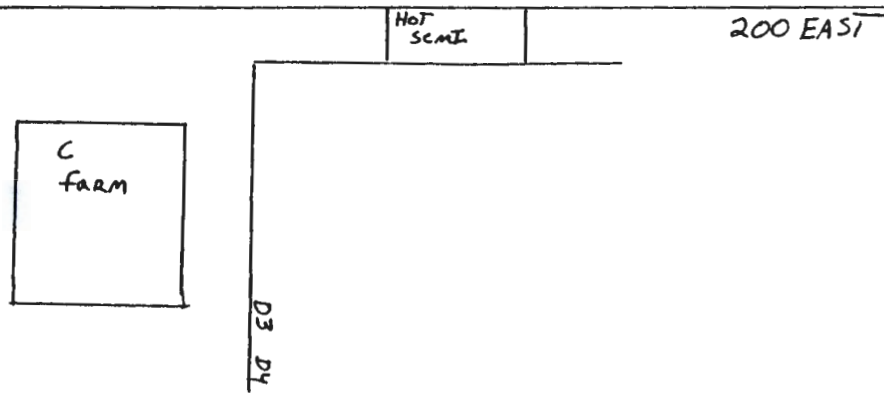
FC  
D

Page / of /

Further Descriptions, Data, and Comment

Holes drilled were D3, D4. All soil samples were <D.

DIAGRAMS OR SKETCHES



ADDITIONAL REPORTS COMPLETED

	Log No.
Radiological Problem Report	NA
Skin Contamination Survey	↓
Personnel Effects Contamination Report	↓
Radiation Survey Report	↓

	Log No.
Onsite Radioactive Shipment	NA
Offsite Radioactive Shipment	↓
Routine Radioactive Shipment	↓
Sample Counter Log	↓

22

**ATTACHMENT 2**

**RADIATION WORK PERMIT**

<b>WESTINGHOUSE HANFORD COMPANY</b>		<b>RADIATION WORK PERMIT</b>		No. FC - Subgroup - T or S - XXX <b>D-KEH-T-074</b>		
<input type="checkbox"/> Long Term <input checked="" type="checkbox"/> Temporary <input type="checkbox"/> Special		Page 1 of 2		Rev. No. 0		
Requested By: <b>Environmental Projects</b>			Valid From: <b>04-29-92</b>		To: <b>07-29-92</b>	
Location: <b>200 East, 600 areas along the eastern fence of 200 East</b>						
Authorized Work Scope: <b>CO18H Auger Soil Sampling</b>						
RADIOLOGICAL CONDITIONS						
Contamination Potentials:			Dose Equivalent Rates Expected Average/Maximum:			
<input checked="" type="checkbox"/> Alpha (α) Smearable: α <D β, γ <D Fixed: α <D β, γ <D Comments: See SI# 3		<input checked="" type="checkbox"/> Beta/Gamma (β/γ) dpm/100 cm <sup>2</sup> or <b>N/A</b> mrad/hr dpm/100 cm <sup>2</sup> or <b>N/A</b> mrad/hr dpm or <b>N/A</b> mrad/hr dpm or <b>N/A</b> mrad/hr		<input checked="" type="checkbox"/> Beta (β) <input checked="" type="checkbox"/> Gamma (γ)      Neutron (n) Whole Body: Ave. <b>&lt;0.5</b> mrem/hr    Max <b>2.0</b> mrem/hr Extremity: Ave. <b>&lt;0.5</b> mrem/hr    Max <b>2.0</b> mrem/hr Comments: See SI# 3		
DOSIMETRY			PROTECTIVE EQUIPMENT			
EXTERNAL	INTERNAL	RESPIRATORY	BODY	HAND	HEAD	FEET
Basic TLD	MFP .Sr90	<input checked="" type="checkbox"/> Full-Face	Lab Coat	<input checked="" type="checkbox"/> Canvas & Surgeon's	<input type="checkbox"/> Cap	<input type="checkbox"/> Shoe Covers
<input checked="" type="checkbox"/> HMPD		<input type="checkbox"/> PAPR	Coveralls	<input type="checkbox"/> Waterproof	<input checked="" type="checkbox"/> Hood	<input checked="" type="checkbox"/> Canvas Boots
Pencil	Chest Count	<input type="checkbox"/> Supplied Air	Gortex	<input type="checkbox"/> Leather	<input checked="" type="checkbox"/> Face Shield	<input checked="" type="checkbox"/> Rubbers
Finger Ring	<input checked="" type="checkbox"/> WB Count	<input type="checkbox"/> SCBA	Waterproof	<input checked="" type="checkbox"/> Surgeon's	<input type="checkbox"/> Waterproof	<input type="checkbox"/> Rubber Boots
PADI	Urinalysis		No Personal Outers			
Time Keeping						
See SI	See SI	<input checked="" type="checkbox"/> See SI 4	<input checked="" type="checkbox"/> See SI 5	<input checked="" type="checkbox"/> See SI 5	<input checked="" type="checkbox"/> See SI 5	<input checked="" type="checkbox"/> See SI 5
HEALTH PHYSICS TECHNICIAN COVERAGE						
<input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Continuous <input checked="" type="checkbox"/> See Special Instr. No. 2						
HPT Coverage Required When: See SI# 2						
HPT Coverage Required Until: See SI# 2						
Phone No.: 6-0844, 948-0907						
SPECIAL INSTRUCTIONS						
1. Comply with all General Requirements and Practices as stated in WNC-CN-4-15, unless specifically changed by this Radiation Work Permit (RMP).						

Prepared by: <i>Michael H. ...</i>	Date: <b>4-29-92</b>	Maintenance: <b>N/A</b>	Date:
HP: <i>...</i>	Date: <b>4/30/92</b>	KEH: <i>R. ...</i>	Date: <b>4-30-92</b>
Operations: <i>...</i>	Date: <b>4-30-92</b>	AMM Completion Date: <b>4-29-92</b>	
FIELD CHANGE			
Date:	HP:	Operations:	

WESTINGHOUSE HANFORD COMPANY  
**RADIATION WORK PERMIT**  
 Special Instructions Continuation Page

No.: D-KEH-T-74  
 Rev. No.: 0  
 Page: 2 of 2

Long Term       Temporary       Special

2. The HPT will be onsite for all work in the Surface Contamination Area. HPT will be present during all intrusive auguring. For any other work, the HP Supervisor will determine the HPT coverage required.
3. Levels listed are Action Levels. If these levels are exceeded AUGERING WILL STOP, Auger will be decont and samples will be taken per the CO18H sample plan. Upper Limit Levels are as follows:  
 Alpha: 1000 dpm/100 cm<sup>2</sup> smearable or fixed  
 Beta/Gamma: 100,000 dpm/100 cm<sup>2</sup> smearable or fixed  
 Dose Equivalent Rates: 2 mrem/hr Whole Body or Extremity  
 If the Upper Limit Levels are exceeded, place the work in a safe condition and exit the area. Work may not continue under this RWP if the Upper Limit Levels are exceeded.
4. Respiratory protection is not normally required, however, if conditions warrant respiratory protection will be prescribed by the attending HPT. Conditions requiring respiratory protection include abrasive work on contaminated items, adverse wind conditions, and work with contamination at or above head level. Dust suppressing techniques should be employed to avoid the need for respiratory protection.
5. The Anti-Contamination clothing listed is the minimum required for working in a Surface Contamination Area. Waterproof clothing is only required if there is a splash hazard or the possibility of getting wet while working. A face shield shall be worn if no mask is worn and there is a splash hazard. Leather work gloves or neoprene chemical gloves may be substituted for canvas gloves, however surgeon gloves will be worn regardless of which outer gloves are worn.
6. A drill through tub( a confining ring at least 12'' high around the sample location) shall be used to prevent the spread of surface contamination. Plastic used to isolate the auger rig controls for the contamination should also be considered.
7. The work area will be posted as a Radiological Controlled Area until contamination is detected in the work area. If contamination is detected in the drill through tub, the the area will be posted as a Surface Contamination Area.
8. When sampling is completed, spoils may be backfilled and work area released to original status per WHC-IP-0692 Section 11.05.03 with emphasis on step 3.7.

Attach to RWP

**ALARA MANAGEMENT WORKSHEET (AMW)**

**PART I PRE-JOB INFORMATION**

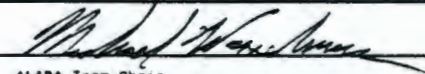
Work Pkg. No. or Equivalent: <u>RWP KEH T 074</u> Job Title/Description: <p style="margin-left: 20px;">Auger soil sampling for the C018H project</p>	Area/facility/location: <u>200 East</u> ALARA Review Required: Yes If yes, then complete Section II of this form <input checked="" type="checkbox"/> No If no, then sign in Section III of this form
--	---

**PART II ALARA REVIEW      PART IIA ESTIMATED COLLECTIVE DOSE      Person-rem**

PART IIB PROTECTIVE MEASURES	Yes/No	Reference/Explanation
A. Can work be moved to a lower exposure rate area?		
B. Can time-saving techniques be employed to reduce dose?		
C. Can decontamination be done to reduce risks?		
D. Can additional shielding be employed to reduce dose rates?		
E. Can additional nonradiological hazards be identified and planned for?		
F. Can other contingencies (e.g., off-normal events, accidents, etc.) be planned for?		
G. Can the number of personnel entering the radiologically controlled area be reduced?		
H. Can other adverse work conditions (e.g., heat stress, noise, physical restrictions, etc.) be planned for?		
I. Can special ventilation systems be used in lieu of respiratory protection?		
J. Can additional special tools or equipment be utilized to reduce exposures?		
K. Can additional provisions for waste removal, segregation, or minimization be accomplished?		
L. Can additional efforts be made to reduce FUTURE doses?		

M. Describe any other methods which were used to reduce exposures or risks:

**PART IIC ESTIMATED COLLECTIVE DOSE (corrected)      Person-rem**

**PART III PRE-JOB APPROVAL**      Signature of AMW preparer: 

DISTRIBUTION: Original - RWP    Work Package    ALARA Program Office    ALARA Team Chair

**PART IV LESSONS LEARNED**

In the course of performing any job covered by this AMW, document any lessons learned and send copy to ALARA Team Chairperson or Point of Contact.

**ATTACHMENT 3**

**LABORATORY ANALYSIS RESULTS**

SAMPLE STATUS REPORT FOR E 2761. E-BLANK            D018H-A1    TIME: 5/12/92    9:43  
DISPATCHED: 5/ 6/92  11: 8            SAMPLE HAS NOT BEEN SLURPED  
RECEIVED:    5/11/92  14:52

DATA	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
***	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2762. E-BLANK C01611-A3 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 8/92 11: 9 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:52

EST.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ASIS?	CHARGE CODE
***	*****	*****	***	***	*****
4271	10T-ACF	< 5.00000E 01 PICI/G	N	Y	YLBD1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2763. E-BLANK      C01011-A4    TIME: 5/12/92    9:43  
DISPATCHED: 5/ 6/92 11:10      SAMPLE HAS NOT BEEN SLURPED  
RECEIVED:    5/11/92 14:52

EXT.	DETER.	RESULTS OR STATUS	OUT OF GOOD RANGE?	CHARGE AND?	CHARGE CODE
427	TOT-ACT	5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2764. E-BLANK C018H-A5 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:11 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:52

EXT.	DETER.	RESULTS OR STATUS	OUT OF	GOOD	CHARGE
			RANGE?	ANS?	CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2765. E-BLANK CO18H-A6 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:12 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/12/92 8:32

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
***	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLB01

END OF REPORT

SAMPLE STATUS REPORT FOR E 2766. E-BLANK C018H-B1 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:15 SAMPLE HAS NOT BEEN SLURFED  
RECEIVED: 5/11/92 14:52

EXT.	DETER.	RESULTS OR STATUS	OUT OF GOOD RANGE?	CHARGE ANS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	PB7AD

END OF REPORT

SAMPLE STATUS REPORT FOR E 2767. E-BLANK C018H-B2 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:17 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:52

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2768. E-BLANK C018H-B3 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:18 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 8:30

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2769. E-BLANK C018H-B4 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:19 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:52

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2770. E-BLANK C018H-B5 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:20 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:52

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
***	*****	*****	***	***	*****
4273	TOT-ACT	< 5.00000E 01 FICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2771. E-BLANK CO18H-B6 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:21 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:52

EXT.	DETER.	RESULTS OR STATUS	OUT OF GOOD CHARGE
			RANGE? ANS? CODE
****	*****	*****	*** ** *****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N Y YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2772. E-BLANK            CO18H-C1    TIME:    5/11/92    8:59  
DISPATCHED:    5/ 6/92    11:22            SAMPLE HAS NOT BEEN SLURPED  
RECEIVED:       5/11/92    7:54

EXT.	DETER.	RESULTS OR STATUS	OUT OF	GOOD	CHARGE
			RANGE?	ANS?	CODE
***	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YL661

END OF REPORT

SAMPLE STATUS REPORT FOR E 2773. E-BLANK C018H-C2 TIME: 5/11/92 8:59  
DISPATCHED: 5/ 6/92 11:23 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 7:54

EXT.	DETER.	RESULTS OR STATUS	OUT OF GOOD RANGE?	CHARGE ANS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2774. E-BLANK C018H-C3 TIME: 5/11/92 8:59  
DISPATCHED: 5/ 6/92 11:24 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 7:54

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2775. E-BLANK C018H-C4 TIME: 5/11/92 8:59  
DISPATCHED: 5/ 6/92 11:35 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 7:54

EXT.	DETER.	RESULTS OR STATUS	OUT OF GOOD RANGE?	CHARGE ANS?	CODE
***	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2776. E-BLANK CO18H-C5 TIME: 5/11/92 8:59  
DISPATCHED: 5/ 6/92 11:36 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 7:54

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
***	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2777. E-BLANK C018H-C6 TIME: 5/11/92 8:59  
DISPATCHED: 5/ 6/92 11:36 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 7:54

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
###	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2778. E-BLANK C018H-C7 TIME: 5/11/92 8:59  
DISPATCHED: 5/ 6/92 11:37 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 7:54

EXT.	DETER.	RESULTS OR STATUS	OUT OF GOOD RANGE?	CHARGE ANS?	CODE
****	*****	*****	***	***	*****
4271	TOI-AC1	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2779. E-BLANK CO18H-C8 TIME: 5/11/92 8:59  
DISPATCHED: 5/ 6/92 11:38 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 7:54

CX1.	DETER.	RESULTS OR STATUS	OUT OF GOOD RANGE?	CHARGE ANS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLB01

END OF REPORT

SAMPLE STATUS REPORT FOR E 2780. E-BLANK C018H-C9 TIME: 5/11/92 8:59  
DISPATCHED: 5/ 6/92 11:38 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 7:54

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
***	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2781. E-BLANK C018HC10 TIME: 5/11/92 8:59  
DISPATCHED: 5/ 6/92 11:39 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 7:54

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2768. E-BLANK      0018H-21: TIME: 5/11/92    8:59  
DISPATCHED: 5/ 5/92 11:18      SAMPLE HAS NOT BEEN SLURPED  
RECEIVED:    5/11/92 3:30

EXT.	METER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TGT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2783. E-BLANK      C018H-D1- TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:40      SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:52

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANSW?	CHARGE CODE
***	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLB81

END OF REPORT

SAMPLE STATUS REPORT FOR E 2784. E-BLANK C016H-D2 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:41 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:52

EXT.	DETER.	RESULTS OR STATUS	OUT OF GOOD RANGE?	CHARGE AHS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2785. E-BLANK CO18H-D3 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:41 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:53

EXT.	METER.	RESULTS OR STATUS	OUT OF GOOD	CHARGE
			RANGE?	ANS? CODE
***	*****	*****	***	*** *****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y YLBE1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2786. E-BLANK C018H-D4 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:42 SAMPLE HAS NOT BEEN SLURFED  
RECEIVED: 5/11/92 8:10

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANSW?	CHARGE CODE
***	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 FICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2787. E-BLANK C018H-D5 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:42 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:53

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
427J	TOT-ACT	< 5.00000E 01 FICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2788. E-BLANK C018H-D6 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:43 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:53

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD?	CHARGE ANS?	CODE
****	*****	*****	***	***	*****	
4271	TOT-ACT	< 5.00000E 01 PICI/G	II	Y	YLBB1	

END OF REPORT

SAMPLE STATUS REPORT FOR E 2789. E-BLANK CO18H-D7 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:43 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:53

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD CHARGE ANS?	CHARGE CODE
****	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/B	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2790. E-BLANK C018H-DB TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:44 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:53

EXT.	DETER.	RESULTS OR STATUS	OUT OF GOOD RANGE?	CHARGE ANS?	CODE
***	*****	*****	***	***	*****
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2791. E-BLANK C018H-D9 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 8/92 11:45 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:53

EXT.	DETER.	RESULTS OR STATUS	OUT OF GOOD RANGE?	GOOD ANS?	CHARGE CODE
4271	TOT-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

SAMPLE STATUS REPORT FOR E 2792. E-BLANK CO18HD10 TIME: 5/12/92 9:43  
DISPATCHED: 5/ 6/92 11:45 SAMPLE HAS NOT BEEN SLURPED  
RECEIVED: 5/11/92 14:54

EXT.	DETER.	RESULTS OR STATUS	OUT OF RANGE?	GOOD ANS?	CHARGE CODE
***	*****	*****	***	***	*****
4271	TOY-ACT	< 5.00000E 01 PICI/G	N	Y	YLBB1

END OF REPORT

Date Received: <b>6-26-92</b>	<b>INFORMATION RELEASE REQUEST</b>	Reference: WHC-CM-3-4
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Complete for all Types of Release		
Purpose <input type="checkbox"/> Speech or Presentation <input type="checkbox"/> Full Paper (Check only one suffix) <input type="checkbox"/> Summary <input type="checkbox"/> Abstract <input type="checkbox"/> Visual Aid <input type="checkbox"/> Speakers Bureau <input type="checkbox"/> Poster Session <input type="checkbox"/> Videotape	<input type="checkbox"/> Reference <input checked="" type="checkbox"/> Technical Report <input type="checkbox"/> Thesis or Dissertation <input type="checkbox"/> Manual <input type="checkbox"/> Brochure/Flier <input type="checkbox"/> Software/Database <input type="checkbox"/> Controlled Document <input type="checkbox"/> Other	ID Number (include revision, volume, etc.) <b>WHC-SD-DD-TI-069 Rev. 0</b> <hr/> List attachments. <b>None</b> <hr/> Date Release Required

Title <b>Final Report for the C018-H Soil Analysis</b>	Unclassified Category <b>UC-</b>	Impact Level <b>4</b>
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New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).	Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)
---	---

Copyrights? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has written permission been granted? <input type="checkbox"/> No <input type="checkbox"/> Yes (Attach Permission)	Trademarks? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)
---	---

Complete for Speech or Presentation			
Title of Conference or Meeting <b>N/A</b>	Group or Society Sponsoring		
Date(s) of Conference or Meeting	City/State	Will proceedings be published? <input type="checkbox"/> Yes <input type="checkbox"/> No	Will material be handed out? <input type="checkbox"/> Yes <input type="checkbox"/> No
Title of Journal			

CHECKLIST FOR SIGNATORIES			
Review Required per WHC-CM-3-4	Yes	No	Reviewer - Signature Indicates Approval
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EDT No.: 156130

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