

START 9613428.0586

3642-SCU-130
0043950

SDG Memo/Sample Summary

Client Name: WESTINGHOUSE HANFORD CO. Date: 21 May 1993
Project Name: 93-116 Update No.:
SDG No.: 3642 Work Order No.: 32468-08
Project Manager: J. DEWALD
Mail Date:

Client Samp No.	S-Cubed Samp No.	Date Rcvd	Date Samp	Matrix	FURN7000	HG7000	ICP6010	OCPS080					
93116-01.E5	3642-01	6-7-1993	6-5-1993	NSS	X	X	X	X					
93116-01.E5DL2	3642-01DL2	6-7-1993		NSS				(X)					
93116-01.E5MS	3642-01MS	6-7-1993	6-5-1993	NSS	X	X	X	X					
93116-01.E5MSD	3642-01MSD	6-7-1993	6-5-1993	NSS				X					
93116-01.E5REP	3642-01REP	6-7-1993	6-5-1993	NSS	X	X	X						

(X) = Non-Billable Sample



Contractor Westinghouse Hanford	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT) W93-0-04103 #36
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PART I - TO BE COMPLETED BY ORIGINATOR

Department Processing and Analytical Laboratory	Section Sampling and Special Analytical Services	Unit Sampling and Mobile Labs
The following items are to be shipped from: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Vendor		
Routing: Burlington Air Express <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Vendor		
Shipped to S-Cubed 3398 Carmel Mt. Road San Diego, CA 92121-1095	Off-site Custodian John Dewald	
Full Title:		

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1	Polycooler, Samples packed on wet ice Samples 93116-01 and 93117-01	
WT. 9	Polycooler # <u>Self-insulated</u> <u>Unact. Cox</u>	

Classified Unclassified Shipped Under DOE Contract Shipped Under Contractor's Use Permit Contract

Necessity for the Off-Site Use of this Property

Samples require analysis not presently available at this site.

C of C # 004321
SAF # 93-116 and 93-117

Bill of Lading # 970 891 950

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO SHIPPING.

RM Clearance for Public Release <i>[Signature]</i>	RM Survey No. 725177	Date 5/6/93
Location of Property (Area & Bldg.) 222-B/2004	Contact C. D. Hayes	Phone 373-2891
Date Ready for Shipment 5/6/93	Cost Code to be Charged 12910	Approximate Date This Property will be Returned
Originated By S. H. Steele	Date 5/6/93	Authorized By J. B. Hyatt
Signature and Name of Property Control	Custodian Date	Property Management Approval <i>[Signature]</i>
		Date 5/6/93

PART II - TO BE COMPLETED BY SHIPPING

Signature of Recipient <i>[Signature]</i>	Return Order No.	Date Issued	Purchase Order No.	Date Issued
Date 5/6/93				

DISTRIBUTION

By Originator: White - Green, Yellow, Pink - Property Management

Shipping Operation - Sign all Copies and Forward to: White - Property Management Green - Property Control Custodian (Using) Yellow - Retain Pink - Originator

001001

BURLINGTON AIR EXPRESS

COMMERCIAL AIRWAY GROUP
18210 VAN KAMMAN AVE
IRVINE, CA 92715

970 891 950

C.O.D.

DATE 05-06-93	ORIGIN PSC	DEST. SORT CODE
SHIPPER'S REFERENCE NO. W12910 PE52U W93-0-04-3038		SHIPPER'S ACCOUNT NO. 3811
COMPANY WESTINGHOUSE HANFORD	DEPT./FLOOR 036	PHONE NO.
FROM (YOUR NAME) WESTINGHOUSE SHIPPING DEPT. (509) 376-6655		
STREET ADDRESS 2355 STEVENS DR		
CITY RICHLAND	STATE WA	ZIP (REQUIRED)

CONSIGNEE'S REFERENCE NO.	CONSIGNEE'S ACCOUNT NO.
COMPANY S-CURED	DEPT./FLOOR
TO (CONSIGNEE NAME) S-CURED JOHN HEVALD	
ACCURATE STREET ADDRESS (BURLINGTON CANNOT DELIVER TO A P.O. BOX) 3398 CARROLL CARMEL MT. ROAD	
CITY SAN DIEGO	STATE CA
	ZIP (REQUIRED) 92121

CONSIGNEE'S CHECK OK MARK IF APPLICABLE
DECLARED VALUE \$
LIMIT OF LIABILITY LIABILITY IS AGREED AND UNDERSTOOD TO BE \$50 OR \$50 PER POUND, WHICHEVER IS GREATER, UNLESS A HIGHER VALUE IS DECLARED AND APPLICABLE CHARGES PAID. SEE REVERSE SIDE OF AIRBILL, PARAGRAPH 9, FOR DECLARED VALUE LIMITATIONS.
1-800-CALL-BAX FOR INFORMATION OR THE BAX OFFICE NEAREST YOU

BILLING INFORMATION	
<input checked="" type="checkbox"/> PREPAID (SHIPPER)	\$ _____ CASH RECEIVED (PAID BY ADVANCE)
<input type="checkbox"/> COLLECT (CONSIGNEE)	
<input type="checkbox"/> 3RD PARTY (ACCT. NO. OR BILLING ADDRESS REQ'D)	
ACCOUNT NO.	
COMPANY/NAME	
STREET ADDRESS	
CITY	STATE ZIP

SERVICE REQUESTED
<input checked="" type="checkbox"/> OVERNIGHT (NO. 11 PROGRAMS ONLY)
<input type="checkbox"/> SECOND DAY
<input type="checkbox"/> NEXT FLIGHT OUT
<input type="checkbox"/>
CHECK BELOW IF PACKAGE IS
<input type="checkbox"/> LETTER
<input type="checkbox"/> G.O.H. (GARMENT ON HANGER)

HANDLING INFORMATION (*SPECIAL RATE MAY APPLY)					
<input type="checkbox"/> HOLD AT BAX	<input type="checkbox"/> DANGEROUS GOODS	<input type="checkbox"/> SATURDAY DELIVERY	<input type="checkbox"/> SPECIAL DELIVERY	<input type="checkbox"/> CONVENTION	<input type="checkbox"/> GOVERNMENT SHIPMENT
SPECIAL INSTRUCTIONS / ADDITIONAL REFERENCE INFORMATION: SAMPLES					
NO. OF PCS 1	WEIGHT 9	LENGTH	WIDTH	HEIGHT	DESCRIPTION COOLER RED& WHITE LUNCH BOX
TOTAL PCS 1	TOTAL WT. 9	RATE QUOTE NUMBER		SKID(S) SAID TO CONTAIN _____ NO. OF PIECES	
SIGNATURE OF SHIPPER X [Signature]			RECEIVED BY BAX AT <input checked="" type="checkbox"/> SHIPPER'S DOOR <input type="checkbox"/> BAX TERMINAL		OUTSIDE CARRIER: CHARGES ADVANCED
RELEASE SIGNATURE X [Signature]			TIME/DATE OF PICK-UP 5-6-93		\$ PRO NUMBER
			DRIVER NO.		CARRIER NAME

970 891 950

AIRBILL NUMBER

OP 100 (11-92)

CONSIGNEE COPY

9613428.0590



NARRATIVE

May 21, 1993

Narrative Project: 93-116
Reference No.: 32468-08
Client: WHC
SDG No.: 3642

ORGANOCHLORINE PESTICIDE/PCBs

One nonsoil solid sample was analyzed for pesticides and PCB by SW-846 Method 8080. One gram of soil was extracted by medium level techniques. The sample was analyzed 1:1, 1:10 and 1:100. The 1:1 analysis was unreportable due to the extreme Aroclor contamination in the sample. The data for the 1:10 analysis is outside of the calibration range, thus the 1:100 dilution should be used for decision making. The reported hits all single component pesticide (except endrin) should be considered a false positive due to the disparate values found on the two columns.

Surrogate recoveries were within the QC limits for the blank and LCS and the 1:10 analysis. Matrix samples were analyzed without dilution thus the interferences precluded useful surrogate recovery measurements. The surrogates in the 1:100 analysis were generally diluted out.

LCS recoveries were excellent indicating the analytical system was in control. The matrix analysis was unsuccessful due to the high contamination in the sample. All calibration data are compliant. The samples were extracted and analyzed within holding times. The blank was clean.

A handwritten signature in black ink, appearing to read 'John DeWald', is written over a horizontal line.

John DeWald
Project Manager

enclosures

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1D
PESTICIDE NONSOIL SOLID ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93116-01.E5

Lab Name: S-CUBED Contract: 32468-08
 Lab Code: S3 Case No.: 93-116 SAS No.: SDG No.: 3642
 Matrix: (soil/water) NSS Lab Sample ID: 3642-01
 Sample wt/vol: 1 (g/ml) G Lab File ID: R0511-9DB608038
 %Moisture: 0.00 decanted: (Y/N) N Date Received: 05/07/93
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/10/93
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/13/93
 Injection Volume: 1.00 (uL) Dilution Factor: 10.00
 GPC Cleanup: (Y/N) Y pH: 0.00 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO. COMPOUND Q

319-84-6	alpha-BHC	510	U
319-85-7	beta-BHC	510	U
319-86-8	delta-BHC	510	U
58-89-9	gamma-BHC (Lindane)	510	U
76-44-8	Heptachlor	510	U
309-00-2	Aldrin	510	U-
1024-57-3	Heptachlor epoxide	510	U
959-98-8	Endosulfan I	510	U
60-57-1	Dieldrin	84300	P =
72-55-9	4,4'-DDE	990	U
72-20-8	Endrin	132000	E
33213-65-9	Endosulfan II	61500	P
72-54-8	4,4'-DDD	10500	P
1031-07-8	Endosulfan sulfate	2720	P
50-29-3	4,4'-DDT	990	U
72-43-5	Methoxychlor	5100	U
53494-70-5	Endrin ketone	37800	P
7421-36-3	Endrin Aldehyde	25300	P
5103-71-9	alpha-Chlordane	56400	P
5103-74-2	gamma-Chlordane	510	U
8001-35-2	Toxaphene	51000	U
12674-11-2	Aroclor-1016	9900	U
11104-28-2	Aroclor-1221	20100	U
11141-16-5	Aroclor-1232	9900	U
53469-21-9	Aroclor-1242	9900	U
12672-29-6	Aroclor-1248	9900	U
11097-69-1	Aroclor-1254	1460000	E
11096-82-5	Aroclor-1260	9900	U
57-74-9	technical Chlordane	9900	U

1D
 PESTICIDE NONSOIL SOLID ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93116-01.ESDL2

Lab Name: S-CUBED Contract: 32468-08
 Lab Code: S3 Case No.: 93-116 SAS No.: SDG No.: 3642
 Matrix: (soil/water) NSS Lab Sample ID: 3642-01DL2
 Sample wt/vol: 1 (g/ml) G Lab File ID: R0511-9DB608037
 %Moisture: 0.00 decanted: (Y/N) N Date Received: 05/07/93
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/10/93
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/13/93
 Injection Volume: 1.00 (uL) Dilution Factor: 100.00
 GPC Cleanup: (Y/N) Y pH: 0.00 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/kg Q

319-84-6	alpha-BHC	5100	U
319-85-7	beta-BHC	5100	U
319-86-8	delta-BHC	5100	U
58-89-9	gamma-BHC (Lindane)	5100	U
76-44-8	Heptachlor	5100	U
309-00-2	Aldrin	5100	U
1024-57-3	Heptachlor epoxide	5100	U
959-98-8	Endosulfan I	5100	U
60-57-1	Dieldrin	184000	P
72-55-9	4,4'-DDE	9900	U
72-20-8	Endrin	249000	U
33213-65-9	Endosulfan II	67500	P
72-54-8	4,4'-DDD	12600	P
1031-07-8	Endosulfan sulfate	9900	U
50-29-3	4,4'-DDT	9900	U
72-43-5	Methoxychlor	51000	U
53494-70-5	Endrin ketone	41000	P
7421-36-3	Endrin Aldehyde	28200	P
5103-71-9	alpha-Chlordane	5100	U
5103-74-2	gamma-Chlordane	5100	U
8001-35-2	Toxaphene	510000	U
12674-11-2	Aroclor-1016	99000	U
11104-28-2	Aroclor-1221	201000	U
11141-16-5	Aroclor-1232	99000	U
53469-21-9	Aroclor-1242	99000	U
12672-29-6	Aroclor-1248	99000	U
11097-69-1	Aroclor-1254	3480000	U
11096-82-5	Aroclor-1260	99000	U
57-74-9	technical Chlordane	99000	U



NARRATIVE

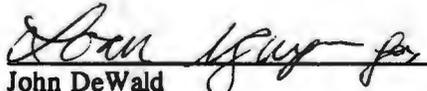
May 25, 1993

Narrative Project: 93-116
Reference No.: 32468-08
Client: WHC
SDG No.: 3642

METALS

The samples were analyzed according to EPA Method 6010 and 7000 for the CLP metals list. No dilutions were required for analysis. Pb was reported from ICP due to high levels over five times ICP IDL. Analytes of interest were detected in the sample.

The quality control results were acceptable. Calibration data was acceptable. MS recovery for Sb, As and Hg were low, and high for Se. MS recovery for Fe was insignificant, because the levels was less than four times of the sample results. %RPD recovery was within the control limits. Prep blanks was acceptable. All soil LCS recoveries was within advisory ranges.


John DeWald
Project Manager

enclosures

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Handwritten initials and date:
11/11/93

9613428.0595

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3642-01

Lab Name: S_CUBED Contract: 32468-08

Lab Code: S3 Case No.: 93-11 SAS No.: SDG No.: 3642

Matrix (soil/water): SOIL Lab Sample ID: 3642-01

Level (low/med): LOW Date Received: 05/07/93

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5540	-		P
7440-36-0	Antimony	11.2	U		P
7440-38-2	Arsenic	0.96	B		F
7440-39-3	Barium	48.6			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	12.0			P
7440-70-2	Calcium	3260			P
7440-47-3	Chromium	15.6			P
7440-48-4	Cobalt	5.6	B		P
7440-50-8	Copper	11.2			P
7439-89-6	Iron	14500			P
7439-92-1	Lead	116			P
7439-95-4	Magnesium	2780			P
7439-96-5	Manganese	202			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	7.2	B		P
7440-09-7	Potassium	1360			P
7782-49-2	Selenium	0.36	U		F
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	602			P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	28.6			P
7440-66-6	Zinc	42.8			P

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

93116-01.E5