

Quanterra
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Richland, Washington 99352-1613

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CERTIFICATE OF ANALYSIS

Bechtel Hanford, Inc.
3350 George Washington Way
Richland, WA 99352

January 4, 2000

Attention: Joan Kessner

SAF Number : B00-011
Date SDG Closed : January 3, 2000
Number of Samples : Four (4)
Sample Type : Soil
SDG Number : W02984
Data Deliverable : Summary

RECEIVED
FEB 28 2000
EDMC

I. Introduction

Between December 20, 1999 and December 21, 1999, four soil samples were received at the Quanterra Richland Laboratory (QRL) for chemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Bechtel Hanford, Inc. (BHI) specific IDs:

<u>QESRL ID#</u>	<u>BHI ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
9D6MGC10	B0X4X4	SOIL	12/20/99
9D6MGG10	B0X4X5	SOIL	12/20/99
9D6MGJ10	B0X4X6	SOIL	12/20/99
9D6NWV10	B0X4X7	SOIL	12/21/99

II. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analysis was: **Chemical Analyses**
ICP Metals by EPA method 6010A

Bechtel Hanford, Inc.
January 5, 2000
Page 2

III. Quality Control

The analytical results for each analysis performed under SDG W02984 include a minimum of one Laboratory Control Sample (LCS), one method (reagent) blank, and one duplicate. Any exceptions have been noted in the "Comments" section.

Quality control sample results are reported in the same units as sample results with the exception of the chemical analysis which is reported in mg/L.

IV. Comments

Chemical Analyses

ICP Metals by EPA method 6010A

The requested metals were arsenic, barium, cadmium, chromium, lead, selenium and silver. The samples were analyzed under quick-turn protocol and include LCS/LCSD in place of MS/MSD analyses. The prep blank, LCS, LCSD and sample results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee as verified by the following signature.

Reviewed and approved:



Jackie Waddell
Project Manager

ICAP METAL SAMPLE AND QC SAMPLE DATA REPORT

BATCH # : 9355237

Digestion Date: 12/20/99

Analytical Date: 12/21/99

Matrix: SOIL

Sample Lab. ID	Client ID	units	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver
	MDL	mg/kg	5	0.2	0.2	0.5	2	5	0.5
Prep Blank	Prep Blank	mg/L	-0.0114	-0.0005	0.0008	-0.0004	-0.0038	-.0078	0.0012
LCS	LCS	mg/L	1.903	1.910	0.0503	0.1973	0.4973	1.869	0.0337
		% Rec.	95.2%	95.5%	100.6%	98.7%	99.5%	93.5%	96.3%
LCSD	LCSD	mg/L	1.895	1.9	0.051	0.198	0.4833	1.882	0.0346
		%Rec.	94.8%	95.2%	101.4%	98.9%	96.7%	94.1%	98.9%
D6MGC101	B0X4X4	mg/kg	<5	68.6	0.21	5.6	6.3	<5	<0.5
D6MGG101	B0X4X5	mg/kg	<5	59.2	<0.2	7.6	6.1	<5	<0.5
D6MGQ101	B0X583	mg/kg	5.5	293.4	0.47	5.9	12.1	<5	15.5

12/21/99

mg/kg = ug/L *final volume in liters / weight of sample in grams

ICAP METAL SAMPLE AND QC SAMPLE DATA REPORT

BATCH # : 9355241

Digestion Date: 12/21/99

Analytical Date: 12/21/99

Matrix: SOIL

Sample Lab. ID	Client ID	units	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver
	MDL	mg/kg	5	0.2	0.2	0.5	2	5	0.5
D6MLNB	Prep Blank	mg/L	-0.0343	0.0020	0.0036	0.0084	0.0151	0.0068	0.0000
D6MLNC	LCS	mg/L	2.047	2.038	0.0576	0.2174	0.5262	2.024	0.0362
		% Rec.	102.4%	101.9%	115.2%	108.7%	105.2%	101.2%	103.4%
D6MLNL	LCSD	mg/L	1.941	1.9	0.056	0.206	0.5104	1.975	0.0344
		% Rec.	97.1%	97.0%	112.0%	103.2%	102.1%	98.8%	98.3%
D6MGP101	B0X4X6	mg/kg	6.0	73.5	0.38	5.1	7.8	<5	<0.5

mg/kg = ug/L * final volume in liters / weight of sample in grams

12/21/99


ICAP METAL SAMPLE AND QC SAMPLE DATA REPORT

BATCH # : 9356145

Digestion Date: 12/22/99

Analytical Date: 12/22/99

Matrix: SOIL

Sample Lab. ID	Client ID	units	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver
	MDL	mg/kg	5	0.2	0.2	0.5	2	5	0.5
D6PAXB	Prep Blank	mg/L	-0.0028	0.0006	-0.0002	0.0005	-0.0027	0.0159	-0.0004
D6PAXC	LCS	mg/L	1.773	1.940	0.0519	0.2004	0.4492	1.754	0.0473
		% Rec.	88.7%	97.0%	103.8%	100.2%	89.8%	87.7%	94.6%
D6PAXL	LCSD	mg/L	1.77	1.9	0.052	0.200	0.4622	1.788	0.0471
		%Rec.	88.5%	97.4%	104.2%	99.9%	92.4%	89.4%	94.2%
D6NWW	B0X4X7	mg/kg	<5	61.9	<0.2	5.1	4.6	<5	<0.5

3
12/22/99

mg/kg = ug/L * final volume in liters / weight of sample in grams



Richland Laboratory
Data Review Check List
METALS

Work Order Number(s): <i>DLMGC, DLMGG, DLMGQ Batch 9355237 Lot J9L210110</i>				
Lab Sample Numbers or SDG: <i>WO2984 & WO2985</i>				
Method/Test/Parameter: <i>ICP Metals (7) in soil</i>				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			
2. Correlation coefficient within QC limits?	✓			
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within QC limits?	✓			
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?		✓		
2. Were all sample holding times met?	✓			
D. QC Samples				
1. All results for the preparation blank below limits?	✓			
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?			✓	
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			
4. Analytical spikes within QC limits where applicable?			✓	
5. ICP only: One serial dilution performed per SDG?	✓			
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?	✓			

(R) 2/1/09

Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
E. Other				
1. Are all nonconformances included and noted?			✓	
2. Is the correct date and time of analysis shown?	✓			
3. Did the analyst sign and date the front page of the analytical run?	✓			
4. Correct methodology used?	✓			
5. Transcriptions checked?	✓			
6. Calculations checked at minimum frequency?	✓			
7. Units checked?	✓			

Comments on any "No" response:

Note - quick turn samples do not have MS, MSD's or
sample duplicates but have LCS & LCS.D.

Analyst: Roxie Ross

Date: 12/21/99

Second-Level Review: Jacqui Waddell

Date: 1/4/00



Richland Laboratory
Data Review Check List
METALS

Work Order Number(s): <i>D6MGC. Batch 935524/ Lot J9L210110</i>				
Lab Sample Numbers or SDG: <i>WO 2984</i>				
Method/Test/Parameter: <i>ICP Metals (7) in SOIL</i>				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			
2. Correlation coefficient within QC limits?	✓			
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters \leq reporting limit?	✓			
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within QC limits?	✓			
2. CCB analyzed at required frequency and all results \leq reporting limit?	✓			
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?			✓	
2. Were all sample holding times met?	✓			
D. QC Samples				
1. All results for the preparation blank below limits?	✓			
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?			✓	
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			
4. Analytical spikes within QC limits where applicable?			✓	
5. ICP only: One serial dilution performed per SDG?	✓			
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?	✓			

Ra 12/21/99

Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
E. Other				
1. Are all nonconformances included and noted?			✓	
2. Is the correct date and time of analysis shown?	✓			
3. Did the analyst sign and date the front page of the analytical run?	✓			
4. Correct methodology used?	✓			
5. Transcriptions checked?	✓			
6. Calculations checked at minimum frequency?	✓			
7. Units checked?	✓			

Comments on any "No" response:

Quick turn samples require LCS/LCSD 710 MS/MSD or
 sample duplicate.

Analyst: Roxie Ross

Date: 12/21/99

Second-Level Review: Jackie Waddell

Date: 1/4/00



Richland Laboratory
Data Review Check List
METALS

Work Order Number(s): DLNWV Batch 9356145 Lot J9L210221				
Lab Sample Numbers or SDG: WO2984				
Method/Test/Parameter: ICP Metals (7) in soil CORP-RICH-TP0002 R.O BHI-MT-0001 R.1				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			
2. Correlation coefficient within QC limits?	✓			
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within QC limits?	✓			
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?			✓	
2. Were all sample holding times met?	✓			
D. QC Samples				
1. All results for the preparation blank below limits?	✓			
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?			✓	
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			
4. Analytical spikes within QC limits where applicable?			✓	
5. ICP only: One serial dilution performed per SDG?	✓			
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?	✓			

(B) 12/22/99

Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
E. Other				
1. Are all nonconformances included and noted?			✓	
2. Is the correct date and time of analysis shown?	✓			
3. Did the analyst sign and date the front page of the analytical run?	✓			
4. Correct methodology used?	✓			
5. Transcriptions checked?	✓			
6. Calculations checked at minimum frequency?	✓			
7. Units checked?	✓			

Comments on any "No" response:

Note: Quick turn sample do not require ms/msD or sample duplicate, LCS/LCSD is green.

Results for Cd, Cr, Ag, Ba are from first run, As, Pb, Se results are from second run. This is due to CV3 not verifying the first time which could affect As, Pb, Se values.

Analyst: Roxie Ross

Date: 12/22/99

Second-Level Review: Jackie Waddell

Date: 1/4/00

CHAIN OF CUSTODY

Bechtel Hanford Inc. **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** **B00-011-02** **Page 1 of 1**

Collector: Doug Bowers
 Project Designation: 300-FF-1 Landfill 1B Cleanup
 Ice Chest No. 12-20-99 ERC 99-003
 Shipped To: Quanterra Incorporated

Company Contact: Jeff Learch
 Telephone No.: 373-5904
 Project Coordinator: TRENT, SJ
 Price Code: 24 HR
 Air Quality:

Sampling Location: 300 FF-1 land fill 1B
 Field Logbook No.: EL 1395-2
 Method of Shipment: Gov Vehicle
 Bill of Lading/Air Bill No.: N/A

Field COA: R.M.D.F.I.D. 2000

Matrix *	Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Cool 4C	See item (1) in Special Instructions.
	Box 4X4	Soil	12-17-99	1435		aG	X
	Box 4X5	Soil	12-17-99	1440		1	X
						60mL	

SAMPLE ANALYSIS
SDC
W02984
09L210110

Special Handling and/or Storage

CHAIN OF POSSESSION

Relinquished By	Date/Time	Received By	Date/Time
Doug Bowers	12-17-99/1445	R. J. A.	12-17-99/1445
R. J. A.	12-20-99/10730	R. J. A.	12-20-99/10730
R. J. A.	12-20-99/10840	R. J. A.	12-20-99/10840
R. J. A.	12-20-99/10840	R. J. A.	12-20-99/10840

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SPECIAL INSTRUCTIONS
 ** Friability shall be described in the WSCF case narrative.
 ** COC Note- The ERC Contractor acknowledges the 48-hour holding time for nitrate, nitrite, and phosphate is not likely achievable.
 (1) ICP Metals-6010A (As), 6010B (Cd), 6010C (Cr), 6010D (Cu), 6010E (Fe), 6010F (Mn), 6010G (Ni), 6010H (Pb), 6010I (Zn), 6010J (Se), 6010K (V), 6010L (W), 6010M (Y), 6010N (Zr), 6010O (Mo), 6010P (Sb), 6010Q (Te), 6010R (Bi), 6010S (Po), 6010T (At), 6010U (Rn), 6010V (Fr), 6010W (Ac), 6010X (Th), 6010Y (Pa), 6010Z (U)

Handwritten notes:
 Metal List per SAF
 12/20/99

LABORATORY SECTION Received By: _____ Date/Time: _____ Title: _____

FINAL SAMPLE DISPOSITION Disposed By: _____ Date/Time: _____

SHI-EE-011 (10/99)

Figure 1

SAMPLE CHECK-IN LIST

Date/Time Received: 12-20 0840 SG#: W02984
Work Order Number: U9L210110 SAF #: B00-013 B00-010
Shipping Container ID: 99-003 Chain of Custody # B00-013-52 B00-010-02
B00-011-02

- 1. Custody Seals on shipping container intact? Yes No
- 2. Custody Seals dated and signed? Yes No
- 3. Chain-of-Custody record present? Yes No
- 4. Cooler temperature on ice
- 5. Vermiculite/packing materials is Wet Dry
- 6. Number of samples in shipping container: 9
- 7. Sample holding times exceeded? Yes No

8. Samples have:
 tape hazard labels
 custody seals appropriate sample labels

9. Samples are:
 in good condition leaking
 broken have air bubbles

- 10. Where any anomalies identified in sample receipt? Yes No
- 11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: Stadelberg Date: 12-20-99
Telephoned To: _____ On _____ By _____

Figure 1

SAMPLE CHECK-IN LIST

Date/Time Received: 12/20/99 15: SG#: W02984
Work Order Number: J9L210110 SAF #: B00-011
Shipping Container ID: ERC-96-082 Chain of Custody #: B00-011-02

- 1. Custody Seals on shipping container intact? Yes No
- 2. Custody Seals dated and signed? Yes No
- 3. Chain-of-Custody record present? Yes No
- 4. Cooler temperature 4°
- 5. Vermiculite/packing materials is Wet Dry
- 6. Number of samples in shipping container: 1
- 7. Sample holding times exceeded? Yes No

8. Samples have:
 tape hazard labels
 custody seals appropriate sample labels

9. Samples are:
 in good condition leaking
 broken have air bubbles

- 10. Where any anomalies identified in sample receipt? Yes No
- 11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: [Signature] Date: 12/20/99 15:
Telephoned To: _____ On _____ By _____

ERC RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm ²)				Total (dpm/100 cm ²)			
		α	α C-F	β - γ	β - γ C-F	α	α C-F	β - γ	β - γ C-F
-	TCE chest inside	n/A	→	21K	6.3	n/A	→	25K	6.3
-	TCE chest outside	n/A	→	21K	6.3	n/A	→	25K	6.3
-	outside Jar	n/A	→	21K	6.3	n/A	→	25K	6.3
-	Inside Jar	n/A	→	n/A	→	n/A	→	25K	6.3
-	Inside Suburban	n/A	→	21K	6.3	n/A	→	25K	6.3
COPY ~ A									

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

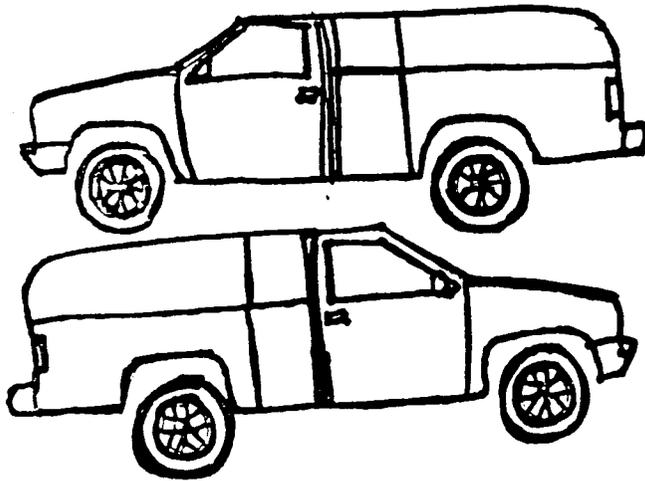
Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
outside TCE chest	20.5	20.5	20.5	20.5
		n/A		
		A		

Additional Information

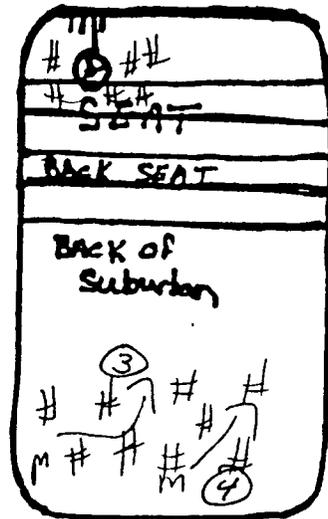
(Drawing, Map, Etc.)

* PACKAGES WERE SHIPPED FROM 1B IN THIS VEHICLE

COPY



LIC # G63 19584
Green Suburban

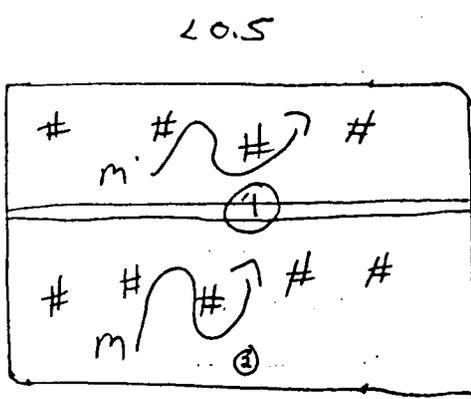


ERC RADIOLOGICAL SURVEY RECORD

Type of Survey (check one only) <input type="checkbox"/> *Release <input type="checkbox"/> Routine <input checked="" type="checkbox"/> <u>n/A</u> <input type="checkbox"/> Work Progress <input checked="" type="checkbox"/> Shipment * The potential for internal contamination was evaluated.	Survey # RSR - <u>FF1/2-99-1984</u>
---	--

RWP # / Rev. # <u>FF1/2-010/Rev 0</u>	Date <u>12-21-99</u>	Time <u>1520</u>	Location Code/Description <u>FF1/1B</u>
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COPY



ERC-96-082
small Ice chest



All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated. Technical Assessment # TA-97-SB-31

CA	Contamination Area	HCA	High Contamination Area	RBA	Radiological Buffer Area	ARA	Airborne Radioactivity Area	RMA	Radioactive Materials Area	RA	Radiation Area	HRA	High Radiation Area	VHRA	Very High Radiation Area	
<input type="checkbox"/>	Technical Smear	#	Direct	M	Large Area Wipe	Contact 30 cm	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)			Micro Rem (μ R/hr)	N	Neutrons (mRem/hr)	[AS]	Air Sample Location	SCA	Soil Contamination Area

Instruments

Model	Serial #	Source \checkmark (Initial)	CF	Cal Due Date	Model	Serial #	Source \checkmark (Initial)	CF	Cal Due Date
<u>E600</u>	<u>1247</u>	<u>CAH</u>	<u>9.1a</u>	<u>9.10.00</u>	<u>2929</u>	<u>143881</u>	<u>CAH</u>	<u>n/A</u>	<u>11/10/00</u>
<u>380AR</u>	<u>1003</u>	<u>CAH</u>	<u>6.3Bx</u>	<u>10-25-00</u>	<u>2929 Probe</u>	<u>88099105</u>	<u>CAH</u>	<u>2.9a</u>	<u>11/10/00</u>
<u>RO²⁰</u>	<u>1300</u>	<u>CAH</u>	<u>1</u>	<u>6.14.00</u>				<u>3.2Bx</u>	<u>11/10/00</u>

RCT Name/Signature/Date: <u>Annette L. Howell / Bonnie L. Howell 12-21-99</u>	RCT Supervisor Name/Signature/Date: <u>Ronald W. Wardlow 12-21-99</u>
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0023

ERC RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm ²)				Total (dpm/100 cm ²)			
		α	α C-F	β - γ	β - γ C-F	α	α C-F	β - γ	β - γ C-F
-	Ice chest inside	n/A	n/A	L+K	6.3	n/A	n/A	L+K	6.3
-	Ice chest outside	↓	↓	↓	↓	↓	↓	↓	↓
-	Jar outside	↓	↓	↓	↓	↓	↓	↓	↓
-	Jar Inside	↓	↓	↓	↓	↓	↓	↓	↓
-	Suburban	↓	↓	↓	↓	↓	↓	↓	↓

COPY

Corrected Dose Rate Calculations

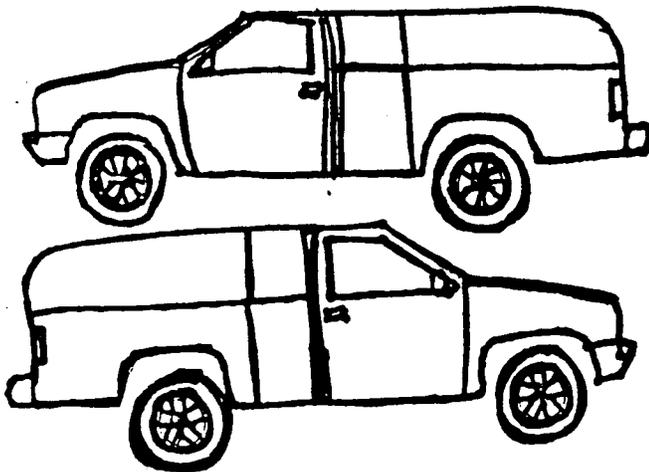
Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
Ice chest	20.5	20.5	20.5	20.5

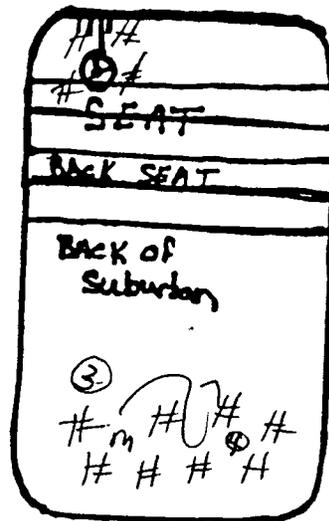
Additional Information
(Drawing, Map, Etc.)

1984

* PACKAGES WERE SHIPPED FROM 1B IN THIS VEHICLE



LIC # G63 19584
Green Suburban



COPY

ERC RADIOLOGICAL SURVEY RECORD (continuation)
Smear Counting Results

Survey #RSR- FF 1/2-99-1984

Counter Location: FF1	Background (cpm)		MDCR (cpm)	MDA (dpm)	Counter Eff.
	α	0.9	5.91	17	344
	βγ	56	27.96	90	31

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min)	Gross CPM	Net CPM	Removable (dpm/100 cm ²)
1	Ice chest	α	1	1	(< MDCR)	(< 20)
		βγ	1	49		
2	Ice chest	α	1	1	↓	↓
		βγ	1	46		
3	Suburban	α	1	0	↓	↓
		βγ	1	38		
4	Suburban	α	1	1	↓	↓
		βγ	1	40		
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				

COPY

Figure 1

SAMPLE CHECK-IN LIST

Date/Time Received: 12-21-1516 SG#: _____

Work Order Number: _____ SAF #: B00-011

Shipping Container ID: Yha Chain of Custody #: B00-011-02

- 1. Custody Seals on shipping container intact? Yes No
- 2. Custody Seals dated and signed? Yes No
- 3. Chain-of-Custody record present? Yes No
- 4. Cooler temperature 4°C
- 5. Vermiculite/packing materials is Wet Dry
- 6. Number of samples in shipping container: 1
- 7. Sample holding times exceeded? Yes No

8. Samples have:
 tape hazard labels
 custody seals appropriate sample labels

9. Samples are:
 in good condition leaking
 broken have air bubbles

10. Where any anomalies identified in sample receipt? Yes No

11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: Widdelberg Date: 12-21-99

Telephoned To: _____ On _____ By _____

COC Signature Page

Lot or Batch #:	9355237	Initials/Date	Procedure #
Released By		JA 12-20-99	[Signature]
Received		(R) 12-20-99	CORP-RICH-IP-0002 R.O OHI-MT-0001 R.1
Released By		(R) 12-21-99	n/a
Received			
Released By			n/a
Received			
Released By			n/a
Received			
Released By			n/a
Received			
Released By			n/a
Received			
Released By			n/a
Received			

COC Signature Page

Lot or Batch #:	9355241	Initials/Date	Procedure #
Released By	<i>[Signature]</i>	<i>12/21/99</i>	<i>RC0007</i>
Received	<i>(R)</i>	<i>12/21/99</i>	<i>CORP-RICH-1P0002 R.O</i> <i>MF BHI MT 0001 R.1</i>
Released By	<i>(R)</i>	<i>12/21/99</i>	<i>(R) 12/21/99</i> n/a
Received			
Released By			n/a
Received			
Released By			n/a
Received			
Released By			n/a
Received			
Released By			n/a
Received			
Released By			n/a
Received			

COC Signature Page

Lot or Batch #:	Initials/Date	Procedure #
9396145		
Released By	<i>[Signature]</i>	<i>[Signature]</i>
Received	<i>(B)</i> 12-22-99	CORP-RICH-1P0002 R.O BHI-MT-0001 R.1
Released By	<i>(B)</i> 12-22-99	n/a
Received		
Released By		n/a
Received		
Released By		n/a
Received		
Released By		n/a
Received		
Released By		n/a
Received		
Released By		n/a
Received		