WESTON Analytics Use Only
91061962.

Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS CONSULTANTS

Page 1 of 1

Client: Westinghouse Hanford.
Est. Final Proj. Sampling Date:
Work Order #: 6168-02-01
Project Contact/Phone #:
AD Project Manager: Josie King
QC: CLP Del: CLP TAT: ~~30 day~~ 10 day
Date Rec'd: 6/4/91 ~~6/22/91~~ Date Due: 6/20/91
Account #: WS-Hanford.

Refrigerator #		1	6															
#/Type Container	Liquid	1/G	1/G															
	Solid																	
Volume	Liquid	40	950															
	Solid																	
Preservatives		none	HNO3															
ANALYSES REQUESTED →		ORGANIC										INORG						
		VOA	BNA	Pest/PCB	Herb							Metal	CN					
		06244	06254															

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓)	Matrix	Date Collected	VOA	BNA	Pest/PCB	Herb					Metal	CN				
	~~TFCB-0604-1A,B,C,D.~~												Rec'd 6/24/91					
	~~TFCB-0604-~~												Rec'd 6/24/91					
001	ZIC-603-2A,B		W	6/3/91	✓				Relogged from 91061809-001									
002	ZIC-603-3		+	6/4/91		✓								✓	✓	-002		

Special Instructions:

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
[illegible]	[illegible]	6/4/91	4:00 pm
	[illegible]	6/24/91	

Relinquished by	Received by	Date	Time
	[illegible]	6/24/91	

RFW 21-21-001/A-8/90 L372 L373 L375 L377 L378 Ref# Cooler# 381 596a

START 9/30/91 0004568
JUN 1996 RECEIVED EDMC
BEST AVAILABLE COPY
91061962-WES-100 142
0000002

9613451.1589 0000005

Westinhouse Hanford Company	CHAIN OF CUSTODY F-19

Company Contact CRAIG SWANSON H4-56 Telephone 376-1438

Sample Collected by J.G. HOGAN Date 6-3, 6-4-91 Time 1100, 0900

Sample Locations Z1A-TILE FIELD CONDENSATE & CHARCOAL FILTERS.

Ice Chest No. Field Logbook and Page No. WHC-N-205, 14 pg. 36-37

Remarks SAF # 52 WORK DONE TO PROCESS CONTROL PROTOCOL

Bill of Lading No. Offsite Property No.

Method of Shipment DOUBLE-BAGGED, PACKED ON WET ICE AND VERMICULITE IN POLYCOOLER.

Shipped to WESTON LAB, LIONVILLE, PA.

Sample Identification

Z1C-603-2 A&B	(2) 40ml	VOA
Z1C-603-3	1000ml	SEMI-VOA
TFCB-0604-1 A&B	(2) 40ml	VOA
TFCB-0604-1, C	60ml	SEMI-VOA
TFCB-0604-1 D	500ml	GROSS ALPHA, BETA
		GAMMA ENERGY ANALYSIS
TFCB-0604-2 A&B	(2) 40ml	VOA
TFCB-0604-2 C	60ml	SEMI-VOA
TFCB-0604-2 D	500ml	GROSS ALPHA, BETA
		GAMMA ENERGY ANALYSIS

Chain of Possession

Relinquised by:	Received by:	Date/Time:
JAMES G. HOGAN James G Hogan	M.D. Campbell	6-4-91 0930
M.D. Campbell		
Emery	Brian C. Shaffer	6/6/91 4:00pm

Cust ID: Z1C-603-2A,B Z1C-603-2A,B VBLK

Sample Information							
	RFW#:	001		001 DL		91LVK102-MB1	
	Matrix:	WATER		WATER		WATER	
	D.F.:	1.00		5.00		1.00	
	Units:	ug/L		ug/L		ug/L	
	Toluene-d8	97	%	99	%	96	%
Surrogate	Bromofluorobenzene	98	%	99	%	93	%
Recovery	1,2-Dichloroethane-d4	101	%	114	%	107	%
			fl		fl		fl
Chloromethane		41		NA		10	U
Bromomethane		10	U	NA		10	U
Vinyl Chloride		10	U	NA		10	U
Chloroethane		10	U	NA		10	U
Methylene Chloride			E	630	B	14	
Acetone		200	B	NA		23	
Carbon Disulfide		5	U	NA		5	U
1,1-Dichloroethene		5	U	NA		5	U
1,1-Dichloroethane		5	U	NA		5	U
1,2-Dichloroethene (total)		5	U	NA		5	U
Chloroform		190		NA		5	U
1,2-Dichloroethane		5	U	NA		5	U
2-Butanone		84		NA		10	U
1,1,1-Trichloroethane		5	U	NA		5	U
Carbon Tetrachloride			E	180		5	U
Vinyl Acetate		10	U	NA		10	U
Bromodichloromethane		5	U	NA		5	U
1,2-Dichloropropane		5	U	NA		5	U
cis-1,3-Dichloropropene		5	U	NA		5	U
Trichloroethene		5	U	NA		5	U
Dibromochloromethane		5	U	NA		5	U
1,1,2-Trichloroethane		5	U	NA		5	U
Benzene		5	U	NA		5	U
Trans-1,3-Dichloropropene		5	U	NA		5	U
Bromoform		5	U	NA		5	U
4-Methyl-2-pentanone		55		NA		10	U
2-Hexanone		10	U	NA		10	U
Tetrachloroethene		2	J	NA		5	U
1,1,2,2-Tetrachloroethane		5	U	NA		5	U

*= Outside of EPA CLP QC limits.

0000004
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Cust ID: Z1C-603-2A,B Z1C-603-2A,B VBLK

RFW#:	001	001 DL	91LVK102-MB1
Toluene	24	NA	5 U
Chlorobenzene	5 U	NA	5 U
Ethylbenzene	5 U	NA	5 U
Styrene	5 U	NA	5 U
Xylene (total)	4 J	NA	5 U

*= Outside of EPA CLP QC limits.

0000005

9613451.1591

9613451.1592

6A

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 06-06-91
RFW #: 9106L962, GC/MS VOLATILE
W.O. #: 6168-02-01

NARRATIVE

One (1) water sample was collected on 06-03-91.

The sample and its associated QC samples were analyzed according to criteria set forth in SW 846 Method 8240 for TCL Volatile target compounds on 06-11-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were detected in these samples.

2. Sample Z1C-603-2A,BDL required a five-fold dilution because it contained high levels of target compounds.

3. All surrogate recoveries were within EPA QC limits.

4. Matrix spike and spike duplicate samples are associated with RFW lot 9105L711.

5. The laboratory blank contained the common contaminants methylene chloride and acetone at levels less than 3x the CRQL.

6. Internal standard area and retention time criteria were met for samples and blanks.

7.8.91.

Jack R. Tuschall, Ph.D. Date
Laboratory Manager
Lionville Analytical Laboratory

9613451.1593 0000017

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Z1C-603-2A,B

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9106L962-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AK6B06

Level: (low/med) LOW Date Received: 06/06/91

% Moisture: not dec. _____ Date Analyzed: 06/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
74-87-3	Chloromethane	41	
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride		E
67-64-1	Acetone	200	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	190	
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	84	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride		E
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	55	
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	24	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	4	J

9613451.1594 0000015

1E

CLIENT SAMPLE NO.

Z1C-603-2A,B

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9106L962-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK6B06

Level: (low/med) LOW

Date Received: 06/06/91

% Moisture: not dec. _____

Date Analyzed: 06/11/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TERT BUTYL ALCOHOL	4.79	400	CJ
2.	UNKNOWN	18.09	5	J
3.	KETONE	18.97	10	J
4.	KETONE	20.27	10	J
5.	UNKNOWN	21.05	8	J
6.	UNKNOWN	24.20	200	J
7.	ALKANE	24.74	7	J

C: Response Factor from daily standard.

9613451.1595 1A 0000037

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Z1C-603-2A,BDL

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9106L962-001 DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AK6B08

Level: (low/med) LOW Date Received: 06/06/91

% Moisture: not dec. _____ Date Analyzed: 06/11/91

Column: (pack/cap) CAP Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	630	B
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	180	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

Roy F. Weston, Inc. - Lionville Laboratory
Semivolatiles by GC/MS, HSL List

Report Date: 07/01/91 14:21

RFW Batch Number: 9106L962 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Page: 1a

	Cust ID:	Z1C-603-3		Z1C-603-3		SBLK		SBLK BS		SBLK BSD	
Sample Information	RFW#:	002		002 DL		91LE0745-MB1		91LE0745-MB1		91LE0745-MB1	
	Matrix:	WATER		WATER		WATER		WATER		WATER	
	D.F.:	5.00		50.0		1.00		1.00		1.00	
	Units:	ug/L		ug/L		ug/L		ug/L		ug/L	
Surrogate Recovery	Nitrobenzene-d5	D	%	D	%	75	%	83	%	75	%
	2-Fluorobiphenyl	D	%	D	%	72	%	73	%	66	%
	p-Terphenyl-d14	D	%	D	%	96	%	83	%	82	%
	Phenol-d5	D	%	D	%	90	%	88	%	88	%
	2-Fluorophenol	D	%	D	%	86	%	79	%	88	%
	2,4,6-Tribromophenol	D	%	D	%	84	%	85	%	91	%
			fl		fl		fl		fl		fl
Phenol		140		NA		10	U	79	%	84	%
bis(2-Chloroethyl)ether		55	U	NA		10	U	10	U	10	U
2-Chlorophenol		55	U	NA		10	U	85	%	90	%
1,3-Dichlorobenzene		55	U	NA		10	U	10	U	10	U
1,4-Dichlorobenzene		55	U	NA		10	U	60	%	61	%
Benzyl alcohol		58		NA		10	U	10	U	10	U
1,2-Dichlorobenzene		55	U	NA		10	U	10	U	10	U
2-Methylphenol		55	U	NA		10	U	10	U	10	U
bis(2-Chloroisopropyl)ether		55	U	NA		10	U	10	U	10	U
4-Methylphenol		55	U	NA		10	U	10	U	10	U
N-Nitroso-Di-n-propylamine		55	U	NA		10	U	86	%	82	%
Hexachloroethane		55	U	NA		10	U	10	U	10	U
Nitrobenzene		55	U	NA		10	U	10	U	10	U
Isophorone		55	U	NA		10	U	10	U	10	U
2-Nitrophenol		55	U	NA		10	U	10	U	10	U
2,4-Dimethylphenol		55	U	NA		10	U	10	U	10	U
Benzoic acid			E	8000		50	U	50	U	50	U
bis(2-Chloroethoxy)methane		55	U	NA		10	U	10	U	10	U
2,4-Dichlorophenol		55	U	NA		10	U	10	U	10	U
1,2,4-Trichlorobenzene		55	U	NA		10	U	65	%	64	%
Naphthalene		55	U	NA		10	U	10	U	10	U
4-Chloroaniline		55	U	NA		10	U	10	U	10	U
Hexachlorobutadiene		55	U	NA		10	U	10	U	10	U
4-Chloro-3-methylphenol		55	U	NA		10	U	77	%	63	%
2-Methylnaphthalene		55	U	NA		10	U	10	U	10	U
Hexachlorocyclopentadiene		55	U	NA		10	U	10	U	10	U

*= Outside of EPA CLP QC limits.

0000004
9613451.1596

Cust ID:	Z1C-603-3		Z1C-603-3	SBLK		SBLK BS		SBLK BSD	
RFW#:	002		002 DL	91LE0745-MB1		91LE0745-MB1		91LE0745-MB1	
2,4,6-Trichlorophenol	55	U	NA	10	U	10	U	10	U
2,4,5-Trichlorophenol	280	U	NA	50	U	50	U	50	U
2-Chloronaphthalene	55	U	NA	10	U	10	U	10	U
2-Nitroaniline	280	U	NA	50	U	50	U	50	U
Dimethylphthalate	55	U	NA	10	U	10	U	10	U
Acenaphthylene	55	U	NA	10	U	10	U	10	U
2,6-Dinitrotoluene	55	U	NA	10	U	10	U	10	U
3-Nitroaniline	280	U	NA	50	U	50	U	50	U
Acenaphthene	55	U	NA	10	U	89	%	87	%
2,4-Dinitrophenol	280	U	NA	50	U	50	U	50	U
4-Nitrophenol	280	U	NA	50	U	86 *	%	78	%
Dibenzofuran	55	U	NA	10	U	10	U	10	U
2,4-Dinitrotoluene	55	U	NA	10	U	83	%	80	%
Diethylphthalate	55	U	NA	10	U	10	U	10	U
4-Chlorophenyl-phenylether	55	U	NA	10	U	10	U	10	U
Fluorene	55	U	NA	10	U	10	U	10	U
4-Nitroaniline	280	U	NA	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	280	U	NA	50	U	50	U	50	U
N-Nitrosodiphenylamine (1)	55	U	NA	10	U	10	U	10	U
4-Bromophenyl-phenylether	55	U	NA	10	U	10	U	10	U
Hexachlorobenzene	55	U	NA	10	U	10	U	10	U
Pentachlorophenol	280	U	NA	50	U	70	%	72	%
Phenanthrene	55	U	NA	10	U	10	U	10	U
Anthracene	55	U	NA	10	U	10	U	10	U
Di-n-Butylphthalate	12	JB	NA	2	J	1	JB	2	JB
Fluoranthene	55	U	NA	10	U	10	U	10	U
Pyrene	55	U	NA	10	U	82	%	86	%
Butylbenzylphthalate	55	U	NA	10	U	10	U	10	U
3,3'-Dichlorobenzidine	110	U	NA	20	U	20	U	20	U
Benzo(a)anthracene	55	U	NA	10	U	10	U	10	U
Chrysene	55	U	NA	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	55	U	NA	2	J	2	JB	2	JB
Di-n-Octyl phthalate	55	U	NA	10	U	10	U	10	U
Benzo(b)fluoranthene	55	U	NA	10	U	10	U	10	U
Benzo(k)fluoranthene	55	U	NA	10	U	10	U	10	U
Benzo(a)pyrene	55	U	NA	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	55	U	NA	10	U	10	U	10	U
Dibenzo(a,h)anthracene	55	U	NA	10	U	10	U	10	U
Benzo(g,h,i)perylene	55	U	NA	10	U	10	U	10	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

9613451.1597 0000005

9613451.1598 6A

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 06-06-91
RFW #: 9106L962, SEMIVOLATILE
W.O. #: 6168-02-01

NARRATIVE

One (1) water sample was collected on 06-04-91.

The sample and its associated QC samples were extracted on 06-11-91 and analyzed according to criteria set forth in SW 846 Method 8270 for TCL Semivolatile target compounds on 06-20,21-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were detected in these samples.

2. All obtainable surrogate recoveries were within EPA QC limits.

3. Sample Z1C-603-3 required five-fold and 50-fold dilutions because it contained high levels of both target and non-target compounds.

4. One (1) of twenty-two (22) matrix spike recoveries was outside EPA QC limits.

5. The laboratory blanks contained the common contaminants bis(2-ethylhexyl) phthalate and di-n-butylphthalate at levels less than the CRQL.

6. Internal standard area and retention time criteria were met for all samples and blanks.

7.11.91.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

Date

9613451.1599 1B 0000018 /3

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Z1C-603-3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9106L962-002

Sample wt/vol: 935 (g/mL) ML Lab File ID: V062107

Level: (low/med) LOW Date Received: 06/06/91

% Moisture: not dec. _____ dec. Date Extracted: 06/11/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/21/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	140	
111-44-4	bis(2-Chloroethyl)ether	55	U
95-57-8	2-Chlorophenol	55	U
541-73-1	1,3-Dichlorobenzene	55	U
106-46-7	1,4-Dichlorobenzene	55	U
100-51-6	Benzyl alcohol	58	
95-50-1	1,2-Dichlorobenzene	55	U
95-48-7	2-Methylphenol	55	U
108-60-1	bis(2-Chloroisopropyl)ether	55	U
106-44-5	4-Methylphenol	55	U
621-64-7	N-Nitroso-Di-n-propylamine	55	U
67-72-1	Hexachloroethane	55	U
98-95-3	Nitrobenzene	55	U
78-59-1	Isophorone	55	U
88-75-5	2-Nitrophenol	55	U
105-67-9	2,4-Dimethylphenol	55	U
65-85-0	Benzoic acid		E
111-91-1	bis(2-Chloroethoxy)methane	55	U
120-83-2	2,4-Dichlorophenol	55	U
120-82-1	1,2,4-Trichlorobenzene	55	U
91-20-3	Naphthalene	55	U
106-47-8	4-Chloroaniline	55	U
87-68-3	Hexachlorobutadiene	55	U
59-50-7	4-Chloro-3-methylphenol	55	U
91-57-6	2-Methylnaphthalene	55	U
77-47-4	Hexachlorocyclopentadiene	55	U
88-06-2	2,4,6-Trichlorophenol	55	U
95-95-4	2,4,5-Trichlorophenol	280	U
91-58-7	2-Chloronaphthalene	55	U
88-74-4	2-Nitroaniline	280	U
131-11-3	Dimethylphthalate	55	U
208-96-8	Acenaphthylene	55	U
606-20-2	2,6-Dinitrotoluene	55	U

9613451.1600 0000019 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

Z1C-603-3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9106L962-002

Sample wt/vol: 935 (g/mL) ML Lab File ID: V062107

Level: (low/med) LOW Date Received: 06/06/91

% Moisture: not dec. _____ dec. Date Extracted: 06/11/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/21/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	280	U
83-32-9	Acenaphthene	55	U
51-28-5	2,4-Dinitrophenol	280	U
100-02-7	4-Nitrophenol	280	U
132-64-9	Dibenzofuran	55	U
121-14-2	2,4-Dinitrotoluene	55	U
84-66-2	Diethylphthalate	55	U
7005-72-3	4-Chlorophenyl-phenylether	55	U
86-73-7	Fluorene	55	U
100-01-6	4-Nitroaniline	280	U
534-52-1	4,6-Dinitro-2-methylphenol	280	U
86-30-6	N-Nitrosodiphenylamine (1)	55	U
101-55-3	4-Bromophenyl-phenylether	55	U
118-74-1	Hexachlorobenzene	55	U
87-86-5	Pentachlorophenol	280	U
85-01-8	Phenanthrene	55	U
120-12-7	Anthracene	55	U
84-74-2	Di-n-Butylphthalate	12	JB
206-44-0	Fluoranthene	55	U
129-00-0	Pyrene	55	U
85-68-7	Butylbenzylphthalate	55	U
91-94-1	3,3'-Dichlorobenzidine	110	U
56-55-3	Benzo(a)anthracene	55	U
218-01-9	Chrysene	55	U
117-81-7	bis(2-Ethylhexyl)phthalate	55	U
117-84-0	Di-n-Octyl phthalate	55	U
205-99-2	Benzo(b)fluoranthene	55	U
207-08-9	Benzo(k)fluoranthene	55	U
50-32-8	Benzo(a)pyrene	55	U
193-39-5	Indeno(1,2,3-cd)pyrene	55	U
53-70-3	Dibenzo(a,h)anthracene	55	U
191-24-2	Benzo(g,h,i)perylene	55	U

(1) - Cannot be separated from Diphenylamine

9613451.1601

1F

0000020

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Z1C-603-3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9106L962-002

Sample wt/vol: 935 (g/mL) ML Lab File ID: V062107

Level: (low/med) LOW Date Received: 06/06/91

% Moisture: not dec. _____ dec. Date Extracted: 06/11/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/21/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	8.00	200	JA
2.	ALDOL CONDENSATE	8.57	200	JA
3.	UNKNOWN	9.92	4000	J
4.	UNKNOWN	11.27	1000	J
5.	UNKNOWN	11.98	2000	J
6.	UNKNOWN	13.53	60	J
7.	UNKNOWN	13.83	200	J
8.	UNKNOWN	14.72	80	J
9.	ALDOL CONDENSATE	14.83	70	J
10.	PHTHALATE	15.48	200	J
11.	CHLORODIMETHYLPHENOL	16.43	200	J
12.	UNKNOWN	17.87	200	J
13.	UNKNOWN	23.17	600	J
14.	PHTHALATE	25.98	200	J
15.	UNKNOWN	26.22	700	J
16.	AROMATIC	26.75	100	J
17.	UNKNOWN	27.78	30	J
18.	UNKNOWN	28.98	1000	J
19.	UNKNOWN	31.63	800	J

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Z1C-603-3DL

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9106L962-002 DL

Sample wt/vol: 935 (g/mL) ML Lab File ID: J062111

Level: (low/med) LOW Date Received: 06/06/91

% Moisture: not dec. _____ dec. Date Extracted: 06/11/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/21/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 50.0

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

CAS NO.	COMPOUND		
108-95-2	Phenol	NA	
111-44-4	bis(2-Chloroethyl)ether	NA	
95-57-8	2-Chlorophenol	NA	
541-73-1	1,3-Dichlorobenzene	NA	
106-46-7	1,4-Dichlorobenzene	NA	
100-51-6	Benzyl alcohol	NA	
95-50-1	1,2-Dichlorobenzene	NA	
95-48-7	2-Methylphenol	NA	
108-60-1	bis(2-Chloroisopropyl)ether	NA	
106-44-5	4-Methylphenol	NA	
621-64-7	N-Nitroso-Di-n-propylamine	NA	
67-72-1	Hexachloroethane	NA	
98-95-3	Nitrobenzene	NA	
78-59-1	Isophorone	NA	
88-75-5	2-Nitrophenol	NA	
105-67-9	2,4-Dimethylphenol	NA	
65-85-0	Benzoic acid	8000	
111-91-1	bis(2-Chloroethoxy)methane	NA	
120-83-2	2,4-Dichlorophenol	NA	
120-82-1	1,2,4-Trichlorobenzene	NA	
91-20-3	Naphthalene	NA	
106-47-8	4-Chloroaniline	NA	
87-68-3	Hexachlorobutadiene	NA	
59-50-7	4-Chloro-3-methylphenol	NA	
91-57-6	2-Methylnaphthalene	NA	
77-47-4	Hexachlorocyclopentadiene	NA	
88-06-2	2,4,6-Trichlorophenol	NA	
95-95-4	2,4,5-Trichlorophenol	NA	
91-58-7	2-Chloronaphthalene	NA	
88-74-4	2-Nitroaniline	NA	
131-11-3	Dimethylphthalate	NA	
208-96-8	Acenaphthylene	NA	
606-20-2	2,6-Dinitrotoluene	NA	

9613451.1603
1C

0000057

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

Z1C-603-3DL

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9106L962-002 DL

Sample wt/vol: 935 (g/mL) ML Lab File ID: J062111

Level: (low/med) LOW Date Received: 06/06/91

% Moisture: not dec. _____ dec. Date Extracted: 06/11/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/21/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 50.0

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	NA	
83-32-9	Acenaphthene	NA	
51-28-5	2,4-Dinitrophenol	NA	
100-02-7	4-Nitrophenol	NA	
132-64-9	Dibenzofuran	NA	
121-14-2	2,4-Dinitrotoluene	NA	
84-66-2	Diethylphthalate	NA	
7005-72-3	4-Chlorophenyl-phenylether	NA	
86-73-7	Fluorene	NA	
100-01-6	4-Nitroaniline	NA	
534-52-1	4,6-Dinitro-2-methylphenol	NA	
86-30-6	N-Nitrosodiphenylamine (1)	NA	
101-55-3	4-Bromophenyl-phenylether	NA	
118-74-1	Hexachlorobenzene	NA	
87-86-5	Pentachlorophenol	NA	
85-01-8	Phenanthrene	NA	
120-12-7	Anthracene	NA	
84-74-2	Di-n-Butylphthalate	NA	
206-44-0	Fluoranthene	NA	
129-00-0	Pyrene	NA	
85-68-7	Butylbenzylphthalate	NA	
91-94-1	3,3'-Dichlorobenzidine	NA	
56-55-3	Benzo(a)anthracene	NA	
218-01-9	Chrysene	NA	
117-81-7	bis(2-Ethylhexyl)phthalate	NA	
117-84-0	Di-n-Octyl phthalate	NA	
205-99-2	Benzo(b)fluoranthene	NA	
207-08-9	Benzo(k)fluoranthene	NA	
50-32-8	Benzo(a)pyrene	NA	
193-39-5	Indeno(1,2,3-cd)pyrene	NA	
53-70-3	Dibenzo(a,h)anthracene	NA	
191-24-2	Benzo(g,h,i)perylene	NA	

(1) - Cannot be separated from Diphenylamine