START 9613404.0697

BOOYR1-Dat-274

0043183

DATACHEM LABORATORIES
960 WEST LEVOY DRIVE
SALT LAKE CITY, UTAH 84123

WESTINGHOUSE

****

CASE No. WHC15 SDG No. WHCM15 SF-0813-AH,BH,CH,DH

CLIENT SAMPLE #	EPA SAMPLE #	LAB SAMPLE #
BOO-YR1	MC7890	CLP7890
BOO-YR2	MC7891	CLP7891
BOO-YR3	MC7892	CLP7892
BOO-YR5	MC7893	CLP7893
BOO-YR6	MC7894	CLP7894
BOO-YR8	MC7896	CLP7896
MATRIX DUPLICATE (ICP,HG,CN)	MC7890D	CLP7890
MATRIX DUPLICATE (ICP,HG,CN)	MC7893D	CLP7893
MATRIX DUPLICATE (GFAA)	MC7894D	CLP7894
MATRIX DUPLICATE (GFAA)	MC7896D	CLP7896
MATRIX SPIKE (ICP,HG,CN)	MC7890S	CLP7890
MATRIX SPIKE (ICP)	MC7893S	CLP7893
MATRIX SPIKE (GFAA,HG,CN)	MC7894S	CLP7894
MATRIX SPIKE (GFAA)	MC7896	CLP7896

FEB 1996 RECEIVED EDMC

9613404.0698

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MC7890

Lab Name: DATACHEM LABORATORIES Contract:

Lab Code: DATAC Case No.: WHC15 SAS No.: SDG No.: WHCM15

Matrix (soil/water): SOIL Lab Sample ID: CLP7890

Level (low/med): LOW Date Received: 07/02/91

% Solids: 81.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5760			P
7440-36-0	Antimony	11.3	U		P
7440-38-2	Arsenic	0.45	B	NW	F
7440-39-3	Barium	110			P
7440-41-7	Beryllium	0.25	U		P
7440-43-9	Cadmium	0.96	B		P
7440-70-2	Calcium	4840			P
7440-47-3	Chromium	17.5			P
7440-48-4	Cobalt	10.4	B		P
7440-50-8	Copper	49.7			P
7439-89-6	Iron	13100			P
7439-92-1	Lead	3.3		*	F
7439-95-4	Magnesium	3040			P
7439-96-5	Manganese	125			P
7439-97-6	Mercury	0.46			CV
7440-02-0	Nickel	9.0	B		P
7440-09-7	Potassium	897	B		P
7782-49-2	Selenium	0.54	B	N	F
7440-22-4	Silver	18.4			P
7440-23-5	Sodium	247	B		P
7440-28-0	Thallium	0.25	U		F
7440-62-2	Vanadium	69.2			P
7440-66-6	Zinc	283			P
	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

9613404.0699

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MC7891

Lab Name: DATACHEM LABORATORIES Contract:

Lab Code: DATAC Case No.: WHC15 SAS No.: SDG No.: WHCM15

Matrix (soil/water): SOIL Lab Sample ID: CLP7891

Level (low/med): LOW Date Received: 07/02/91

% Solids: 83.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6550			P
7440-36-0	Antimony	11.0	U		P
7440-38-2	Arsenic	0.27	B	NW	F
7440-39-3	Barium	112			P
7440-41-7	Beryllium	0.24	U		P
7440-43-9	Cadmium	1.8			P
7440-70-2	Calcium	4690			P
7440-47-3	Chromium	14.3			P
7440-48-4	Cobalt	10.4	B		P
7440-50-8	Copper	57.2			P
7439-89-6	Iron	14100			P
7439-92-1	Lead	32.0		S*	F
7439-95-4	Magnesium	2460			P
7439-96-5	Manganese	114			P
7439-97-6	Mercury	0.43			CV
7440-02-0	Nickel	8.1	B		P
7440-09-7	Potassium	663	B		P
7782-49-2	Selenium	0.46	B	N	F
7440-22-4	Silver	17.4			P
7440-23-5	Sodium	199	B		P
7440-28-0	Thallium	0.24	U		F
7440-62-2	Vanadium	78.6			P
7440-66-6	Zinc	244			P
	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

4

9613404.0700

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MC7892

Lab Name: DATACHEM LABORATORIES Contract:

Lab Code: DATAC Case No.: WHC15 SAS No.: SDG No.: WHCM15

Matrix (soil/water): SOIL Lab Sample ID: CLP7892

Level (low/med): LOW Date Received: 07/02/91

% Solids: 30.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15500			P
7440-36-0	Antimony	38.8	B		P
7440-38-2	Arsenic	1.7	B	NW	F
7440-39-3	Barium	408			P
7440-41-7	Beryllium	0.74	B		P
7440-43-9	Cadmium	23.0			P
7440-70-2	Calcium	15900			P
7440-47-3	Chromium	122			P
7440-48-4	Cobalt	7.3	B		P
7440-50-8	Copper	881			P
7439-89-6	Iron	8860			P
7439-92-1	Lead	500		S*	F
7439-95-4	Magnesium	2720	B		P
7439-96-5	Manganese	104			P
7439-97-6	Mercury	4.0			CV
7440-02-0	Nickel	33.1			P
7440-09-7	Potassium	1290	B		P
7782-49-2	Selenium	7.7		N	F
7440-22-4	Silver	320			P
7440-23-5	Sodium	363	B		P
7440-28-0	Thallium	0.65	U		F
7440-62-2	Vanadium	46.6			P
7440-66-6	Zinc	3830			P
	Cyanide	8.2	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

5

9613404.0701

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MC7893

Lab Name: DATACHEM LABORATORIES Contract:

Lab Code: DATAC Case No.: WHC15 SAS No.: SDG No.: WHCM15

Matrix (soil/water): WATER Lab Sample ID: CLP7893

Level (low/med): LOW Date Received: 07/02/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	40.0	U		P
7440-36-0	Antimony	46.0	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	48.0	U		P
7440-47-3	Chromium	7.0	U		P
7440-48-4	Cobalt	7.6	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	15.0	U		P
7439-92-1	Lead	1.5	B		F
7439-95-4	Magnesium	63.0	U		P
7439-96-5	Manganese	4.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	18.0	U		P
7440-09-7	Potassium	1150	U		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	210	B		P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	7.0	U		P
7440-66-6	Zinc	4.0	U		P
	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

56

9613404.0702

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MC7894

Lab Name: DATACHEM LABORATORIES Contract:

Lab Code: DATAC Case No.: WHC15 SAS No.: SDG No.: WHCM15

Matrix (soil/water): WATER Lab Sample ID: CLP7894

Level (low/med): LOW Date Received: 07/02/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.0	B		P
7440-36-0	Antimony	46.0	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.5	B		P
7440-43-9	Cadmium	3.1	B		P
7440-70-2	Calcium	74.0	B		P
7440-47-3	Chromium	7.0	U		P
7440-48-4	Cobalt	7.6	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	33.0	B		P
7439-92-1	Lead	2.5	B		F
7439-95-4	Magnesium	83.0	B		P
7439-96-5	Manganese	4.1	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	18.0	U		P
7440-09-7	Potassium	1150	U		P
7782-49-2	Selenium	1.3	B		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	44.0	U		P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	7.0	U		P
7440-66-6	Zinc	4.0	U		P
	Cyanide	11.1	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000 7

9613404.0703

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MC7896

Lab Name: DATACHEM LABORATORIES Contract:

Lab Code: DATAC Case No.: WHC15 SAS No.: SDG No.: WHCM15

Matrix (soil/water): SOIL Lab Sample ID: CLP7896

Level (low/med): LOW Date Received: 07/02/91

% Solids: 46.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14700			P
7440-36-0	Antimony	19.7	U		P
7440-38-2	Arsenic	1.7	B	NW	F
7440-39-3	Barium	262			P
7440-41-7	Beryllium	0.80	B		P
7440-43-9	Cadmium	14.4			P
7440-70-2	Calcium	11200			P
7440-47-3	Chromium	72.8			P
7440-48-4	Cobalt	7.7	B		P
7440-50-8	Copper	533			P
7439-89-6	Iron	11200			P
7439-92-1	Lead	457		*	F
7439-95-4	Magnesium	2890			P
7439-96-5	Manganese	99.4			P
7439-97-6	Mercury	4.1			CV
7440-02-0	Nickel	15.2	B		P
7440-09-7	Potassium	1310	B		P
7782-49-2	Selenium	6.2		N	F
7440-22-4	Silver	238			P
7440-23-5	Sodium	641	B		P
7440-28-0	Thallium	0.84	B		F
7440-62-2	Vanadium	32.2			P
7440-66-6	Zinc	2160			P
	Cyanide	5.4	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

8

Westinghouse Hanford Company 9613404.0704

CHAIN OF CUSTODY

Custody Form Initiator J. D. Fancher

Company Contact J. D. Fancher Telephone 509-376-2081

Project Designation/Sampling Locations 300-FF-1 Sanitary Sewage Trench Collection Date 6/27/91

Ice Chest No. #0101 Field Logbook No. WHC-N-4917-1

Bill of Lading/Airbill No. 2474250570 Offsite Property No. W91-0-1423

Method of Shipment Air

Shipped to Data Chem

Possible Sample Hazards/Remarks None observed

(COPY) ORIGINAL IS FILED IN CSF WHC15 WHCV15

Sample Identification

BOOYR1

1) 1-120 ml glass ICP/AA metals, Hg
1-40 ml glass - CN
2-40 ml glass septum - VOA
1-250 ml amber glass - Semi VOA, PCB Pest
1-120 ml glass - Anions pH, sulfide

BOOYR2

2) 1-120 ml glass ICP/AA metals, Hg
1-40 ml glass -CN
2-40 ml glass septum - VOA
1-250 ml amber glass - Semi VOA, PCB Pest
1-120 ml glass - Anions pH, sulfide

BOOYR3

3) 1-120 ml glass ICP/AA metals, Hg
1-40 ml glass - CN
2-40 ml glass septum - VOA
1-250 ml amber glass - Semi VOA, PCB Pes
1-120 ml glass - Anions pH, sulfide

BOOYR4

4) 1-120 ml glass ICP/AA metals, Hg
1-40 ml glass - CN
2-40 ml glass septum - VOA
1-250 ml amber lass - Semi VOA, PCB Pest
1-120 ml glass - Anions pH, sulfide

☐ Field Transfer of Custody

CHAIN OF POSSESSION

(Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
J. D. Fancher	M. D. Campbell	6-28-91 1255
M. D. Campbell	J. W. Roberts	7-1-91 1016
J. W. Roberts	J. Demarest	7-1-91 1330
J. Demarest	T. Jackson	7-2-91 1200

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/

Westinghouse Hanford Company

CHAIN OF CUSTODY

9613404.0705

Custody Form Initiator: J. D. Fancher

Company Contact: J. D. Fancher — Telephone: 509-376-2081

Project Designation/Sampling Locations: 300-FF-1 Sanitary Sewage Trench — Collection Date: 6/27/91

Ice Chest No.: SLEEPY — Field Logbook No.: WHC-N497-1

Bill of Lading/Airbill No.: 247425057 O — Offsite Property No.: W91-0-0423

Method of Shipment: Air

Shipped to: Data Chem

(COPY) ORIGINAL IS FILED IN CSF WHC151 WHCV15

Possible Sample Hazards/Remarks: None observed

BOOYR5

Sample Identification

1) 1-1000 ml plastic - ICP/AA metals, Mercury preserved w/ HNO_3
1-1000 ml plastic cyanide preserved w/NaOH
2-40 ml glass septum - VOA
1-4000 ml ~~2-2000~~ ml glass - Semi VOA, PCB/Pest
1-250 ml plastic - Anions, pH
1-500 ml glass - sulfide preserved w/ ZnAc

2) 1-1000 ml plastic - ICP/AA metals, Mercury HNO_3
1-1000 ml plastic cyanide preserved w/NaOH
2-40 ml glass septum - VOA
1-4000 ml ~~2-2000~~ ml glass - Semi VOA, PCB/Pest
1-250 ml plastic - Anions, pH
1-500 ml glass - sulfide preserved w/ ZnAc

BOOYR6

3) BOOYR7 - 40ml Amber Glass - VOA

6/27/91

☐ Field Transfer of Custody

CHAIN OF POSSESSION (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
J. D. Fancher J.D. Fancher	M.D. Campbell M.D. Campbell	6-28-91 1255
M.D. Campbell M.D. Campbell	J.W. Roberts J.W. Roberts	7-1-91 1016
J.W. Roberts J.W. Roberts	J. DEMAREST J. Demarest	7-1-91 1330
J. DEMAREST J. Demarest	T. Jackson	7-2-91 1200

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/

SAMPLE LOG-IN SHEET

SF- 0813

Lab Name: DataChem Laboratories

Page ____ of ____

Received By (Print Name): Tom Jackson

Log-In Date: 7-2-91

Received By (Signature):

Case Number: WHC15

Sample Delivery Group No.:

SAS Number:

CIRCLE THE APPROPRIATE RESPONSE:

1. Custody Seal(s) Present/Absent* Intact/Broken*
2. Custody Seal Nos.: None
3. Chain-of-Custody Records Present/Absent*
4. Traffic Reports or Packing List Present/Absent*
5. Airbill ~~Airbill Sticker~~ Present/Absent*
6. Airbill No.: 2474250570
7. Sample Tags Present/Absent*
   Sample Tag Numbers Listed/Not Listed on Chain-of-Custody
8. Sample Condition: Intact/Broken*/Leaking*
9. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
10. Date Received at Lab: 7-2-91
11. Time Received: 1200

SAMPLE TRANSFER

Fraction: All

Area #: Walk-in

By: TD

On: 7-2-91

EPA SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	MATRIX	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
B00 YR1	N/A	CLP 7890	S	Acceptable
YR2		7891		
YR3		7892		
YR5		7893	W	
YR6		7894		
YR7		7895		
YR8		7896	S	

(COPY) ORIGINAL IS FILED IN CSF

WHC15

WHCV15

* If Circled, contact SMO and attach record of resolution.

11/89 Rev.

Reviewed By: ____

Logbook No.: ____

Date: ____

Logbook Page No.: ____

FORM DC-1

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

3404.0707

1. ☒ REGULAR Status

☐ RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date _____ Purchase Order No. _____

3. Company Name Westinghouse Hanford Company

Address P.O. 1970

Richland, WA

Person to Contact J. D. Fancher/J. W. Roberts

Telephone (509) 376-2081 376-2111

Fax Telephone ( ) _____

Billing Address (if different from above)

4. Sample Collection

Sampling Site 300-FF-1 Sanitary trench

Industrial Process _____

Date of Collection 6/27/91

Time Collected _____

Date of Shipment 7/1/91

Chain of Custody No. WHC - Chain of Custody

5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
CLP 7890	B00YR1	Soil	6 bottles	ICP/AA metals,Hg,Cn,VOA,Semi-VOA,PCB,Pest,Anions,pH,sulfide
7891	B00YR2	Soil	6 bottles	Same
7892	B00YR3	Soil	6 bottles	Same
7893	B00YR5	Water	7 bottles	Same
7894	B00YR6	Water	7 bottles	Same
7895	B00YR7	Water	1 bottle	VOA only
7896	B00YR8	Soil	6 bottles	Same as B00YR1

(COPY) ORIGINAL IS FILED IN CSF WHC 15

WHC V15

*Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk Sample; Blood; Urine; Tissue; Soil; Water; Other

6. Q C REQUIREMENTS

MUST BE COMPLETED - See General Services Terms and Conditions: QC samples billed at regular sample rate

☒ METHOD QC SAMPLES (Lab QC according to published methods)

☐ PROJECT PLAN QC SAMPLES (Lab QC according to provided QA/QC Plan)

☐ NO QC SAMPLES REQUESTED (May not conform to Agency requirements)

☐ OTHER (as specified below)

Comments See WHC chain of custody for further information. [Project 91-051]

Possible Contamination and/or Chemical Hazards None observed

7. Requested by J. D. Fancher

960 West LeVoy Drive / Salt Lake City, UT 84123 800-356-9135 or 801- 266-7700 / FAX: 801-268-9992
4388 Glendale-Milford Road / Cincinnati, OH 45242 800-458-1493 or 513-733-5336 / FAX: 513-733-5347

DATACHEM LABORATORIES - A SORENSON COMPANY

DISTRIBUTION: WHITE - LABORATORY COPY CANARY - CUSTOMER COPY

FURNACE

CHAIN OF CUSTODY RECORD

Date Extracted:
Date Digested: 07/12/91 BL
Date Analyzed:

Account:	DCL Set ID:	Sponsor:	SPLITS					
3534 E	SF-0813	Westinghouse Hanford		CLP Metals	CLP CN	Anions, pH	Sulfide	CLP Vols
Field Comment:				CLP Semi-Vols	CLP Pest/PCB			

Date Sampled	Field ID Number	DCL Sample Number(s)	Sample Matrix	Number of Containers	Remarks
6-27-91	B00 YR1	CLP 7890	Soil	6	CLP Metals; CLP CN; Anions, pH; sulfide; CLP Vols; CLP Semi-Vol/CLP Pest/PCB
	YR2	7891			
	YR3	7892			
	YR5	7893	Water	7	
	YR6	7894		8 7	
	YR7	7895		1	CLP Vols
	YR8	7896	Soil	6	CLP Metals; CLP CN; Anions, pH, sulfide; CLP Vols; CLP Semi-Vols; CLP Pest/PCB

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	7-2-91 1400	Sample storage	Sample Storage BL	07/14/91 0800	[signature]
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	07/12/91 1730	[signature]	[signature]	7/15/91 0300	[signature]
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	7/15/91 0830	Tanya Cherlin			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

9400-0708

94

CHAIN OF CUSTODY RECORD

Date Extracted:
Date Digested: 07/15/91
Date Analyzed: 07/15/91

Account:	DCL Set ID:	Sponsor:	SPLITS					
3534 E	SF-0813	Westinghouse Hanford		CLP Metals	CLP CN	Anions, pH	Sulfide	CLP Vols
Field Comment:				CLP Semi-Vols	CLP Pest/PCB			

Date Sampled	Field ID Number	DCL Sample Number(s)	Sample Matrix	Number of Containers	Remarks
6-27-91	B00 YR1	CLP 7890	Soil	6	CLP Metals; CLP CN; Anions, pH; sulfide; CLP Vols; CLP Semi-Vol/CLP Pest/PCB
	YR2	7891			
	YR3	7892			
	YR5	7893	Water	7	
	YR6	7894		~~8~~ 7	
	YR7	7895		1	CLP Vols
	YR8	7896	Soil	6	CLP Metals; CLP CN; Anions, pH, sulfide; CLP Vols; CLP Semi-Vols; CLP Pest/PCB

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	7-2-91 1400	Sample storage	Sample Storage	07/14/91 0800	[signature]
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	07/14/91 1400	Kristie Bitner	Kristie Bitner	07/15/91 16:00	KB 7/15/91 Digestate Destroyed
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Signature:

00013004 0700

ICP

CHAIN OF CUSTODY RECORD

Date Extracted:
Date Digested: 07/12/91
Date Analyzed: 07/18/91 RRB

Account:	DCL Set ID:	Sponsor:	SPLITS					
3534 E	SF-0813	Westinghouse Hanford		CLP Metals	CLP CN	Anions, pH	Sulfide	CLP Vols
Field Comment:				CLP Semi-Vols	CLP Pest/PCB			

Date Sampled	Field ID Number	DCL Sample Number(s)	Sample Matrix	Number of Containers	Remarks
6-27-91	B00 YR1	CLP 7890	Soil	6	CLP Metals; CLP CN; Anions, pH; sulfide; CLP Vols; CLP Semi-Vol/CLP Pest/PCB
	YR2	7891			
	YR3	7892			
	YR5	7893	Water	7	
	YR6	7894		7	
	YR7	7895		1	CLP Vols
	YR8	7896	Soil	6	CLP Metals; CLP CN; Anions, pH, sulfide; CLP Vols; CLP Semi-Vols; CLP Pest/PCB

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	7-2-91 1400	Sample storage	Sample Storage	07/11/91 0800	
Relinquished by: (Signature)	Date/Time 07/12/91 1730	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

0140-40134-0710

96

CHAIN OF CUSTODY RECORD

Date Extracted: 7/3/91 CAA
Date Digested:
Date Analyzed: 07/03/91 [illegible]

Account:	DCL Set ID:	Sponsor:	SPLITS					
534 E	SF-0813	Westinghouse Hanford		CLP Metals	CLP CN	Anions, pH	Sulfide	CLP Vols
Field Comment:				CLP Semi-Vols	CLP Pest/PCB			

Date Sampled	Field ID Number	DCL Sample Number(s)	Sample Matrix	Number of Containers	Remarks
6-27-91	B00YR1	CLP 7890	Soil	6	CLP Metal; CLP CN; Anions, pH; sulfide; CLP Vols; CLP Semi-Vol/CLP Pest/PCB
	YR2	7891			
	YR3	7892			
	YR5	7893	Water	7	
	YR6	7894		8 7	
	YR7	7895		1	CLP Vols
	YR8	7896	Soil	6	CLP Metals; CLP CN; Anions, pH, sulfide; CLP Vols; CLP Semi-Vols; CLP Pest/PCB

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	7-2-91 1400	Sample storage	Sample Storage CAA	7/3/91 8:00	Carlos A Arroyo
Carlos A Arroyo	7/3/91 16:00	Cynthia Adams	Cynthia Adams	07/03/91 18:30	L Perkins
L Perkins	07/03/91 2330	Sample Storage L.P.			

Final Disposition:

Signature:

CHAIN OF CUSTODY RECORD

% Solids

Date Extracted:
Date Digested:
Date Analyzed: 07/11/91

Account:	DCL Set ID:	Sponsor:	SPLITS					
5534 E	SF-0813	Westinghouse Hanford		CLP Metals	CLP CN	Anions, pH	Sulfide	CLP Vols
Field Comment:				CLP Semi-Vols	CLP Pest/PCB			

Date Sampled	Field ID Number	DCL Sample Number(s)	Sample Matrix	Number of Containers	Remarks
6-27-91	B00 YR1	CLP 7890	Soil	6	CLP Metals; CLP CN; Anions, pH; sulfide; CLP Vols; CLP Semi-Vol/CLP Pest/PCB
	YR2	7891			
	YR3	7892			
	YR5	7893	Water	7	
	YR6	7894		~~8~~ 7	
	YR7	7895		1	CLP Vols
	YR8	7896	Soil	6	CLP Metals; CLP CN; Anions, pH, sulfide; CLP Vols; CLP Semi-Vols; CLP Pest/PCB

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	7-2-91 1400	Sample storage	Sample Storage	07/11/91 0800	[signature]
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	07/11/91 1500	Storage (RM 21)	Storage (RM 21)	7/11/91 1700	[signature]
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Final Disposition: _____ Signature: _____

9613404.0713

DATA CHEM LABORATORIES

CASE NARRATIVE
VOA FRACTION

CASE NO. WHC15
SDG NO. WHCV15
SAMPLE NO(s). for VOA analysis: B00YR1, B00YR2, B00YR3, B00YR5, B00YR6, B00YR7, B00YR8, B00YR3MS, B00YR3MSD, B00YR6MS, B00YR6MSD.

EPA-CLP CONTRACT NO. WESTINGHOUSE HANFORD CO. P.O. MBH-SVV-060648
DATACHEM LABS.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed below. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Thomas J. Masoian

Thomas J. Masoian, Group Leader Date 7-18-91

I. 1. CASE WHC15 DataChem Laboratories received three water samples and four soil samples for VOA analysis. This report includes all data for this Case WHC15.

I. 2. VOA Analysis The water samples were analyzed as water samples and the soil samples were analyzed as soil samples according to EPA SOW 2/88.

All SPCC and CCC criteria were met for both the initial calibration standards and the continuing calibration standards.

The internal standard chlorobenzene-d5 was not within the EPA acceptance criteria for sample CLP7892 (B00YR3). The matrix spike and matrix spike duplicate analyses were performed on this sample. These analyses serve as reanalyses for CLP7892 (B00YR3).

The Form I for sample CLP7893 (B00YR5) displays an "E" qualifier for the analyte methylene chloride. The "E" qualifier denotes that this analyte quantitated above the upper limit of the linear curve. The quantitated value for methylene chloride was 201 ug/L therefore no reanalysis was performed.

2

I. 3. <u>Matrix Spike and Matrix Spike Duplicate Analyses</u>
The water matrix spike and matrix spike duplicate analyses were performed using sample B00YR6. The soil matrix spike and matrix spike duplicate analyses were performed using sample B00YR3.

9613404 0715

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR1

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7890

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM08CLP890

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 17 Date Analyzed: 07/09/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
	Total Xylenes	6	U

24

9613404 0716

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOYR1

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7890

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM08CLP890

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 17 Date Analyzed: 07/09/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

25

9613404.0717

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR2

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7891

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM09CLP891

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 22 Date Analyzed: 07/09/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
----------	Total Xylenes	6	U

9613404 1E718

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOYR2

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7891

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM09CLP891

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 22 Date Analyzed: 07/09/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1/87 Rev.

9613404.0719

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR3

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7892

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM17CLP892

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 70 Date Analyzed: 07/09/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	33	U
74-83-9	Bromomethane	33	U
75-01-4	Vinyl Chloride	33	U
75-00-3	Chloroethane	33	U
75-09-2	Methylene Chloride	17	U
67-64-1	Acetone	33	U
75-15-0	Carbon Disulfide	17	U
75-35-4	1,1-Dichloroethene	17	U
75-35-3	1,1-Dichloroethane	17	U
540-59-0	1,2-Dichloroethene (total)	17	U
67-66-3	Chloroform	17	U
107-06-2	1,2-Dichloroethane	17	U
78-93-3	2-Butanone	33	U
71-55-6	1,1,1-Trichloroethane	17	U
56-23-5	Carbon Tetrachloride	17	U
75-27-4	Bromodichloromethane	17	U
78-87-5	1,2-Dichloropropane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
79-01-6	Trichloroethene	17	U
124-48-1	Dibromochloromethane	17	U
79-00-5	1,1,2-Trichloroethane	17	U
71-43-2	Benzene	17	U
10061-02-6	Trans-1,3-Dichloropropene	17	U
75-25-2	Bromoform	17	U
108-10-1	4-Methyl-2-Pentanone	33	U
591-78-6	2-Hexanone	33	U
127-18-4	Tetrachloroethene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	33	U
108-88-3	Toluene	44	
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
100-42-5	Styrene	17	U
	Total Xylenes	17	U

9613404.0720

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOYR3

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7892

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM17CLP892

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 70 Date Analyzed: 07/09/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613404 0721

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: CLP7893

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: KL77CLP893

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ Date Analyzed: 07/02/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	200	E
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	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	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

9613404 1B722

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOYR5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: CLP7893

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: KL77CLP893

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ Date Analyzed: 07/02/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

9613404-0723

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR6

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: CLP7894

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: KL79CLP894

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ Date Analyzed: 07/02/91

Column: (pack/cap) PACK Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	220	
67-64-1	Acetone	20	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
	Total Xylenes	10	U

58

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOYR6

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: CLP7894

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: KL79CLP894

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ Date Analyzed: 07/02/91

Column (pack/cap) PACK Dilution Factor: 2.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

59

9613404-0725

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR7

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: CLP7895

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CU19CLP895

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ Date Analyzed: 07/03/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	4	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	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	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

67

9613404.0726

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOYR7

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: CLP7895

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CU19CLP895

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ Date Analyzed: 07/03/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

68

9613404-0727

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7896

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM16CLP896

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 54 Date Analyzed: 07/09/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	22	U
74-83-9	Bromomethane	22	U
75-01-4	Vinyl Chloride	22	U
75-00-3	Chloroethane	22	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	90	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-35-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	36	
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	Trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	22	U
591-78-6	2-Hexanone	22	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	22	U
108-88-3	Toluene	31	
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
	Total Xylenes	11	U

9613404.0728

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BOOYR8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7896

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM16CLP896

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 54 Date Analyzed: 07/09/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1/87 Rev.

9613404.8729

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: MB-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: KL76BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 07/02/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	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	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

9613404 0730

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: MB-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: KL76BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 07/02/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613404 0731

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: MB-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CU18BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 07/03/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	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	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

241

9613404 0732

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: MB-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CU18BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 07/03/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

242

9613404.0733

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: MB-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM07BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 07/09/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	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	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

9613404.0734

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: MB-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM07BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 07/09/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613404 0735

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: MB-4

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM20BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 07/10/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	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	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

9613404.0736

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK04

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: MB-4

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM20BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 07/10/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

258

9613404 0757

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR3MS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7892MS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM21C892MS

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 70 Date Analyzed: 07/10/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	33	U
74-83-9	Bromomethane	33	U
75-01-4	Vinyl Chloride	33	U
75-00-3	Chloroethane	33	U
75-09-2	Methylene Chloride	17	U
67-64-1	Acetone	33	U
75-15-0	Carbon Disulfide	17	U
75-35-4	1,1-Dichloroethene	17	U
75-35-3	1,1-Dichloroethane	17	U
540-59-0	1,2-Dichloroethene (total)	17	U
67-66-3	Chloroform	17	U
107-06-2	1,2-Dichloroethane	17	U
78-93-3	2-Butanone	33	U
71-55-6	1,1,1-Trichloroethane	17	U
56-23-5	Carbon Tetrachloride	17	U
75-27-4	Bromodichloromethane	17	U
78-87-5	1,2-Dichloropropane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
79-01-6	Trichloroethene	17	U
124-48-1	Dibromochloromethane	17	U
79-00-5	1,1,2-Trichloroethane	17	U
71-43-2	Benzene	17	U
10061-02-6	Trans-1,3-Dichloropropene	17	U
75-25-2	Bromoform	17	U
108-10-1	4-Methyl-2-Pentanone	33	U
591-78-6	2-Hexanone	33	U
127-18-4	Tetrachloroethene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	33	U
108-88-3	Toluene	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
100-42-5	Styrene	17	U
	Total Xylenes	17	U

9613404 1A 0738

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR6MS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: CLP7894MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: KL80C894MS

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ Date Analyzed: 07/03/91

Column: (pack/cap) PACK Dilution Factor: 2.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	210	
67-64-1	Acetone	20	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
	Total Xylenes	10	U

9613404 0739

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR3MSD

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7892MSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: KM22C892MD

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 70 Date Analyzed: 07/10/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	33	U
74-83-9	Bromomethane	33	U
75-01-4	Vinyl Chloride	33	U
75-00-3	Chloroethane	33	U
75-09-2	Methylene Chloride	17	U
67-64-1	Acetone	33	U
75-15-0	Carbon Disulfide	17	U
75-35-4	1,1-Dichloroethene	17	U
75-35-3	1,1-Dichloroethane	17	U
540-59-0	1,2-Dichloroethene (total)	17	U
67-66-3	Chloroform	17	U
107-06-2	1,2-Dichloroethane	17	U
78-93-3	2-Butanone	33	U
71-55-6	1,1,1-Trichloroethane	17	U
56-23-5	Carbon Tetrachloride	17	U
75-27-4	Bromodichloromethane	17	U
78-87-5	1,2-Dichloropropane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
79-01-6	Trichloroethene	17	U
124-48-1	Dibromochloromethane	17	U
79-00-5	1,1,2-Trichloroethane	17	U
71-43-2	Benzene	17	U
10061-02-6	Trans-1,3-Dichloropropene	17	U
75-25-2	Bromoform	17	U
108-10-1	4-Methyl-2-Pentanone	33	U
591-78-6	2-Hexanone	33	U
127-18-4	Tetrachloroethene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	33	U
108-88-3	Toluene	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
100-42-5	Styrene	17	U
	Total Xylenes	17	U

9613404-0740

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR6MSD

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCV15

Matrix: (soil/water) WATER Lab Sample ID: CLP7894MSD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: KL81C894MD

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ Date Analyzed: 07/03/91

Column: (pack/cap) PACK Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	210	
67-64-1	Acetone	20	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
	Total Xylenes	10	U

9613404.0741

CASE NARRATIVE
SEMIVOLATILE FRACTION

CASE NO. WHC15
SDG NO. WHCS15
SAMPLE NO.(s) for semivolatile analysis: B00YR1, B00YR1MS, B00YR1MSD, B00YR2, B00YR3, B00YR5, B00YR5MS, B00YR5MSD, B00YR6, B00YR8, B00YR8DL

WESTINGHOUSE HANFORD CORP. PURCHASE ORDER NO. MBH-SVV-060648
DATACHEM LABORATORIES

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed below. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Amy M Sequeira

John R. Gumpper, Section Manager date 08/20/91

I. 1. Case WHC15: DataChem Laboratories has received a total of four soil samples and two water samples for Case WHC15. This report includes data for the samples listed above which have been assigned the SDG designation WHCS15. DataChem Laboratories expects to be paid for all analyses listed above.

I. 2. Semivolatile Analysis: All samples in this SDG were analyzed and reported for the BNA fraction using the soil/sediment or water protocol specified in SOW 2/88. All samples met internal standard area and surrogate recovery criteria with the following corrections and exceptions.

The surrogate spike solution, SW1093, was double spiked with p-terphenyl-d14. The surrogate recoveries have been corrected on the forms.

Sample B00YR5 was double spike with surrogate solution. Surrogate recoveries in the matrix spike and matrix spike duplicate of this sample were within QC limits thus re-extraction was not performed. The surrogate recoveries in the unspiked sample are corrected for the error.

Sample B00YR5MS failed internal standard area criteria on perylene-d12. The unspiked sample and the matrix spike duplicate passed internal standard area criteria. The matrix spike sample was not re-analyzed as specified in the contract.

B00YR8 required a dilution by a factor of two for quantitation of bis(2-ethylhexyl)phthalate. Both the undiluted and the diluted sample are reported.

I. 3. Matrix Spike and Matrix Spike Duplicate Analyses

A soil matrix spike and matrix spike duplicate analysis for the BNA fraction was performed using sample B00YR1. The water matrix spike and matrix spike duplicate analysis for the BNA fraction was performed using sample B00YR5. Recoveries and reproducibility were good in both matrix spike and matrix spike duplicate analyses.

Case Narrative Authorized by: Amy M Sequeira date 08/20/91

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR1

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7890

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD9CLP7890

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 17 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	800	U
111-44-4	bis(2-Chloroethyl)Ether	800	U
95-57-8	2-Chlorophenol	800	U
541-73-1	1,3-Dichlorobenzene	800	U
106-46-7	1,4-Dichlorobenzene	800	U
100-51-6	Benzyl Alcohol	800	U
95-50-1	1,2-Dichlorobenzene	800	U
95-48-7	2-Methylphenol	800	U
39638-32-9	bis(2-Chloroisopropyl)Ether	800	U
106-44-5	4-Methylphenol	800	U
621-64-7	N-Nitroso-Di-n-Propylamine	800	U
67-72-1	Hexachloroethane	800	U
98-95-3	Nitrobenzene	800	U
78-59-1	Isophorone	800	U
88-75-5	2-Nitrophenol	800	U
105-67-9	2,4-Dimethylphenol	800	U
65-85-0	Benzoic Acid	3900	U
111-91-1	bis(2-Chloroethoxy)Methane	800	U
120-83-2	2,4-Dichlorophenol	800	U
120-82-1	1,2,4-Trichlorobenzene	800	U
91-20-3	Naphthalene	800	U
106-47-8	4-Chloroaniline	800	U
87-68-3	Hexachlorobutadiene	800	U
59-50-7	4-Chloro-3-Methylphenol	800	U
91-57-6	2-Methylnaphthalene	800	U
77-47-4	Hexachlorocyclopentadiene	800	U
88-06-2	2,4,6-Trichlorophenol	800	U
95-95-4	2,4,5-Trichlorophenol	3900	U
91-58-7	2-Chloronaphthalene	800	U
88-74-4	2-Nitroaniline	3900	U
131-11-3	Dimethyl Phthalate	800	U
208-96-8	Acenaphthylene	800	U
606-20-2	2,6-Dinitrotoluene	800	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR1

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7890

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD9CLP7890

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 17 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	800	U
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	U
132-64-9	Dibenzofuran	800	U
121-14-2	2,4-Dinitrotoluene	800	U
84-66-2	Diethylphthalate	800	U
7005-72-3	4-Chlorophenyl-phenylether	800	U
86-73-7	Fluorene	800	U
100-10-6	4-Nitroaniline	3900	U
534-52-1	4,6-Dinitro-2-Methylphenol	3900	U
86-30-6	N-Nitrosodiphenylamine (1)	800	U
101-55-3	4-Bromophenyl-phenylether	800	U
118-74-1	Hexachlorobenzene	800	U
87-86-5	Pentachlorophenol	3900	U
85-01-8	Phenanthrene	800	U
120-12-7	Anthracene	800	U
84-74-2	Di-n-Butylphthalate	800	U
206-44-0	Fluoranthene	800	U
129-00-0	Pyrene	800	U
85-68-7	Butylbenzylphthalate	230	J
91-94-1	3,3'-Dichlorobenzidine	1600	U
56-55-3	Benzo(a)Anthracene	800	U
218-01-9	Chrysene	800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	560	J
117-84-0	Di-n-Octyl Phthalate	800	U
205-99-2	Benzo(b)Fluoranthene	800	U
207-08-9	Benzo(k)Fluoranthene	800	U
50-32-8	Benzo(a)Pyrene	800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	800	U
53-70-3	Dibenz(a,h)Anthracene	800	U
191-24-2	Benzo(g,h,i)Perylene	800	U

(1) - Cannot be separated from Diphenylamine

EPA SAMPLE NO.

B00YR1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7890

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD9CLP7890

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 17 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCT	9.14	1500	ABJ
2.	ALDOL CONDENSATION PRODUCT	10.17	1200	ABJ
3.	UNKNOWN CYCLIC ALKANE	11.22	560	J
4.	UNKNOWN OXY HYDROCARBON	11.42	620	J
5.	544-63-8 TETRADECANOIC ACID	22.25	510	J
6.	57-10-3 HEXADECANOIC ACID	24.69	9600	J
7.	UNKNOWN CARBOXY HYDROCARBON	26.61	1200	J
8.	57-11-4 OCTADECANOIC ACID	26.79	3700	J
9.	UNKNOWN OXY HYDROCARBON @C18	30.37	490	J
10.	UNKNOWN @C30 ALKANE	36.01	1900	J
11.	UNKNOWN STEROIDAL TYPE COMPO	42.36	16000	J
12.	UNKNOWN STEROIDAL TYPE COMPO	43.76	14000	J
13.	UNKNOWN OXY HYDROCARBON	48.88	2800	J
14.	UNKNOWN OXY HYDROCARBON	50.21	6000	J

961340-0746 1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR2

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7891

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD8CLP7891

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 22 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	850	U
111-44-4	bis(2-Chloroethyl)Ether	850	U
95-57-8	2-Chlorophenol	850	U
541-73-1	1,3-Dichlorobenzene	850	U
106-46-7	1,4-Dichlorobenzene	850	U
100-51-6	Benzyl Alcohol	850	U
95-50-1	1,2-Dichlorobenzene	850	U
95-48-7	2-Methylphenol	850	U
39638-32-9	bis(2-Chloroisopropyl)Ether	850	U
106-44-5	4-Methylphenol	850	U
621-64-7	N-Nitroso-Di-n-Propylamine	850	U
67-72-1	Hexachloroethane	850	U
98-95-3	Nitrobenzene	850	U
78-59-1	Isophorone	850	U
88-75-5	2-Nitrophenol	850	U
105-67-9	2,4-Dimethylphenol	850	U
65-85-0	Benzoic Acid	4100	U
111-91-1	bis(2-Chloroethoxy)Methane	850	U
120-83-2	2,4-Dichlorophenol	850	U
120-82-1	1,2,4-Trichlorobenzene	850	U
91-20-3	Naphthalene	850	U
106-47-8	4-Chloroaniline	850	U
87-68-3	Hexachlorobutadiene	850	U
59-50-7	4-Chloro-3-Methylphenol	850	U
91-57-6	2-Methylnaphthalene	850	U
77-47-4	Hexachlorocyclopentadiene	850	U
88-06-2	2,4,6-Trichlorophenol	850	U
95-95-4	2,4,5-Trichlorophenol	4100	U
91-58-7	2-Chloronaphthalene	850	U
88-74-4	2-Nitroaniline	4100	U
131-11-3	Dimethyl Phthalate	850	U
208-96-8	Acenaphthylene	850	U
606-20-2	2,6-Dinitrotoluene	850	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR2

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7891

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD8CLP7891

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 22 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	4100	U
83-32-9	Acenaphthene	850	U
51-28-5	2,4-Dinitrophenol	4100	U
100-02-7	4-Nitrophenol	4100	U
132-64-9	Dibenzofuran	850	U
121-14-2	2,4-Dinitrotoluene	850	U
84-66-2	Diethylphthalate	850	U
7005-72-3	4-Chlorophenyl-phenylether	850	U
86-73-7	Fluorene	850	U
100-10-6	4-Nitroaniline	4100	U
534-52-1	4,6-Dinitro-2-Methylphenol	4100	U
86-30-6	N-Nitrosodiphenylamine (1)	850	U
101-55-3	4-Bromophenyl-phenylether	850	U
118-74-1	Hexachlorobenzene	850	U
87-86-5	Pentachlorophenol	4100	U
85-01-8	Phenanthrene	850	U
120-12-7	Anthracene	850	U
84-74-2	Di-n-Butylphthalate	850	U
206-44-0	Fluoranthene	850	U
129-00-0	Pyrene	850	U
85-68-7	Butylbenzylphthalate	210	J
91-94-1	3,3'-Dichlorobenzidine	1700	U
56-55-3	Benzo(a)Anthracene	850	U
218-01-9	Chrysene	850	U
117-81-7	bis(2-Ethylhexyl)Phthalate	460	J
117-84-0	Di-n-Octyl Phthalate	850	U
205-99-2	Benzo(b)Fluoranthene	850	U
207-08-9	Benzo(k)Fluoranthene	850	U
50-32-8	Benzo(a)Pyrene	850	U
193-39-5	Indeno(1,2,3-cd)Pyrene	850	U
53-70-3	Dibenz(a,h)Anthracene	850	U
191-24-2	Benzo(g,h,i)Perylene	850	U

(1) - Cannot be separated from Diphenylamine

EPA SAMPLE NO.

B00YR2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7891

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD8CLP7891

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 22 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	9.29	1400	ABJ
2.		ALDOL CONDENSATION PRODUCT	10.25	1300	ABJ
3.		ALDOL CONDENSATION PRODUCT	11.24	360	ABJ
4.		57-10-3 HEXADECANOIC ACID	24.65	3700	J
5.		UNKNOWN @C21 ALKANE	26.59	590	J
6.		57-11-4 OCTADECANOIC ACID	26.76	1000	J
7.		UNKNOWN OXY HYDROCARBON	34.81	2200	J
8.		UNKNOWN @C30 ALKANE	36.01	1800	J
9.		UNKNOWN STEROIDAL TYPE COMPO	42.33	18000	J
10.		UNKNOWN STEROIDAL TYPE COMPO	43.73	14000	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR3

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7892

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD12CLP7892

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 70 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/18/91

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2200	U
111-44-4	bis(2-Chloroethyl)Ether	2200	U
95-57-8	2-Chlorophenol	2200	U
541-73-1	1,3-Dichlorobenzene	2200	U
106-46-7	1,4-Dichlorobenzene	2200	U
100-51-6	Benzyl Alcohol	2200	U
95-50-1	1,2-Dichlorobenzene	2200	U
95-48-7	2-Methylphenol	2200	U
39638-32-9	bis(2-Chloroisopropyl)Ether	2200	U
106-44-5	4-Methylphenol	1000	J
621-64-7	N-Nitroso-Di-n-Propylamine	2200	U
67-72-1	Hexachloroethane	2200	U
98-95-3	Nitrobenzene	2200	U
78-59-1	Isophorone	2200	U
88-75-5	2-Nitrophenol	2200	U
105-67-9	2,4-Dimethylphenol	2200	U
65-85-0	Benzoic Acid	11000	U
111-91-1	bis(2-Chloroethoxy)Methane	2200	U
120-83-2	2,4-Dichlorophenol	2200	U
120-82-1	1,2,4-Trichlorobenzene	2200	U
91-20-3	Naphthalene	2200	U
106-47-8	4-Chloroaniline	2200	U
87-68-3	Hexachlorobutadiene	2200	U
59-50-7	4-Chloro-3-Methylphenol	2200	U
91-57-6	2-Methylnaphthalene	2200	U
77-47-4	Hexachlorocyclopentadiene	2200	U
88-06-2	2,4,6-Trichlorophenol	2200	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	2200	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethyl Phthalate	2200	U
208-96-8	Acenaphthylene	2200	U
606-20-2	2,6-Dinitrotoluene	2200	U

97

9613404 10750

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR3

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7892

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD12CLP7892

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 70 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/18/91

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	2200	U
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	2200	U
121-14-2	2,4-Dinitrotoluene	2200	U
84-66-2	Diethylphthalate	2200	U
7005-72-3	4-Chlorophenyl-phenylether	2200	U
86-73-7	Fluorene	2200	U
100-10-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-Methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	2200	U
101-55-3	4-Bromophenyl-phenylether	2200	U
118-74-1	Hexachlorobenzene	2200	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	2200	U
120-12-7	Anthracene	2200	U
84-74-2	Di-n-Butylphthalate	2200	U
206-44-0	Fluoranthene	2200	U
129-00-0	Pyrene	2200	U
85-68-7	Butylbenzylphthalate	2200	U
91-94-1	3,3'-Dichlorobenzidine	4300	U
56-55-3	Benzo(a)Anthracene	2200	U
218-01-9	Chrysene	2200	U
117-81-7	bis(2-Ethylhexyl)Phthalate	16000	
117-84-0	Di-n-Octyl Phthalate	2200	U
205-99-2	Benzo(b)Fluoranthene	2200	U
207-08-9	Benzo(k)Fluoranthene	2200	U
50-32-8	Benzo(a)Pyrene	2200	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2200	U
53-70-3	Dibenz(a,h)Anthracene	2200	U
191-24-2	Benzo(g,h,i)Perylene	2200	U

(1) - Cannot be separated from Diphenylamine

98

1F

EPA SAMPLE NO.

B00YR3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7892

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD12CLP7892

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 70 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/18/91

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1.0

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	57-10-3 HEXADECANOIC ACID	24.85	44000	J
2.	UNKNOWN OXY HYDROCARBON	26.79	15000	J
3.	57-11-4 OCTADECANOIC ACID	26.96	61000	J
4.	UNKNOWN STEROIDAL TYPE COMPO	28.04	3900	J
5.	UNKNOWN OXY HYDROCARBON	28.84	3400	J
6.	UNKNOWN OXY HYDROCARBON	28.97	3000	J
7.	UNKNOWN OXY HYDROCARBON	29.11	4800	J
8.	UNKNOWN OXY HYDROCARBON	29.29	5900	J
9.	UNKNOWN OXY HYDROCARBON	29.41	6000	J
10.	UNKNOWN OXY HYDROCARBON	29.61	3600	J
11.	UNKNOWN BICYCLIC HYDROCARBON	30.11	3000	J
12.	UNKNOWN CYCLIC HYDROCARBON	31.69	7600	J
13.	UNKNOWN OXY HYDROCARBON	31.77	2200	J
14.	UNKNOWN @C27 ALKANE	32.02	13000	J
15.	UNKNOWN OXY HYDROCARBON	32.62	4000	J
16.	UNKNOWN BICYCLIC HYDROCARBON	32.81	8800	J
17.	UNKNOWN OXY HYDROCARBON	32.97	8000	J
18.	UNKNOWN HYDROCARBON	33.34	9600	J
19.	UNKNOWN @C29 ALKANE	35.06	13000	J
20.	UNKNOWN OXY HYDROCARBON	35.77	19000	J

9613404 1B752

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLP7893

Sample wt/vol: 800 (g/mL) ML Lab File ID: MW9CLP7893

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/07/91

GPC Cleanup: (Y/N) N pH: 5. Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)Ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl Alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
39638-32-9	bis(2-Chloroisopropyl)Ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-Di-n-Propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic Acid	62	U
111-91-1	bis(2-Chloroethoxy)Methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-Methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	62	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	62	U
131-11-3	Dimethyl Phthalate	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U

136

9613404.0753

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR5

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLP7893

Sample wt/vol: 800 (g/mL) ML Lab File ID: MW9CLP7893

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/07/91

GPC Cleanup: (Y/N) N pH: 5. Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	62	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	62	U
100-02-7	4-Nitrophenol	62	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-10-6	4-Nitroaniline	62	U
534-52-1	4,6-Dinitro-2-Methylphenol	62	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	62	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-Butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)Anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)Phthalate	12	U
117-84-0	Di-n-Octyl Phthalate	12	U
205-99-2	Benzo(b)Fluoranthene	12	U
207-08-9	Benzo(k)Fluoranthene	12	U
50-32-8	Benzo(a)Pyrene	12	U
193-39-5	Indeno(1,2,3-cd)Pyrene	12	U
53-70-3	Dibenz(a,h)Anthracene	12	U
191-24-2	Benzo(g,h,i)Perylene	12	U

(1) - Cannot be separated from Diphenylamine

9613404 LR 0754

EPA SAMPLE NO.

B00YR5

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLP7893

Sample wt/vol: 800 (g/mL) ML Lab File ID: MW9CLP7893

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/07/91

GPC Cleanup: (Y/N) N pH: 5. Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613404.0755

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR6

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLP7894

Sample wt/vol: 800 (g/mL) ML Lab File ID: MW8CLP7894

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/07/91

GPC Cleanup: (Y/N) N pH: 5. Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)Ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl Alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
39638-32-9	bis(2-Chloroisopropyl)Ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-Di-n-Propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic Acid	62	U
111-91-1	bis(2-Chloroethoxy)Methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-Methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	62	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	62	U
131-11-3	Dimethyl Phthalate	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U

9613404.0256

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR6

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLP7894

Sample wt/vol: 800 (g/mL) ML Lab File ID: MW8CLP7894

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/07/91

GPC Cleanup: (Y/N) N pH: 5. Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	62	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	62	U
100-02-7	4-Nitrophenol	62	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-10-6	4-Nitroaniline	62	U
534-52-1	4,6-Dinitro-2-Methylphenol	62	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	62	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-Butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)Anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)Phthalate	12	U
117-84-0	Di-n-Octyl Phthalate	12	U
205-99-2	Benzo(b)Fluoranthene	12	U
207-08-9	Benzo(k)Fluoranthene	12	U
50-32-8	Benzo(a)Pyrene	12	U
193-39-5	Indeno(1,2,3-cd)Pyrene	12	U
53-70-3	Dibenz(a,h)Anthracene	12	U
191-24-2	Benzo(g,h,i)Perylene	12	U

(1) - Cannot be separated from Diphenylamine

9613404 0757

1F

EPA SAMPLE NO.

B00YR6

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLP7894

Sample wt/vol: 800 (g/mL) ML Lab File ID: MW8CLP7894

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/07/91

GPC Cleanup: (Y/N) N pH: 5. Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613404 1B 0758

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7895

Sample wt/vol: 30.0 (g/mL) G Lab File ID: MC11CLP7896

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 54 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/20/91

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1400	U
111-44-4	bis(2-Chloroethyl)Ether	1400	U
95-57-8	2-Chlorophenol	1400	U
541-73-1	1,3-Dichlorobenzene	1400	U
106-46-7	1,4-Dichlorobenzene	1400	U
100-51-6	Benzyl Alcohol	1400	U
95-50-1	1,2-Dichlorobenzene	1400	U
95-48-7	2-Methylphenol	1400	U
39638-32-9	bis(2-Chloroisopropyl)Ether	1400	U
106-44-5	4-Methylphenol	1400	U
621-64-7	N-Nitroso-Di-n-Propylamine	1400	U
67-72-1	Hexachloroethane	1400	U
98-95-3	Nitrobenzene	1400	U
78-59-1	Isophorone	1400	U
88-75-5	2-Nitrophenol	1400	U
105-67-9	2,4-Dimethylphenol	1400	U
65-85-0	Benzoic Acid	7000	U
111-91-1	bis(2-Chloroethoxy)Methane	1400	U
120-83-2	2,4-Dichlorophenol	1400	U
120-82-1	1,2,4-Trichlorobenzene	1400	U
91-20-3	Naphthalene	1400	U
106-47-8	4-Chloroaniline	6300	
87-68-3	Hexachlorobutadiene	1400	U
59-50-7	4-Chloro-3-Methylphenol	1400	U
91-57-6	2-Methylnaphthalene	1400	U
77-47-4	Hexachlorocyclopentadiene	1400	U
88-06-2	2,4,6-Trichlorophenol	1400	U
95-95-4	2,4,5-Trichlorophenol	7000	U
91-58-7	2-Chloronaphthalene	1400	U
88-74-4	2-Nitroaniline	7000	U
131-11-3	Dimethyl Phthalate	1400	U
208-96-8	Acenaphthylene	1400	U
606-20-2	2,6-Dinitrotoluene	1400	U

9613404 0759

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7895

Sample wt/vol: 30.0 (g/mL) G Lab File ID: MC11CLP7896

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 54 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/20/91

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	7000	U
83-32-9	Acenaphthene	1400	U
51-28-5	2,4-Dinitrophenol	7000	U
100-02-7	4-Nitrophenol	7000	U
132-64-9	Dibenzofuran	1400	U
121-14-2	2,4-Dinitrotoluene	1400	U
84-66-2	Diethylphthalate	1400	U
7005-72-3	4-Chlorophenyl-phenylether	1400	U
86-73-7	Fluorene	1400	U
100-10-6	4-Nitroaniline	7000	U
534-52-1	4,6-Dinitro-2-Methylphenol	7000	U
86-30-6	N-Nitrosodiphenylamine (1)	1400	U
101-55-3	4-Bromophenyl-phenylether	1400	U
118-74-1	Hexachlorobenzene	1400	U
87-86-5	Pentachlorophenol	7000	U
85-01-8	Phenanthrene	1400	U
120-12-7	Anthracene	1400	U
84-74-2	Di-n-Butylphthalate	1400	U
206-44-0	Fluoranthene	1400	U
129-00-0	Pyrene	1400	U
85-68-7	Butylbenzylphthalate	1400	U
91-94-1	3,3'-Dichlorobenzidine	2800	U
56-55-3	Benzo(a)Anthracene	1400	U
218-01-9	Chrysene	1400	U
117-81-7	bis(2-Ethylhexyl)Phthalate	34000	E
117-84-0	Di-n-Octyl Phthalate	1400	U
205-99-2	Benzo(b)Fluoranthene	1400	U
207-08-9	Benzo(k)Fluoranthene	1400	U
50-32-8	Benzo(a)Pyrene	1400	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1400	U
53-70-3	Dibenz(a,h)Anthracene	1400	U
191-24-2	Benzo(g,h,i)Perylene	1400	U

(1) - Cannot be separated from Diphenylamine

9613404.0760

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00YR8

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7895

Sample wt/vol: 30.0 (g/mL) G Lab File ID: MC11CLP7896

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 54 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/20/91

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	57-10-3 HEXADECANOIC ACID	24.34	83000	J
2.	57-11-4 OCTADECANOIC ACID	26.37	160000	J
3.	UNKNOWN OXY HYDROCARBON	28.22	6600	J
4.	UNKNOWN CYCLIC ALKANE	28.74	7700	J
5.	UNKNOWN BICYCLIC HYDROCARBON	28.82	2500	J
6.	UNKNOWN CYCLIC HYDROCARBON	29.01	6700	J
7.	UNKNOWN OXY HYDROCARBON	29.14	3900	J
8.	UNKNOWN CYCLIC HYDROCARBON	29.16	4500	J
9.	UNKNOWN OXY HYDROCARBON	29.29	5500	J
10.	UNKNOWN OXY HYDROCARBON	29.46	12000	J
11.	UNKNOWN OXY HYDROCARBON	29.59	14000	J
12.	UNKNOWN OXY HYDROCARBON	29.72	16000	J
13.	UNKNOWN OXY HYDROCARBON	30.17	13000	J
14.	UNKNOWN OXY HYDROCARBON	30.16	12000	J
15.	UNKNOWN OXY HYDROCARBON	30.32	8400	J
16.	UNKNOWN OXY HYDROCARBON	30.49	13000	J
17.	UNKNOWN OXY HYDROCARBON	30.64	13000	J
18.	UNKNOWN CYCLIC HYDROCARBON	30.71	7900	J
19.	UNKNOWN OXY HYDROCARBON	30.84	19000	J
20.	UNKNOWN OXY HYDROCARBON	38.59	210000	J

9613404.0361

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR8DL

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7896DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RL5CLP7896D

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 54 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/23/91

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2900	U
111-44-4	bis(2-Chloroethyl)Ether	2900	U
95-57-8	2-Chlorophenol	2900	U
541-73-1	1,3-Dichlorobenzene	2900	U
106-46-7	1,4-Dichlorobenzene	2900	U
100-51-6	Benzyl Alcohol	2900	U
95-50-1	1,2-Dichlorobenzene	2900	U
95-48-7	2-Methylphenol	2900	U
39638-32-9	bis(2-Chloroisopropyl)Ether	2900	U
106-44-5	4-Methylphenol	2900	U
621-64-7	N-Nitroso-Di-n-Propylamine	2900	U
67-72-1	Hexachloroethane	2900	U
98-95-3	Nitrobenzene	2900	U
78-59-1	Isophorone	2900	U
88-75-5	2-Nitrophenol	2900	U
105-67-9	2,4-Dimethylphenol	2900	U
65-85-0	Benzoic Acid	14000	U
111-91-1	bis(2-Chloroethoxy)Methane	2900	U
120-83-2	2,4-Dichlorophenol	2900	U
120-82-1	1,2,4-Trichlorobenzene	2900	U
91-20-3	Naphthalene	2900	U
106-47-8	4-Chloroaniline	2900	U
87-68-3	Hexachlorobutadiene	2900	U
59-50-7	4-Chloro-3-Methylphenol	2900	U
91-57-6	2-Methylnaphthalene	2900	U
77-47-4	Hexachlorocyclopentadiene	2900	U
88-06-2	2,4,6-Trichlorophenol	2900	U
95-95-4	2,4,5-Trichlorophenol	14000	U
91-58-7	2-Chloronaphthalene	2900	U
88-74-4	2-Nitroaniline	14000	U
131-11-3	Dimethyl Phthalate	2900	U
208-96-8	Acenaphthylene	2900	U
606-20-2	2,6-Dinitrotoluene	2900	U

203

9613404.0262

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR8DL

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7896DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RL5CLP7896D

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 54 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/23/91

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	14000	U
83-32-9	Acenaphthene	2900	U
51-28-5	2,4-Dinitrophenol	14000	U
100-02-7	4-Nitrophenol	14000	U
132-64-9	Dibenzofuran	2900	U
121-14-2	2,4-Dinitrotoluene	2900	U
84-66-2	Diethylphthalate	2900	U
7005-72-3	4-Chlorophenyl-phenylether	2900	U
86-73-7	Fluorene	2900	U
100-10-6	4-Nitroaniline	14000	U
534-52-1	4,6-Dinitro-2-Methylphenol	14000	U
86-30-6	N-Nitrosodiphenylamine (1)	2900	U
101-55-3	4-Bromophenyl-phenylether	2900	U
118-74-1	Hexachlorobenzene	2900	U
87-86-5	Pentachlorophenol	14000	U
85-01-8	Phenanthrene	2900	U
120-12-7	Anthracene	2900	U
84-74-2	Di-n-Butylphthalate	2900	U
206-44-0	Fluoranthene	2900	U
129-00-0	Pyrene	2900	U
85-68-7	Butylbenzylphthalate	2900	U
91-94-1	3,3'-Dichlorobenzidine	5700	U
56-55-3	Benzo(a)Anthracene	2900	U
218-01-9	Chrysene	2900	U
117-81-7	bis(2-Ethylhexyl)Phthalate	33000	D
117-84-0	Di-n-Octyl Phthalate	2900	U
205-99-2	Benzo(b)Fluoranthene	2900	U
207-08-9	Benzo(k)Fluoranthene	2900	U
50-32-8	Benzo(a)Pyrene	2900	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2900	U
53-70-3	Dibenz(a,h)Anthracene	2900	U
191-24-2	Benzo(g,h,i)Perylene	2900	U

(1) - Cannot be separated from Diphenylamine

204

9613404 1763

EPA SAMPLE NO.

B00YR8DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7896DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RL5CLP7896D

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 54 dec. _____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/23/91

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 2.0

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCT	9.97	3300	J
2.	UNKNOWN OXY HYDROCARBON	27.12	11000	J
3.	UNKNOWN OXY HYDROCARBON	27.57	2000	J
4.	UNKNOWN OXY HYDROCARBON	28.51	2600	J
5. 117-81-7	1,2-BENZENEDICARBOXYLIC ACID	31.24	57000	J
6.	UNKNOWN STEROIDAL TYPE COMPO	33.21	8200	J
7.	UNKNOWN STEROIDAL TYPE COMPO	33.76	4700	J
8.	UNKNOWN STEROIDAL TYPE COMPO	35.69	5700	J
9.	UNKNOWN OXY HYDROCARBON	37.51	4200	J
10.	UNKNOWN OXY HYDROCARBON	40.29	8300	J
11.	UNKNOWN PNA	42.81	22000	J
12.	UNKNOWN STEROIDAL TYPE COMPO	43.31	140000	J
13.	UNKNOWN STEROIDAL TYPE COMPO	44.73	100000	J
14.	UNKNOWN PNA	45.88	54000	J
15.	UNKNOWN HYDROCARBON	49.96	42000	J
16.	UNKNOWN HYDROCARBON	50.49	32000	J

9613404.0364

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLPBK0708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: MC9BK0708

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/20/91

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	660	U
111-44-4	bis(2-Chloroethyl)Ether	660	U
95-57-8	2-Chlorophenol	660	U
541-73-1	1,3-Dichlorobenzene	660	U
106-46-7	1,4-Dichlorobenzene	660	U
100-51-6	Benzyl Alcohol	660	U
95-50-1	1,2-Dichlorobenzene	660	U
95-48-7	2-Methylphenol	660	U
39638-32-9	bis(2-Chloroisopropyl)Ether	660	U
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-Di-n-Propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
65-85-0	Benzoic Acid	3200	U
111-91-1	bis(2-Chloroethoxy)Methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
120-82-1	1,2,4-Trichlorobenzene	660	U
91-20-3	Naphthalene	660	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
59-50-7	4-Chloro-3-Methylphenol	660	U
91-57-6	2-Methylnaphthalene	660	U
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	3200	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	3200	U
131-11-3	Dimethyl Phthalate	660	U
208-96-8	Acenaphthylene	660	U
606-20-2	2,6-Dinitrotoluene	660	U

629

9613404.0765

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLPBK0708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: MC9BK0708

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/20/91

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3200	U
83-32-9	Acenaphthene	660	U
51-28-5	2,4-Dinitrophenol	3200	U
100-02-7	4-Nitrophenol	3200	U
132-64-9	Dibenzofuran	660	U
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	660	U
7005-72-3	4-Chlorophenyl-phenylether	660	U
86-73-7	Fluorene	660	U
100-10-6	4-Nitroaniline	3200	U
534-52-1	4,6-Dinitro-2-Methylphenol	3200	U
86-30-6	N-Nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
87-86-5	Pentachlorophenol	3200	U
85-01-8	Phenanthrene	660	U
120-12-7	Anthracene	660	U
84-74-2	Di-n-Butylphthalate	660	U
206-44-0	Fluoranthene	660	U
129-00-0	Pyrene	660	U
85-68-7	Butylbenzylphthalate	660	U
91-94-1	3,3'-Dichlorobenzidine	1300	U
56-55-3	Benzo(a)Anthracene	660	U
218-01-9	Chrysene	660	U
117-81-7	bis(2-Ethylhexyl)Phthalate	660	U
117-84-0	Di-n-Octyl Phthalate	660	U
205-99-2	Benzo(b)Fluoranthene	660	U
207-08-9	Benzo(k)Fluoranthene	660	U
50-32-8	Benzo(a)Pyrene	660	U
193-39-5	Indeno(1,2,3-cd)Pyrene	660	U
53-70-3	Dibenz(a,h)Anthracene	660	U
191-24-2	Benzo(g,h,i)Perylene	660	U

(1) - Cannot be separated from Diphenylamine

630

9613404 1F 0766

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK02

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLPBK0708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: MC9BK0708

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/20/91

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCT	9.77	1600	AJ
2.	ALDOL CONDENSATION PRODUCT	9.97	400	AJ

9613404.8767

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLPBK0703

Sample wt/vol: 800 (g/mL) ML Lab File ID: MU5BK0703

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ dec. _____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/06/91

GPC Cleanup: (Y/N) N pH: 5. Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)Ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl Alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
39638-32-9	bis(2-Chloroisopropyl)Ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-Di-n-Propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic Acid	62	U
111-91-1	bis(2-Chloroethoxy)Methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-Methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	62	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	62	U
131-11-3	Dimethyl Phthalate	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U

647

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLPBK0703

Sample wt/vol: 800 (g/mL) ML Lab File ID: MU5BK0703

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/06/91

GPC Cleanup: (Y/N) N pH: 5. Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	62	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	62	U
100-02-7	4-Nitrophenol	62	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-10-6	4-Nitroaniline	62	U
534-52-1	4,6-Dinitro-2-Methylphenol	62	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	62	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-Butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)Anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)Phthalate	12	U
117-84-0	Di-n-Octyl Phthalate	12	U
205-99-2	Benzo(b)Fluoranthene	12	U
207-08-9	Benzo(k)Fluoranthene	12	U
50-32-8	Benzo(a)Pyrene	12	U
193-39-5	Indeno(1,2,3-cd)Pyrene	12	U
53-70-3	Dibenz(a,h)Anthracene	12	U
191-24-2	Benzo(g,h,i)Perylene	12	U

(1) - Cannot be separated from Diphenylamine

9613404F0769

EPA SAMPLE NO.

SBLK03

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLPBK0703

Sample wt/vol: 800 (g/mL) ML Lab File ID: MU5BK0703

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/06/91

GPC Cleanup: (Y/N) N pH: 5. Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

649

9613404.9720

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR1MS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7890MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD10CLP90MS

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 17 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/18/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	800	U
111-44-4	bis(2-Chloroethyl)Ether	800	U
95-57-8	2-Chlorophenol	800	U
541-73-1	1,3-Dichlorobenzene	800	U
106-46-7	1,4-Dichlorobenzene	800	U
100-51-6	Benzyl Alcohol	800	U
95-50-1	1,2-Dichlorobenzene	800	U
95-48-7	2-Methylphenol	800	U
39638-32-9	bis(2-Chloroisopropyl)Ether	800	U
106-44-5	4-Methylphenol	800	U
621-64-7	N-Nitroso-Di-n-Propylamine	800	U
67-72-1	Hexachloroethane	800	U
98-95-3	Nitrobenzene	800	U
78-59-1	Isophorone	800	U
88-75-5	2-Nitrophenol	800	U
105-67-9	2,4-Dimethylphenol	800	U
65-85-0	Benzoic Acid	3900	U
111-91-1	bis(2-Chloroethoxy)Methane	800	U
120-83-2	2,4-Dichlorophenol	800	U
120-82-1	1,2,4-Trichlorobenzene	800	U
91-20-3	Naphthalene	800	U
106-47-8	4-Chloroaniline	800	U
87-68-3	Hexachlorobutadiene	800	U
59-50-7	4-Chloro-3-Methylphenol	800	U
91-57-6	2-Methylnaphthalene	800	U
77-47-4	Hexachlorocyclopentadiene	800	U
88-06-2	2,4,6-Trichlorophenol	800	U
95-95-4	2,4,5-Trichlorophenol	3900	U
91-58-7	2-Chloronaphthalene	800	U
88-74-4	2-Nitroaniline	3900	U
131-11-3	Dimethyl Phthalate	800	U
208-96-8	Acenaphthylene	800	U
606-20-2	2,6-Dinitrotoluene	800	U

653

9613404 0771

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR1MS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7890MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD10CLP90MS

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 17 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/18/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	800	U
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	U
132-64-9	Dibenzofuran	800	U
121-14-2	2,4-Dinitrotoluene	800	U
84-66-2	Diethylphthalate	800	U
7005-72-3	4-Chlorophenyl-phenylether	800	U
86-73-7	Fluorene	800	U
100-10-6	4-Nitroaniline	3900	U
534-52-1	4,6-Dinitro-2-Methylphenol	3900	U
86-30-6	N-Nitrosodiphenylamine (1)	800	U
101-55-3	4-Bromophenyl-phenylether	800	U
118-74-1	Hexachlorobenzene	800	U
87-86-5	Pentachlorophenol	3900	U
85-01-8	Phenanthrene	800	U
120-12-7	Anthracene	800	U
84-74-2	Di-n-Butylphthalate	800	U
206-44-0	Fluoranthene	800	U
129-00-0	Pyrene	800	U
85-68-7	Butylbenzylphthalate	800	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
56-55-3	Benzo(a)Anthracene	800	U
218-01-9	Chrysene	800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	450	J
117-84-0	Di-n-Octyl Phthalate	800	U
205-99-2	Benzo(b)Fluoranthene	800	U
207-08-9	Benzo(k)Fluoranthene	800	U
50-32-8	Benzo(a)Pyrene	800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	800	U
53-70-3	Dibenz(a,h)Anthracene	800	U
191-24-2	Benzo(g,h,i)Perylene	800	U

(1) - Cannot be separated from Diphenylamine

654

9613404.0872

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR5MS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLP7893MS

Sample wt/vol: 800 (g/mL) ML Lab File ID: MW10CLP93MS

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/07/91

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)Ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl Alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
39638-32-9	bis(2-Chloroisopropyl)Ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-Di-n-Propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic Acid	62	U
111-91-1	bis(2-Chloroethoxy)Methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-Methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	62	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	62	U
131-11-3	Dimethyl Phthalate	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U

675

9613404 1C 1923

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR5MS

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLP7893MS

Sample wt/vol: 800 (g/mL) ML Lab File ID: MW10CLP93MS

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/07/91

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	62	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	62	U
100-02-7	4-Nitrophenol	62	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-10-6	4-Nitroaniline	62	U
534-52-1	4,6-Dinitro-2-Methylphenol	62	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	62	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-Butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)Anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)Phthalate	12	U
117-84-0	Di-n-Octyl Phthalate	12	U
205-99-2	Benzo(b)Fluoranthene	12	U
207-08-9	Benzo(k)Fluoranthene	12	U
50-32-8	Benzo(a)Pyrene	12	U
193-39-5	Indeno(1,2,3-cd)Pyrene	12	U
53-70-3	Dibenz(a,h)Anthracene	12	U
191-24-2	Benzo(g,h,i)Perylene	12	U

(1) - Cannot be separated from Diphenylamine

677

9613404.0774

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR1MSD

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7890MSD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD11CLP90MD

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 17 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/18/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	800	U
111-44-4	bis(2-Chloroethyl)Ether	800	U
95-57-8	2-Chlorophenol	800	U
541-73-1	1,3-Dichlorobenzene	800	U
106-46-7	1,4-Dichlorobenzene	800	U
100-51-6	Benzyl Alcohol	800	U
95-50-1	1,2-Dichlorobenzene	800	U
95-48-7	2-Methylphenol	800	U
39638-32-9	bis(2-Chloroisopropyl)Ether	800	U
106-44-5	4-Methylphenol	800	U
621-64-7	N-Nitroso-Di-n-Propylamine	800	U
67-72-1	Hexachloroethane	800	U
98-95-3	Nitrobenzene	800	U
78-59-1	Isophorone	800	U
88-75-5	2-Nitrophenol	800	U
105-67-9	2,4-Dimethylphenol	800	U
65-85-0	Benzoic Acid	3900	U
111-91-1	bis(2-Chloroethoxy)Methane	800	U
120-83-2	2,4-Dichlorophenol	800	U
120-82-1	1,2,4-Trichlorobenzene	800	U
91-20-3	Naphthalene	800	U
106-47-8	4-Chloroaniline	800	U
87-68-3	Hexachlorobutadiene	800	U
59-50-7	4-Chloro-3-Methylphenol	800	U
91-57-6	2-Methylnaphthalene	800	U
77-47-4	Hexachlorocyclopentadiene	800	U
88-06-2	2,4,6-Trichlorophenol	800	U
95-95-4	2,4,5-Trichlorophenol	3900	U
91-58-7	2-Chloronaphthalene	800	U
88-74-4	2-Nitroaniline	3900	U
131-11-3	Dimethyl Phthalate	800	U
208-96-8	Acenaphthylene	800	U
606-20-2	2,6-Dinitrotoluene	800	U

690

9613404c8775

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR1MSD

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7890MSD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: RD11CLP90MD

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 17 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/18/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	800	U
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	U
132-64-9	Dibenzofuran	800	U
121-14-2	2,4-Dinitrotoluene	800	U
84-66-2	Diethylphthalate	800	U
7005-72-3	4-Chlorophenyl-phenylether	800	U
86-73-7	Fluorene	800	U
100-10-6	4-Nitroaniline	3900	U
534-52-1	4,6-Dinitro-2-Methylphenol	3900	U
86-30-6	N-Nitrosodiphenylamine (1)	800	U
101-55-3	4-Bromophenyl-phenylether	800	U
118-74-1	Hexachlorobenzene	800	U
87-86-5	Pentachlorophenol	3900	U
85-01-8	Phenanthrene	800	U
120-12-7	Anthracene	800	U
84-74-2	Di-n-Butylphthalate	800	U
206-44-0	Fluoranthene	800	U
129-00-0	Pyrene	800	U
85-68-7	Butylbenzylphthalate	800	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
56-55-3	Benzo(a)Anthracene	800	U
218-01-9	Chrysene	800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	270	J
117-84-0	Di-n-Octyl Phthalate	800	U
205-99-2	Benzo(b)Fluoranthene	800	U
207-08-9	Benzo(k)Fluoranthene	800	U
50-32-8	Benzo(a)Pyrene	800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	800	U
53-70-3	Dibenz(a,h)Anthracene	800	U
191-24-2	Benzo(g,h,i)Perylene	800	U

(1) - Cannot be separated from Diphenylamine

691

9613404 0776

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR5MSD

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLP7893MSD

Sample wt/vol: 800 (g/mL) ML Lab File ID: MW12CLP93MD

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/07/91

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)Ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl Alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
39638-32-9	bis(2-Chloroisopropyl)Ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-Di-n-Propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic Acid	62	U
111-91-1	bis(2-Chloroethoxy)Methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-Methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	62	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	62	U
131-11-3	Dimethyl Phthalate	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U

9613404.0777

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00YR5MSD

Lab Name: DATACHEM LABS Contract: _____

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCS15

Matrix: (soil/water) WATER Lab Sample ID: CLP7893MSD

Sample wt/vol: 800 (g/mL) ML Lab File ID: MW12CLP93MD

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/07/91

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	62	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	62	U
100-02-7	4-Nitrophenol	62	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-10-6	4-Nitroaniline	62	U
534-52-1	4,6-Dinitro-2-Methylphenol	62	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	62	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-Butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)Anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)Phthalate	12	U
117-84-0	Di-n-Octyl Phthalate	12	U
205-99-2	Benzo(b)Fluoranthene	12	U
207-08-9	Benzo(k)Fluoranthene	12	U
50-32-8	Benzo(a)Pyrene	12	U
193-39-5	Indeno(1,2,3-cd)Pyrene	12	U
53-70-3	Dibenz(a,h)Anthracene	12	U
191-24-2	Benzo(g,h,i)Perylene	12	U

(1) - Cannot be separated from Diphenylamine

794

9613404.0778

OCT 1991
RECEIVED
DATA RECEIPT

CASE NARRATIVE
PESTICIDE/PCB ANALYSIS

CASE NO: WHC15
SAS NO:
SDG: WHCP15
SAMPLE No.(s) for Pesticide/PCB analysis:
BOOYR1, BOOYR2, BOOYR3, BOOYR3MS, BOOYR3MSD,
BOOYR5, BOOYR6, BOOYR6MS, BOOYR6MSD, BOOYR8.

EPA-CLP CONTRACT NO.: Not Applicable
DATACHEM LABORATORIES

I certify that this data package is in compliance with the terms and conditions of the contract both technically and for completeness except for the conditions detailed below. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the laboratory manager or his designee and verified by the following signature.

10-1-91
Jose Danino Ph.D.,Section Manager

I. 1. WHC15 DataChem Laboratories received four soil samples and three water samples for WHC15 which were assigned sample delivery group WCHP15. DataChem Laboratories expects to be paid for all analyses performed on the Pesticide/PCB samples listed above.

2. Pesticide/PCB Analysis The Westinghouse Hanford Pesticide/PCB analysis was contracted to be analyzed and reported according to the 2/88 EPA-CLP statement of work. All of the contract requirements for standardization for the primary column were met with the exception of Endrin. During the course of analysis, the soil samples caused a dramatic decrease in Endrin breakdown. Therefore, RSD for Endrin was above 15% for standard mixes run after the soil samples. Endrin breakdown was calculated using peak height. Surrogate recoveries for DBC were high for several of the soil samples. This is attributed to interfering compounds in the sample matrix. During the confirmation analysis, an individual standard mix that did not contain alpha-BHC, Endrin, or DDE, was inadvertently used. DDE and Endrin retention time windows were established using the peaks found in the primary Evaluation B standard. The retention time window for alpha-BHC could not be obtained. Nevertheless, none of the samples needing alpha-BHC confirmation contained peaks between the solvent front and beta-BHC,

thus confirming the absence of this compound. The injections named ZZZZZ are not required for the deliverables package.

3. Matrix Spike and Matrix Spike Duplicate Analyses
The matrix spike and matrix spike duplicate analyses were performed on BOOYR3 and BOOYR6. Spike recoveries for DDT for BOOYR3 were high due to matrix effects.

4. Pesticide Abbreviations The abbreviations used by the computer summarized below:

Ald= Aldrin
Endr= Endrin
Toxaph= Toxaphene
Hepox= Heptachlor Epoxide
Endo1= Endosulfan I
Endo2= Endosulfan II
EndAld= Endrin Aldehyde
G-Chl= Gamma Chlordane
A-Chl= Alpha Chlordane
En.Su.= Endosulfan Sulfate
En.Ke.= Endrin Ketone
DBC= Dibutylchlorendate
Methx= Methoxychlor
Hept= Heptachlor
G-BHC= Gamma BHC
A-BHC= Alpha BHC
B-BHC= Beta BHC
D-BHC= Delta BHC
Dield= Dieldrin

9613404.0280

1P

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR1

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7890

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 16 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	38	U
72-55-9	4,4'-DDE	38	U
72-20-8	Endrin	38	U
33213-65-9	Endosulfan II	38	U
72-54-8	4,4'-DDD	38	U
1031-07-8	Endosulfan sulfate	38	U
50-29-3	4,4'-DDT	38	U
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	38	U
5103-71-9	alpha-Chlordane	190	U
5103-74-2	gamma-Chlordane	190	U
8001-35-2	Toxaphene	380	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	380	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR2

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7891

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 21 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	41	U
72-55-9	4,4'-DDE	41	U
72-20-8	Endrin	41	U
33213-65-9	Endosulfan II	41	U
72-54-8	4,4'-DDD	41	U
1031-07-8	Endosulfan sulfate	41	U
50-29-3	4,4'-DDT	41	U
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	41	U
5103-71-9	alpha-Chlordane	200	U
5103-74-2	gamma-Chlordane	200	U
8001-35-2	Toxaphene	410	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	410	U
11096-82-5	Aroclor-1260	410	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR3

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7892

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 70 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	53	U
319-85-7	beta-BHC	53	U
319-86-8	delta-BHC	53	U
58-89-9	gamma-BHC (Lindane)	53	U
76-44-8	Heptachlor	53	U
309-00-2	Aldrin	53	U
1024-57-3	Heptachlor epoxide	53	U
959-98-8	Endosulfan I	53	U
60-57-1	Dieldrin	110	U
72-55-9	4,4'-DDE	81	J
72-20-8	Endrin	110	U
33213-65-9	Endosulfan II	110	U
72-54-8	4,4'-DDD	110	U
1031-07-8	Endosulfan sulfate	110	U
50-29-3	4,4'-DDT	110	U
72-43-5	Methoxychlor	530	U
53494-70-5	Endrin ketone	110	U
5103-71-9	alpha-Chlordane	530	U
5103-74-2	gamma-Chlordane	530	U
8001-35-2	Toxaphene	1100	U
12674-11-2	Aroclor-1016	530	U
11104-28-2	Aroclor-1221	530	U
11141-16-5	Aroclor-1232	530	U
53469-21-9	Aroclor-1242	530	U
12672-29-6	Aroclor-1248	530	U
11097-69-1	Aroclor-1254	1100	U
11096-82-5	Aroclor-1260	1100	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR5

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) WATER Lab Sample ID: CLP7893

Sample wt/vol: 800 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.063	U
319-85-7	beta-BHC	0.063	U
319-86-8	delta-BHC	0.063	U
58-89-9	gamma-BHC (Lindane)	0.063	U
76-44-8	Heptachlor	0.063	U
309-00-2	Aldrin	0.063	U
1024-57-3	Heptachlor epoxide	0.063	U
959-98-8	Endosulfan I	0.063	U
60-57-1	Dieldrin	0.13	U
72-55-9	4,4'-DDE	0.13	U
72-20-8	Endrin	0.13	U
33213-65-9	Endosulfan II	0.13	U
72-54-8	4,4'-DDD	0.13	U
1031-07-8	Endosulfan sulfate	0.13	U
50-29-3	4,4'-DDT	0.13	U
72-43-5	Methoxychlor	0.63	U
53494-70-5	Endrin ketone	0.13	U
5103-71-9	alpha-Chlordane	0.63	U
5103-74-2	gamma-Chlordane	0.63	U
8001-35-2	Toxaphene	1.3	U
12674-11-2	Aroclor-1016	0.63	U
11104-28-2	Aroclor-1221	0.63	U
11141-16-5	Aroclor-1232	0.63	U
53469-21-9	Aroclor-1242	0.63	U
12672-29-6	Aroclor-1248	0.63	U
11097-69-1	Aroclor-1254	1.3	U
11096-82-5	Aroclor-1260	1.3	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR6

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) WATER Lab Sample ID: CLP7894

Sample wt/vol: 800 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.063	U
319-85-7	beta-BHC	0.063	U
319-86-8	delta-BHC	0.063	U
58-89-9	gamma-BHC (Lindane)	0.063	U
76-44-8	Heptachlor	0.063	U
309-00-2	Aldrin	0.063	U
1024-57-3	Heptachlor epoxide	0.063	U
959-98-8	Endosulfan I	0.063	U
60-57-1	Dieldrin	0.13	U
72-55-9	4,4'-DDE	0.13	U
72-20-8	Endrin	0.13	U
33213-65-9	Endosulfan II	0.13	U
72-54-8	4,4'-DDD	0.13	U
1031-07-8	Endosulfan sulfate	0.13	U
50-29-3	4,4'-DDT	0.13	U
72-43-5	Methoxychlor	0.63	U
53494-70-5	Endrin ketone	0.13	U
5103-71-9	alpha-Chlordane	0.63	U
5103-74-2	gamma-Chlordane	0.63	U
8001-35-2	Toxaphene	1.3	U
12674-11-2	Aroclor-1016	0.63	U
11104-28-2	Aroclor-1221	0.63	U
11141-16-5	Aroclor-1232	0.63	U
53469-21-9	Aroclor-1242	0.63	U
12672-29-6	Aroclor-1248	0.63	U
11097-69-1	Aroclor-1254	1.3	U
11096-82-5	Aroclor-1260	1.3	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR8

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7896

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 54 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	35	U
319-85-7	beta-BHC	35	U
319-86-8	delta-BHC	35	U
58-89-9	gamma-BHC (Lindane)	35	U
76-44-8	Heptachlor	35	U
309-00-2	Aldrin	35	U
1024-57-3	Heptachlor epoxide	35	U
959-98-8	Endosulfan I	35	U
60-57-1	Dieldrin	70	U
72-55-9	4,4'-DDE	70	U
72-20-8	Endrin	70	U
33213-65-9	Endosulfan II	70	U
72-54-8	4,4'-DDD	70	U
1031-07-8	Endosulfan sulfate	70	U
50-29-3	4,4'-DDT	70	U
72-43-5	Methoxychlor	350	U
53494-70-5	Endrin ketone	70	U
5103-71-9	alpha-Chlordane	350	U
5103-74-2	gamma-Chlordane	350	U
8001-35-2	Toxaphene	700	U
12674-11-2	Aroclor-1016	350	U
11104-28-2	Aroclor-1221	350	U
11141-16-5	Aroclor-1232	350	U
53469-21-9	Aroclor-1242	350	U
12672-29-6	Aroclor-1248	350	U
11097-69-1	Aroclor-1254	700	U
11096-82-5	Aroclor-1260	700	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) WATER Lab Sample ID: PBLK

Sample wt/vol: 800 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.063	U
319-85-7	beta-BHC	0.063	U
319-86-8	delta-BHC	0.063	U
58-89-9	gamma-BHC (Lindane)	0.063	U
76-44-8	Heptachlor	0.063	U
309-00-2	Aldrin	0.063	U
1024-57-3	Heptachlor epoxide	0.063	U
959-98-8	Endosulfan I	0.063	U
60-57-1	Dieldrin	0.13	U
72-55-9	4,4'-DDE	0.13	U
72-20-8	Endrin	0.13	U
33213-65-9	Endosulfan II	0.13	U
72-54-8	4,4'-DDD	0.13	U
1031-07-8	Endosulfan sulfate	0.13	U
50-29-3	4,4'-DDT	0.13	U
72-43-5	Methoxychlor	0.63	U
53494-70-5	Endrin ketone	0.13	U
5103-71-9	alpha-Chlordane	0.63	U
5103-74-2	gamma-Chlordane	0.63	U
8001-35-2	Toxaphene	1.3	U
12674-11-2	Aroclor-1016	0.63	U
11104-28-2	Aroclor-1221	0.63	U
11141-16-5	Aroclor-1232	0.63	U
53469-21-9	Aroclor-1242	0.63	U
12672-29-6	Aroclor-1248	0.63	U
11097-69-1	Aroclor-1254	1.3	U
11096-82-5	Aroclor-1260	1.3	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK02

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) SOIL Lab Sample ID: PBLK

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	16	U
319-85-7	beta-BHC	16	U
319-86-8	delta-BHC	16	U
58-89-9	gamma-BHC (Lindane)	16	U
76-44-8	Heptachlor	16	U
309-00-2	Aldrin	16	U
1024-57-3	Heptachlor epoxide	16	U
959-98-8	Endosulfan I	16	U
60-57-1	Dieldrin	32	U
72-55-9	4,4'-DDE	32	U
72-20-8	Endrin	32	U
33213-65-9	Endosulfan II	32	U
72-54-8	4,4'-DDD	32	U
1031-07-8	Endosulfan sulfate	32	U
50-29-3	4,4'-DDT	32	U
72-43-5	Methoxychlor	160	U
53494-70-5	Endrin ketone	32	U
5103-71-9	alpha-Chlordane	160	U
5103-74-2	gamma-Chlordane	160	U
8001-35-2	Toxaphene	320	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	320	U
11096-82-5	Aroclor-1260	320	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR3MS

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7892MS

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 70 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	53	U
319-85-7	beta-BHC	53	U
319-86-8	delta-BHC	53	U
58-89-9	gamma-BHC (Lindane)	53	U
76-44-8	Heptachlor	53	U
309-00-2	Aldrin	53	U
1024-57-3	Heptachlor epoxide	53	U
959-98-8	Endosulfan I	53	U
60-57-1	Dieldrin	110	U
72-55-9	4,4'-DDE	59	J
72-20-8	Endrin	110	U
33213-65-9	Endosulfan II	110	U
72-54-8	4,4'-DDD	110	U
1031-07-8	Endosulfan sulfate	110	U
50-29-3	4,4'-DDT	110	U
72-43-5	Methoxychlor	530	U
53494-70-5	Endrin ketone	110	U
5103-71-9	alpha-Chlordane	530	U
5103-74-2	gamma-Chlordane	530	U
8001-35-2	Toxaphene	1100	U
12674-11-2	Aroclor-1016	530	U
11104-28-2	Aroclor-1221	530	U
11141-16-5	Aroclor-1232	530	U
53469-21-9	Aroclor-1242	530	U
12672-29-6	Aroclor-1248	530	U
11097-69-1	Aroclor-1254	1100	U
11096-82-5	Aroclor-1260	1100	U

9613447B 0700

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR6MS

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) WATER Lab Sample ID: CLP7894MS

Sample wt/vol: 800 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.063	U
319-85-7	beta-BHC	0.063	U
319-86-8	delta-BHC	0.063	U
58-89-9	gamma-BHC (Lindane)	0.063	U
76-44-8	Heptachlor	0.063	U
309-00-2	Aldrin	0.063	U
1024-57-3	Heptachlor epoxide	0.063	U
959-98-8	Endosulfan I	0.063	U
60-57-1	Dieldrin	0.13	U
72-55-9	4,4'-DDE	0.13	U
72-20-8	Endrin	0.13	U
33213-65-9	Endosulfan II	0.13	U
72-54-8	4,4'-DDD	0.13	U
1031-07-8	Endosulfan sulfate	0.13	U
50-29-3	4,4'-DDT	0.13	U
72-43-5	Methoxychlor	0.63	U
53494-70-5	Endrin ketone	0.13	U
5103-71-9	alpha-Chlordane	0.63	U
5103-74-2	gamma-Chlordane	0.63	U
8001-35-2	Toxaphene	1.3	U
12674-11-2	Aroclor-1016	0.63	U
11104-28-2	Aroclor-1221	0.63	U
11141-16-5	Aroclor-1232	0.63	U
53469-21-9	Aroclor-1242	0.63	U
12672-29-6	Aroclor-1248	0.63	U
11097-69-1	Aroclor-1254	1.3	U
11096-82-5	Aroclor-1260	1.3	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR3MSD

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) SOIL Lab Sample ID: CLP7892MSD

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. 70 dec. ____ Date Extracted: 07/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	53	U
319-85-7	beta-BHC	53	U
319-86-8	delta-BHC	53	U
58-89-9	gamma-BHC (Lindane)	53	U
76-44-8	Heptachlor	53	U
309-00-2	Aldrin	53	U
1024-57-3	Heptachlor epoxide	53	U
959-98-8	Endosulfan I	53	U
60-57-1	Dieldrin	110	U
72-55-9	4,4'-DDE	77	J
72-20-8	Endrin	110	U
33213-65-9	Endosulfan II	110	U
72-54-8	4,4'-DDD	110	U
1031-07-8	Endosulfan sulfate	110	U
50-29-3	4,4'-DDT	110	U
72-43-5	Methoxychlor	530	U
53494-70-5	Endrin ketone	110	U
5103-71-9	alpha-Chlordane	530	U
5103-74-2	gamma-Chlordane	530	U
8001-35-2	Toxaphene	1100	U
12674-11-2	Aroclor-1016	530	U
11104-28-2	Aroclor-1221	530	U
11141-16-5	Aroclor-1232	530	U
53469-21-9	Aroclor-1242	530	U
12672-29-6	Aroclor-1248	530	U
11097-69-1	Aroclor-1254	1100	U
11096-82-5	Aroclor-1260	1100	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYR6MSD

Lab Name: DATACHEM LABS Contract: HANFORD

Lab Code: DATAC Case No.: WHC15 SAS No.: _____ SDG No.: WHCP15

Matrix: (soil/water) WATER Lab Sample ID: CLP7894MSD

Sample wt/vol: 800 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 07/02/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/03/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.063	U
319-85-7	beta-BHC	0.063	U
319-86-8	delta-BHC	0.063	U
58-89-9	gamma-BHC (Lindane)	0.063	U
76-44-8	Heptachlor	0.063	U
309-00-2	Aldrin	0.063	U
1024-57-3	Heptachlor epoxide	0.063	U
959-98-8	Endosulfan I	0.063	U
60-57-1	Dieldrin	0.13	U
72-55-9	4,4'-DDE	0.13	U
72-20-8	Endrin	0.13	U
33213-65-9	Endosulfan II	0.13	U
72-54-8	4,4'-DDD	0.13	U
1031-07-8	Endosulfan sulfate	0.13	U
50-29-3	4,4'-DDT	0.13	U
72-43-5	Methoxychlor	0.63	U
53494-70-5	Endrin ketone	0.13	U
5103-71-9	alpha-Chlordane	0.63	U
5103-74-2	gamma-Chlordane	0.63	U
8001-35-2	Toxaphene	1.3	U
12674-11-2	Aroclor-1016	0.63	U
11104-28-2	Aroclor-1221	0.63	U
11141-16-5	Aroclor-1232	0.63	U
53469-21-9	Aroclor-1242	0.63	U
12672-29-6	Aroclor-1248	0.63	U
11097-69-1	Aroclor-1254	1.3	U
11096-82-5	Aroclor-1260	1.3	U

9613404.0792

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
Page 1 of 2
Part 1 of 1

Date _____
Agency Identification Number SF-0813-EH
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland,, WA 99352
Attention: Jeanette Duncan

AUG 1991 RECEIVED DATA RECEIPT

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site 300-FF-1 Date of Collection June 27, 1991

Date Samples Received at DataChem July 02, 1991

Analytical Results

Parameter Name / Analysis Date / Method / Prep Method	Units	Field Number / Lab Number	B00YR1 CLP 7890	B00YR2 CLP 7891	B00YR3 CLP 7892	B00YR8 CLP 7896				% Limit of Detection
Fluoride (F) 07/10/1991 300.0 [1]	ug/g		ND*	3.	2.	ND*				2.
Chloride (Cl) 07/10/1991 300.0 [1]	ug/g		9.	10.	7.	6.				2.
Bromide (Br) 07/10/1991 300.0 [1]	ug/g		ND*	ND*	ND*	ND*				2.
Phosphate (PO_4-P) 07/10/1991 300.0 [1]	ug/g		9.	14.	7.	9.				7.
Nitrate (NO_3-N) 07/10/1991 300.0 [1]	ug/g		12.0	7.6	17.0	4.8				0.5
Nitrite (NO_2-N) 07/10/1991 300.0 [1]	ug/g		1.6	1.9	2.9	.8				0.6
Sulfate (SO_4) 07/10/1991 300.0 [1]	ug/g		400	420	570	610				2.
pH 07/03/1991 9045 [2]	pH units		5.8	6.1	5.9	6.1				±0.1

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
[1] Analyses completed on or before this date.
** Parameter not analyzed (See comment page).
( ) Parameter between LOD and LOQ.
[ ] Method Reference (See comments page.)

Debbie A. Christensen
Analyst: Debbie A. Christensen

Brett G. Lee
Reviewer: Brett G. Lee

Norman K. Christensen
Laboratory Supervisor: Norman K. Christensen

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

175

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Date _____

Agency Identification Number SF-0813-EH

Method Index **-- Method Reference --**

[1] EPA-600/4-79-020 "Methods for Chemical Analysis of Water and Wastes", March 1983 (Modified for use with soils.)

[2] SW-846 "Test Methods for Evaluating Solid Waste", September 1986.

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

9613404.0794

DATA CHEM LABORATORIES

ENVIRONMENTAL WATER REPORT

Date _____
Agency Identification Number SF-0813-II
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland,, WA 99352
Attention: Jeanette Duncan

AUG 1991 RECEIVED DATA RECEIPT

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site 300FF1 Date of Collection June 27, 1991

Date Samples Received at DataChem July 02, 1991

Analytical Results

Parameter Name / Analysis Date / Method / Prep Method	Units	Field Number / Lab Number	B00YR5 CLP 7893	B00YR6 CLP 7894						* Limit of Detection
Fluoride (F) 07/10/1991 300.0 [1]	mg/L		0.4	0.5						0.2
Chloride (Cl) 07/10/1991 300.0 [1]	mg/L		ND*	ND*						0.2
Bromide (Br) 07/10/1991 300.0 [1]	mg/L		ND*	ND*						0.2
Phosphate (PO_4-P) 07/10/1991 300.0 [1]	mg/L		ND*	ND*						0.7
Nitrate (NO_3-N) 07/10/1991 300.0 [1]	mg/L		ND*	ND*						0.05
Nitrite (NO_2-N) 07/10/1991 300.0 [1]	mg/L		ND*	ND*						0.06
Sulfate (SO_4) 07/10/1991 300.0 [1]	mg/L		ND*	ND*						0.2
pH 07/03/1991 9040 [2]	pH units		4.9	5.0						±0.1

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
[1] Analyses completed on or before this date.

** Parameter not analyzed (See comment page).
( ) Parameter between LOD and LOQ.
[ ] Method Reference (See comments page.)

Analyst: Thanh Hai Tran

Reviewer: Lex J. Pearce

Laboratory Supervisor: Michael P. Beesley

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

DATA CHEM LABORATORIES

9613404.0795

ENVIRONMENTAL WATER REPORT

Date _____

Agency Identification Number SF-0813-II

Account No. 3534C

Analytical Results

Parameter Name / Analysis Date / Units / Method / Prep Method	Field Number / Lab Number	B00YR5 CLP 7893	B00YR6 CLP 7894						* Limit of Detection
Sulfide (S) 07/03/1991 9030 [2]	mg/L	ND*	ND*						1.

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
[1] Analyses completed on or before this date.

** Parameter not analyzed (See comments page).
( ) Parameter between LOD and LOQ.
[ ] Method Reference (See comments page).

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

DATA CHEM LABORATORIES

ENVIRONMENTAL WATER REPORT

Date _____

Agency Identification Number SF-0813-II

Method Index **-- Method Reference --**

[1] EPA-600/4-79-020 "Methods for Chemical Analysis of Water and Wastes", March 1983.

[2] SW-846 "Test Methods for Evaluating Solid Waste", September 1986.

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company